



The architects of efficiency

Mongolia Catalogue

Electrical Distribution,
Automation & Control



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kW	hp	220 V A	240 V A	kW	hp	220-240 V A	380 V A	415 V A	440 V A	500 V A	660 V A	1000 V A
0,37	0,5	3,9	3,6	0,37	0,5	1,8	1,03	—	0,99	1	0,6	0,4
0,55	0,75	5,2	4,8	0,55	0,75	2,75	1,6	—	1,36	1,21	0,9	0,6
0,75	1	6,6	6,1	0,75	1	3,5	2	2	1,68	1,5	1,1	0,75
1,1	1,5	9,6	8,8	1,1	1,5	4,4	2,6	2,5	2,37	2	1,5	1
1,5	2	12,7	11,7	1,5	2	6,1	3,5	3,5	3,06	2,6	2	1,3
1,8	2,5	15,7	14,4	2,2	3	8,7	5	5	4,42	3,8	2,8	1,9
2,2	3	18,6	17,1	3	4	11,5	6,6	6,5	5,77	5	3,8	2,5
3	4	24,3	22,2	3,7	5	13,5	7,7	7,5	7,1	5,9	4,4	3
4	5	29,6	27,1	4	5,5	14,5	8,5	8,4	7,9	6,5	4,9	3,3
4,4	6	34,7	31,8	5,5	7,5	20	11,5	11	10,4	9	6,6	4,5
5,2	7	39,8	36,5	7,5	10	27	15,5	14	13,7	12	8,9	6
5,5	7,5	42,2	38,7	9	12	32	18,5	17	16,9	13,9	10,6	7
6	8	44,5	40,8	10	13,5	35	20	—	—	15	11,5	7,5
7	9	49,5	45,4	11	15	39	22	21	20,1	18,4	14	9
7,5	10	54,4	50	15	20	52	30	28	26,5	23	17,3	12
				18,5	25	64	37	35	32,8	28,5	21,3	14,5
				22	30	75	44	40	39	33	25,4	17
				25	35	85	52	47	45,3	39,4	30,3	20
				30	40	103	60	55	51,5	45	34,6	23
				33	45	113	68	60	58	50	39	25
				37	50	126	72	66	64	55	42	28
				40	54	134	79	71	67	60	44	30
				45	60	150	85	80	76	65	49	33
				51	70	170	98	90	83	75	57	38
				55	75	182	105	100	90	80	61	40
				59	80	195	112	105	97	85	66	43
				63	85	203	117	115	109	89	69	45
				75	100	240	138	135	125	105	82	53
				80	110	260	147	138	131	112	86	57
				90	125	295	170	165	146	129	98	65
				100	136	325	188	182	162	143	107	71
				110	150	356	205	200	178	156	118	78
				129	175	420	242	230	209	184	135	85
				132	180	425	245	240	215	187	140	90
				140	190	450	260	250	227	200	145	95
				147	200	472	273	260	236	207	152	100
				150	205	483	280	270	246	210	159	102
				160	220	520	300	280	256	220	170	115
				180	245	578	333	320	289	254	190	135
				185	250	595	342	325	295	263	200	138
				200	270	626	370	340	321	281	215	150
				220	300	700	408	385	353	310	235	160
				250	340	800	460	425	401	360	274	200
				257	350	826	475	450	412	365	280	203
				280	380	900	510	475	450	400	305	220
				295	400	948	546	500	473	416	320	227
				300	410	980	565	510	481	420	325	230
				315	430	990	584	535	505	445	337	239
				335	450	1100	620	550	518	472	355	250
				355	480	1150	636	580	549	500	370	262
				375	500	1180	670	610	575	527	395	273
				400	545	1250	710	650	611	540	410	288
				425	580	—	760	690	650	574	445	302
				445	600	—	790	730	680	595	455	317
				450	610	—	800	740	690	608	460	320
				475	645	—	850	780	730	645	485	335
				500	680	—	900	820	780	680	515	350

Degrees of protection

The IEC publications 144 and 259 define the degrees of protection provided by electrical enclosures with respect to persons, equipment within the enclosure and the ingress of water and enable this to be expressed by the letters IP followed by two numerals:

These standards do not apply to protection against the risk of explosion or conditions such as humidity, corrosive gases, fungi or vermin.

Certain equipment intended to be mounted in enclosures also contribute to the degree of protection achieved. Example: push-buttons on enclosures.

In this case the equipment will only conform with the standard when it is correctly mounted.

Different parts of an equipment can have different degrees of protection and still comply with the standards. Example : opening in the base of an enclosure.

1st characteristic numeral	2nd characteristic numeral
Protection against contact and penetration of solid bodies. Conforming to IEC, NFC, DIN.	Protection against the penetration of liquids. Conforming to IEC, NFC, DIN.
0 Non-protected	0 Non-protected
1 Protection against solid objects greater than 50 mm.	1 Protection against dripping water.
2 Protection against solid objects greater than 12 mm.	2 Protection against dripping water when tilted up to 15°.
3 Protection against solid objects greater than 2.5 mm.	3 Protection against spraying water.
4 Protection against solid objects greater than 1 mm.	4 Protection against splashing water.
5 Dust protected.	5 Protection against water jets.
6 Dust tight.	6 Protection against heavy seas.
	7 Protection against the effects of immersion.
	8 Protection against submersion.

Masterpact NT/NW: price list

A

NT06 to NT16 fixed and drawout circuit breakers

Complete device - circuit breakers	A1
Accessories for NT06 to NT16	
Fixed circuit breakers	
Connection	A2
Indication contacts	A2
Remote operation	A3
Drawout circuit breakers	
Connection	A4
Chassis locking and accessories	A4
Indication contacts	A5
Remote operation	A6
Fixed and drawout circuit breakers	A7
NT06 to NT16 fixed and drawout switch-disconnectors	A9

NW08 to NW63 fixed and drawout circuit breakers

Complete device - circuit breaker	A10
Accessories for NW08 to NW63	
Fixed circuit breakers	
Connection	A11
Indication contacts	A11
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Drawout circuit breakers	
Connection	A13
Chassis locking and accessories	A13
Indication contacts	A14
Remote operation	A15
Fixed and drawout circuit breakers	A16
NW08 to NW63 fixed and drawout switch-disconnectors	A18

Order Form for Masterpact NT/NW

Order Form for Masterpact NT/NW	A19
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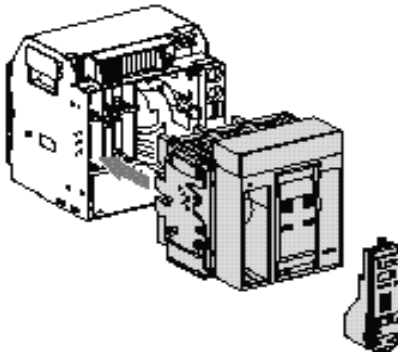
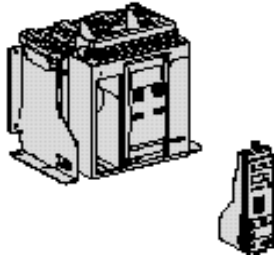
NT circuit breaker

A Masterpact NT circuit breaker consist of:

- the basic circuit breaker
- a Micrologic 2.0A control unit
- a chassis for drawout only
- horizontal connections for both top and bottom
- 4 auxiliary contacts (4OF)
- 1 trip indication contact (SDE)

Additional equipped for drawout breaker

- chassis with safety shutter
- arc chute cover
- door frame
- disconnected position locking (padlocks excluded)



A communication option and various auxiliaries and accessories may also be added.

Auxiliaries and accessories:

- for fixed devices: see page A2
 - for drawout devices: see page A4
 - for fixed or drawout devices: see page A7
- Switch-disconnector version: see page A9
 Source changeover assembly: see page C3

	In (Amp. at 40°C)	Icu (kA @ 220/415V)	Icw (1 sec.)	Fixed		Drawout	
				3 Pole	4 Pole	3 Pole	4 Pole
Type H1							
NT06	630	42	42				
NT08	800	42	42				
NT10	1000	42	42				
NT12	1250	42	42				
NT16	1600	42	42				
Type H2							
NT06	630	50	36				
NT08	800	50	36				
NT10	1000	50	36				
NT12	1250	50	36				
NT16	1600	50	36				

Micrologic control unit

Price added to basic breaker with 2.0A control unit

"Ammeter" A

Micrologic 5.0 A	selective protection
Micrologic 6.0 A	selective + earth-fault protection

"Energy meter" E

Micrologic 2.0 E	distribution protection
Micrologic 5.0 E	selective protection
Micrologic 6.0 E	selective + earth-fault protection

"power meter" P

Micrologic 5.0 P	selective protection
Micrologic 6.0 P	selective + earth-fault protection

Communication option

Modbus COM	Chassis	Circuit breaker
for fixed breaker	not required	47405
for drawout breaker	33852	47485

NT06 to NT16

fixed circuit breakers

Connections and indication contacts

A

Front connection



Price added to basic breaker with horizontal connection		3 Pole	4 Pole
630/1600 A	Top		
	Bottom		

Front connection accessories

Vertical connection adapters 630/1600A



3P (3 parts)	33642
4P (4 parts)	33643

Cable lug adapter 630/1600A



3P (3 parts)	33644
4P (4 parts)	33645

Interphase barriers



3P/4P top (3 parts)	33648
3P/4P bottom (3 parts)	33648

Common accessories for front and rear connections



Spreaders	630/1600 A	3P	33622
		4P	33623
For front and horizontal rear connection			

Indication contacts

ON/OFF indication contacts (OF)



Changeover contacts (6 A - 240 V)	4 (standard)
1 low-level OF to replace 1 standard OF (4 max.)	47339

Fault trip indication contacts (SDE)



Changeover contact (5 A - 240 V)	1 (standard)
1 additional SDE (5 A - 240 V)	47340
1 additional low-level SDE	47341

Programmable contacts (*) (programmed via Micrologic control unit)



M2C



M6C

2 contacts (M2C) (5 A - 240 V)	47403
6 changeover contacts (M6C) (5 A - 240 V) (1)	47404

(*) for use Micrologic control units P and H only.

(1) External 24VDC power supply required.

(2) Discount code 10 applies


NT06 to NT16

fixed circuit breakers (cont.)


Remote operation




Remote ON/OFF

Gear motor			
E46436		Voltage	MCH
		AC 50/60 Hz	48 V
		100-130 V	47395
		200-240 V	47396
		277-415 V	47398
		440-480 V	47400
		DC	
		24-30 V	47390
		48-60 V	47391
		100-130 V	47392
		200-250 V	47393


Instantaneous voltage releases

E46437		Standard	Voltage	Closing release XF	Opening release MX
		AC 50/60 Hz	12 V DC	47349	47359
	DC	24-30 V DC, 24 V AC	47350	47360	
		48-60 V DC, 48 V AC	47351	47361	
		100-130 V	47352	47362	
		200-250 V	47353	47363	
		277 V AC	47354	47364	
		380-480 V AC	47355	47365	
		Communicating (1)	Voltage	XF com	MX com
		AC 50/60 Hz	12 V DC	47310	47320
		DC	24-30 V DC, 24 V AC	47311	47321
			48-60 V DC, 48 V AC	47312	47322
			100-130 V	47313	47323
			200-250 V	47314	47324
		(1) Used with communication option	277 V AC	47315	47325
			380-480 V AC	47316	47326

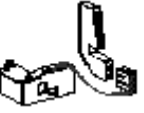
Ready to close contact (1 max.)

E46438		PF
		1 changeover contact (5 A - 240 V)
	1 low-level changeover contact	47343

Electrical closing pushbutton

E46439		1 pushbutton	47512
		<i>Used with XF com is compulsory.</i>	


Remote reset after fault trip

E46660		Electrical reset	Res
		110-130 V AC	47344
	220-240 V AC	47345	
	Automatic reset	RAR	
	Adaptation	47346 (*)	


(*) No charge. Done during workshop assembly

Remote tripping

Instantaneous voltage release

E46437		Voltage	2nd MX or	MN
		AC 50/60 Hz	12 V DC	47369
	DC	24-30 V DC, 24 V AC	47370	47380
		48-60 V DC, 48 V AC	47371	47381
		100-130 V	47372	47382
		200-250 V	47373	47383
		277 V AC	47374	
		380-480 V AC	47375	47385

MN delay unit

E46694		Voltage	R (non-adjustable)	Rr (adjustable)
		AC 50/60 Hz	48-60 V	
	DC	100-130 V	33684	33681
		200-250 V	33685	33682
		380-480 V		33683

Must be used with instantaneous voltage releases (MN)

NT06 to NT16

drawout circuit breakers

Connections, locking & accessories

A

Connections

Chassis front connection



<i>Price adder to basic breaker with horizontal connection</i>		3 Pole	4 Pole
630/1600 A	Top		
	Bottom		

Chassis rear connection



Interphase barriers	3P/4P (3 parts)	33768
---------------------	-----------------	-------

Common accessories for front and rear connection



Spreaders	630/1600 A	3P	33622
		4P	33623

For front and horizontal rear connection.

Chassis locking

"Disconnected" position locking



By padlocks		
VCOP		Standard
By Profalux keylocks		
1 lock with 1 key + adaptation kit		33773
2 locks 1 key + adaptation kit		33774
2 locks 2 different keys + adaptation kit		33775
By Ronis keylocks		
1 lock with 1 key + adaptation kit		33776
2 locks 1 key + adaptation kit		33777
2 locks 2 different keys + adaptation kit		33778

Door interlock (1 part)



Right-hand side of chassis (VPECD)	33786
Left-hand side of chassis (VPECG)	33787

Racking interlock



Racking interlock (VPOC)	33788
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Breaker mismatch protection



Breaker mismatch protection (VDC)	33767
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Chassis accessories

Auxiliary terminal shield (CB)



3P	33763
4P	33764

Arc chute cover



3P/4P	Standard
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Safety shutters (VO)



3P	Standard
4P	Standard

(1) Discount code 10


NT06 to NT16

drawout circuit breakers (cont.)


Indication contacts

Electrical auxiliaries


ON/OFF indication contacts (OF)

E46467		Changeover contacts (6 A - 240 V)	4 (standard)
		1 low-level OF to replace 1 standard OF (4 max.)	33806

Fault trip indication contacts (SDE)

E47759		Changeover contact (5 A - 240 V)	1 (standard)
		1 additional SDE (5 A - 240 V)	47430
		1 additional low-level SDE	47431

Programmable contacts (*) (programmed via Micrologic control unit)


E46686		2 contacts M2C (5 A - 240 V)	47483
		6 changeover contacts M6C (5 A - 240 V) (1)	47484
(*) for Micrologic control units P and H only.			
(1) External 24VDC power supply required.			

M2C



M6C

Carriage switches (connected / disconnected / test position)

E46661		Changeover contacts (6A - 240 V)	
		1 connected position contact (3 max.)	33751
		1 test position contact (1 max.)	33752
		1 disconnected position contact (2 max.)	33753
		And/or low-level changeover contacts	
		1 connected position contact (3 max.)	33754
		1 test position contact (1 max.)	33755
		1 disconnected position contact (2 max.)	33756

Auxiliary terminals for chassis alone

3 wire terminal (30 parts)	47071
6 wire terminal (10 parts)	47072
Jumpers (10 parts)	47900

NT06 to NT16

drawout circuit breakers (cont.)

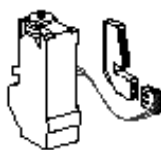
Remote operation

A

Remote ON/OFF

Gear motor

E46662



	Voltage	MCH
AC 50/60 Hz	48 V	47461
	100-130 V	47465
	200-240 V	47466
	277-415 V	47468
	440-480 V	47470
DC	24-30 V	47460
	48-60 V	47461
	100-130 V	47462
	200-250 V	47463

Instantaneous voltage release

Standard	Voltage	Closing release XF	Opening release MX
AC 50/60 Hz	12 V DC	47439	33809
DC	24-30 V DC, 24 V AC	47440	33810
	48-60 V DC, 48 V AC	47441	33811
	100-130 V	47442	33812
	200-250 V	47443	33813
	277 V AC	47444	33814
	380-480 V AC	47445	33815
Communicating (1)		XF com	MX com
AC 50/60 Hz	12 V DC	47411	33791
DC	24-30 V DC, 24 V AC	47412	33792
	48-60 V DC, 48 V AC	47413	33793
	100-130 V	47414	33794
	200-250 V	47415	33795
	277 V AC	47416	33796
(1) Used with communication option	380-480 V AC	47417	33797

Ready to close contact (1 max.)

E46664



	PF
1 changeover contact (5 A - 240 V)	47432
1 low-level changeover contact	47433

Electrical closing pushbutton

E46439



	BPFE
1 pushbutton	47512
<i>Used with XF com is compulsory.</i>	

Remote reset after fault trip

E46660



Electrical reset	RES
110-130 V AC	47434
220-240 V AC	47435
Automatic reset	RAR
Adaptation	47346 (*)
<i>(*) No charge. Done during workshop assembly</i>	

Remote tripping

Instantaneous voltage release

E46663



	Voltage	2nd MX or	MN
AC 50/60 Hz	12 V DC	47449	
DC	24-30 V DC, 24 V AC	47450	33819
	48-60 V DC, 48 V AC	47451	33820
	100-130 V	47452	33821
	200-250 V	47453	33822
	277 V AC	47454	
	380-480 V AC	47455	33824

MN delay unit



	Voltage	R (non-adjustable)	Rr (adjustable)
AC 50/60 Hz	48-60 V		33680
DC	100-130 V	33684	33681
	200-250 V	33685	33682
	380-480 V		33683

Must be used with instantaneous voltage releases (MN)

Circuit breaker locking

Pushbutton locking device



By padlocks	33897
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OFF position locking

E46666



By padlocks + BPFE support		47514
By keylocks + BPFE support		
Profalux	1 lock	47519
	1 lock + 1 lock with same key profile	47520
Ronis	1 lock	47521
	1 lock + 1 lock with same key profile	47522
Locking kit with Profalux		47515
locks for	Ronis	47516
	Kirk	47517
	Castell	47518

Other circuit breaker accessories

Mechanical operation counter



operation counter CDM	33895
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Escutcheon and accessories

E46668



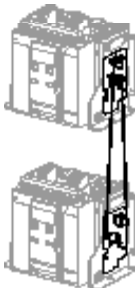
	Fixed	Drawout
Escutcheon	33718	33857
Transparent cover (IP 54)		33859
Escutcheon blanking plate		33858

Escutcheon

Cover

Mechanical interlocking for source changeover

Interlocking using connecting rods



Complete assembly with 2 adaptation fixtures + rods	
2 Masterpact NT fixed devices	33912
2 Masterpact NT drawout devices	33913

Interlocking using cables (*)

Choose 2 adaptation fixtures (1 for each breaker) + 1 set of cables	
1 adaptation fixture for Masterpact NT fixed devices	33200
1 adaptation fixture for Masterpact NT drawout devices	33201
1 set of 2 cables	33209

(*) Can be used with any combination of NT or NW, fixed or drawout devices.

Cable-type door interlock



1 complete assembly for Masterpact NT fixed devices	33920
1 complete assembly for Masterpact NT drawout devices	33921

(1) Discount code 10

Accessories for NT06 to NT16 fixed or drawout circuit breakers (cont.)

A

Accessories for Micrologic control units

External sensors



External sensors for earth-leakage protection (TCE)

Sensor rating 400/1600 A (for Micrologic P and H with 3P devices)	33576
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Source ground return (SGR) earth fault protection

External sensor (SGR)	33579
MDGF summing module	48891



Voltage measurement input (for breakers supplied via bottom terminals)

Voltage measurement input	Fixed	47506
	Drawout	47507

External power supply module (AD)



24-30 V DC	54440
48-60 V DC	54441
100-125 V DC	54442
110-130 V AC	54443
200-240 V AC	54444
380-415 V AC	54445

Battery module (BAT)

1 battery 24V	54446
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Test equipment

Mini test kit



Hand held test kit (HHTK)	33594
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(1) Discount code 10

NT switch-disconnectors

A Masterpact NT switch-disconnector consist of:

- a basic switch-disconnector
- horizontal connections for both top and bottom
- 4 auxiliary contacts (4OF)

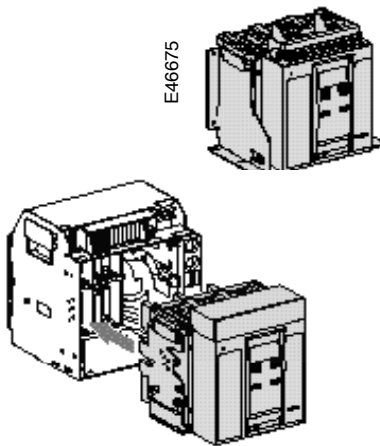
Additional equipped for drawout devices

- chassis with safety shutter
- arc chute cover
- door frame
- disconnected position locking (padlocks excluded)

	In (A at 40°C)	Icm (kA @ 220/440V)	Icw (1sec)	Icw (3sec)	Fixed		Drawout	
					3 Pole	4 Pole	3 Pole	4 Pole
Type HA								
NT06	630	75	36	20				
NT08	800	75	36	20				
NT10	1000	75	36	20				
NT12	1250	75	36	20				
NT16	1600	75	36	20				

Communication option

Modbus COM	Chassis	Circuit breaker
for fixed breaker	not required	47405
for drawout breaker	33852	47485



A communication option and various auxiliaries and accessories may also be added.

Auxiliaries and accessories:

- for fixed devices: see page A2
 - for drawout devices: see page A4
 - for fixed or drawout devices: see page A7
- Switch-disconnector version: see page A9
 Source changeover assembly: see page C3

NW circuit breaker

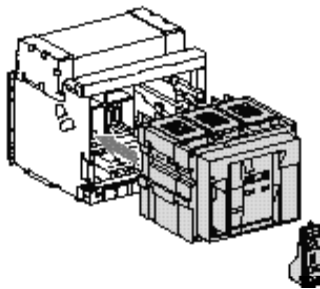
A Masterpact NW circuit breaker consist of:

- a basic circuit breaker
- a Micrologic 2.0A control unit
- horizontal connections for both top and bottom (NW63 has vertical connection only)
- 4 auxiliary contacts (4OF)
- 1 trip indication contact (SDE)

Additional equipped for drawout breaker

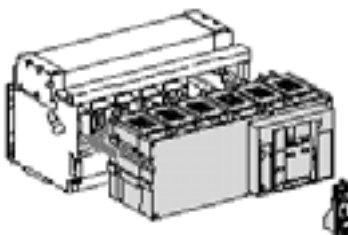
- chassis with safety shutter
- arc chute cover
- door frame
- disconnected position locking (padlocks excluded)

E46448



Basic drawout circuit breaker <4000 A

E46449



Basic drawout circuit breaker > 4000 A

A communication option and various auxiliaries and accessories may also be added.

Auxiliaries and accessories:

- for fixed devices: see Page A2
 - for drawout devices: see page A4
 - for fixed or drawout devices: see page A7
- Switch-disconnector version: see page A18
 Source changeover assembly: see page C4

	In (A at 40°C)	Icu/Ics (kA @ 220/415V)	Icw (1sec)	Icw (3sec)	Fixed		Drawout	
					3 Pole	4 Pole	3 Pole	4 Pole
Type N1								
NW08	800	42/42	42	22				
NW10	1000	42/42	42	22				
NW12	1250	42/42	42	22				
NW16	1600	42/42	42	22				
Type H1								
NW08	800	65/65	65	36				
NW10	1000	65/65	65	36				
NW12	1250	65/65	65	36				
NW16	1600	65/65	65	36				
NW20	2000	65/65	65	36				
NW25	2500	65/65	65	65				
NW32	3200	65/65	65	65				
NW40	4000	65/65	65	65				
NW40b	4000	100/100	100	100				
NW50	5000	100/100	100	100				
NW63	6300	100/100	100	100				
Type H2								
NW08	800	100/100	85	50				
NW10	1000	100/100	85	50				
NW12	1250	100/100	85	50				
NW16	1600	100/100	85	50				
NW20	2000	100/100	85	75				
NW25	2500	100/100	85	75				
NW32	3200	100/100	85	75				
NW40	4000	100/100	85	75				
NW40b	4000	150/150	100	100				
NW50	5000	150/150	100	100				
NW63	6300	150/150	100	100				

Micrologic control unit

Price adder to basic breaker with 2.0A control unit Price adder (\$\$)

"Ammeter" A

Micrologic 5.0 A	selective protection
Micrologic 6.0 A	selective + earth-fault protection

"Energy meter" E

Micrologic 2.0 E	distribution protection
Micrologic 5.0 E	selective protection
Micrologic 6.0 E	selective + earth-fault protection

power meter P

Micrologic 5.0 P	selective protection
Micrologic 6.0 P	selective + earth-fault protection

Communication option

Modbus COM	Chassis	Circuit breaker
for fixed breaker	not required	48188
for drawout breaker	33852	48384

NW08 to NW63

fixed circuit breakers

Connections and indication contacts

Connection

Front connection

E46444



<i>Price added to basic breaker with horizontal connection</i>		3 Pole	4 Pole
800/1600 A	Top		
	Bottom		
2000 A	Top		
	Bottom		
2500/3200 A	Top		
	Bottom		

Rear connection accessories

E46428



Interphase barriers	3P/4P (3 parts)	48599
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Indication contacts

ON/OFF indication contacts (OF)

E46432



Block of 4 changeover contacts (6 A - 240 V)	1 block (standard)
1 additional block of 4 contacts (2 max.)	48198

Fault trip indication contacts (SDE)

E46665



Changeover contact (5 A - 240 V)	1 (standard)
1 additional SDE (5 A - 240 V)	48200
1 additional low-level SDE	48201

Programmable contacts (*) (programmed via Micrologic control unit)

E46434



2 contacts M2C (5 A - 240 V)	47403
6 changeover contacts M6C (5 A - 240 V) (1)	47404

(*) for Micrologic control units P and H only.

(1) External 24VDC supply required

E46434



M2C

M6C

NW08 to NW63

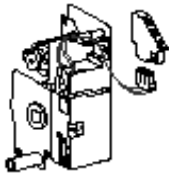
fixed circuit breakers (cont.)

Remote operation

Remote ON/OFF

Gear motor

E46447



	Voltage	MCH
AC 50/60 Hz	48 V	48207
	100-130 V	48211
	200-240 V	48212
	250-277 V	48213
	380-415 V	48214
	440-480 V	48215
DC	24-30 V	48206
	48-60 V	48207
	100-130 V	48208
	200-250 V	48209

Instantaneous voltage releases

E46437



	Voltage	Closing release XF	Opening release MX
Standard	AC 50/60 Hz	12 V DC	47349
	DC	24-30 V DC, 24 V AC	47350
		48/60 V DC, 48 V AC	47351
		100-130 V	47352
		200-250 V	47353
		277 V AC	47354
		380-480 V AC	47355
			47355
Communicating (1)	AC 50/60 Hz	12 V DC	47310
	DC	24-30 V DC, 24 V AC	47311
		48-60 V DC, 48 V AC	47312
		100-130 V	47313
		200-250 V	47314
		277 V AC	47315
	380-480 V AC	47316	47326

(1) Used with communication option

Ready to close contact (1 max.)

E46438



	PF
1 changeover contact (5 A - 240 V)	47342
1 low-level changeover contact	47343

Electrical closing pushbutton

E46677



	BPFE
1 pushbutton	48534

Used with XF com is compulsory.

Remote reset after fault trip

E46665



	Electrical reset	RES
	110-130 V AC	48202
	220-240 V AC	48203
	Automatic reset	RAR
	Adaptation	(*)

(*) No charge. Done during workshop assembly

Remote tripping

Instantaneous voltage release

E46437



	Voltage	2nd MX or	MN
AC 50/60 Hz	12 V DC	47369	
	DC	24-30 V DC, 24 V AC	47370
		48-60 V DC, 48 V AC	47371
		100-130 V	47372
		200-250 V	47373
		277 V AC	47374
		380-480 V AC	47375
			47375

MN delay unit



	Voltage	R (non-adjustable)	Rr (adjustable)
AC 50/60 Hz	48-60 V		33680
	DC	100-130 V	33684
		200-250 V	33685
		380-480 V	33685
			33683

Must be used with instantaneous under-voltage releases (MN)

Chassis front connection



<i>Price adder to basic breaker with horizontal connection</i>		3 Pole	4 Pole
800/1600 A	Top		
	Bottom		
2000 A	Top		
	Bottom		
2500/3200 A	Top		
	Bottom		

Chassis rear connection accessories



Interphase barriers		
3P/4P (3 parts)		48600

Chassis locking

Disconnected position locking



By padlocks		
VCPO		Standard
By Profalux keylocks		
Profalux	1 lock with 1 key + adaptation kit	48568
	2 locks 1 key + adaptation kit	48569
	2 locks 2 different keys + adaptation kit	48570
By Ronis keylocks		
Ronis	1 lock with 1 key + adaptation kit	48572
	2 locks 1 key + adaptation kit	48573
	2 locks 2 different keys + adaptation kit	48574

Door interlock (1 part)



Right-hand side of chassis	48579
Left-hand side of chassis	48580

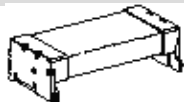
Racking interlock



1 part	48582
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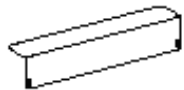
Chassis accessories

Arc chute cover



3P/4P	Standard
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Auxiliary terminal shield (CB)



800/4000 A	3P	48595
	4P	48596
4000b/6300 A	3P	48597
	4P	48598

Safety shutters



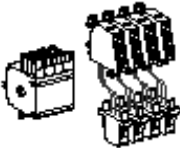
800/4000 A	3P	Standard
	4P	Standard
4000b/6300 A	3P	Standard
	4P	Standard

Shutter locking block (for replacement)




2 parts for 800/4000 A	48591
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Electrical auxiliaries**ON/OFF indication contacts (OF)**

E-46689		Block of 4 changeover contacts (6 A - 240 V)	1 block (standard)
		1 additional block of 4 contacts (2 max.)	48468


Combined closed / connected contacts for use with 1 auxiliary contact

E-46690		1 contact 5 A - 240V (8 max.)	48477
		or 1 low-level contact (8 max.)	48478

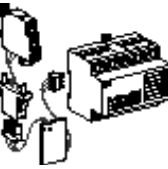
Fault trip indication contacts (SDE)

E-46691		Changeover contact (5 A - 240 V)	1 (standard)
		1 additional SDE (5 A - 240 V)	48475
		or 1 additional low-level SDE	48476

Programmable contacts (*) (programmed via Micrologic control unit)

E-46703		2 contacts M2C (5 A - 240 V)	48382


M2C

E-46734		or 6 contacts M6C (5 A - 240 V)	48383
		<i>External 24V DC power supply required</i>	

M6C

(*) for Micrologic control units P and H only.

Carriage switches (connected / disconnected / test position)

E-46661		Changeover contacts (8 A - 240V)	
		1 connected position contact (3 max.)	33751
		1 test position contact (3 max.)	33752
		1 disconnected position contact (3 max.)	33753
		and/or low-level changeover contacts	
		1 connected position contact (3 max.)	33754
		1 test position contact (3 max.)	33755
		1 disconnected position contact (3 max.)	33756
		Actuator for additional carriage switches	48560

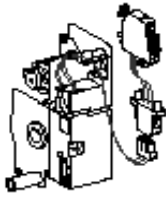
Auxiliary terminals for chassis alone

3 wire terminal (30 parts)	47898
6 wire terminal (10 parts)	47899
Jumpers (10 parts)	47900

Remote ON/OFF

Gear motor

E46692



		MCH	
AC 50/60 Hz	48 V	48522	
	100-130 V	48526	
	200-240 V	48527	
	250-277 V	48528	
	380-415 V	48529	
	440-480 V	48530	
DC	24-30 V	48521	
	48-60 V	48522	
	100-130 V	48523	
	200-250 V	48524	

Instantaneous voltage releases

E46693



		Closing release		Opening release		
Standard		XF		MX		
AC 50/60 Hz	12 V DC	48480		48490		
	24-30 V DC, 24 V AC	48481		48491		
	48-60 V DC, 48 V AC	48482		48492		
	100-130 V	48483		48493		
	200-250 V	48484		48494		
	277 V AC	48485		48495		
DC	380-480 V AC	48486		48496		
	Communicating (1)		XF com		MX com	
	AC 50/60 Hz	12 V DC	48448		48457	
		24-30 V DC, 24 V AC	48449		48458	
		48-60 V DC, 48 V AC	48450		48459	
	DC	100-130 V	48451		48460	
200-250 V		48452		48461		
277 V AC		48453		48462		
(1) Used with communication option	380-480 V AC	48454		48463		

Ready to close contact (1 max.)

E46695



		PF	
1 changeover contact (5 A - 240 V)		48469	
	1 low-level changeover contact	48470	

Electrical closing pushbutton

E46677



		BPFE	
1 pushbutton		48534	
<i>Used with XF com is compulsory.</i>			

Remote reset after fault trip

E46691



Electrical reset		Res	
110-130 V AC		48472	
220-240 V AC		48473	
Automatic reset		RAR	
Adaptation		47346 (*)	
(*) No charge. Done during workshop assembly			

Remote tripping

Instantaneous voltage release

E46693



		Voltage		2nd MX or		MN	
AC 50/60 Hz	12 V DC	48510					
	24-30 V DC, 24 V AC	48511		48501		48501	
DC	48-60 V DC, 48 V AC	48512		48502		48502	
	100-130 V	48513		48503		48503	
	200-250 V	48514		48504		48504	
	277 V AC	48515					
	380-480 V AC	48516		48506		48506	

MN delay unit



		Voltage		R (non-adjustable)		Rr (adjustable)	
AC 50/60 Hz	48-60 V	33684		33680		33680	
	100-130 V	33685		33681		33681	
DC	200-250 V	33685		33682		33682	
	380-480 V	33685		33683		33683	

Must be used with instantaneous voltage releases (MN)

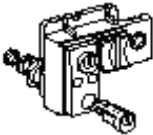
Circuit breaker locking

Pushbutton locking device



By padlocks	48536
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OFF position locking



By padlocks

	48539
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By Profalux keylocks

Profalux	1 lock with 1key + adaptation kit	48545
	2 locks 1 key + adaptation kit	48546
	2 locks 2 different keys + adaptation kit	48547

By Ronis keylocks

Ronis	1 lock with 1key + adaptation kit	48549
	2 locks 1 key + adaptation kit	48550
	2 locks 2 different keys + adaptation kit	48551

Other circuit breaker accessories

Mechanical operation counter



Operation counter CDM	48535
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Escutcheon and accessories



	Fixed	Drawout
Escutcheon	48601	48603
Transparent cover IP 54		48604
Escutcheon blanking plate	48605	48605

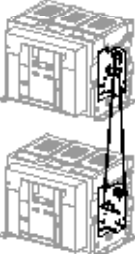
Escutcheon

Cover

Blanking plate

Mechanical interlocking for source changeover

Interlocking of 2 devices using connecting rods



Complete assembly with 2 adaptation fixtures + rods

2 Masterpact NW fixed devices	48612
2 Masterpact NW drawout devices	48612

Can be used with 1 NW fixed + 1 NW drawout.

Interlocking of 2 devices using cables (*)

Choose 2 adaptation sets (1 for each device + 1 set of cables)

1 adaptation fixture for Masterpact NW fixed devices	47926
1 adaptation fixture for Masterpact NW drawout devices	47926
1 set of 2 cables	33209

(*) Can be used with any combination of NT or NW, fixed or drawout devices.

Interlocking of 3 devices using cables

Choose 3 adaptation (including 3 adaptation fixtures + cables)

3 sources, only 1 device closed, fixed or drawout devices	48610
2 sources + 1 coupling, fixed or drawout devices	48609
2 normal + 1 replacement source, fixed or drawout devices	48608

Cable-type door interlock

1 complete assembly for Masterpact NW fixed or drawout device	48614
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(1) Discount code is 10

Accessories for NW08 to NW63 fixed and drawout circuit breakers (cont.)

Accessories for Micrologic control units

External sensors

E46671		External sensor for earth-fault protection (TCE)		
		Sensor rating	400/2000 A (for NW08 - NW20)	34035
			1000/4000 A (for NW25 - NW40)	34036
			4000/6300 A (for NW40b, NW50, NW63)	48182
E46672		Rectangular sensor for earth-leakage protection		
		470 mm x 160 mm	IN max. 4000 A	33574
E46671		Source ground return (SGR) earth fault protection		
		External sensor (SGR)		33579
		MDGF summing module		48891
E46890		Voltage measurement input (for breakers supplied via top terminals)		
		Voltage measurement	Fixed	47506
		input	Drawout	48533

Long-time rating plug (limits setting range for higher accuracy)

E46674		Standard	0.4 at 1 x Ir	33542
		Low-setting option	0.4 at 0.8 x Ir	33543
		High-setting option	0.8 at 1 x Ir	33544
		Without long-time protection off		33545

External power supply module

E47787		24-30 V DC		54440
		48-60 V DC		54441
		100-125 V DC		54442
		110-130 V AC		54443
		200-240 V AC		54444
		380-415 V AC		54445

Battery module

1 24 V battery	54446
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Test equipment

Mini test kit

E59921		33594
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Portable test kit

E59554		33595
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(1) Discount code 10

NW switch-disconnector

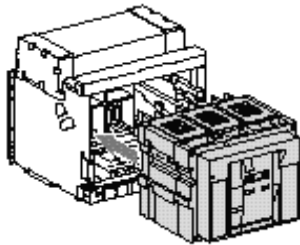
A Masterpact NW switch-disconnector consists of:

- the basic switch-disconnector
- horizontal connections for both top and bottom (NW63 has vertical connection only)
- 4 auxiliary contacts (4 OF)

Additional equipped for drawout device

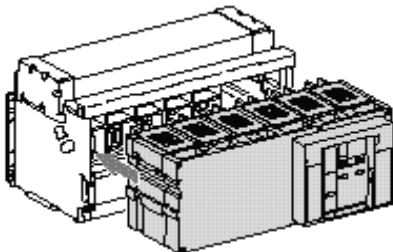
- chassis with safety shutter
- arc chute cover
- door frame
- disconnected position locking (padlocks excluded)

E46683



Basic switch-disconnector < 4000 A

E46684



Basic switch-disconnector > 4000 A

A communication option and various auxiliaries and accessories may also be added.

Auxiliaries and accessories:

- for fixed devices: see page A2
 - for drawout devices: see page A4
 - for fixed or drawout devices: see page A7
- Source changeover assembly: see page C5

	In (A at 40°C)	Icm (kA @ 220/690V)	Icw (1sec)	Icw (3sec)	Fixed		Drawout		
					3 Pole	4 Pole	3 Pole	4 Pole	
Type NA									
NW08	800	88	42	-					
NW10	1000	88	42	-					
NW12	1250	88	42	-					
NW16	1600	88	42	-					
Type HA									
NW08	800	105	50	36					
NW10	1000	105	50	36					
NW12	1250	105	50	36					
NW16	1600	105	50	36					
NW20	2000	105	50	36					
NW25	2500	121	55	55					
NW32	3200	121	55	55					
NW40	4000	121	55	55					
NW40b	4000	187	85	85					
NW50	5000	187	85	85					
NW63	6300	187	85	85					
Type HF									
NW08	800	187	85	50					
NW10	1000	187	85	50					
NW12	1250	187	85	50					
NW16	1600	187	85	50					
NW20	2000	187	85	75					
NW25	2500	187	85	75					
NW32	3200	187	85	75					
NW40	4000	187	85	75					



Name of customer: _____
 Address for delivery: _____
 Requested delivery date: _____
 Customer order no.: _____

To indicate your choices, check the applicable square boxes

and enter the appropriate information in the rectangles

Circuit breaker or switch-disconnector		Quantity	
Masterpact type	NT <input type="checkbox"/>	NW	<input type="text"/>
Rating	A		<input type="text"/>
Sensor rating	A		<input type="text"/>
Circuit breaker	N1, H1, H2, H3, L1		<input type="text"/>
Special circuit breaker	H2 anticorrosion, H10 (NW)		<input type="text"/>
Switch-disconnector	NA, HA, HF, ES, (HA10 NW)		<input type="text"/>
Number of poles	3 or 4		<input type="text"/>

Option: neutral on right side

Type of equipment

Fixed	<input type="checkbox"/>
Drawout with chassis	<input type="checkbox"/>
Drawout without chassis (moving part only)	<input type="checkbox"/>
Chassis alone	<input type="checkbox"/>

Earthing switch kit for chassis

Micrologic control unit

A - ammeter	2.0	<input type="checkbox"/>	5.0	<input type="checkbox"/>	6.0	<input type="checkbox"/>	7.0	<input type="checkbox"/>
P - power meter			5.0	<input type="checkbox"/>	6.0	<input type="checkbox"/>	7.0	<input type="checkbox"/>
H - harmonic meter			5.0	<input type="checkbox"/>	6.0	<input type="checkbox"/>	7.0	<input type="checkbox"/>

LR - long-time rating plug

Standard 0.4 to 1 Ir	<input type="checkbox"/>
Low setting 0.4 to 0.8 Ir	<input type="checkbox"/>
High setting 0.8 to 1 Ir	<input type="checkbox"/>
LR OFF	<input type="checkbox"/>

AD - external power-supply module V

BAT - battery module

TCE - external sensor (CT) for neutral and residual earth-fault protection

TCE - external sensor (CT) for oversized neutral (3 P - Micrologic P / H) and residual earth-fault protection

TCW - external sensor for SGR protection

Rectangular sensor

NT (280 x 115 mm)	<input type="checkbox"/>
NW (470 x 160 mm)	<input type="checkbox"/>

PTE - external voltage measurement input

Communication

COM module	JBus/ModBus	Device	<input type="checkbox"/>	Chassis	<input type="checkbox"/>
	Digipact	Device	<input type="checkbox"/>	Chassis	<input type="checkbox"/>
Eco COM module	Modbus		<input type="checkbox"/>		<input type="checkbox"/>

(for XF or MX communicating release)

Connection

Horizontal	Top	<input type="checkbox"/>	Bottom	<input type="checkbox"/>
Vertical	Top	<input type="checkbox"/>	Bottom	<input type="checkbox"/>
Front	Top	<input type="checkbox"/>	Bottom	<input type="checkbox"/>

Vertical-connection adapters NT - FC fixed, draw.

Cable-lug adapters NT - FC fixed, draw.

Arc chute screen NT - FC fixed

Interphase barriers NT, NW fixed, draw.

Spreaders NT fixed, drawout

Disconnectable front connection adapter NW fixed

Lugs for 240⁰ or 300⁰ cables NT fixed, draw.

Micrologic control unit functions:

2.0 : basic protection (long time + inst.)

5.0 : selective protection (long time + short time + inst.)

6.0 : selective + earth-fault protection (long time + short time + inst. + earth-fault)

7.0 : selective + earth-leakage protection (long time + short time + inst. + earth-leakage)

Indication contacts

OF - ON/OFF indication contacts

Standard	4 OF 6 A-240 V AC (10 A-240 V AC and low-level for NW)		
Alternate	1 OF low-level for NT	Max. 4	qty <input type="text"/>
Additional	1 block of 4 OF for NW	Max. 2	qty <input type="text"/>

EF - combined "connected/closed" contacts

	1 EF 6 A-240 V AC for NW	Max. 8	qty <input type="text"/>
	1 EF low-level for NW	Max. 8	qty <input type="text"/>

SDE - "fault-trip" indication contact

Standard	1 SDE 6 A-240 V AC		
Additional	1 SDE 6 A-240 V AC	<input type="checkbox"/>	1 SDE Low level <input type="checkbox"/>

Programmable contacts

	2 M2C contacts	<input type="checkbox"/>	6 M6C contacts <input type="checkbox"/>
Carriage switches	Low level	<input type="checkbox"/>	6 A-240 V AC <input type="checkbox"/>
CE - "connected" position	Max. 3 for NW		qty <input type="text"/>
CD - "disconnected" position	Max. 3 for NW, 2 for NT		qty <input type="text"/>
CT - "test" position	Max. 3 for NW, 1 for NT		qty <input type="text"/>

AC - NW actuator for 6 CE - 3 CD - 0 CT additional carriage switches

Remote operation

Remote ON/OFF

MCH - gear motor		V	<input type="checkbox"/>
XF - closing voltage release		V	<input type="checkbox"/>
MX - opening voltage release		V	<input type="checkbox"/>
PF - "ready to close" contact	Low level		<input type="checkbox"/>
	6 A-240 V AC		<input type="checkbox"/>
BPFE - electrical closing pushbutton			<input type="checkbox"/>
Res - electrical reset option		V	<input type="checkbox"/>
RAR - automatic reset option			<input type="checkbox"/>

Remote tripping

MN - undervoltage release		V	<input type="checkbox"/>
R - delay unit (non-adjustable)			<input type="checkbox"/>
Rr - adjustable delay unit			<input type="checkbox"/>
2eme MX - shunt release		V	<input type="checkbox"/>

Locking

VBP - ON/OFF pushbutton locking (by transparent cover + padlocks)

OFF position locking:

VCPO - by padlocks

VSP0 - by keylocks

Keylock kit (w/o keylock)	Profalux	<input type="checkbox"/>	Ronis	<input type="checkbox"/>
1 keylock	Profalux	<input type="checkbox"/>	Ronis	<input type="checkbox"/>
2 identical keylocks, 1 key	Profalux	<input type="checkbox"/>	Ronis	<input type="checkbox"/>
2 keylocks, different keys (NW)	Profalux	<input type="checkbox"/>	Ronis	<input type="checkbox"/>

Chassis locking in "disconnected" position:

VSPD - by keylocks

Keylock kit (w/o keylock)	Profalux	<input type="checkbox"/>	Ronis	<input type="checkbox"/>
	Kirk	<input type="checkbox"/>	Castell	<input type="checkbox"/>
1 keylock	Profalux	<input type="checkbox"/>	Ronis	<input type="checkbox"/>
2 identical keylocks, 1 key	Profalux	<input type="checkbox"/>	Ronis	<input type="checkbox"/>
2 keylocks, different keys	Profalux	<input type="checkbox"/>	Ronis	<input type="checkbox"/>
Optional connected/disconnected/test position lock				<input type="checkbox"/>

VPEC - door interlock

	On right-hand side of chassis	<input type="checkbox"/>
	On left-hand side of chassis	<input type="checkbox"/>

VPOC - racking interlock

IPA - cable-type door interlock

VDC - mismatch protection

VIVC - shutter position indication and locking for NW

IBPO - racking interlock between crank and OFF pushbutton for NW

DAE - automatic spring discharge before breaker removal for NW

Accessories

VO - safety shutters on chassis for NT and NW		<input checked="" type="checkbox"/>
CDM - mechanical operation counter NT, NW		<input type="checkbox"/>
CB - auxiliary terminal shield for chassis NT, NW		<input type="checkbox"/>
CC - arc chute cover for fixed NT		<input type="checkbox"/>
CDP - escutcheon NT, NW		<input type="checkbox"/>
CP - transparent cover for escutcheon NT, NW		<input type="checkbox"/>
OP - blanking plate for escutcheon NT, NW		<input type="checkbox"/>
Brackets for mounting	NW fixed	On backplates <input type="checkbox"/>
Test kits	Mini test kit	Portable test kit <input type="checkbox"/>

All adaptation Air Circuit Breakers are using discount code of 12

Moulded case circuit breakers

Compact NSX100 - 630 circuit breakers

NSX100/160/250B: complete fixed/FC device	B1
NSX100/160/250F: complete fixed/FC device	B3
NSX100/160/250N: complete fixed/FC device	B6
NSX100/160/250H: complete fixed/FC device	B8
NSX100/160/250S: complete fixed/FC device	B10
NSX100/160/250L: complete fixed/FC device	B12
NSX100/160/250NA: complete fixed/FC device	B14
NSX100/160/250: trip unit accessories	B15
NSX100/160/250: Installation and connection and other accessories	B16
NSX400/630F: complete fixed/FC device	B25
NSX400/630N: complete fixed/FC device	B26
NSX400/630H: complete fixed/FC device	B27
NSX400/630S: complete fixed/FC device	B28
NSX400/630L: complete fixed/FC device	B29
NSX400/630NA: complete fixed/FC device	B30
NSX400/630: trip unit accessories	B31
NSX400/630: Installation and connection and other accessories	B32
NSX100/630: Monitoring and control, test tools	B41
NSX100/160/250 F/N/M/S: complete fixed/1P & 2P AC/DC	B42
NSX100/160/250 F/N/M/S: complete fixed/3P DC	B42
NSX400/630 F/S: complete fixed/3p & 4P DC with MP trip unit	B43

Compact NS630b - 3200 circuit breakers

NS630b - 1600: fixed version, manually or electrically operated	B44
NS630b - 1600: withdrawable version, manually or electrically operated	B48
NS630b - 1600: accessories for fixed version only	B52
NS630b - 1600: accessories for withdrawable version only	B53
NS630b - 1600: accessories for fixed and withdrawable version	B55
NS1600b - 3200: fixed version, manually operated	B57
NS1600b - 3200: accessories	B59

EasyPact EZC circuit breakers

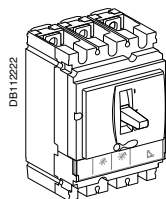
EZC100N/H 1P/2P	B60
EZC100N/H/B/F 3P/4P	B61
EZC100 accessories	B62
EZC250N/H/F 2P/3P/4P	B64
EZCV250N/H 3P/4P	B65
EZC 250 accessories	B66
EZC400N/H 3P/4P	B68
EZC400 accessories	B69
EasyPact Busbar	B71

EasyPact CVS circuit breakers

CVS100/160/250B	B72
CVS100/160/250F/MA/NA	B73
CVS400/630	B74

Compact NSX100/160/250B

With thermal-magnetic trip unit TM-D



DB112222

Compact NSX100B (25 kA at 380/415 V)

Rating	3P 3d	4P 3d
TM16D	LV429557	LV429567
TM25D	LV429556	LV429566
TM32D	LV429555	LV429565
TM40D	LV429554	LV429564
TM50D	LV429553	LV429563
TM63D	LV429552	LV429562
TM80D	LV429551	LV429561
TM100D	LV429550	LV429560

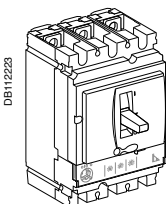
Compact NSX160B (25 kA at 380/415 V)

Rating	3P 3d	4P 3d
TM80D	LV430313	LV430323
TM100D	LV430312	LV430322
TM125D	LV430311	LV430321
TM160D	LV430310	LV430320

Compact NSX250B (25 kA at 380/415 V)

Rating	3P 3d	4P 3d
TM100D	LV431114	LV431124
TM125D	LV431113	LV431123
TM160D	LV431112	LV431122
TM200D	LV431111	LV431121
TM250D	LV431110	LV431120

With electronic trip unit Micrologic 2.2 (LS₀I protection)



DB112223

Compact NSX100B (25 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40	LV429777	LV429787
100	LV429775	LV429785

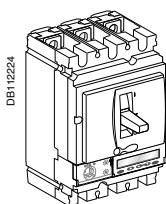
Compact NSX160B (25 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV430746	LV430751
160	LV430745	LV430750

Compact NSX250B (25 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV431142	LV431152
160	LV431141	LV431151
250	LV431140	LV431150

With electronic trip unit Micrologic 5.2 A (LSI protection, ammeter)



DB112224

Compact NSX100B (25 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
40	LV429872	LV429877
100	LV429870	LV429875

Compact NSX160B (25 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
100	LV430871	LV430876
160	LV430870	LV430875

Compact NSX250B (25 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
100	LV431147	LV431157
160	LV431146	LV431156
250	LV431145	LV431155

Price adder for advanced trip unit (add following amount to circuit breakers with TM trip units)

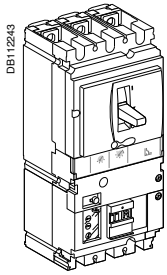
Trip unit	3 pole	4 pole
Micrologic 5.2 E		
Micrologic 6.2 A		
Micrologic 6.2 E		

NSX100/160/250B:

complete fixed/FC device
Vigicompact NSX100/160/250B (25kA 380/415V)

Vigicompact NSX100/160/250B

With thermal-magnetic trip unit TM-D



Vigicompact NSX100B (25 kA at 380/415 V) equipped with MH Vigi module (200 to 440 V)

Rating	3P 3d	4P 3d
TM16D	LV429667	LV429707
TM25D	LV429666	LV429706
TM32D	LV429665	LV429705
TM40D	LV429664	LV429704
TM50D	LV429663	LV429703
TM63D	LV429662	LV429702
TM80D	LV429661	LV429701
TM100D	LV429660	LV429700

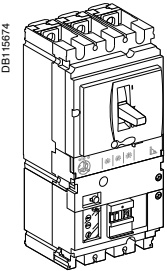
Vigicompact NSX160B (25 kA at 380/415 V) equipped with MH Vigi module (200 to 440 V)

Rating	3P 3d	4P 3d
TM80D	LV430343	LV430353
TM100D	LV430342	LV430352
TM125D	LV430341	LV430351
TM160D	LV430340	LV430350

Vigicompact NSX250B (25 kA at 380/415 V) equipped with MH Vigi module (200 to 440 V)

Rating	3P 3d	4P 3d
TM100D	LV431904	LV431914
TM125D	LV431903	LV431913
TM160D	LV431902	LV431912
TM200D	LV431901	LV431911
TM250D	LV431900	LV431910

With electronic trip unit Micrologic 2.2 (LS₀I protection)



Vigicompact NSX100B (25 kA at 380/415 V) equipped with MH Vigi module (200 to 440 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40	LV429975	LV429985
100	LV429974	LV429984

Vigicompact NSX160B (25 kA at 380/415 V) equipped with MH Vigi module (200 to 440 V)

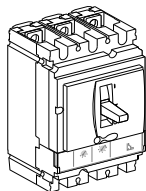
Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV430961	LV430996
160	LV430960	LV430995

Vigicompact NSX250B (25 kA at 380/415 V) equipped with MH Vigi module (200 to 440 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV431977	LV431987
160	LV431976	LV431986
250	LV431975	LV431985

Compact NSX100/160/250F

With thermal-magnetic trip unit TM-D



Compact NSX100F (36 kA at 380/415 V)

Rating	3P 3d	4P 3d
TM16D	LV429637	LV429647
TM25D	LV429636	LV429646
TM32D	LV429635	LV429645
TM40D	LV429634	LV429644
TM50D	LV429633	LV429643
TM63D	LV429632	LV429642
TM80D	LV429631	LV429641
TM100D	LV429630	LV429640

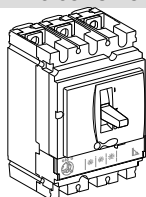
Compact NSX160F (36 kA at 380/415 V)

Rating	3P 3d	4P 3d
TM80D	LV430633	LV430643
TM100D	LV430632	LV430642
TM125D	LV430631	LV430641
TM160D	LV430630	LV430640

Compact NSX250F (36 kA at 380/415 V)

Rating	3P 3d	4P 3d
TM100D	LV431634	LV431644
TM125D	LV431633	LV431643
TM160D	LV431632	LV431642
TM200D	LV431631	LV431641
TM250D	LV431630	LV431640

With electronic trip unit Micrologic 2.2 (LS₀I protection)



Compact NSX100F (36 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40	LV429772	LV429782
100	LV429770	LV429780

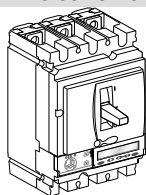
Compact NSX160F (36 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV430771	LV430781
160	LV430770	LV430780

Compact NSX250F (36 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV431772	LV431782
160	LV431771	LV431781
250	LV431770	LV431780

With electronic trip unit Micrologic 5.2 A (LSI protection, ammeter)



Compact NSX100F (36 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
40	LV429882	LV429887
100	LV429880	LV429885

Compact NSX160F (36 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
100	LV430881	LV430886
160	LV430880	LV430885

Compact NSX250F (36 kA at 380/415 V)

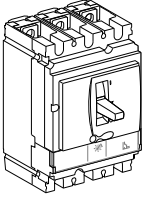
Rating	3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
100	LV431862	LV431867
160	LV431861	LV431866
250	LV431860	LV431865

Price adder for advanced trip unit (add following amount to circuit breakers with TM trip units)

Trip unit	3 pole	4 pole
Micrologic 5.2 E		
Micrologic 6.2 A		
Micrologic 6.2 E		

Compact NSX100/160/250F**With magnetic trip unit MA**

DB115664

**Compact NSX100F (36 kA at 380/415 V)**

Rating	3P 3d
MA2.5	LV429745
MA6.3	LV429744
MA12.5	LV429743
MA25	LV429742
MA50	LV429741
MA100	LV429740

Compact NSX160F (36 kA at 380/415 V)

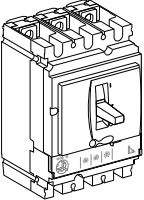
Rating	3P 3d
MA100	LV430831
MA150	LV430830

Compact NSX250F (36 kA at 380/415 V)

Rating	3P 3d
MA150	LV431749
MA220	LV431748

With electronic trip unit Micrologic 2.2-M (LS₀I motor protection)

DB119223

**Compact NSX100F (36 kA at 380/415 V)**

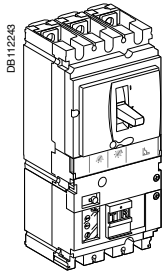
Rating	3P 3d
25	LV429828
50	LV429827
100	LV429825

Compact NSX160F (36 kA at 380/415 V)

Rating	3P 3d
100	LV430986
150	LV430985

Compact NSX250F (36 kA at 380/415 V)

Rating	3P 3d
150	LV431161
220	LV431160

Vigicompact NSX100/160/250F**With thermal-magnetic trip unit TM-D****Vigicompact NSX100F (36 kA at 380/415 V) equipped with MH Vigi module (200 to 440 V)**

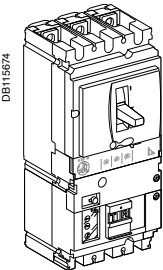
Rating	3P 3d	4P 3d
TM16D	LV429937	LV429947
TM25D	LV429936	LV429946
TM32D	LV429935	LV429945
TM40D	LV429934	LV429944
TM50D	LV429933	LV429943
TM63D	LV429932	LV429942
TM80D	LV429931	LV429941
TM100D	LV429930	LV429940

Vigicompact NSX160F (36 kA at 380/415 V) equipped with MH Vigi module (200 to 440 V)

Rating	3P 3d	4P 3d
TM80D	LV430933	LV430943
TM100D	LV430932	LV430942
TM125D	LV430931	LV430941
TM160D	LV430930	LV430940

Vigicompact NSX250F (36 kA at 380/415 V) equipped with MH Vigi module (200 to 440 V)

Rating	3P 3d	4P 3d
TM100D	LV431934	LV431944
TM125D	LV431933	LV431943
TM160D	LV431932	LV431942
TM200D	LV431931	LV431941
TM250D	LV431930	LV431940

With electronic trip unit Micrologic 2.2 (LS₀I protection)**Vigicompact NSX100F (36 kA at 380/415 V) equipped with MH Vigi module (200 to 440 V)**

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40	LV429972	LV429982
100	LV429970	LV429980

Vigicompact NSX160F (36 kA at 380/415 V) equipped with MH Vigi module (200 to 440 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV430971	LV430981
160	LV430970	LV430980

Vigicompact NSX250F (36 kA at 380/415 V) equipped with MH Vigi module (200 to 440 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV431972	LV431982
160	LV431971	LV431981
250	LV431970	LV431980

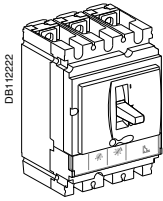
NSX100/160/250N:

complete fixed/FC device

Compact NSX100/160/250N (50 kA 380/415 V)

Compact NSX100/160/250N

With thermal-magnetic trip unit TM-D



Compact NSX100N (50 kA at 380/415 V)

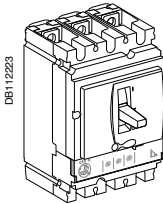
Rating	3P 3d	4P 3d
TM16D	LV429847	LV429857
TM25D	LV429846	LV429856
TM32D	LV429845	LV429855
TM40D	LV429844	LV429854
TM50D	LV429843	LV429853
TM63D	LV429842	LV429852
TM80D	LV429841	LV429851
TM100D	LV429840	LV429850

Compact NSX160N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d
TM80D	LV430843	LV430853
TM100D	LV430842	LV430852
TM125D	LV430841	LV430851
TM160D	LV430840	LV430850

Compact NSX250N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d
TM100D	LV431834	LV431844
TM125D	LV431833	LV431843
TM160D	LV431832	LV431842
TM200D	LV431831	LV431841
TM250D	LV431830	LV431840

With electronic trip unit Micrologic 2.2 (LS₀I protection)

Compact NSX100N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40	LV429797	LV429807
100	LV429795	LV429805

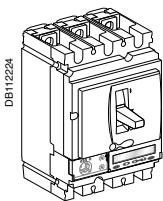
Compact NSX160N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV430776	LV430786
160	LV430775	LV430785

Compact NSX250N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV431872	LV431877
160	LV431871	LV431876
250	LV431870	LV431875

With electronic trip unit Micrologic 5.2 A (LSI protection, ammeter)



Compact NSX100N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
40	LV429892	LV429897
100	LV429890	LV429895

Compact NSX160N (50 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100	LV430891	LV430896
160	LV430890	LV430895

Compact NSX250N (50 kA at 380/415 V)

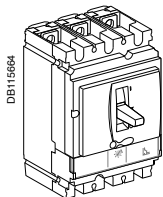
Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100	LV431882	LV431887
160	LV431881	LV431886
250	LV431880	LV431885

Price adder for advanced trip unit (add following amount to circuit breakers with TM trip units)

Trip unit	3 pole	4 pole
Micrologic 5.2 E		
Micrologic 6.2 A		
Micrologic 6.2 E		

Compact NSX100/160/250N

With magnetic trip unit MA



Compact NSX100N (50 kA at 380/415 V)

Rating	3P 3d
MA2.5	LV429755
MA6.3	LV429754
MA12.5	LV429753
MA25	LV429752
MA50	LV429751
MA100	LV429750

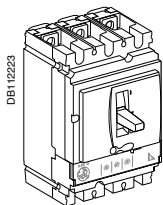
Compact NSX160N (50 kA at 380/415 V)

Rating	3P 3d
MA100	LV430833
MA150	LV430832

Compact NSX250N (50 kA at 380/415 V)

Rating	3P 3d
MA150	LV431753
MA220	LV431752

With electronic trip unit Micrologic 2.2-M (LS₀I motor protection)



Compact NSX100N (50 kA at 380/415 V)

Rating	3P 3d
25	LV429833
50	LV429832
100	LV429830

Compact NSX160N (50 kA at 380/415 V)

Rating	3P 3d
100	LV430989
150	LV430988

Compact NSX250N (50 kA at 380/415 V)

Rating	3P 3d
150	LV431166
220	LV431165

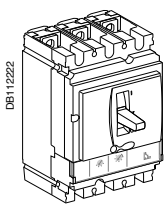


NSX100/160/250H: complete fixed/FC device

Compact NSX100/160/250H (70 kA 380/415 V)

Compact NSX100/160/250H

With thermal-magnetic trip unit TM-D



Compact NSX100H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d
TM16D	LV429677	LV429687
TM25D	LV429676	LV429686
TM32D	LV429675	LV429685
TM40D	LV429674	LV429684
TM50D	LV429673	LV429683
TM63D	LV429672	LV429682
TM80D	LV429671	LV429681
TM100D	LV429670	LV429680

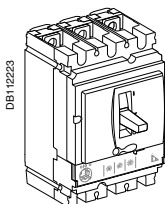
Compact NSX160H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d
TM80D	LV430673	LV430683
TM100D	LV430672	LV430682
TM125D	LV430671	LV430681
TM160D	LV430670	LV430680

Compact NSX250H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d
TM100D	LV431674	LV431684
TM125D	LV431673	LV431683
TM160D	LV431672	LV431682
TM200D	LV431671	LV431681
TM250D	LV431670	LV431680

With electronic trip unit Micrologic 2.2 (LS₀₁ protection)



Compact NSX100H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
40	LV429792	LV429802
100	LV429790	LV429800

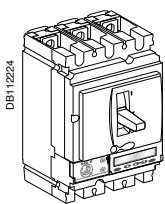
Compact NSX160H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV430791	LV430801
160	LV430790	LV430800

Compact NSX250H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2
100	LV431792	LV431802
160	LV431791	LV431801
250	LV431790	LV431800

With electronic trip unit Micrologic 5.2 A (LSI protection, ammeter)



Compact NSX100H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
40	LV429794	LV429804
100	LV429793	LV429803

Compact NSX160H (70 kA at 380/415 V)

Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100	LV430795	LV430805
160	LV430794	LV430804

Compact NSX250H (70 kA at 380/415 V)

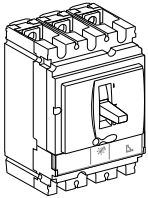
Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100	LV431797	LV431807
160	LV431796	LV431806
250	LV431795	LV431805

Price adder for advanced trip unit (add following amount to circuit breakers with TM trip units)

Trip unit	3 pole	4 pole
Micrologic 5.2 E		
Micrologic 6.2 A		
Micrologic 6.2 E		

Compact NSX100/160/250H**With magnetic trip unit MA**

DB115864

**Compact NSX100H (70 kA at 380/415 V)**

Rating	3P 3d
MA2.5	LV429765
MA6.3	LV429764
MA12.5	LV429763
MA25	LV429762
MA50	LV429761
MA100	LV429760

Compact NSX160H (70 kA at 380/415 V)

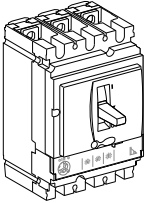
Rating	3P 3d
MA100	LV430835
MA150	LV430834

Compact NSX250H (70 kA at 380/415 V)

Rating	3P 3d
MA150	LV431757
MA220	LV431756

With electronic trip unit Micrologic 2.2-M (LS₀I motor protection)

DB112228

**Compact NSX100H (70 kA at 380/415 V)**

Rating	3P 3d
25	LV429838
50	LV429837
100	LV429835

Compact NSX160H (70 kA at 380/415 V)

Rating	3P 3d
100	LV430992
150	LV430991

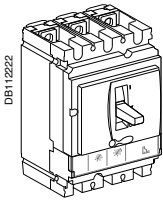
Compact NSX250H (70 kA at 380/415 V)

Rating	3P 3d
150	LV431171
220	LV431170

B

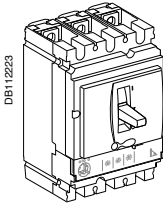
Compact NSX100/160/250S

With thermal-magnetic trip unit TM-D



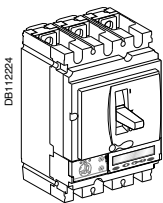
Compact NSX100S (100 kA at 380/415 V)		
Rating	3P 3d	4P 3d
TM16D		
TM25D		
TM32D		
TM40D		
TM50D		
TM63D		
TM80D		
TM100D		
Compact NSX160S (100 kA at 380/415 V)		
Rating	3P 3d	4P 3d
TM80D		
TM100D		
TM125D		
TM160D		
Compact NSX250S (100 kA at 380/415 V)		
Rating	3P 3d	4P 3d
TM125D		
TM160D		
TM200D		
TM250D		

With electronic trip unit Micrologic 2.2 (LS₀I protection)



Compact NSX100S (100 kA at 380/415 V)		
Rating	3P 3d	4P 3d, 4d, 3d + N/2
40		
100		
Compact NSX160S (100 kA at 380/415 V)		
Rating	3P 3d	4P 3d, 4d, 3d + N/2
100		
160		
Compact NSX250S (100 kA at 380/415 V)		
Rating	3P 3d	4P 3d, 4d, 3d + N/2
100		
160		
250		

With electronic trip unit Micrologic 5.2 A (LSI protection, ammeter)



Compact NSX100S (100 kA at 380/415 V)		
Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
40		
100		
Compact NSX160S (100 kA at 380/415 V)		
Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100		
160		
Compact NSX250S (100 kA at 380/415 V)		
Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100		
160		
250		

Price adder for advanced trip unit (add following amount to circuit breakers with TM trip units)

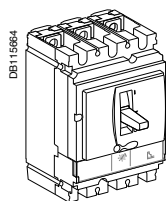
Trip unit	3 pole	4 pole
Micrologic 5.2 E		
Micrologic 6.2 A		
Micrologic 6.2 E		

NSX100/160/250S:

complete fixed/FC device (cont.)
Compact NSX100/160/250S(100kA 380/415V)(cont.)

Compact NSX100/160/250S

With magnetic trip unit MA



Compact NSX100S (100 kA at 380/415 V)

Rating **3P 3d**

MA2.5

MA6.3

MA12.5

MA25

MA50

MA100

Compact NSX160S (100 kA at 380/415 V)

Rating **3P 3d**

MA100

MA150

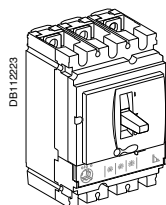
Compact NSX250S (100 kA at 380/415 V)

Rating **3P 3d**

MA150

MA220

With electronic trip unit Micrologic 2.2-M (LS₀I motor protection)



Compact NSX100S (100 kA at 380/415 V)

Rating **3P 3d**

25

50

100

Compact NSX160S (100 kA at 380/415 V)

Rating **3P 3d**

100

150

Compact NSX250S (100 kA at 380/415 V)

Rating **3P 3d**

150

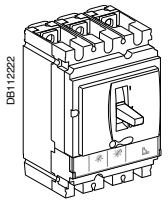
220



B

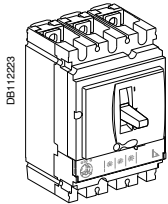
Compact NSX100/160/250L

With thermal-magnetic trip unit TM-D



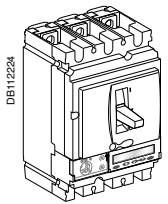
Compact NSX100L (150 kA at 380/415 V)		
Rating	3P 3d	4P 3d
TM16D		
TM25D		
TM32D		
TM40D		
TM50D		
TM63D		
TM80D		
TM100D		
Compact NSX160L (150 kA at 380/415 V)		
Rating	3P 3d	4P 3d
TM80D		
TM100D		
TM125D		
TM160D		
Compact NSX250L (150 kA at 380/415 V)		
Rating	3P 3d	4P 3d
TM125D		
TM160D		
TM200D		
TM250D		

With electronic trip unit Micrologic 2.2 (LS₀I protection)



Compact NSX100L (150 kA at 380/415 V)		
Rating	3P 3d	4P 3d, 4d, 3d + N/2
40		
100		
Compact NSX160L (150 kA at 380/415 V)		
Rating	3P 3d	4P 3d, 4d, 3d + N/2
100		
160		
Compact NSX250L (150 kA at 380/415 V)		
Rating	3P 3d	4P 3d, 4d, 3d + N/2
100		
160		
250		

With electronic trip unit Micrologic 5.2 A (LSI protection, ammeter)



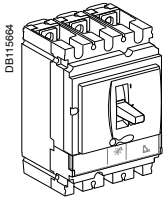
Compact NSX100L (150 kA at 380/415 V)		
Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
40		
100		
Compact NSX160L (150 kA at 380/415 V)		
Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100		
160		
Compact NSX250L (150 kA at 380/415 V)		
Rating	3P 3d	4P 3d, 4d, 3d + N/2, OSN
100		
160		
250		

Price adder for advanced trip unit (add following amount to circuit breakers with TM trip units)

Trip unit	3 pole	4 pole
Micrologic 5.2 E		
Micrologic 6.2 A		
Micrologic 6.2 E		

Compact NSX100/160/250L

With magnetic trip unit MA



Compact NSX100L (150 kA at 380/415 V)

Rating **3P 3d**

MA2.5

MA6.3

MA12.5

MA25

MA50

MA100

Compact NSX160L (150 kA at 380/415 V)

Rating **3P 3d**

MA100

MA150

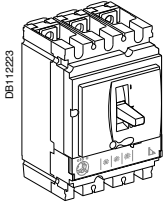
Compact NSX250L (150 kA at 380/415 V)

Rating **3P 3d**

MA150

MA220

With electronic trip unit Micrologic 2.2-M (LS₀I motor protection)



Compact NSX100L (150 kA at 380/415 V)

Rating **3P 3d**

25

50

100

Compact NSX160L (150 kA at 380/415 V)

Rating **3P 3d**

100

150

Compact NSX250L (150 kA at 380/415 V)

Rating **3P 3d**

150

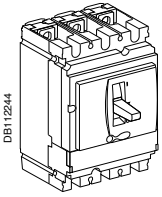
220

NSX100/160/250NA: complete fixed/FC device

Compact NSX100/160/250NA

Compact NSX100/160/250NA switch-disconnector

With NA switch-disconnector unit



Compact NSX100NA

Rating	3P	4P
100	LV429629	LV429639

Compact NSX160NA

Rating	3P	4P
160	LV430629	LV430639

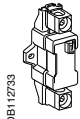
Compact NSX250NA

Rating	3P	4P
250	LV431629	LV431639

B

Trip unit accessories

External neutral CT for 3 pole breaker with Micrologic 5/6



DB112733

25-100 A	LV429521
150-250 A	LV430563

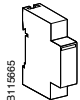
24 V DC wiring accessory for Micrologic 5/6



DB112730

24 V DC power supply connector	LV434210
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ZSI wiring accessory for NS630b NW with NSX



DB115665

ZSI module	LV434212
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Vigi module accessories

Connection for a 4P Vigi module on a 3P breaker	LV429214
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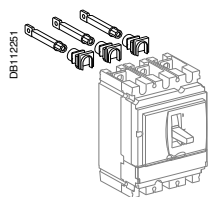
+ Vigi module or insulation monitoring module



Description	3P	4P
ME type for NSX 100/ 160 (200 to 440 V)	LV429212	LV429213
MH type for NSX 100/ 160 (200 to 440 V)	LV429210	LV429211
MH type for NSX250 (200 to 440 V)	LV431535	LV431536
Connection for a 4P Vigi on a 3P breaker		LV429214

B

Fixed/RC device = fixed/FC device + rear connection kit

**Short RC kit**

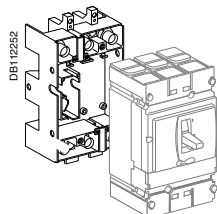
Kit 3P	3 x	LV429235
Kit 4P	4 x	LV429235

Mixed RC kit

Kit 3P	Short RCs	2 x	LV429235
	Long RCs	1 x	LV429236
Kit 4P	Short RCs	2 x	LV429235
	Long RCs	2 x	LV429236

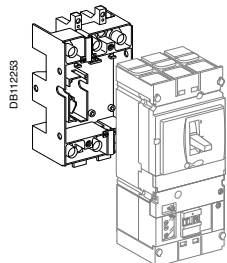
Plug-in version = fixed/FC device + plug-in kit

Kit for Compact



	2P (3P)	3P	4P
Plug-in kit	LV429288	LV429289	LV429290
Comprising:			
Base	= 1 x LV429265	= 1 x LV429266	= 1 x LV429267
Power connections	+ 2 x LV429268	+ 3 x LV429268	+ 4 x LV429268
Short terminal shields	+ 2 x LV429515	+ 2 x LV429515	+ 2 x LV429516
Safety trip interlock	+ 1 x LV429270	+ 1 x LV429270	+ 1 x LV429270

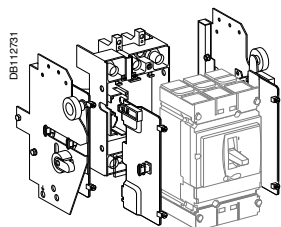
Kit for Vigicompact



	3P	4P
Vigicompact plug-in kit	LV429291	LV429292
Comprising:		
Base	= 1 x LV429266	= 1 x LV429267
Power connections	+ 3 x LV429269	+ 4 x LV429269
Short terminal shields	+ 2 x LV429515	+ 2 x LV429516
Safety trip interlock	+ 1 x LV429270	+ 1 x LV429270

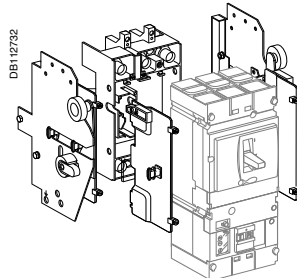
Withdrawable version = fixed/FC device + withdrawable kit

Kit for Compact



	2P (3P)	3P	4P
Withdrawable kit for Compact comprising:			
Plug-in kit	1 x LV429288	1 x LV429289	1 x LV429290
+	+	+	+
Chassis side plates for base +	1 x LV429282	1 x LV429282	1 x LV429282
+	+	+	+
Chassis side plates for breaker	1 x LV429283	1 x LV429283	1 x LV429283

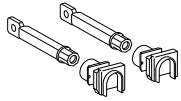
Kit for Vigicompact



	3P	4P
Withdrawable kit for Vigicompact		
Comprising:		
Plug-in kit	1 x LV429291	1 x LV429292
+	+	+
Chassis side plates for base	1 x LV429282	1 x LV429282
+	+	+
Chassis side plates for breaker	1 x LV429283	1 x LV429283

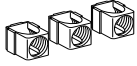
Connection accessories (Cu or Al)

Rear connections

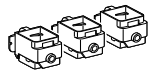


2 short	LV429235
2 long	LV429236

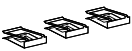
Bare cable connectors



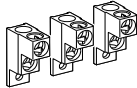
Steel connectors	1 x (1.5 to 95 mm ²) ; ≤ 160 A	Set of 3	LV429242
		Set of 4	LV429243



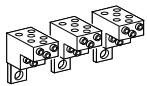
Aluminium connectors	1 x (25 to 95 mm ²) ; ≤ 250 A	Set of 3	LV429227
		Set of 4	LV429228



Aluminium connectors for 2 cables ⁽¹⁾	1 x (120 to 185 mm ²) ; ≤ 250 A	Set of 3	LV429259
		Set of 4	LV429260



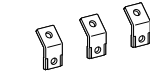
Clips for connectors		Set of 10	LV429241
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Aluminium connectors for 2 cables ⁽¹⁾	2 x (50 to 120 mm ²) ; ≤ 250 A	Set of 3	LV429218
		Set of 4	LV429219



Aluminium connectors ⁽¹⁾ for 6 cables	6 x (1.5 to 35 mm ²) ; ≤ 250 A	Set of 3	LV429248
		Set of 4	LV429249

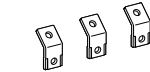


6.35 mm voltage tap for steel or aluminium connectors		Set of 10	LV429348
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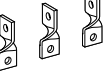
Terminal extensions



45° terminal extension ⁽¹⁾	Set of 3	LV429223
	Set of 4	LV429224



Edgewise terminal extensions ⁽¹⁾	Set of 3	LV429308
	Set of 4	LV429309



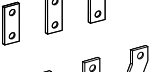
Right-angle terminal extensions ⁽¹⁾	Set of 3	LV429261
	Set of 4	LV429262



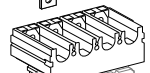
Straight terminal extensions ⁽¹⁾	Set of 3	LV429263
	Set of 4	LV429264



Double-L terminal extensions ⁽¹⁾	Set of 3	LV429221
	Set of 4	LV429222



Spreaders from 35 to 45 mm pitch ⁽¹⁾	3P	LV431563
	4P	LV431564



One-piece spreader from 35 to 45 mm pitch	3P	LV431060
	4P	LV431061

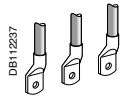


Front alignment base (for one-piece spreader)	3P/4P	LV431064
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⁽¹⁾ Supplied with 2 or 3 interphase barriers.

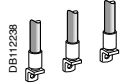
B

Crimp lugs for copper cable (1)



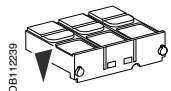
For cable 120 mm ²	Set of 3	LV429252
	Set of 4	LV429256
For cable 150 mm ²	Set of 3	LV429253
	Set of 4	LV429257
For cable 185 mm ²	Set of 3	LV429254
	Set of 4	LV429258

Crimp lugs for aluminium cable (1)

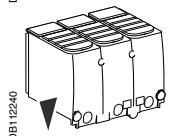


For cable 150 mm ²	Set of 3	LV429504
	Set of 4	LV429505
For cable 185 mm ²	Set of 3	LV429506
	Set of 4	LV429507

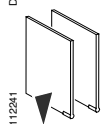
Insulation accessories



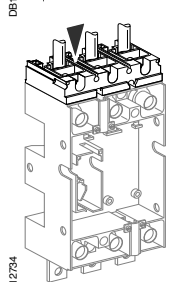
1 short terminal shield for breaker or plug-in base	3P	LV429515
	4P	LV429516



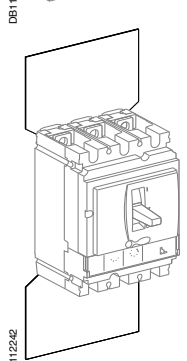
1 long terminal shield for breaker or plug-in base	3P	LV429517
	4P	LV429518



Interphase barriers for breaker or plug-in base	Set of 6	LV429329
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Connection adapter for plug-in base	3P	LV429306
	4P	LV429307



2 insulating screens for breaker (45 mm pitch)	3P	LV429330
	4P	LV429331

(1) Supplied with 2 or 3 interphase barriers.

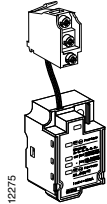
Electrical auxiliaries

Auxiliary contacts (changeover)



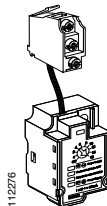
OF or SD or SDE or SDV	29450
OF or SD or SDE or SDV low level	29452
SDE adapter, mandatory for trip unit TM, MA or Micrologic 2	LV429451

SDx output module for Micrologic



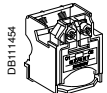
SDx module 24/415 V AC/DC	LV429532
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SDTAM contactor tripping module (early-break thermal fault signal) for Micrologic 2.2-M/6.2 E-M

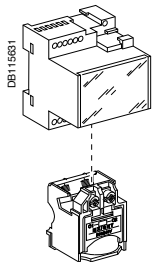


SDTAM 24/415 V AC/DC overload fault indication	LV429424
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Voltage releases



	Voltage	MX (shunt)	MN (undervoltage)
AC	24 V 50/60 Hz	LV429384	LV429404
	48 V 50/60 Hz	LV429385	LV429405
	110-130 V 50/60 Hz	LV429386	LV429406
	220-240 V 50/60 Hz and 208-277 V 60 Hz	LV429387	LV429407
	380-415 V 50 Hz and 440-480 V 60 Hz	LV429388	LV429408
	525 V 50 Hz and 600 V 60 Hz	LV429389	LV429409
DC	12 V	LV429382	LV429402
	24 V	LV429390	LV429410
	30 V	LV429391	LV429411
	48 V	LV429392	LV429412
	60 V		LV429403
	125 V	LV429393	LV429413
	250 V	LV429394	LV429414



MN 48 V 50/60 Hz with fixed time delay			
Composed of:	MN 48 V DC		LV429412
	Delay unit 48 V 50/60 Hz		LV429426
MN 220-240 V 50/60 Hz with fixed time delay			
Composed of:	MN 250 V DC		LV429414
	Delay unit 220-240 V 50/60 Hz		LV429427
MN 48 V DC/AC 50/60 Hz with adjustable time delay			
Composed of:	MN 48 V DC		LV429412
	Delay unit 48 V 50/60 Hz		33680
MN110-130 V DC/AC 50/60 Hz with adjustable time delay			
Composed of:	MN 125 V DC		LV429413
	Delay unit 110-130 V 50/60 Hz		33681
MN 220-250 V 50/60 Hz with adjustable time delay			
Composed of:	MN 250 V DC		LV429414
	Delay unit 220-250 V 50/60 Hz		33682

(1) Discount code is 12

Motor mechanism

Motor mechanism module supplied with SDE adapter (Factory assembled only. Order separately is strictly prohibited.)

DB116600	AC	Voltage	MT100/160	MT250
		48-60 V 50/60 Hz	LV429440	LV431548
		110-130 V 50/60 Hz	LV429433	LV431540
		220-240 V 50/60 Hz and 208-277V 60Hz	LV429434	LV431541
		380-415 V 50/60 Hz and 440-480 V 60Hz	LV429435	LV431542
	DC	24-30 V	LV429436	LV431543
		48-60 V	LV429437	LV431544
		110-130 V	LV429438	LV431545
		250 V	LV429439	LV431546

Communicating motor mechanism module supplied with SDE adapter

DB112265	Motor mechanism module	MTc 100/160	220-240 V 50/60 Hz	LV429441
		MTc 250		LV431549
	+			
	Breaker and Status Communication Module	BSCM		LV434205
	+			
	NSX cord	Wire length L = 0.35 m		LV434200
		Wire length L = 1.3 m		LV434201
		Wire length L = 3 m		LV434202
		U > 480 V AC wire length L = 0.35 m		LV434204

Rotary handles

Direct rotary handle

DB112269	With black handle	LV429337
	With red handle on yellow front	LV429339
	MCC conversion accessory	LV429341
	CNOMO conversion accessory	LV429342

Extended rotary handle

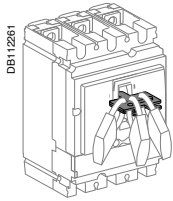
DB112268	With black handle	LV429338
	With red handle on yellow front	LV429340
	With telescopic handle for withdrawable device	LV429343

Accessories for direct or extended rotary handle

Indication auxiliary	1 early-break contact	LV429345
	2 early-make contacts	LV429346

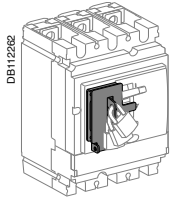
Locks

Toggle locking device for 1 to 3 padlocks



By removable device

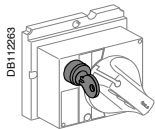
29370



By fixed device

LV429371

Locking of rotary handle



Keylock adapter (keylock not included)

LV429344

Keylock (keylock adapter not included)

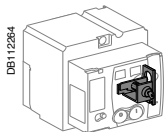
Ronis 1351B.500

41940

Profalux KS5 B24 D4Z

42888

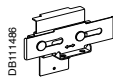
Locking of motor mechanism module



Keylock adapter + Ronis keylock (special)

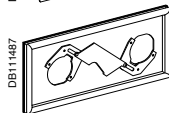
LV429449



Interlocking**Mechanical interlocking for circuit breakers**

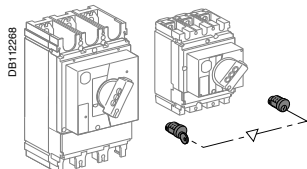
DB11486

With toggles	LV429354
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DB11487

With rotary handles	LV429369
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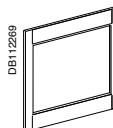
Interlocking with key (2 keylocks / 1 key) for rotary handles

DB11268

Keylock kit (keylock not included)	for only one device	LV429344
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1 set of 2 keylocks	Ronis 1351B.500	41950
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(1 key only, keylock kit not included)	Profalux KS5 B24 D4Z	42878
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Installation accessories**Front-panel escutcheons**

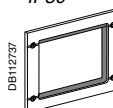
DB11269

IP30 escutcheon for all control types	LV429525
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IP30 trip unit access escutcheon for toggle	LV429526
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IP30 escutcheon for Vigi module	LV429527
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IP30



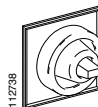
DB11277

IP40 escutcheon for all control types	LV429317
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IP40 escutcheon for Vigi module	LV429316
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IP40 escutcheon for Vigi or ammeter module	LV429318
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IP40

IP43 rubber toggle cover

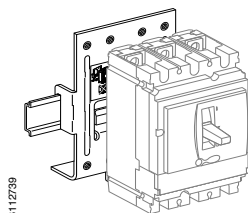
DB11278

1 toggle cover	LV429319
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Lead-sealing accessories

DB115615

Bag of accessories	LV429375
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Din rail adapter

DB112739


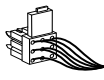
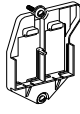
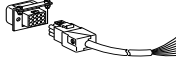
1 adapter	LV429305
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Plug-in/withdrawable version accessories



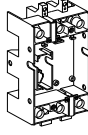
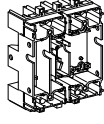


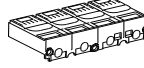

Insulation accessories

 DB117159	1 connection adapter for plug-in base	3P	LV429306
		4P	LV429307

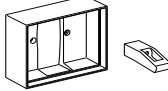




Auxiliary connections

 DB117160	1 9-wire fixed connector (for base)		LV429273
 DB117161	1 9-wire moving connector (for circuit breaker)		LV429274
 DB117162	1 support for 2 moving connectors		LV429275
 DB119885	9-wire manual auxiliary connector (fixed + moving)		LV429272

Plug-in base accessories


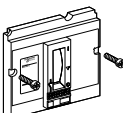
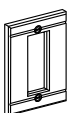

 DB117164	2 long insulated right angle terminal extensions	Set of 2	LV429276
 DB117165	2 IP40 shutters for base		LV429271
 DB117166	Base	2P	LV429265
		3P	LV429266
 DB117167	Base	4P	LV429267
 DB117168	2 power connections	2/3/4P	LV429268
 DB117169	1 short terminal shield	2/3P	LV429515
 DB117170	1 short terminal shield	4P	LV429516
 DB117171	1 safety trip interlock	2/3/4P	LV429270

Chassis accessories

 DB117172	Escutcheon collar	Toggle	LV429284
 DB117173	Escutcheon collar	Vigi module	LV429285
 DB117163	Locking kit (keylock not included)		LV429286
 DB117163	Keylock (keylock adapter not included)	Ronis 1351B.500	41940
		Profalux KS5 B24 D4Z	42888
 DB111426	2 carriage switches (connected/disconnected position indication)		LV429287



Spare parts

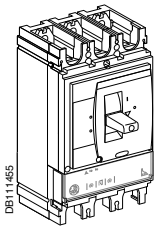
	10 spare toggle extensions (NSX250)		LV429313
	Bag of screws		LV429312
	12 snap-in nuts (fixed/FC)	M6 for NSX100N/H/L	LV429234
		M8 for NSX160/250N/H/L	LV430554
	NS retrofit escutcheon	Small cut-out	LV429528
	IP40 toggle escutcheon	Compact NS type/small cut-out	29315
	1 set of 10 identification labels		LV429226
	1 base for extended rotary handle		LV429502
	5 transparent covers for trip unit	TM, MA, NA	LV429481
		Micrologic 2	LV429481
		Micrologic 5/6	LV429478

NSX400/630F:

complete fixed/FC device
Compact NSX400/630F (36 kA 380/415 V)

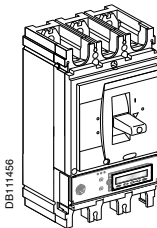
Compact NSX400/630F

Electronic trip unit Micrologic 2.3 (LS₀I protection)



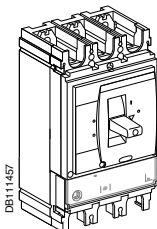
		3P 3d	4P 3d, 4d, 3d + N/2
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX400F	400 A	LV432676SPDR	1,209.00 LV432677SPDR
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX630F	630 A	LV432876SPDR	1,784.00 LV432877SPDR

Electronic trip unit Micrologic 5.3 A (LSI protection, ammeter)



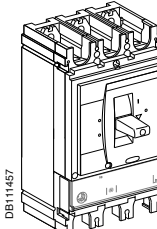
		3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX400F	400 A	LV432678SPDR	2,109.00 LV432679SPDR
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX630F	630 A	LV432878SPDR	2,684.00 LV432879SPDR

Electronic trip unit Micrologic 1.3-M (I motor protection)



		3P 3d	
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX400F 1.3-M (36 kA at 380/415V)	320 A		LV432748SPDR
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX630F 1.3-M (36 kA at 380/415V)	500 A		LV432948SPDR

Electronic trip unit Micrologic 2.3-M (LS₀I motor protection)



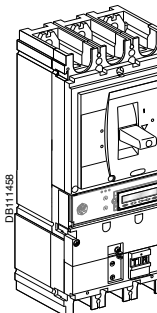
		3P 3d	
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX400F 2.3-M (36 kA at 380/415V)	320 A		LV432775SPDR
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX630F 2.3-M (36 kA at 380/415V)	500 A		LV432975SPDR

Price adder for advanced trip unit (add following amount to circuit breakers with Micrologic 2.3 trip units)

Trip unit	3 pole	4 pole
Micrologic 5.3 E		
Micrologic 6.3 A		
Micrologic 6.3 E		

Vigicompact NSX400/630F

Electronic trip unit Micrologic 2.3 (LS₀I protection)



		3P 3d	4P 3d, 4d, 3d + N/2
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Vigicompact NSX400F	400 A	LV432731SPDR	LV432732SPDR
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Vigicompact NSX630F	630 A	LV432931SPDR	LV432932SPDR

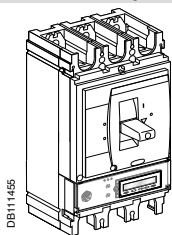
NSX400/630N:

complete fixed/FC device
Compact NSX400/630N (50 kA 380/415 V)

B

Compact NSX400/630N

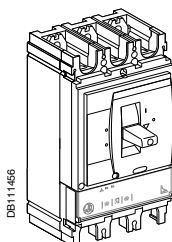
Electronic trip unit Micrologic 2.3 (LS₀I protection)



DB111455

		3P 3d	4P 3d, 4d, 3d + N/2
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX400N	400 A	LV432693SPDR	LV432694SPDR
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX630N	630 A	LV432893SPDR	LV432894SPDR

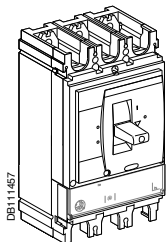
Electronic trip unit Micrologic 5.3 A (LSI protection, ammeter)



DB111456

		3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX400N	400 A	LV432699SPDR	LV432700SPDR
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX630N	630 A	LV432899SPDR	LV432900SPDR

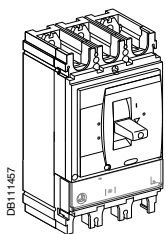
Electronic trip unit Micrologic 1.3-M A (I motor protection)



DB111457

		3P 3d	
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX400N 1.3-M (50 kA at 380/415V)	320 A	LV432749SPDR	
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX630N 1.3-M (50 kA at 380/415V)	500 A	LV432949SPDR	

Electronic trip unit Micrologic 2.3-M (LS₀I motor protection)



DB111457

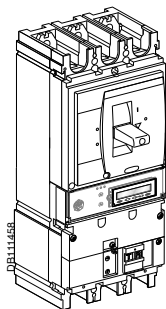
		3P 3d	
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX400N 2.3-M (50 kA at 380/415V)	320 A	LV432776SPDR	
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX630N 2.3-M (50 kA at 380/415V)	500 A	LV432976SPDR	

Price adder for advanced trip unit (add following amount to circuit breakers with Micrologic 2.3 trip units)

Trip unit	3 pole	4 pole
Micrologic 5.3 E		
Micrologic 6.3 A		
Micrologic 6.3 E		

Vigicompact NSX400/630N

Electronic trip unit Micrologic 2.3 (LS₀I protection)



DB111458

		3P 3d	4P 3d, 4d, 3d + N/2
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Vigicompact NSX400N	400 A	LV432733SPDR	LV432734SPDR
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Vigicompact NSX630N	630 A	LV432933SPDR	LV432934SPDR

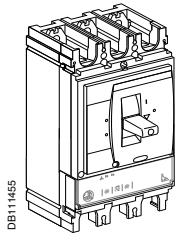
NSX400/630H:

complete fixed/FC device
Compact NSX400/630H (70 kA 380/415 V)

B

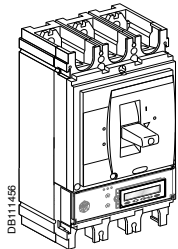
Compact NSX400/630H

Electronic trip unit Micrologic 2.3 (LS₀I protection)



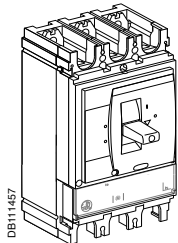
		3P 3d	4P 3d, 4d, 3d + N/2
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX400H	400 A	LV432695SPDR	LV432696SPDR
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX630H	630 A	LV432895SPDR	LV432896SPDR

Electronic trip unit Micrologic 5.3 A (LSI protection, ammeter)



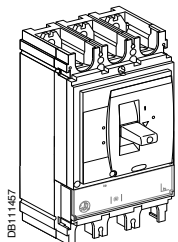
		3P 3d	4P 3d, 4d, 3d + N/2, 3d + OSN
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX400H	400 A	LV432701SPDR	LV432702SPDR
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders			
Compact NSX630H	630 A	LV432901SPDR	LV432902SPDR

Electronic trip unit Micrologic 1.3-M (I motor protection)



		3P 3d
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders		
Compact NSX400H 1.3-M (70 kA at 380/415V)	320 A	LV432750SPDR
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders		
Compact NSX630H 1.3-M (70 kA at 380/415V)	500 A	LV432950SPDR

Electronic trip unit Micrologic 2.3-M (LS₀I motor protection)



		3P 3d
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders		
Compact NSX400H 2.3-M (70 kA at 380/415V)	320 A	LV432777SPDR
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders		
Compact NSX630H 2.3-M (70 kA at 380/415V)	500 A	LV432977SPDR

Price adder for advanced trip unit (add following amount to circuit breakers with Micrologic 2.3 trip units)

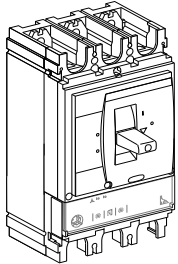
Trip unit	3 pole	4 pole
Micrologic 6.3 E		

NSX400/630S:

complete fixed/FC device
Compact NSX400/630S (100 kA 380/415 V)

Compact NSX400/630S

Electronic trip unit Micrologic 2.3 (LS₀I protection)



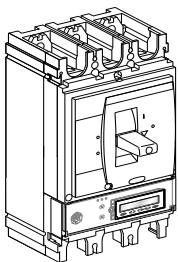
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX400S	400 A	3P
		4P

Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX630S	630 A	3P
		4P

Electronic trip unit Micrologic 5.3 A (LSI protection, ammeter)



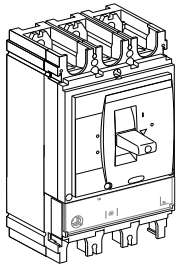
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX400S	400 A	3P
		4P

Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX630S	630 A	3P
		4P

Electronic trip unit Micrologic 1.3-M (I motor protection)



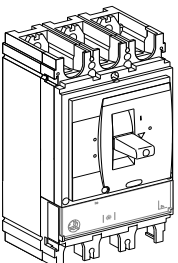
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX400S 1.3-M	320 A	3P
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Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX630S 1.3-M	500 A	3P
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Electronic trip unit Micrologic 2.3-M (LS₀I motor protection)



Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX400S 2.3-M	320 A	3P 3d
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Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX630S 2.3-M	500 A	3P 3d
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Price adder for advanced trip unit (add following amount to circuit breakers with Micrologic 2.3 trip units)

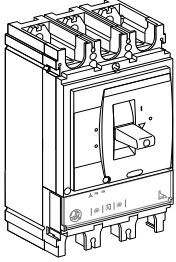
Trip unit	3 pole	4 pole
Micrologic 6.3 E		

NSX400/630L:

complete fixed/FC device
Compact NSX400/630L (150 kA 380/415 V)

Compact NSX400/630L

Electronic trip unit Micrologic 2.3 (LS₀I protection)



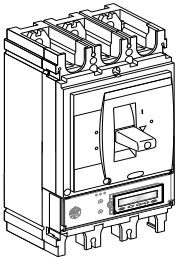
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX400L	400 A	3P
		4P

Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX630L	630 A	3P
		4P

Electronic trip unit Micrologic 5.3 A (LSI protection, ammeter)



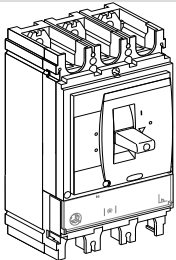
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX400L	400 A	3P
		4P

Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX630L	630 A	3P
		4P

Electronic trip unit Micrologic 1.3-M (I motor protection)



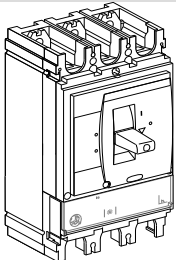
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX400L 1.3-M	320 A	3P
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Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX630L 1.3-M	500 A	3P
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Electronic trip unit Micrologic 2.3-M (LS₀I motor protection)



Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX400L 2.3-M	320 A	3P
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Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders

Compact NSX630L 2.3-M	500 A	3P
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Price adder for advanced trip unit (add following amount to circuit breakers with Micrologic 2.3 trip units)

Trip unit	3 pole	4 pole
Micrologic 6.3 E		

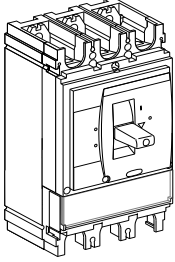


NSX400/630NA:

complete fixed/FC device
Compact NSX400/630NA

Compact NSX400/630 0.3 NA switch-disconnector

With 0.3 NA switch-disconnector unit



	3P	4P
Fixed/FC device with 52.5 mm pitch = fixed/FC device with 45 mm pitch + spreaders		
Compact NSX400 0.3 NA	LV432756SPDR	LV432757SPDR
Fixed/FC device with 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders		
Compact NSX630 0.3 NA	LV432956SPDR	LV432957SPDR

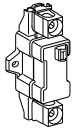
B

Trip unit accessories, installation and connection

Compact and Vigicomact NSX400/630

Trip unit accessories

External neutral CT for 3 pole breaker with Micrologic 5/6



400-630 A	LV432575
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24 V DC wiring accessory for Micrologic 5/6



24 V DC power supply connector	LV434210
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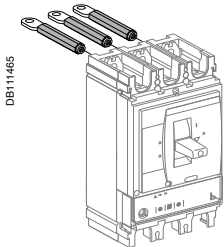
ZSI accessory for NS630b-NW with NSX



ZSI module	LV434212
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Fixed/RC device = fixed/FC device + rear connection kit

Mixed RC kit

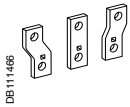


		Required Qty	Unit Price (S\$)
Kit 3P	Short RCs	2 x	LV432475
	Long RCs	1 x	LV432476
Kit 4P	Short RCs	2 x	LV432475
	Long RCs	2 x	LV432476

Fixed/FC device with 52.5 mm or 70 mm pitch = fixed/FC device with 45 mm pitch + spreaders

The pitch of all Compact and Vigicomact NSX400/630 devices is 45 mm. Spreaders are available for fixed front, plug-in or withdrawable connection with pitch of 52.5 mm or 70 mm.

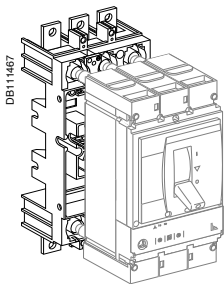
Upstream or downstream spreaders



52.5 mm	3P	LV432490
	4P	LV432491
70 mm	3P	LV432492
	4P	LV432493

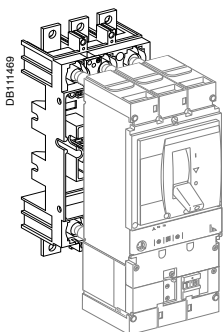
Plug-in version = fixed/FC device + plug-in kit

Kit for Compact



	3P	4P
Plug-in kit for Compact	LV432538	LV432539
Comprising:		
Base	= 1 x LV432516	= 1 x LV432517
Power connections	+ 3 x LV432518	+ 4 x LV432518
Short terminal shields	+ 2 x LV432591	+ 2 x LV432592
Safety trip interlock	+ 1 x LV432520	+ 1 x LV432520

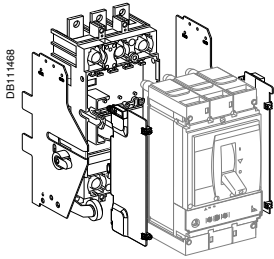
Kit for Vigicomact



	3P	4P
Plug-in kit for Vigicomact	LV432540	LV432541
Comprising:		
Base	= 1 x LV432516	= 1 x LV432517
Power connections	+ 3 x LV432519	+ 4 x LV432519
Short terminal shields	+ 2 x LV432591	+ 2 x LV432592
Safety trip interlock	+ 1 x LV432520	+ 1 x LV432520

Withdrawable version = fixed/FC device + withdrawable kit

Kit for Compact



Withdrawable kit for Compact

Comprising:

Plug-in kit

+

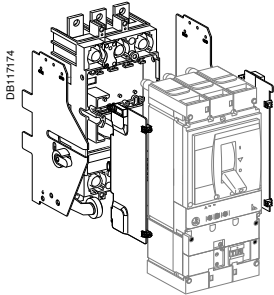
Chassis side plates for base

+

Chassis side plates for breaker

	3P	4P
	=	=
Plug-in kit	1 x LV432538	1 x LV432539
+	+	+
Chassis side plates for base	1 x LV432532	1 x LV432532
+	+	+
Chassis side plates for breaker	1 x LV432533	1 x LV432533

Kit for Vigicompact



Withdrawable kit for Vigicompact

Comprising:

Plug-in kit

+

Chassis side plates for base

+

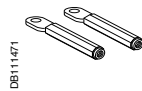
Chassis side plates for breaker

	3P	4P
	=	=
Plug-in kit	1 x LV432540	1 x LV432541
+	+	+
Chassis side plates for base	1 x LV432532	1 x LV432532
+	+	+
Chassis side plates for breaker	1 x LV432533	1 x LV432533

B

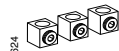
Connection accessories (Cu or Al)

Rear connections

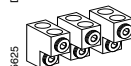


DB11471	2 short	LV432475
	2 long	LV432476

Bare cable connectors (1)



DB115624	Aluminium connectors	1 x (35 to 300 mm ²)	Set of 3	LV432479
			Set of 4	LV432480

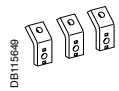


DB115625	Aluminium connectors for 2 cables	2 x (35 to 300 mm ²)	Set of 3	LV432481
			Set of 4	LV432482

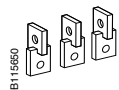


DB112724	6.35 mm voltage tap for steel or aluminium connectors		Set of 10	LV429348
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Terminal extensions (1)



DB115649	45° terminal extensions		Set of 3	LV432586
			Set of 4	LV432587

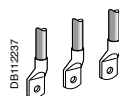


DB115650	Edgewise terminal extensions		Set of 3	LV432486
			Set of 4	LV432487



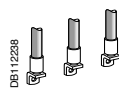
DB115651	Right-angle terminal extensions		Set of 3	LV432484
			Set of 4	LV432485

Crimp lugs for copper cable (1)



DB112237	For cable 240 mm ²		Set of 3	LV432500
			Set of 4	LV432501
	For cable 300 mm ²		Set of 3	LV432502
			Set of 4	LV432503

Crimp lugs for aluminium cable (1)

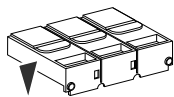


DB112238	For cable 240 mm ²		Set of 3	LV432504
			Set of 4	LV432505
	For cable 300 mm ²		Set of 3	LV432506
			Set of 4	LV432507

(1) Supplied with 2 or 3 interphase barriers.

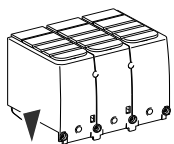
B

Insulation accessories



Short terminal shield, 45 mm (1 piece)

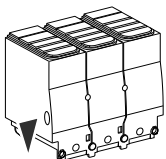
3P	LV432591
4P	LV432592



Long terminal shield, 45 mm (1 piece)

3P	LV432593
4P	LV432594

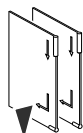
DB11473



Long terminal shield for spreaders, 52.5 mm (1 piece) (supplied with insulating plate)

3P	LV432595
4P	LV432596

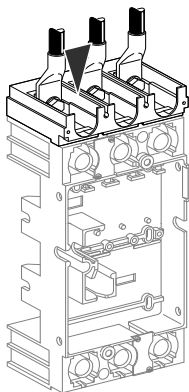
DB115626



Interphase barriers

Set of 6	LV432570
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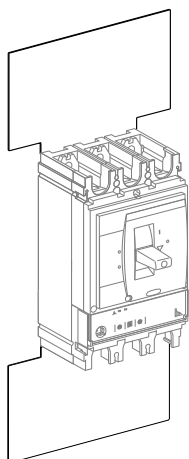
DB115602



Connection adapter for plug-in base

3P	LV432584
4P	LV432585

DB115627



2 insulating screens (70 mm pitch)

3P	LV432578
4P	LV432579

DB115628

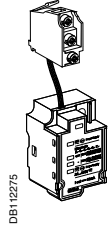
Electrical auxiliaries

Auxiliary contacts (changeover)



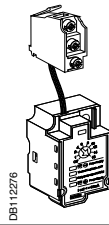
OF or SD or SDE or SDV	29450
OF or SD or SDE or SDV low level	29452

SDx output module for Micrologic electronic trip unit



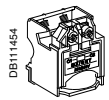
SDx module 24/415 V AC/DC	LV429532
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SDTAM contactor tripping module (early-break thermal fault signal) for Micrologic 2.3-M/6.3 E-M

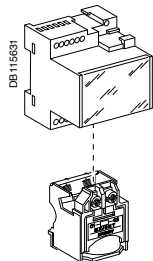


SDTAM 24/415 V AC/DC overload fault indication	LV429424
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Voltage releases



	Voltage	MX (shunt)	MN (undervoltage)
AC	24 V 50/60 Hz	LV429384	LV429404
	48 V 50/60 Hz	LV429385	LV429405
	110-130 V 50/60 Hz	LV429386	LV429406
	220-240 V 50/60 Hz and 208-277 V 60 Hz	LV429387	LV429407
	380-415 V 50 Hz and 440-480 V 60 Hz	LV429388	LV429408
	525 V 50 Hz and 600 V 60 Hz	LV429389	LV429409
DC	12 V	LV429382	LV429402
	24 V	LV429390	LV429410
	30 V	LV429391	LV429411
	48 V	LV429392	LV429412
	60 V		LV429403
	125 V	LV429393	LV429413
	250 V	LV429394	LV429414



MN 48 V 50/60 Hz with fixed time delay			
Composed of:	MN 48 V DC		LV429412
	Delay unit 48 V 50/60 Hz		LV429426

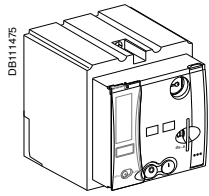
MN 220-240 V 50/60 Hz with fixed time delay			
Composed of:	MN 250 V DC		LV429414
	Delay unit 220-240 V 50/60 Hz		LV429427

MN 48 V DC/AC 50/60 Hz with adjustable time delay			
Composed of:	MN 48 V DC		LV429412
	Delay unit 48 V 50/60 Hz	33680	(1)

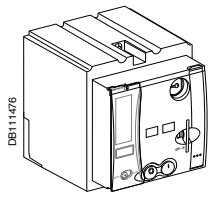
MN110-130 V DC/AC 50/60 Hz with adjustable time delay			
Composed of:	MN 125 V DC		LV429413
	Delay unit 110-130 V 50/60 Hz	33681	(1)

MN 220-250 V 50/60 Hz with adjustable time delay			
Composed of:	MN 250 V DC		LV429414
	Delay unit 220-250 V 50/60 Hz	33682	(1)

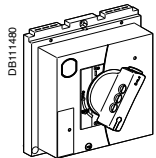
(1) Discount code is 12

**Compact and Vigicomcompact NSX400/630
(cont.)****Motor mechanism****Motor mechanism module (Factory assembled only. Order separately is strictly prohibited).**

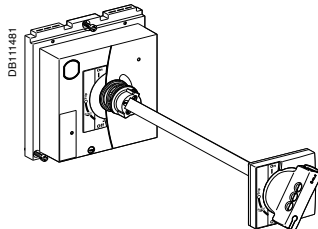
	Voltage	MT400-630
AC	48-60 V 50/60 Hz	LV432639
	110-130 V 50/60 Hz	LV432640
	220-240 V 50/60 Hz and 208-277 V 60 Hz	LV432641
	380-415 V 50 Hz	LV432642
	440-480 V 60 Hz	LV432647
DC	24-30 V	LV432643
	48-60 V	LV432644
	110-130 V	LV432645
	250 V	LV432646
Operation counter		LV432648

Communicating motor mechanism module

Motor mechanism module	MTc 400/630	220-240 V 50/60 Hz	LV432652
+			
Breaker and Status Communication Module	BSCM		LV434205
+			
NSX cord	Wire length L = 0.35 m		LV434200
	Wire length L = 1.3 m		LV434201
	Wire length L = 3 m		LV434202
	U > 480 V AC wire length L = 0.35 m		LV434204

Rotary handles**Direct rotary handle**

With black handle	LV432597
With red handle on yellow front	LV432599
MCC conversion accessory	LV432606
CNOMO conversion accessory	LV432602

Extended rotary handle

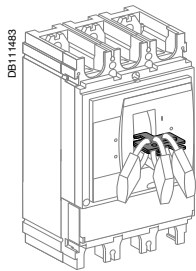
With black handle	LV432598
With red handle on yellow front	LV432600
With telescopic handle for withdrawable device	LV432603

Accessories for direct or extended rotary handle

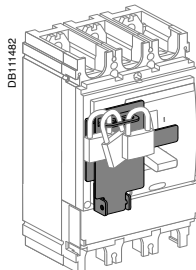
Indication auxiliary	1 early-break contact	LV432605
	2 early-make contacts	LV429346

Locks

Toggle locking device for 1 to 3 padlocks

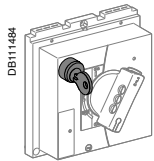


By removable device	29370
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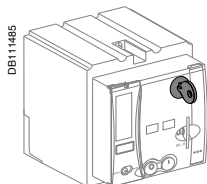
By fixed device	LV432631
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Locking of rotary handle



Keylock adapter (keylock not included)		LV432604
Keylock (keylock adapter not included)	Ronis 1351B.500	41940
	Profalux KS5 B24 D4Z	42888

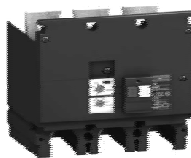
Locking of motor mechanism module



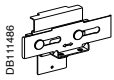
Keylock adapter (keylock not included)		LV432649
Keylock (keylock adapter not included)	Ronis 1351B.500	41940
	Profalux KS5 B24 D4Z	42888

+ Vigi module

+ Vigi module

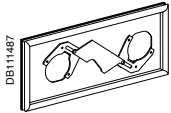


		3P	4P
Type MB	200 to 440 V	LV432455	LV432456
	440 to 550 V	LV432453	LV432454
Connection for a 4P Vigi on a 3P breaker			LV432457

Interlocking**Mechanical interlocking for circuit breakers**

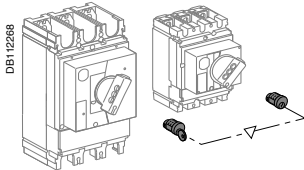
With toggles

LV432614



With rotary handles

LV432621

Interlocking with key (2 keylocks / 1 key) for rotary handles

Keylock kit (keylock not included)

For only 1 device.

LV432604

1 set of 2 keylocks

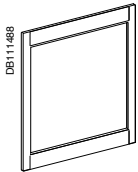
Ronis 1351B.500

41950

(1 key only, keylock kit not included)

Profalux KS5 B24 D4Z

42878

Installation accessories**Front-panel escutcheons**

IP30

IP30 escutcheon for all control types

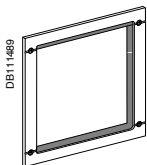
LV432557

IP30 trip unit access escutcheon for toggle

LV432559

IP30 escutcheon for Vigi module

LV429527



IP40

IP40 escutcheon for all control types

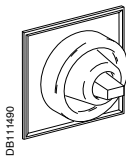
LV432558

IP40 escutcheon for Vigi module

LV429316

IP40 escutcheon for Vigi or ammeter module

LV429318

IP43 rubber toggle cover

1 toggle cover

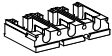
LV432560

Lead-sealing accessories


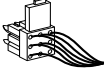

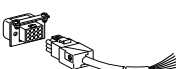
Bag of accessories

LV429375

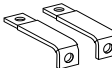

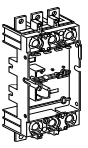
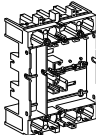
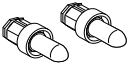
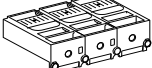
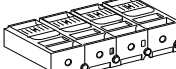

**Compact and Vigicompact NSX400/630
(cont.)****Plug-in/withdrawable version accessories****Insulation accessories**

DB117169		Connection adapter for plug-in base	3P	LV432584
			4P	LV432585

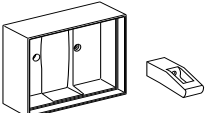



Auxiliary connections

DB117160		1 9-wire fixed connector (for base)		LV429273
DB117161		1 9-wire moving connector (for circuit breaker)		LV432523
DB116989		1 support for 2 moving connectors		LV432525
DB115885		9-wire manual auxiliary connector (fixed + moving)		LV429272

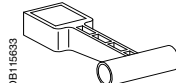

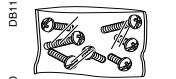
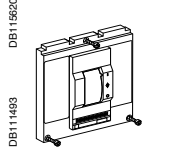
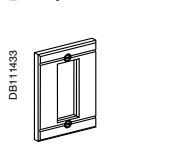

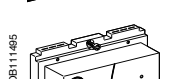
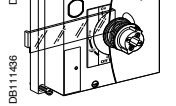
Plug-in base accessories

DB117164		Long insulated right angle terminal extensions	Set of 2	LV432526
DB117165		2 IP40 shutters for base		LV432521
DB117160		Base	3P	LV432516
DB117181		Base	4P	LV432517
DB117182		Power connections	3/4P	LV432518
DB117183		Short terminal shield	3P	LV432591
DB117184		Short terminal shield	4P	LV432592
DB117171		Safety trip interlock	3/4P	LV432520

Chassis accessories

DB117172		Escutcheon collar	Toggle	LV432534
DB117173		Escutcheon collar	Vigi module	LV429285
DB117168		Locking kit (keylock not included)		LV429286
DB11426		Keylock (keylock adapter not included)	Ronis 1351B.500	41940
			Profalux KS5 B24 D4Z	42888
		2 carriage switches (connected/disconnected position indication)		LV429287

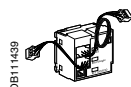
Spare parts

 <p>DB115633</p>	Additional toggle extension for NSX400/630	32595
 <p>DB111430</p>	5 spare toggle extensions	LV432553
 <p>DB115620</p>	Bag of screws	LV432552
 <p>DB11469</p>	Compact NS retrofit escutcheon	Small cut-out LV432571
 <p>DB11433</p>	IP40 toggle escutcheon	Compact NS type/small cut-out 32556
 <p>DB11438</p>	1 set of 10 identification labels	LV429226
 <p>DB11495</p>	1 base for extended rotary handle	LV432498
 <p>DB11436</p>	5 transparent covers for electronic trip unit	Micrologic 2 LV432459 Micrologic 5/6 LV432461

B

Monitoring and control (remote operation)

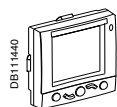
Circuit breaker accessories



Breaker Status Control Mod BSCM

LV434205

ULP display module (1)



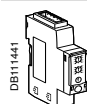
Switchboard front display module FDM121

TRV00121

FDM mounting accessory (diameter 22 mm)

TRV00128

ULP communication module

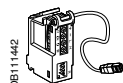


Modbus interface

Modbus SL communication interface module

TRV00210

ULP wiring accessories



NSX cord L = 0.35 m

LV434200

NSX cord L = 1.3 m

LV434201

NSX cord L = 3 m

LV434202

NSX cord for U > 480 V AC L = 1.3 m

LV434204



10 stacking connectors for communication interface modules

TRV00217



RS 485 roll cable (4 wires, length 60 m)

50965

(2)



5 RJ45 connectors female/female

TRV00870



10 RJ45/RJ45 male cord L = 0.3 m

TRV00803

10 RJ45/RJ45 male cord L = 0.6 m

TRV00806

5 RJ45/RJ45 male cord L = 1 m

TRV00810

5 RJ45/RJ45 male cord L = 2 m

TRV00820

5 RJ45/RJ45 male cord L = 3 m

TRV00830

1 RJ45/RJ45 male cord L = 5 m

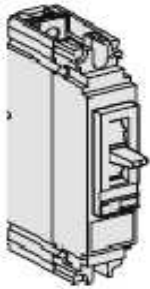
TRV00850

(1) For measurement display with Micrologic A and E or status display with BSCM. Consult our CustomerCare Centre for price.

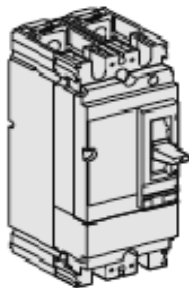
(2) Discount code is 12.

Compact NSX100/160 F/N/M 1P/2P

With thermal-magnetic trip unit TM-D

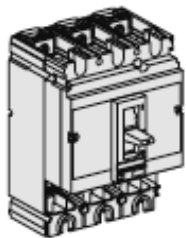


	Compact NSX100F AC/DC	Compact NSX100F AC/DC
Rating	1P 1d (Icu = 36 kA 250 V DC)	2P 2d (Icu = 36 kA 250 V DC/1P - 500 V DC/2P)
TM16D	LV438562	LV438592
TM20D	LV438563	LV438593
TM25D	LV438564	LV438594
TM30D	LV438565	LV438595
TM40D	LV438566	LV438596
TM50D	LV438567	LV438597
TM63D	LV438568	LV438598
TM80D	LV438569	LV438599
TM100	LV438570	LV438600
	Compact NSX160F AC/DC	Compact NSX160F AC/DC
Rating	1P 1d (Icu = 36 kA 250 V DC)	2P 2d (Icu = 36 kA 250 V DC/1P - 500 V DC/2P)
TM125	LV438669	LV438699
TM160	LV438670	LV438700
	Compact NSX100N AC/DC	Compact NSX100M AC/DC
Rating	1P 1d (Icu = 50 kA 250 V DC)	2P 2d (Icu = 85 kA 250 V DC/1P - 500 V DC/2P)
TM16D	LV438572	LV438602
TM20D	LV438573	LV438603
TM25D	LV438574	LV438604
TM30D	LV438575	LV438605
TM40D	LV438576	LV438606
TM50D	LV438577	LV438607
TM63D	LV438578	LV438608
TM80D	LV438579	LV438609
TM100	LV438580	LV438610
	Compact NSX160N AC/DC	Compact NSX160M AC/DC
Rating	1P 1d (Icu = 50 kA 250 V DC)	2P 2d (Icu = 85 kA 250 V DC/1P - 500 V DC/2P)
TM125	LV438679	LV438709
TM160	LV438680	LV438710
	Compact NSX100M AC/DC	Compact NSX100S AC/DC
Rating	1P 1d (Icu = 85 kA 250 V DC)	2P 2d (Icu = 100 kA 250 V DC/1P - 500 V DC/2P)
TM16D	LV438582	LV438612
TM20D	LV438583	LV438613
TM25D	LV438584	LV438614
TM30D	LV438585	LV438615
TM40D	LV438586	LV438616
TM50D	LV438587	LV438617
TM63D	LV438588	LV438618
TM80D	LV438589	LV438619
TM100D	LV438590	LV438620
	Compact NSX160M AC/DC	Compact NSX160S AC/DC
Rating	1P 1d (Icu = 85 kA 250 V DC)	2P 2d (Icu = 100 kA 250 V DC/1P - 500 V DC/2P)
TM125	LV438689	LV438719
TM160	LV438690	LV438720



Compact NSX100/160/250 DC 3P/4P

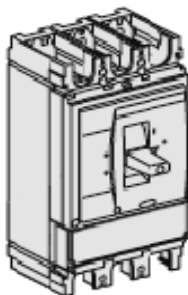
With thermal-magnetic trip unit TM-D



Rating	3P	4P
NSX100F DC c/w TM100DC	LV438003+LV438028	LV438008+LV438048
NSX160F DC c/w TM160DC	LV438103+LV438135	LV438108+LV438145
NSX250F DC c/w TM250DC	LV438203+LV438245	LV438208+LV438255
NSX100S DC c/w TM100DC	LV438018+LV438028	LV438019+LV438048
NSX160S DC c/w TM160DC	LV438118+LV438135	LV438119+LV438145
NSX250S DC c/w TM250DC	LV438218+LV438245	LV438219+LV438255



Compact NSX400/630 DC with MP Trip Units



Trip unit MP1

Rating	3P	4P
NSX400F DC (36kA)	LV438403	LV438408
NSX400S DC (100kA)	LV438418	LV438419
NSX630F DC (36kA)	LV438503	LV438508
NSX630S DC (100kA)	LV438518	LV438519

Trip unit MP2

Rating	3P	4P
NSX400S DC (100kA)	LV438428	LV438429
NSX630S DC (100kA)	LV438528	LV438529

Trip unit MP3

Rating	3P	4P
NSX630S DC (100kA)	LV438538	LV438539

B

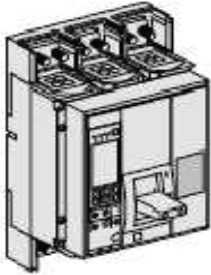
NS630b to NS1600

Fixed version, manually operated

Front-connected circuit breaker with Micrologic 2.0 control unit

Complete device included:

Basic manually operated circuit breaker with front connectors and micrologic control unit.


Compact NS type N (Icu = 50kA at 220/415V)

Rating	3P	4P
NS630b	33460	33463
NS800	33466	33469
NS1000	33472	33475
NS1250	33478	33480
NS1600	33482	33484

Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33461	33464
NS800	33467	33470
NS1000	33473	33476
NS1250	33479	33481
NS1600	33483	33485

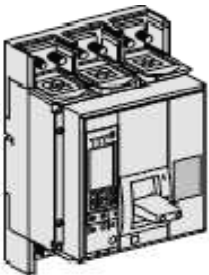
Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33462	33465
NS800	33468	33471
NS1000	33474	33477

Front-connected circuit breaker with Micrologic 5.0 control unit

Complete device included:

Basic manually operated circuit breaker with front connectors and micrologic control unit.


Compact NS type N (Icu = 50kA at 220/415V)

Rating	3P	4P
NS630b	33546	33549
NS800	33552	33555
NS1000	33558	33561
NS1250	33564	33566
NS1600	33568	33570

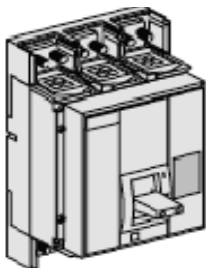
Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33547	33550
NS800	33553	33556
NS1000	33559	33562
NS1250	33565	33567
NS1600	33569	33571

Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33548	33551
NS800	33554	33557
NS1000	33560	33563

Front-connected switch-disconnector


Compact NS type NA

Rating	3P	4P
NS630b	33486	33491
NS800	33487	33492
NS1000	33488	33493
NS1250	33489	33494
NS1600	33490	33495

Note: connection accessories, device accessories and auxiliaries, control-unit accessories and communications option may be selected separately from page B52 to B56

NS630b to NS1600

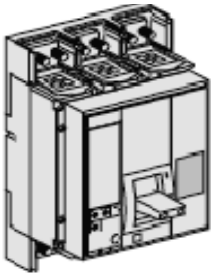
Fixed version, manually operated

(cont.)

Front-connected circuit breaker with Micrologic 2.0 A control unit

Complete device included:

Basic manually operated circuit breaker with front connectors and micrologic control unit.



Compact NS type N (Icu = 50kA at 220/415V)

Rating	3P	4P
NS630b	33223	33227
NS800	33233	33237
NS1000	33243	33247
NS1250	33253	33257
NS1600	33263	33267

Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33228	33229
NS800	33238	33239
NS1000	33248	33249
NS1250	33258	33259
NS1600	33268	33269

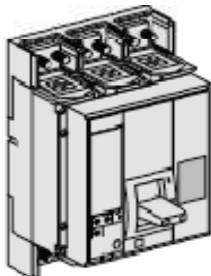
Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33497	33500
NS800	33498	33501
NS1000	33499	33502

Front-connected circuit breaker with Micrologic 5.0 A control unit

Complete device included:

Basic manually operated circuit breaker with front connectors and micrologic control unit.



Compact NS type N (Icu = 50kA at 220/415V)

Rating	3P	4P
NS630b	33323	33327
NS800	33333	33337
NS1000	33343	33347
NS1250	33353	33357
NS1600	33363	33367

Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33328	33329
NS800	33338	33339
NS1000	33348	33349
NS1250	33358	33359
NS1600	33368	33369

Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33516	33519
NS800	33517	33520
NS1000	33518	33521

Upgrade options for Micrologic control units



Price adder to circuit breaker fitted with Micrologic 2.0A control unit

"ammeter" A

Micrologic 6.0 A	selective + earth-fault protection
Micrologic 7.0 A	selective + earth-leakage protection

"power meter" P

Micrologic 5.0 P	selective protection
Micrologic 6.0 P	selective + earth-fault protection
Micrologic 7.0 P	selective + earth-leakage protection

Note: connection accessories, device accessories and auxiliaries, control-unit accessories and communications option may be selected separately from page B52 to B56

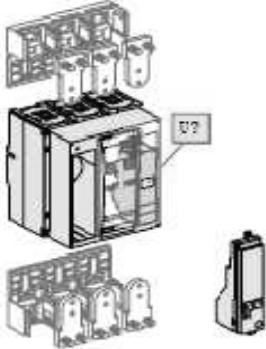
NS630b to NS1600

Fixed version, electrically operated

Front-connected circuit breaker with Micrologic 2.0 control unit

Complete device included:

Basic electrically operated circuit breaker with front connectors, micrologic control unit and motorized mechanism (1).


Compact NS type N (Icu = 50kA at 220/415V)

Rating	3P	4P
NS630b	33460E	33463E
NS800	33466E	33469E
NS1000	33472E	33475E
NS1250	33478E	33480E
NS1600	33482E	33484E

Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33461E	33464E
NS800	33467E	33470E
NS1000	33473E	33476E
NS1250	33479E	33481E
NS1600	33483E	33485E

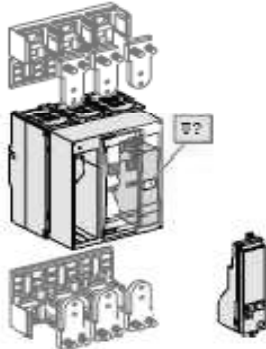
Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33462E	33465E
NS800	33468E	33471E
NS1000	33474E	33477E

Front-connected circuit breaker with Micrologic 5.0 control unit

Complete device included:

Basic electrically operated circuit breaker with front connectors, micrologic control unit and motorized mechanism (1).


Compact NS type N (Icu = 50kA at 220/415V)

Rating	3P	4P
NS630b	33546E	33549E
NS800	33552E	33555E
NS1000	33558E	33561E
NS1250	33564E	33566E
NS1600	33568E	33570E

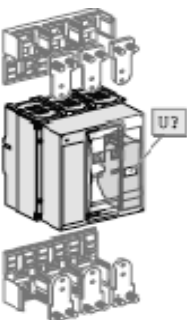
Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33547E	33550E
NS800	33553E	33556E
NS1000	33559E	33562E
NS1250	33565E	33567E
NS1600	33569E	33571E

Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33548E	33551E
NS800	33554E	33557E
NS1000	33560E	33563E

Front-connected switch-disconnector



Rating	3P	4P
NS630b	33486E	33491E
NS800	33487E	33492E
NS1000	33488E	33493E
NS1250	33489E	33494E
NS1600	33490E	33495E

Note: The characteristics of the motor mechanism module for electrical operation are specified separately by selecting a reference number from below table.

(1) The characteristics of the motor mechanism module for electrical operation are specified separately by selecting a reference number from below table.

Motor mechanism module (Order separately is prohibited)

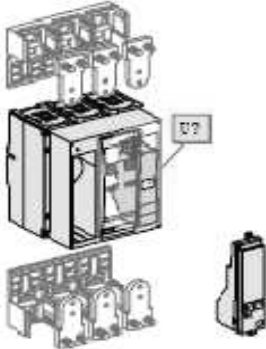
AC 50/60 Hz	Standard		DC	
	Standard	Communicating	Standard	Communicating
48 V	33691	33698	24-30 V	33690
100-130 V	33687	33694	48-60 V	33691
220-240 V	33688	33695	100-130 V	33692
380-415 V	33689	33696	200-250 V	33693
				33700

Note: connection accessories, device accessories and auxiliaries, control-unit accessories and communications option may be selected

Front-connected circuit breaker with Micrologic 2.0 A control unit

Complete device included:

Basic motorised operated circuit breaker with front connectors, micrologic control unit and motorized mechanism (1).



Compact NS type N (Icu = 50kA at 220/415V)

Rating	3P	4P
NS630b	33223E	33227E
NS800	33233E	33237E
NS1000	33243E	33247E
NS1250	33253E	33257E
NS1600	33263E	33267E

Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33228E	33229E
NS800	33238E	33239E
NS1000	33248E	33249E
NS1250	33258E	33259E
NS1600	33268E	33269E

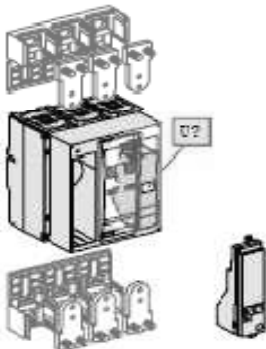
Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33497E	33500E
NS800	33498E	33501E
NS1000	33499E	33502E

Front-connected circuit breaker with Micrologic 5.0 A control unit

Complete device included:

Basic motorised operated circuit breaker with front connectors, micrologic control unit and motorized mechanism (1).



Compact NS type N (Icu = 50kA at 220/415V)

Rating	3P	4P
NS630b	33323E	33327E
NS800	33333E	33337E
NS1000	33343E	33347E
NS1250	33353E	33357E
NS1600	33363E	33367E

Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33328E	33329E
NS800	33338E	33339E
NS1000	33348E	33349E
NS1250	33358E	33359E
NS1600	33368E	33369E

Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33516E	33519E
NS800	33517E	33520E
NS1000	33518E	33521E

Upgrade options for Micrologic control units



Price adder to circuit breaker fitted with Micrologic 2.0A control unit

"ammeter" A

Micrologic 6.0 A	selective + earth-fault protection
Micrologic 7.0 A	selective + earth-leakage protection

"power meter" P

Micrologic 5.0 P	selective protection
Micrologic 6.0 P	selective + earth-fault protection
Micrologic 7.0 P	selective + earth-leakage protection

(1) The characteristics of the motor mechanism module for electrical operation are specified separately by selecting a reference number from below table.

Motor mechanism module

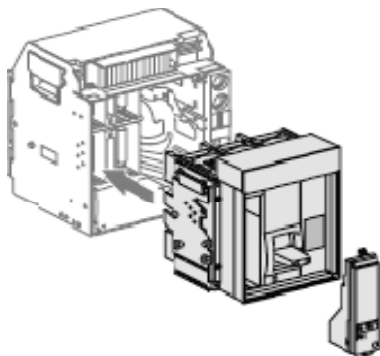
AC 50/60 Hz			DC		
	Standard	Communicating		Standard	Communicating
48 V	33691	33698	24-30 V	33690	33697
100-130 V	33687	33694	48-60 V	33691	33698
220-240 V	33688	33695	100-130 V	33692	33699
380-415 V	33689	33696	200-250 V	33693	33700

Note: connection accessories, device accessories and auxiliaries, control-unit accessories and communications option may be selected separately from page B52 to B56

Rear-connected circuit breaker with Micrologic 2.0 control unit

Complete device included:

Basic withdrawable manually operated circuit breaker with rear horizontal connectors and micrologic control unit

**Compact NS type N (Icu = 50kA at 220/415V)**

Rating	3P	4P
NS630b	33460W	33463W
NS800	33466W	33469W
NS1000	33472W	33475W
NS1250	33478W	33480W
NS1600	33482W	33484W

Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33461W	33464W
NS800	33467W	33470W
NS1000	33473W	33476W
NS1250	33479W	33481W
NS1600	33483W	33485W

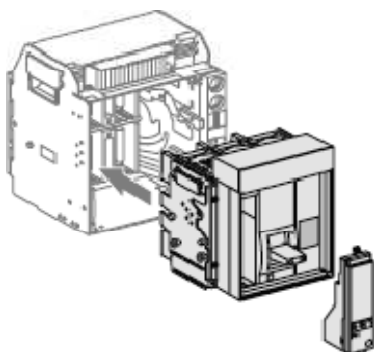
Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33462W	33465W
NS800	33468W	33471W
NS1000	33474W	33477W

Rear-connected circuit breaker with Micrologic 5.0 control unit

Complete device included:

Basic withdrawable manually operated circuit breaker with rear horizontal connectors and micrologic control unit

**Compact NS type N (Icu = 50kA at 220/415V)**

Rating	3P	4P
NS630b	33546W	33549W
NS800	33552W	33555W
NS1000	33558W	33561W
NS1250	33564W	33566W
NS1600	33568W	33570W

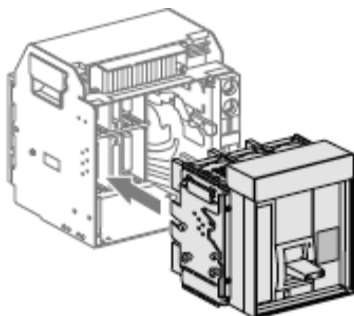
Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33547W	33550W
NS800	33553W	33556W
NS1000	33559W	33562W
NS1250	33565W	33567W
NS1600	33569W	33571W

Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33548W	33551W
NS800	33554W	33557W
NS1000	33560W	33563W

Rear-connected switch-disconnector



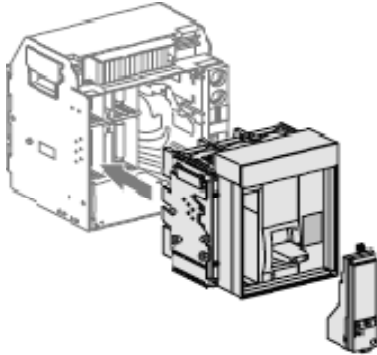
Rating	3P	4P
NS630b	33486W	33491W
NS800	33487W	33492W
NS1000	33488W	33493W
NS1250	33489W	33494W
NS1600	33490W	33495W

Note: connection accessories, device accessories and auxiliaries, control-unit accessories and communications option may be selected separately from page B52 to B56

Rear-connected circuit breaker with Micrologic 2.0 A control unit

Complete device included:

Basic withdrawable manually operated circuit breaker with rear horizontal connectors and micrologic control unit

**Compact NS type N (Icu = 50kA at 220/415V)**

Rating	3P	4P
NS630b	33223W	33227W
NS800	33233W	33237W
NS1000	33243W	33247W
NS1250	33253W	33257W
NS1600	33263W	33267W

Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33228W	33229W
NS800	33238W	33239W
NS1000	33248W	33249W
NS1250	33258W	33259W
NS1600	33268W	33269W

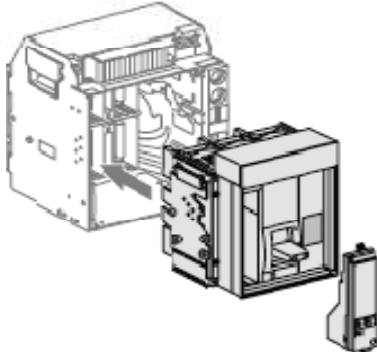
Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33497W	33500W
NS800	33498W	33501W
NS1000	33499W	33502W

Rear-connected circuit breaker with Micrologic 5.0 A control unit

Complete device included:

Basic withdrawable manually operated circuit breaker with rear horizontal connectors and micrologic control unit

**Compact NS type N (Icu = 50kA at 220/415V)**

Rating	3P	4P
NS630b	33323W	33327W
NS800	33333W	33337W
NS1000	33343W	33347W
NS1250	33353W	33357W
NS1600	33363W	33367W

Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33328W	33329W
NS800	33338W	33339W
NS1000	33348W	33349W
NS1250	33358W	33359W
NS1600	33368W	33369W

Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33516W	33519W
NS800	33517W	33520W
NS1000	33518W	33521W

Upgrade options for Micrologic control units

**Price adder to circuit breaker fitted with Micrologic 2.0A control unit****"ammeter" A**

Micrologic 6.0 A	selective + earth-fault protection
Micrologic 7.0 A	selective + earth-leakage protection

"power meter" P

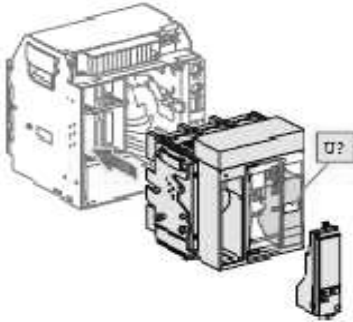
Micrologic 5.0 P	selective protection
Micrologic 6.0 P	selective + earth-fault protection
Micrologic 7.0 P	selective + earth-leakage protection

Note: connection accessories, device accessories and auxiliaries, control-unit accessories and communications option may be selected separately from page B52 to B56

Rear-connected circuit breaker with Micrologic 2.0 control unit

Complete device included:

Basic withdrawable electrically operated circuit breaker with front connectors, micrologic control unit and motorized mechanism (1).



Compact NS type N (Icu = 50kA at 220/415V)

Rating	3P	4P
NS630b	33460EW	33463EW
NS800	33466EW	33469EW
NS1000	33472EW	33475EW
NS1250	33478EW	33480EW
NS1600	33482EW	33484EW

Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33461EW	33464EW
NS800	33467EW	33470EW
NS1000	33473EW	33476EW
NS1250	33479EW	33481EW
NS1600	33483EW	33485EW

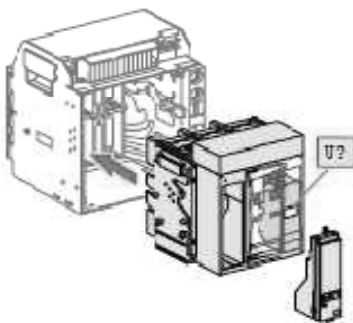
Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33462EW	33465EW
NS800	33468EW	33471EW
NS1000	33474EW	33477EW

Rear-connected circuit breaker with Micrologic 5.0 control unit

Complete device included:

Basic withdrawable electrically operated circuit breaker with front connectors, micrologic control unit and motorized mechanism (1).



Compact NS type N (Icu = 50kA at 220/415V)

Rating	3P	4P
NS630b	33546EW	33549EW
NS800	33552EW	33555EW
NS1000	33558EW	33561EW
NS1250	33564EW	33566EW
NS1600	33568EW	33570EW

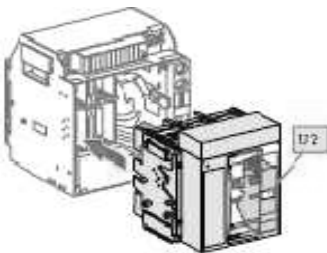
Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33547EW	33550EW
NS800	33553EW	33556EW
NS1000	33559EW	33562EW
NS1250	33565EW	33567EW
NS1600	33569EW	33571EW

Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33548EW	33551EW
NS800	33554EW	33557EW
NS1000	33560EW	33563EW

Rear-connected switch-disconnector



Rating	3P	4P
NS630b	33486EW	33491EW
NS800	33487EW	33492EW
NS1000	33488EW	33493EW
NS1250	33489EW	33494EW
NS1600	33490EW	33495EW

Note: The characteristics of the motor mechanism module for electrical operation are specified separately by selecting a reference number from below table.

(1) The characteristics of the motor mechanism module for electrical operation are specified separately by selecting a reference number from below table.

Motor mechanism module

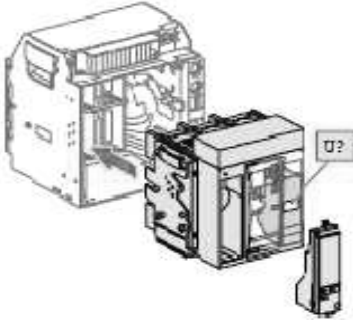
AC 50/60 Hz	Standard		DC	
	Standard	Communicating	Standard	Communicating
48 V	33831	33838	24-30 V	33830
100-130 V	33827	33834	48-60 V	33831
220-240 V	33828	33835	100-130 V	33832
380-415 V	33829	33836	200-250 V	33833

Note: connection accessories, device accessories and auxiliaries, control-unit accessories and communications option may be selected separately from page B52 to B56

Rear-connected circuit breaker with Micrologic 2.0 A control unit

Complete device included:

Basic withdrawable electrically operated circuit breaker with front connectors, micrologic control unit and motorized mechanism (1).



Compact NS type N (Icu = 50kA at 220/415V)

Rating	3P	4P
NS630b	33223EW	33227EW
NS800	33233EW	33237EW
NS1000	33243EW	33247EW
NS1250	33253EW	33257EW
NS1600	33263EW	33267EW

Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33228EW	33229EW
NS800	33238EW	33239EW
NS1000	33248EW	33249EW
NS1250	33258EW	33259EW
NS1600	33268EW	33269EW

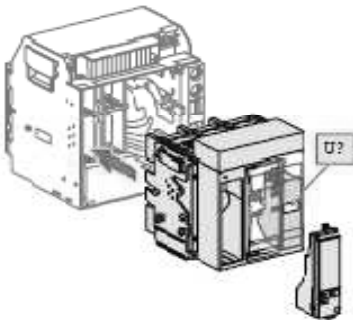
Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33497EW	33500EW
NS800	33498EW	33501EW
NS1000	33499EW	33502EW

Rear-connected circuit breaker with Micrologic 5.0 A control unit

Complete device included:

Basic withdrawable electrically operated circuit breaker with front connectors, micrologic control unit and motorized mechanism (1).



Compact NS type N (Icu = 50kA at 220/415V)

Rating	3P	4P
NS630b	33323EW	33327EW
NS800	33333EW	33337EW
NS1000	33343EW	33347EW
NS1250	33353EW	33357EW
NS1600	33363EW	33367EW

Compact NS type H (Icu = 70kA at 220/415V)

Rating	3P	4P
NS630b	33328EW	33329EW
NS800	33338EW	33339EW
NS1000	33348EW	33349EW
NS1250	33358EW	33359EW
NS1600	33368EW	33369EW

Compact NS type L (Icu = 150kA at 220/415V)

Rating	3P	4P
NS630b	33516EW	33519EW
NS800	33517EW	33520EW
NS1000	33518EW	33521EW

Upgrade options for Micrologic control units



Price adder to circuit breaker fitted with Micrologic 2.0A control unit

"ammeter" A

Micrologic 6.0 A	selective + earth-fault protection
Micrologic 7.0 A	selective + earth-leakage protection

"power meter" P

Micrologic 5.0 P	selective protection
Micrologic 6.0 P	selective + earth-fault protection
Micrologic 7.0 P	selective + earth-leakage protection

(1) The characteristics of the motor mechanism module for electrical operation are specified separately by selecting a reference number from below table.


Motor mechanism module

	AC 50/60 Hz		DC	
	Standard	Communicating		
48 V	33831	33838	24-30 V	33830 33837
100-130 V	33827	33834	48-60 V	33831 33838
220-240 V	33828	33835	100-130 V	33832 33839
380-415 V	33829	33836	200-250 V	33833 33840

Note: connection accessories, device accessories and auxiliaries, control-unit accessories and communications option may be selected separately from page B52 to B56

B

Connections for circuit breakers and switch-disconnectors

Rear connection		3P		4P	
	Vertical	Top	33604	Bottom	33614
		Bottom	33605	Top	33615
	Horizontal	Top	33606	Bottom	33616
		Bottom	33607	Top	33617

Connection accessories

Bare-cable connectors + 1 connector shield for 4 cables (240 mm²)



Front connection	Rear connection
3P (3 parts)	33640
4P (4 parts)	33641

1 long connection shield



3P	33628
4P	33629

Vertical-connection adapters



3P (3 parts)	33642
4P (4 parts)	33643

Cable lug adapters



3P (3 parts)	33644
4P (4 parts)	33645

Cable lug kits



240 mm ²	3P (6 lug kit)	33013
	4P (8 lug kit)	33014
300 mm ²	3P (6 lug kit)	33015
	4P (8 lug kit)	33016

Interphase barriers



3P/4P top (3 parts)	33646	33648
3P/4P bottom (3 parts)	33646	33648

Arc chute screen



3P	33596
4P	33597

Spreaders



3P	33622	33622
4P	33623	33623

Electrical auxiliaries

OF On/Off indication contacts



	6 A - 240 V	Low level
OF, ON/OFF indication contacts	33108	33109

Up to 3 OF, 1 SD and 1 SDE can be connected (the SDE contact is standard for electrically operated devices).

Instantaneous voltage releases (1)

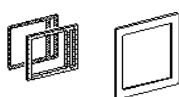


Voltage	MX (shunt)		MN (undervoltage)	MN Delay unit (2)	
	33658	287.00		R (non-adjustable)	Rr (adjustable)
12 V DC	33658	287.00	33668		
24-30 V DC, 24V AC	33659	287.00	33668		
48-60 V DC, 48V AC (2)	33660	287.00	33669		33680
100-130 V AC/DC	33661	287.00	33670	33684	33681
200-250 V AC/DC	33662	287.00	33671	33685	33682
240-277 V AC	33663	287.00			
380-480 V AC	33664	287.00	33673		33683

(1) Discount code 12 applies.

(2) Except 33680 is 48/609 V AC/DC

Installation accessories



Escutcheon (small cut-out) for manually operated device with toggle **33717**

Escutcheon for:

- device with toggle (large cutout) **33718**
- device with rotary handle
- electrically operated device

ref. 33717 ref. 33718

Blanking plate



Blanking plate **33858**

Connection accessories (both front and rear connections)

Interphase barriers for rear-connected chassis



3P/4P (3 parts)	33768
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Spreaders for front-connected and rear-connected chassis



3P (3 parts)	33622
4P (4 parts)	33623

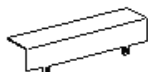
Cable lug kits (1)



240 mm ²	3P (6 lug kit)	33013
	4P (8 lug kit)	33014
300 mm ²	3P (6 lug kit)	33015
	4P (8 lug kit)	33016

Chassis accessories

Auxiliary terminal shield (CB)



3P	33763
4P	33764

Safety shutters (VO)



3P	33765
4P	33766

Electrical auxiliaries

OF On/Off indication contact



	6 A - 240 V	Low level
OF, ON/OFF indication contacts	33801	33804
SD trip indication contact for manually operated devices	33800	33803
SDE fault indication contact operated devices	33799	33802

Up to 3 OF, 1 SD and 1 SDE can be connected (the SDE contact is standard for electrically operated devices).

CE, CD, CT carriage switches (1)



6 A - 240 V	33170
Low level	33171

Up to 3 CE, 1 CT, 2 CD per device

Instantaneous voltage releases (1)



Voltage	MX (shunt)	MN (undervoltage)	MN Delay unit	
			R (non-adjustable)	Rr (adjustable)
12 V DC	33809			
24-30 V DC, 24V AC	33810	33819		
48-60 V DC, 48V AC (2)	33811	33820		33680
100-130 V AC/DC	33812	33821	33684	33681
200-250 V AC/DC	33813	33822	33685	33682
240-277 V AC	33814			
380-480 V AC	33815	33824		33683

(1) Discount code 12 applies.

(2) Except 33680 is 48/609 V AC/DC

Auxiliary terminals for chassis alone (1)

3 wire terminal (30 parts)	47071
6 wire terminal (10 parts)	47072
Jumpers (10 parts)	47900

Chassis locking

"Disconnected" position locking



By Profalux keylocks

	Reference
1 lock with 1 key + adaptation kit	33773
2 locks 1 key + adaptation kit	33774
2 locks 2 different keys + adaptation kit	33775

By Ronis keylocks

1 lock with 1 key + adaptation kit	33776
2 locks 1 key + adaptation kit	33777
2 locks 2 different keys + adaptation kit	33778

Door interlock



Right side of chassis (VPECD)	33786
Left side of chassis (VPECG)	33787

Racking interlock (VPOC)



33788

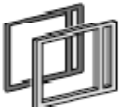
Mismatch protection (VDC)



33767

Installation accessories

Escutcheon



33857

Transparent cover for escutcheon



33859

Blanking plate



33858

Locking for manually operated devices

Fixed toggle locking system



Locking by 3 padlocks		32631
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Rotary handle for manually operated devices

Devices with direct rotary handles



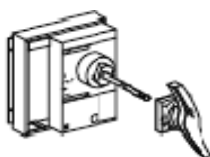
Handle and front	Black handle and black front		33863
	Red handle and yellow front		33864
Conversion accessory	CNOMO		33866
Locking by keylocks		Ronis	Profalux
	OFF position	33870	33869
	OFF and ON positions	33872	33871
Keylock kit (without keylocks)		33868	33868

Mechanical interlocking



For 2 devices with extended rotary handles		33890
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Devices with extended rotary handles



Handle and front	Black handle and black front		33878
	Red handle and yellow front		33879
	Telescopic (for chassis-mounted devices)		33880

Control accessories



2 advanced indication contacts (6 A - 240 V)		Fixed	Withdrawable
	Early break	33882	33884
	Early make	33883	33885

Locking and accessories for electrically operated devices

Pushbutton locking



By transparent cover + padlocks		33897
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Locking in OFF position



By Profalux keylocks		
	1 lock with 1 key + adaptation kit	33902
	2 locks 1 key + adaptation kit	33904
By Ronis keylocks + BPF support		
	1 lock with 1 key + adaptation kit	33903
	2 locks 1 key + adaptation kit	33905

Operation counter CDM



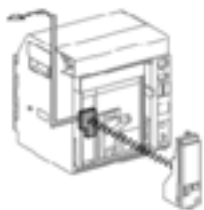
Operation counter CDM		33895
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Removable toggle locking system



Locking by 3 padlocks		44936
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Communications options



For fixed devices	Manually operated	Electrically operated
Modbus COM	33702	33708
For drawout devices	Manually operated	Electrically operated
Modbus COM	33842	33848
+ chassis		
Modbus (1)	33852	33852

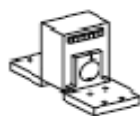
Accessories for Micrologic control units

Long-time rating plug (enhanced accuracy by limiting the setting range)



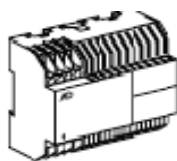
Standard (1)	0.4 to 1 x Ir	33542
Low setting	0.4 to 0.8 x Ir	33543
High setting	0.8 to 1 x Ir	33544
Without long-time protection	OFF	33545

External sensor



External sensor for neutral + earth-fault protection (TCE)		
CT rating: 400/1600 A		33576
Source ground return (SGR) earth fault protection		
External sensor (SGR)		33579

External power supply module (1)



Voltage	
24-30 V DC	54440
48-60 V DC	54441
100-125 V DC	54442
110-130 V AC	54443
200-240 V AC	54444
380-415 V AC	54445

Test equipment (1)

Mini test kit



Hand held test kit (HHTK)	33594
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Mechanical interlocking for source changeover (1)

Interlocking using connecting rods for Compact electrically operated devices



Complete assembly with 2 adaptation fixtures + rods	
2 Compact fixed devices	33910
2 Compact withdrawable devices	33913

Interlocking using cables for Compact electrically operated devices



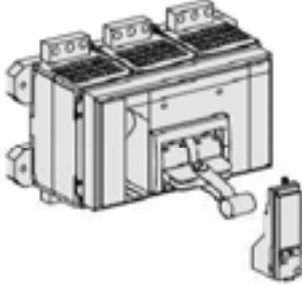
Complete assembly with 2 adaptation fixtures + cables	
2 Compact fixed devices	33911
2 Compact withdrawable devices	33914
1 Compact fixed + 1 Compact withdrawable device	33915

(1) Discount code 12 applies.

Circuit breaker with Micrologic 2.0 control unit

Complete device included:

Basic manually operated circuit breaker with front connectors and micrologic control unit.



Compact NS type N (Icu = 85/70kA at 220/415V)

Rating	3P	4P
NS1600b	34000M2	34003M2
NS2000	34006M2	34009M2
NS2500	34012M2	34015M2
NS3200	34018M2	34021M2

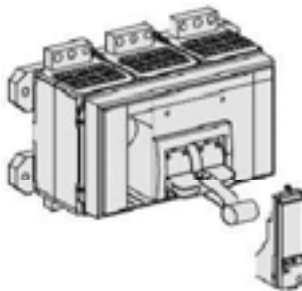
Compact NS type H (Icu = 125/85kA at 220/415V)

Rating	3P	4P
NS1600b	34001M2	34004M2
NS2000	34007M2	34010M2
NS2500	34013M2	34016M2
NS3200	34019M2	34022M2

Circuit breaker with Micrologic 5.0 control unit

Complete device included:

Basic manually operated circuit breaker with front connectors and micrologic control unit.



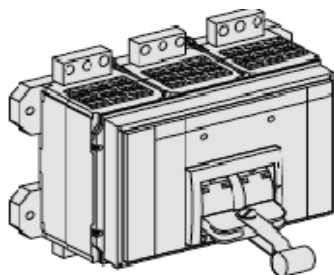
Compact NS type N (Icu = 85/70kA at 220/415V)

Rating	3P	4P
NS1600b	34000M5	34003M5
NS2000	34006M5	34009M5
NS2500	34012M5	34015M5
NS3200	34018M5	34021M5

Compact NS type H (Icu = 125/85kA at 220/415V)

Rating	3P	4P
NS1600b	34001M5	34004M5
NS2000	34007M5	34010M5
NS2500	34013M5	34016M5
NS3200	34019M5	34022M5

Switch-disconnector



Compact NS type NA

Rating	3P	4P
NS1600b	34024	34025
NS2000	34027	34028
NS2500	34030	34031
NS3200	34033	34034

Note: connection accessories, device accessories and auxiliaries, control-unit accessories and communications option may be selected separately.

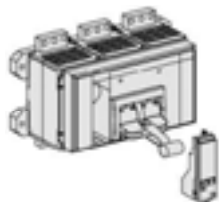
NS1600b to NS3200

Fixed version, manually operated and accessories

Front connected circuit breaker with Micrologic 2.0A control unit

Complete device included:

Basic manually operated circuit breaker with front connectors and micrologic control unit.

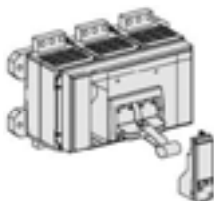


Compact NS type N (Icu = 85/70kA at 220/415V)		
Rating	3P	4P
NS1600b	34000M2A	34003M2A
NS2000	34006M2A	34009M2A
NS2500	34012M2A	34015M2A
NS3200	34018M2A	34021M2A
Compact NS type H (Icu = 125/85kA at 220/415V)		
Rating	3P	4P
NS1600b	34001M2A	34004M2A
NS2000	34007M2A	34010M2A
NS2500	34013M2A	34016M2A
NS3200	34019M2A	34022M2A

Front connected circuit breaker with Micrologic 5.0A control unit

Complete device included:

Basic manually operated circuit breaker with front connectors and micrologic control unit.



Compact NS type N (Icu = 85/70kA at 220/415V)		
Rating	3P	4P
NS1600b	34000M5A	34003M5A
NS2000	34006M5A	34009M5A
NS2500	34012M5A	34015M5A
NS3200	34018M5A	34021M5A
Compact NS type H (Icu = 125/85kA at 220/415V)		
Rating	3P	4P
NS1600b	34001M5A	34004M5A
NS2000	34007M5A	34010M5A
NS2500	34013M5A	34016M5A
NS3200	34019M5A	34022M5A

Note: connection accessories, device accessories and auxiliaries, control-unit accessories and communications option may be selected separately.

Upgrade options for Micrologic control units

Price adder to circuit breaker fitted with Micrologic 2.0A control unit

Micrologic 6.0 A	selective + earth-fault protection
Micrologic 7.0 A	selective + earth-leakage protection

Optional vertical connection adaptor

1600/2500 A	3P (3 parts)	33975
	4P (4 parts)	33976

Note: Vertical connections is standard for 3200 A.

Electrical auxiliaries

Indication contacts


	6 A - 240 V	Low level
OF, ON/OFF indication contacts	33108	33109

Up to 3 OF, 1 SD and 1 SDE can be connected.

Instantaneous voltage releases (2)



Voltage	MX (shunt)	MN (undervoltage)	MN delay unit (1)(2)	
			R (non-adjustable)	Rr (adjustable)
12 V DC	33658			
24-30 V AC/DC	33659	33668		
48-60 V AC/DC	33660	33669		33680
100-130 V AC/DC	33661	33670	33684	33681
200-250 V AC/DC	33662	33671	33685	33682
240-277 V AC	33663			
380-480 V AC	33664	33673		33683

(1) Must be used with instantaneous voltage release (MN)

(2) Discount code 12 applies

Locking

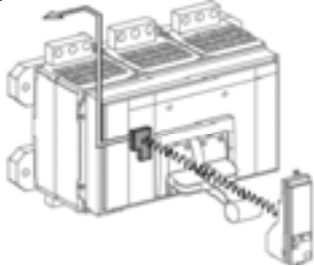
Removable toggle locking system


Locking by 3 padlocks	33996
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Fixed toggle locking system


Locking by 3 padlocks	32631
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Communications option



Modbus COM	33986
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Accessories for Micrologic control units

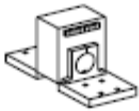
Long-time rating plug (enhanced accuracy by limiting the setting range)



Standard (1)	0.4 to 1 x I _r	33542
Low setting	0.4 to 0.8 x I _r	33543
High setting	0.8 to 1 x I _r	33544
Without long-time protection	OFF	33545

External sensors

External sensor for neutral + earth-fault protection (TCE)



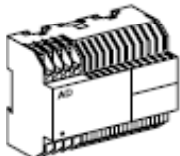
CT rating: 1000/4000 A	34036
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Source ground return (SGR) earth fault protection



External sensor (SGR)	33579
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External power supply module (AD) (1)



24-30 V DC	54440
48-60 V DC	54441
100-125 V DC	54442
110-130 V AC	54443
200-240 V AC	54444
380-415 V AC	54445

Test equipment

Mini test kit



Hand held test kit (HHTK)	33594
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Installation accessories

Escutcheon



	33929
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Interphase barriers (3 parts)



	33998
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(1) Discount code 12 applies.

EZC100N/H 1P/2P

Circuit breaker

B

EasyPact EZC100N 1P 18 kA 220/240 V

With thermal magnetic trip unit



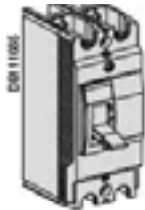
Rating	1P 1t
15 A	EZC100N1015
20 A	EZC100N1020
25 A	EZC100N1025
30 A	EZC100N1030
40 A	EZC100N1040
50 A	EZC100N1050
60 A	EZC100N1060
75 A	EZC100N1075
80 A	EZC100N1080
100 A	EZC100N1100

EasyPact EZC100H 1P 25 kA - 2P 50 kA 220/240 V

With thermal magnetic trip unit



1P

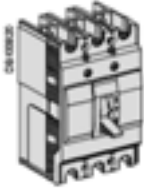


2P

Rating	1P 1t	2P 2t
15 A	EZC100H1015	EZC100H2015
20 A	EZC100H1020	EZC100H2020
25 A	EZC100H1025	EZC100H2025
30 A	EZC100H1030	EZC100H2030
40 A	EZC100H1040	EZC100H2040
50 A	EZC100H1050	EZC100H2050
60 A	EZC100H1060	EZC100H2060
75 A	EZC100H1075	EZC100H2075
80 A	EZC100H1080	EZC100H2080
100 A	EZC100H1100	EZC100H2100

EasyPact EZC100B 3P 7.5 kA 400/415 V

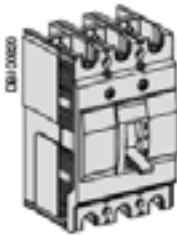
With thermal magnetic trip unit



Rating	3P 3t
15 A	EZC100B3015
20 A	EZC100B3020
25 A	EZC100B3025
30 A	EZC100B3030
40 A	EZC100B3040
50 A	EZC100B3050
60 A	EZC100B3060

EasyPact EZC100F 3P 10 kA 400/415 V

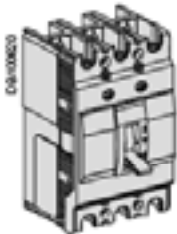
With thermal magnetic trip unit



Rating	3P 3t
15 A	EZC100F3015
20 A	EZC100F3020
25 A	EZC100F3025
30 A	EZC100F3030
40 A	EZC100F3040
50 A	EZC100F3050
60 A	EZC100F3060
75 A	EZC100F3075
80 A	EZC100F3080
100 A	EZC100F3100

EasyPact EZC100N 3P/4P 15 kA 400/415 V

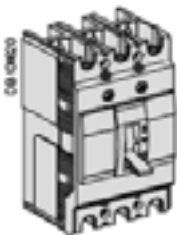
With thermal magnetic trip unit



Rating	3P 3t	4P 3t
15 A	EZC100N3015	EZC100N4015
20 A	EZC100N3020	EZC100N4020
25 A	EZC100N3025	EZC100N4025
30 A	EZC100N3030	EZC100N4030
40 A	EZC100N3040	EZC100N4040
50 A	EZC100N3050	EZC100N4050
60 A	EZC100N3060	EZC100N4060
75 A	EZC100N3075	EZC100N4075
80 A	EZC100N3080	EZC100N4080
100 A	EZC100N3100	EZC100N4100

EasyPact EZC100H 3P/4P 30 kA 400/415 V

With thermal magnetic trip unit





Rating	3P 3t	4P 3t
15 A	EZC100H3015	EZC100H4015
20 A	EZC100H3020	EZC100H4020
25 A	EZC100H3025	EZC100H4025
30 A	EZC100H3030	EZC100H4030
40 A	EZC100H3040	EZC100H4040
50 A	EZC100H3050	EZC100H4050
60 A	EZC100H3060	EZC100H4060
75 A	EZC100H3075	EZC100H4075
80 A	EZC100H3080	EZC100H4080
100 A	EZC100H3100	EZC100H4100

Connection accessories


Plug-in base and Fishbone accessories

		Reference
Plug-in base 3P	15-50A	EZAPLUG3L
	60-100A	EZAPLUG3H
Fishbone connectors	Set of 3	EZAFSHB3


Cable lugs

		Reference	
 DB100821	≤ 50 A Cables from 2.5 to 16 mm ²	Set of 2	EZALUG0502
		Set of 3	EZALUG0503
 DB100822	> 50 A Cables from 10 to 50 mm ²	Set of 2	EZALUG1002
		Set of 3	EZALUG1003

Spreader

		Reference	
 DB100823	Spreaders for 3-pole breaker	set of 3	EZASPDR3P
	Spreaders for 4-pole breaker	set of 4	EZASPDR4P

Terminal shield




		Reference	
 DB100824	Terminal shield for 3-pole breaker	Set of 2	EZATSHD3P
	Terminal shield for 4-pole breaker	Set of 2	EZATSHD4P

Phase barriers

		Reference	
 DB100826	Phase barriers	Set of 2	EZAFASB2

EasyPact EZC100

Indication contacts

		Reference
 DB100827	Auxiliary switch (AX)	EZAUX10
 DB100828	Alarm switch (AL)	EZAUX01
 DB100829	Auxiliary switch/Alarm switch (AX/AL)	EZAUX11

Electrical auxiliaries (cont.)

Voltage releases



Shunt trip (SHT)

	Voltage	MX/SHT
AC	100-130 V	EZASHT100AC
	200-277 V	EZASHT200AC
	380-480 V	EZASHT380AC
DC	24 V	EZASHT024DC
	48 V	EZASHT048DC



Under voltage release (UVR)

	Voltage	MN/UVR
AC	110-130 V	EZAUVR110AC
	200-240 V	EZAUVR200AC
	380-415 V	EZAUVR380AC
	440-480 V	EZAUVR440AC
DC	24 V	EZAUVR024DC
	48 V	EZAUVR048DC
	125 V	EZAUVR125DC

Rotary handles

Direct rotary handle (for 3 pole breaker)



	Reference
Direct rotary handle (black)	EZAROTDS

Extended rotary handle (for 3 pole breaker)



	Reference
Extended rotary handle (black)	EZAROTE

Locks

Padlocking system



	Reference
Padlocking system	EZALOCK

Installation accessory

Din rail adaptor

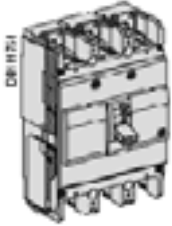


	Reference
For 2 x 1 pole or 1 x 2 pole or 1 x 3 pole breaker Note: for 4P breaker, use 2 adaptors	EZADINR

B

EasyPact EZC250F 3P 18 kA 400/415 V

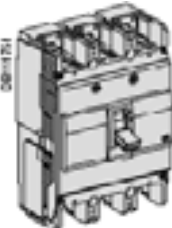
With thermal magnetic trip unit



Rating	3P 3t
100 A	EZC250F3100
125 A	EZC250F3125
150 A	EZC250F3150
160 A	EZC250F3160
175 A	EZC250F3175
200 A	EZC250F3200
225 A	EZC250F3225
250 A	EZC250F3250

EasyPact EZC250N 3P 25 kA 400/415 V

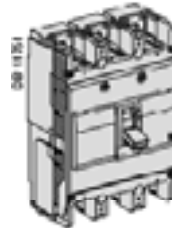
With thermal magnetic trip unit



Rating	3P 3t
100 A	EZC250N3100
125 A	EZC250N3125
150 A	EZC250N3150
160 A	EZC250N3160
175 A	EZC250N3175
200 A	EZC250N3200
225 A	EZC250N3225
250 A	EZC250N3250

EasyPact EZC250H 2/3P 36 kA 400/415 V

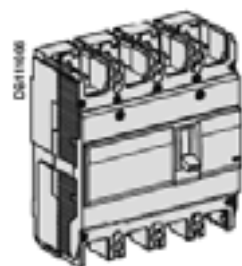
With thermal magnetic trip unit



Rating	2P 2t	3P 3t
100 A	EZC250H2100	EZC250H3100
125 A	EZC250H2125	EZC250H3125
150 A	EZC250H2150	EZC250H3150
160 A	EZC250H2160	EZC250H3160
175 A	EZC250H2175	EZC250H3175
200 A	EZC250H2200	EZC250H3200
225 A	EZC250H2225	EZC250H3225
250 A	EZC250H2250	EZC250H3250

EasyPact EZC250N 4P 25 kA 400/415 V

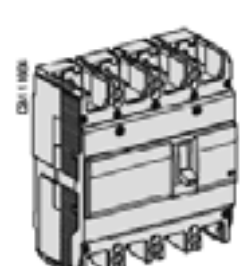
With thermal magnetic trip unit



Rating	4P 3t
63A	EZC250N4063
80A	EZC250N4080
100 A	EZC250N4100
125 A	EZC250N4125
150 A	EZC250N4150
160 A	EZC250N4160
175 A	EZC250N4175
200 A	EZC250N4200
225 A	EZC250N4225
250 A	EZC250N4250

EasyPact EZC250H 4P 36 kA 400/415 V

With thermal magnetic trip unit

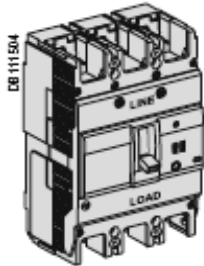


Rating	4P 3t
63A	EZC250H4063
80A	EZC250H4080
100 A	EZC250H4100
125 A	EZC250H4125
150 A	EZC250H4150
160 A	EZC250H4160
175 A	EZC250H4175
200 A	EZC250H4200
225 A	EZC250H4225
250 A	EZC250H4250



EasyPact EZCV250N 3P 25 kA 400/415 V

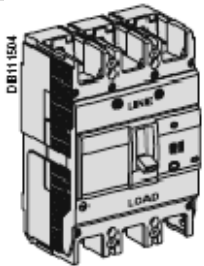
With thermal magnetic trip unit earth leakage protection



Rating	3P 3t
63A	EZCV250N3063
80A	EZCV250N3080
100 A	EZCV250N3100
125 A	EZCV250N3125
150 A	EZCV250N3150
160 A	EZCV250N3160
175 A	EZCV250N3175
200 A	EZCV250N3200
225 A	EZCV250N3225
250 A	EZCV250N3250

EasyPact EZCV250H 3P 36 kA 400/415 V

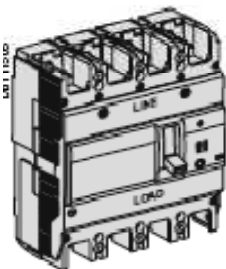
With thermal magnetic trip unit earth leakage protection



Rating	3P 3t
63A	EZCV250H3063
80A	EZCV250H3080
100 A	EZCV250H3100
125 A	EZCV250H3125
150 A	EZCV250H3150
160 A	EZCV250H3160
175 A	EZCV250H3175
200 A	EZCV250H3200
225 A	EZCV250H3225
250 A	EZCV250H3250

EasyPact EZCV250N 4P 25 kA 400/415 V

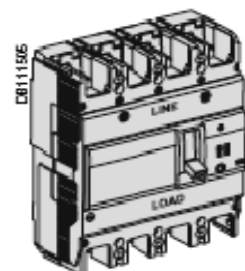
With thermal magnetic trip unit earth leakage protection



Rating	4P 3t
63A	EZCV250N4063
80A	EZCV250N4080
100 A	EZCV250N4100
125 A	EZCV250N4125
150 A	EZCV250N4150
160 A	EZCV250N4160
175 A	EZCV250N4175
200 A	EZCV250N4200
225 A	EZCV250N4225
250 A	EZCV250N4250

EasyPact EZCV250H 4P 36 kA 400/415 V

With thermal magnetic trip unit earth leakage protection



Rating	4P 3t
63A	EZCV250H4063
80A	EZCV250H4080
100 A	EZCV250H4100
125 A	EZCV250H4125
150 A	EZCV250H4150
160 A	EZCV250H4160
175 A	EZCV250H4175
200 A	EZCV250H4200
225 A	EZCV250H4225
250 A	EZCV250H4250

Connection accessories

Plug-in base and Fishbone accessories

		Reference
Plug-in base 3P	15-50A	EZEPLUG3L

Cable lugs



		Reference
250 A	Set of 3	EZELUG2503
Cables from 42 to 152 mm ²	Set of 4	EZELUG2504

Terminal extension



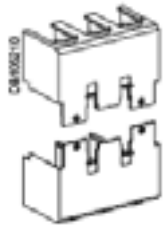
		Reference
Terminal extension for 3-pole breaker	Set of 3	EZETEX
Terminal extension for 4-pole breaker	Set of 4	EZETEX4P

Spreader



		Reference
Spreaders for 3-pole breaker	Set of 3	EZESPDR3P
Spreaders for 4-pole breaker	Set of 4	EZESPDR4P

Terminal shield



		Reference
Terminal shield for 3-pole breaker (60mm depth)	Set of 2	EZETSHD3P
Terminal shield for 3-pole breaker (68mm depth)	Set of 2	EZETSHD3PN
Terminal shield for 4-pole breaker (68mm depth)	Set of 2	EZETSHD4PN

Phase barriers



		Reference
Phase barriers for 60mm depth	Set of 2	EZEFASB2
Phase barriers for 68mm depth	Set of 3	EZEFASB3N

Electrical auxiliaries

Indication contacts



	Reference
Auxiliary switch (AX)	EZEAX



Alarm switch (AL)	EZEAL
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Auxiliary switch/Alarm switch (AX/AL)	EZEAXAL
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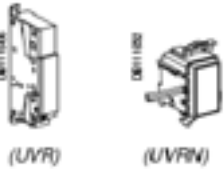


Earth-leakage alarm switch (ALV) (only for EZCV250)	EZEALV
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Electrical auxiliaries (cont.)


Voltage releases

		Voltage	MX/SHT	
 <p>Shunt trip (SHT)</p>	AC	100-120 V	EZESHT100AC	
		120-130 V	EZESHT120AC	
		200-240 V	EZESHT200AC	
		277 V	EZESHT277AC	
		380-440 V	EZESHT400AC	
		440-480 V	EZESHT440AC	
		DC	24 V	EZESHT024DC
	48 V	EZESHT048DC		
		Voltage	MN/UVR	MN/UVR (1)
 <p>(UVR) (UVRN)</p> <p>Under voltage release</p>	AC	110-130 V	EZEUVR110AC	EZEUVRN110AC
		200-240 V	EZEUVR200AC	EZEUVRN200AC
		277 V	EZEUVR277AC	EZEUVRN277AC
		380-415 V	EZEUVR400AC	EZEUVRN400AC
		440-480 V	EZEUVR440AC	EZEUVRN440AC
	DC	24 V	EZEUVR024DC	EZEUVRN024DC
		48 V	EZEUVR048DC	EZEUVRN048DC
	125 V	EZEUVR125DC	EZEUVRN125DC	

(1) Only EZC250-4P and EZCV250-3/4P.

Rotary handles

Direct rotary handle


		Reference
 <p>Direct rotary handle (black)</p>		EZEROTDS

Extended rotary handle

		Reference
 <p>Extended rotary handle (black)</p>		EZEROTE

Locks

Padlocking system

		Reference
	Padlocking system for EZC250-3P	EZELOCK
	Padlocking system for EZC250-4P and EZCV250-3/4P	EZELOCKN

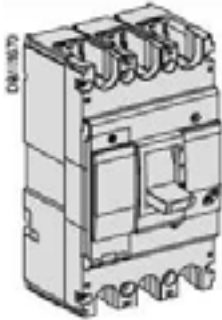
EZC400N/H 3P/4P

Circuit breaker

B

EasyPact EZC400N 3P 36 kA 400/415 V

With thermal magnetic trip unit



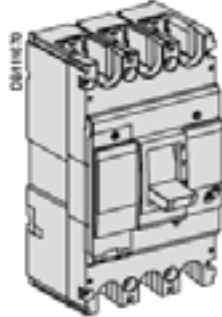
Rating	3P 3t
250A	EZC400N3250
300A	EZC400N3300
320A	EZC400N3320
350A	EZC400N3350
400A	EZC400N3400

With 70mm spreader

250A	EZC400N3250SPDR
300A	EZC400N3300SPDR
320A	EZC400N3320SPDR
350A	EZC400N3350SPDR
400A	EZC400N3400SPDR

EasyPact EZC400H 3P 50 kA 400/415 V

With thermal magnetic trip unit



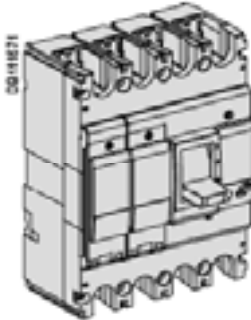
Rating	3P 3t
250A	EZC400H3250
300A	EZC400H3300
320A	EZC400H3320
350A	EZC400H3350
400A	EZC400H3400

With 70mm spreader

250A	EZC400H3250SPDR
300A	EZC400H3300SPDR
320A	EZC400H3320SPDR
350A	EZC400H3350SPDR
400A	EZC400H3400SPDR

EasyPact EZC400N 4P 36 kA 400/415 V

With thermal magnetic trip unit



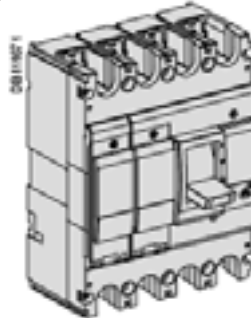
Rating	4P 3t
250A	EZC400N4250
300A	EZC400N4300
320A	EZC400N4320
350A	EZC400N4350
400A	EZC400N4400

With 70mm spreader

250A	EZC400N4250SPDR
300A	EZC400N4300SPDR
320A	EZC400N4320SPDR
350A	EZC400N4350SPDR
400A	EZC400N4400SPDR

EasyPact EZC400H 4P 50 kA 400/415 V

With thermal magnetic trip unit



Rating	4P 3t
250A	EZC400H4250
300A	EZC400H4300
320A	EZC400H4320
350A	EZC400H4350
400A	EZC400H4400

With 70mm spreader

250A	EZC400H4250SPDR
300A	EZC400H4300SPDR
320A	EZC400H4320SPDR
350A	EZC400H4350SPDR
400A	EZC400H4400SPDR

Connection accessories

Terminal extension



		Reference
Terminal extension for 3-pole breaker	Set of 3	EZ4TEX3P
Terminal extension for 4-pole breaker	Set of 4	EZ4TEX4P

Spreader



		Reference
Spreader 70mm	For 3-pole breaker	set of 3 EZ4SPDR73P
	For 4-pole breaker	set of 4 EZ4SPDR74P

Terminal shield



		Reference
Terminal shield for 3-pole breaker	Set of 2	EZ4TSHD3P
Terminal shield for 4-pole breaker	Set of 2	EZ4TSHD4P

Phase barriers



		Reference
Phase barriers for 3-pole breaker	Set of 2	EZ4FASB2
Phase barriers for 4-pole breaker	Set of 3	EZ4FASB3

Electrical auxiliaries

Indication contacts



		Reference
Signalling switch (auxiliary switch AX or alarm switch AL)		EZ4AUX
Double signalling switch (2 AX or 2 AL)		EZ4AUX2

Voltage releases



Shunt trip (SHT)



Under voltage release (UVR)

MN/SHT	Voltage	Reference
AC	24-48V	EZ4SHT048ACDC
	100-240 V	EZ4SHT200ACDC
	277 V	EZ4SHT277AC
	380-440 V	EZ4SHT400AC
DC	24-48V	EZ4SHT048ACDC
	100-220 V	EZ4SHT200ACDC
MN/UVR	Voltage	Reference
AC	24 V	EZ4UVR024ACDC
	48 V	EZ4UVR048ACDC
	100 - 110 V	EZ4UVR110ACDC
	120 - 130 V	EZ4UVR130ACDC
	200 - 240 V	EZ4UVR200AC
	277 V	EZ4UVR277AC
DC	380-480 V	EZ4UVR400AC
	24 V	EZ4UVR024ACDC
	48 V	EZ4UVR048ACDC
	125 V	EZ4UVR130ACDC

B

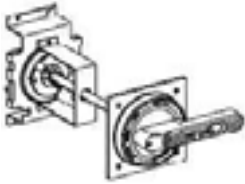
Rotary handles

Direct rotary handle



	Reference
Direct rotary handle	EZ4ROTDS

Extended rotary handle



	Reference
Extended rotary handle	EZ4ROTE

Locks

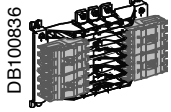
Padlocking system



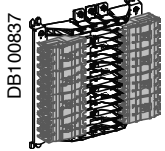
	Reference
Padlocking system	EZ4LOCK

Main Busbar

Main Busbar (for EasyPact EZC100 outgoing MCCBs)



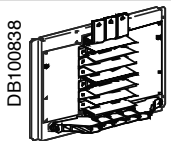
4 ways (3-pole)



8 ways (3-pole)

nos. of ways	250 A	400 A	630 A
4	EZB250W04	EZB400W04	EZB630W04
6	EZB250W06	EZB400W06	EZB630W06
8	EZB250W08	EZB400W08	EZB630W08
10	EZB250W10	EZB400W10	EZB630W10
12	EZB250W12	EZB400W12	EZB630W12

Compact NS/NB branch extension

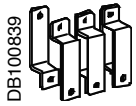


4 ways (3-pole)

nos. of ways	Reference
2	EZBNS2
4	EZBNS4

Main incoming connections

Main connectors



	250 A	400 A	630 A
To connect the main incomer to EasyPact busbar (Compact NS/NB or INS switch)	EZB250MCNS	EZB400MCNS	EZB630MCNS

Mechanical lugs



	250 A	400 A	630 A
Incoming cable size	16-150 mm ²	35-300 mm ²	25-240 mm ² 2 cables per phase
Lug kit for bare incoming cables	EZB250MLUG	EZB400MLUG	EZB630MLUG

Connector caps



	Reference
EasyPact branch MCCB	Set of 3 EZB100CAP
Compact NS/NB branch MCCB	Set of 3 EZB250CAP

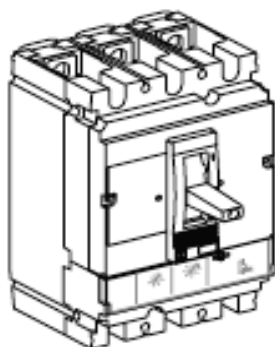
CVS100/160/250B:

complete fixed/FC device

EasyPact CVS 100/160/250B (25 kA 380/415V)

EasyPact CVS 100/160/250B

With TM-D thermal-magnetic trip unit



EasyPact CVS100B (25 kA at 380/415V)

Rating	3P 3d	4P 3d
TM16D	LV510300	LV510310
TM25D	LV510301	LV510311
TM32D	LV510302	LV510312
TM40D	LV510303	LV510313
TM50D	LV510304	LV510314
TM63D	LV510305	LV510315
TM80D	LV510306	LV510316
TM100D	LV510307	LV510317

EasyPact CVS160B (25 kA at 380/415V)

Rating	3P 3d	4P 3d
TM100D	LV516301	LV516311
TM125D	LV516302	LV516312
TM160D	LV516303	LV516313

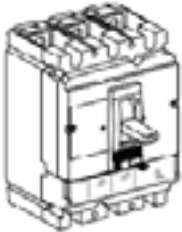
EasyPact CVS250B (25 kA at 380/415V)

Rating	3P 3d	4P 3d
TM160D	LV525301	LV525311
TM200D	LV525302	LV525312
TM250D	LV525303	LV525313

B

EasyPact CVS100/160/250F

With TM-D thermal-magnetic trip unit

**EasyPact CVS100F (36 kA at 380/415V)**

Rating	3P 3d	4P 3d
TM16D	LV510330	LV510340
TM25D	LV510331	LV510341
TM32D	LV510332	LV510342
TM40D	LV510333	LV510343
TM50D	LV510334	LV510344
TM63D	LV510335	LV510345
TM80D	LV510336	LV510346
TM100D	LV510337	LV510347

EasyPact CVS160F (36 kA at 380/415V)

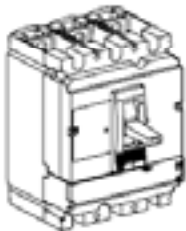
Rating	3P 3d	4P 3d
TM100D	LV516331	LV516341
TM125D	LV516332	LV516342
TM160D	LV516333	LV516343

EasyPact CVS250F (36 kA at 380/415V)

Rating	3P 3d	4P 3d
TM160D	LV525331	LV525341
TM200D	LV525332	LV525342
TM250D	LV525333	LV525343

EasyPact CVS100/160/250 MA

With MA magnetic trip unit

**EasyPact CVS100F (36 kA at 380/415V)**

Rating	3P 3d	
MA2.5	LV510440	
MA6.3	LV510441	
MA12.5	LV510442	
MA25	LV510443	
MA50	LV510444	
MA100	LV510445	

EasyPact CVS160F (36 kA at 380/415V)

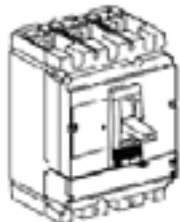
Rating	3P 3d	
MA100	LV516439	
MA150	LV516440	

EasyPact CVS250F (36 kA at 380/415V)

Rating	3P 3d	
MA150	LV525438	
MA220	LV525439	

EasyPact CVS100/160/250NA switch-disconnector

With NA switch-disconnector unit

**EasyPact CVS100NA**

Rating	3P	4P
100	LV510425	LV510426

EasyPact CVS160NA

Rating	3P	4P
160	LV516425	LV516426

EasyPact CVS250NA

Rating	3P	4P
250	LV525425	LV525426

CVS400/630 F/N:

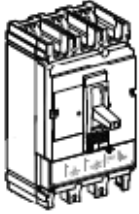
complete fixed/FC device

EasyPact CVS400/630 F/N (36/50kA 380/415V)

B

EasyPact CVS400/630F

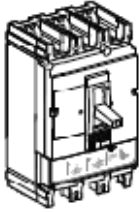
With TM-D thermal-magnetic trip unit



EasyPact CVS400F (36 kA at 380/415V) with 52.5 mm pitch		
Rating	3P 3d	4P 3d
TM320D	LV540305SPDR	LV540308SPDR
TM400D	LV540306SPDR	LV540309SPDR
EasyPact CVS630F (36 kA at 380/415V) with 70 mm pitch		
Rating	3P 3d	4P 3d
TM500D	LV563305SPDR	LV563308SPDR
TM600D	LV563306SPDR	LV563309SPDR

EasyPact CVS400/630N

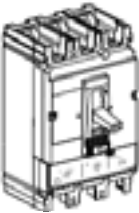
With TM-D thermal-magnetic trip unit



EasyPact CVS400N (50 kA at 380/415V) with 52.5 mm pitch		
Rating	3P 3d	4P 3d
TM320D	LV540315SPDR	LV540318SPDR
TM400D	LV540316SPDR	LV540319SPDR
EasyPact CVS630N (50 kA at 380/415V) with 70 mm pitch		
Rating	3P 3d	4P 3d
TM500D	LV563315SPDR	LV563318SPDR
TM600D	LV563316SPDR	LV563319SPDR

EasyPact CVS400/630 ETS

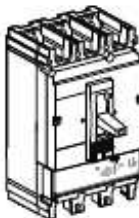
With ETS 2.3 electronic trip unit (LS₀I protection)



EasyPact CVS400/630F (36 kA at 380/415 V) with 52.5/70 mm pitch		
Rating	3P 3d	4P 3d, 4d, 3d + N/2
CVS400F 400A	LV540505SPDR	LV540506SPDR
CVS630F 630A	LV563505SPDR	LV563506SPDR
EasyPact CVS400/630N (50 kA at 380/415 V) with 52.5/70 mm pitch		
Rating	3P 3d	4P 3d, 4d, 3d + N/2
CVS400N 400A	LV540510SPDR	LV540511SPDR
CVS630N 630A	LV563510SPDR	LV563511SPDR

EasyPact CVS400/630 MA

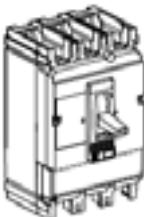
With MA thermal-magnetic trip unit



EasyPact CVS400F (36 kA at 380/415V) with 52.5 mm pitch		
Rating	3P 3d	
MA320	LV540550SPDR	
EasyPact CVS400N (50 kA at 380/415V) with 52.5 mm pitch		
Rating	3P 3d	
MA320	LV540552SPDR	
EasyPact CVS630F (36 kA at 380/415V) with 70 mm pitch		
Rating	3P 3d	
MA500	LV563550SPDR	
EasyPact CVS630N (50 kA at 380/415V) with 70 mm pitch		
Rating	3P 3d	
MA500	LV563552SPDR	

EasyPact CVS400/630 NA switch-disconnector

With NA switch-disconnector unit



EasyPact CVS400NA with 52.5 mm pitch		
Rating	3P	4P
400A	LV540400SPDR	LV540401SPDR
EasyPact CVS630NA with 70 mm pitch		
Rating	3P	4P
630A	LV563400SPDR	LV563401SPDR

Source-changeover: price list

Source-changeover systems

Compact NSX100 to 630 C1
Circuit breakers and switch-disconnectors

Compact NS630b to NS1600 C2
Circuit breakers and switch-disconnectors

Masterpact NT C3
Circuit breakers and switch-disconnectors

Masterpact NW C4
Circuit breakers C5
Switch-disconnectors

Order Form for Source-changeover systems for 2 devices

Compact NS630b to NS1600 C6
Masterpact NT or NW C7

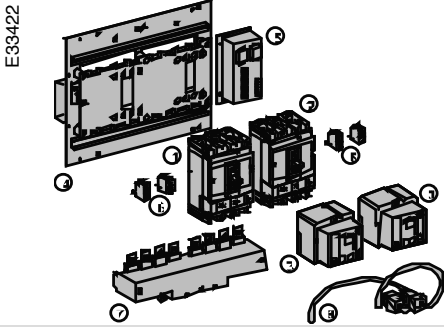
C

Source-changeover systems for 2 devices

Compact NSX100 to 630

Typical composition of source changeover for Compact NSX100 to 630

Remote controlled source changeover



Complete assembly consists of below components only:

- 1 normal device N (1) breaker
- + 1 replacement device R (2)
- + 2 remote controls (motor mechanism module (3) 220-240V/50Hz
- + 1 plate with interlocking (4) with IVE (5) and its wiring (8)
- + auxiliary switches (6) 2 x (1 OF + 1 SDE) for Compact NSX100...630
- + Shunt trip for Compact NSX 100...630 220-240V/50Hz

IVE voltages and remote controls are identical.

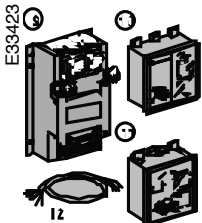
Complete assembly (1)

		NSX...F (36kA at 415Vac)		NSX...N (50kA at 415Vac)		NSX...H (70kA at 415Vac)	
		3P 3d	4P 4d	3P 3d	4P 4d	3P 3d	4P 4d
100A	TM100D						
160A	TM160D						
250A	TM250D						
400A	Micrologic 2.3						
630A	Micrologic 2.3						

		NA type	
		3P 3d	4P 4d
100A	100		
160A	160		
250A	250		
400A	400		
630A	630		

(1) Others Compact NSX100 to 630 breakers, please consult our CustomerCare Centre or your respective Sales Office.

Associated control unit



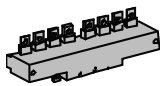
- 1 source changeover without associated control unit
- + 1 ACP (9) with BA control unit (10)
- Or + 1 ACP (9) with UA control unit (11)
- Or + 1 ACP (9) with UA150 control unit (11)

Control unit option	220/240 V AC 50/60 Hz	380/415 V AC 50/60 Hz
ACP + control unit BA (2)	29470	29471
ACP + control unit UA (2)	29472	29473

(2) The supply voltages BA/UA control unit, ACP plate, IVE and the remote control must be identical whatever the source changeover type.

Connection accessories

Downstream coupling accessories option



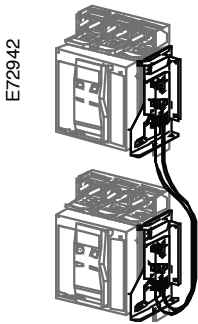
Source "normal"/source "replacement"		3P	4P
NSX100...250/NSX100...250	250 A	29358	29359
NSX400...630/NSX400...630	630 A	32619	32620

Source-changeover systems for 2 devices (cont...)

Compact NS630b to 1600

Typical composition of source changeover for Compact NS630b to 1600

Interlocking using cables for Compact motorised devices



- 1 normal motorised breaker with Micrologic 2.0A control unit or switch-disconnector
- + 1 replacement motorised breaker with Micrologic 2.0A control unit or switch-disconnector
- + Interlocking using cables for Compact motorised devices
- + auxiliary switches
- 2 x (1 OF + 1 SDE) for Compact NS630b...1600

Additional equipped for drawout:

- + connected position changeover contact (carriage switch) on each devices

Price includes motorised mechanism. Select the reference number from the respective devices.

Complete assembly (1)

		Fixed		Drawout	
		3 pole	4 pole	3 pole	4 pole
N Type 50kA at 220/415Vac					
With Compact NS630bN	630 - 630				
With Compact NS800N	800 - 800				
With Compact NS1000N	1000 - 1000				
With Compact NS1250N	1250 - 1250				
With Compact NS1600N	1600 - 1600				
H Type 70kA at 220/415Vac					
With Compact NS630bH	630 - 630				
With Compact NS800H	800 - 800				
With Compact NS1000H	1000 - 1000				
With Compact NS1250H	1250 - 1250				
With Compact NS1600H	1600 - 1600				
L Type 150kA at 220/415Vac					
With Compact NS630bL	630 - 630				
With Compact NS800L	800 - 800				
With Compact NS1000L	1000 - 1000				
NA Type switch-disconnector					
With Compact NS630bNA	630 - 630				
With Compact NS800NA	800 - 800				
With Compact NS1000NA	1000 - 1000				
With Compact NS1250NA	1250 - 1250				
With Compact NS1600NA	1600 - 1600				

(1) Others Compact NS630b to 1600 breakers, please consult our CustomerCare Centre or your respective Sales Office.

C

Source-changeover systems for 2 devices (cont.)

Masterpact NT and switch-disconnectors

Typical composition of source changeover for Masterpact NT

Interlocking using cables (*)

1 normal breaker with Micrologic 2.0A control unit or switch-disconnector
 + 1 replacement breaker with Micrologic 2.0A control unit or switch-disconnector
 + Interlocking using cables for Masterpact NT devices
 + auxiliary switches
 2 x (4 OF + 1 SDE) for each devices
 + Electrical operating mechanism with gear motor, shunt trip, closing coil and ready to close contact (MCH + MX + XF + PF) on each devices.

Additional equipped for drawout:

+ chassis with safety shutters
 + arc chute cover
 + door frame
 + disconnected position locking (padlock excluded. VCPO standard)
 + connected and disconnected position changeover contact (carriage switch) on each devices

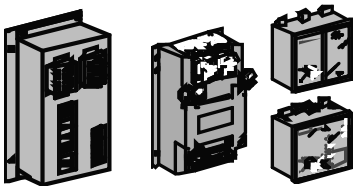
(*) Can be used with any combination of NT or NW, fixed or drawout devices.

Complete assembly

	In (A at 40°C)	Icu (kA @ 220/415V)	Icw (1sec)	Fixed		Drawout	
				3P	4P	3P	4P
Type H1							
NT06	630	42	42				
NT08	800	42	42				
NT10	1000	42	42				
NT12	1250	42	42				
NT16	1600	42	42				

	In (A at 40°C)	Icm (kA @ 220/440V)	Icw (1sec)	Fixed		Drawout	
				3P	4P	3P	4P
Type HA							
NT06	630	75	36				
NT08	800	75	36				
NT10	1000	75	36				
NT12	1250	75	36				
NT16	1600	75	36				

Source changeover associated controller



The automatic-control option includes:

- an IVE electrical-interlocking unit
- an ACP auxiliaries control plate
- a BA or UA controller, depending on the required functions
- a UA/BA adapter kit.

Note: the circuit breaker auxiliaries (MCH, MX, XF) and the automatic-control components (IVE, ACP, UA or BA) must have the same voltages.

IVE electrical-interlocking unit	48/415 V AC 50/60 Hz
for 2 devices	29352
wiring kit for connection of 2 fixed/drawout devices to the IVE unit	54655

Control unit option (1)	220/240 V AC 50/60 Hz	380/415 V AC 50/60 Hz
ACP + control unit BA	29470	29471
ACP + control unit UA	29472	29473

(1) The supply voltages of the BA/UA controller, ACP plate, IVE unit and circuit breaker operating mechanism must be identical whatever the type of source-changeover system.

(2) Discount code 10 applies

Source-changeover systems for 2 devices (cont.)

Masterpact NW circuit breakers

Typical composition of source changeover for Masterpact NW

Interlocking using cables (*)

- 1 normal Masterpact NW breaker with Micrologic 2.0A control unit
- + 1 replacement Masterpact NW breaker with Micrologic 2.0A control unit
- Horizontal connections for both top and bottom (NW63 has vertical connection option only)
- + Interlocking using cables for Masterpact NW devices
- + auxiliary switches 2 x (4 OF + 1 SDE) for each devices
- + Electrical operating mechanism with gear motor, shunt trip, closing coil and ready to close contact (MCH + MX + XF + PF) on each devices.

Additional equipped for drawout:

- + chassis with safety shutters
- + arc chute cover
- + door frame
- + disconnected position locking (padlock excluded VCPO standard)
- + connected and disconnected position changeover contact (carriage switch) on each devices

(*) Can be used with any combination of NT or NW, fixed or drawout devices.

Complete assembly

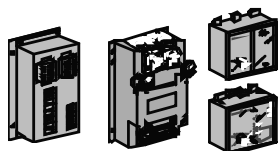
	In (A at 40°C)	Icu/lcs (kA @ 220/415V)			Fixed		Drawout	
		lcv (1sec)	lcv (3sec)		3P	4P	3P	4P
Type N1								
NW08	800	42	42	22				
NW10	1000	42	42	22				
NW12	1250	42	42	22				
NW16	1600	42	42	22				
Type H1								
NW08	800	65	65	36				
NW10	1000	65	65	36				
NW12	1250	65	65	36				
NW16	1600	65	65	36				
NW20	2000	65	65	36				
NW25	2500	65	65	65				
NW32	3200	65	65	65				
NW40	4000	65	65	65				
NW40b	4000	100	100	100				
NW50	5000	100	100	100				
NW63	6300	100	100	100				
Type H2								
NW08	800	100	85	50				
NW10	1000	100	85	50				
NW12	1250	100	85	50				
NW16	1600	100	85	50				
NW20	2000	100	85	75				
NW25	2500	100	85	75				
NW32	3200	100	85	75				
NW40	4000	100	85	75				
NW40b	4000	150	100	100				
NW50	5000	150	100	100				
NW63	6300	150	100	100				

Source changeover associated controller

The automatic-control option includes:

- an IVE electrical-interlocking unit
- an ACP auxiliaries control plate
- a BA or UA controller, depending on the required functions
- a UA/BA adapter kit.

Note: the circuit breaker auxiliaries (MCH, MX, XF) and the automatic-control components (IVE, ACP, UA or BA) must have the same voltages.



IVE electrical-interlocking unit	48/415 V AC 50/60 Hz
for 2 devices	29352
wiring kit for connection of 2 fixed/drawout devices to the IVE unit	54655
Control unit option (1)	
220/240 V AC 50/60 Hz	380/415 V AC 50/60 Hz
ACP + control unit BA	29470
ACP + control unit UA	29472
	29471
	29473

(1) The supply voltages of the BA/UA controller, ACP plate, IVE unit and circuit breaker operating mechanism must be identical whatever the type of source-changeover system.

Source-changeover systems for 2 devices (cont.)

Masterpact switch-disconnectors

Typical composition of source changeover for Masterpact NW Interlocking using cables (*)

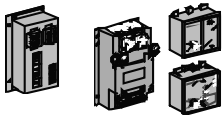
- 1 normal Masterpact NW switch-disconnector
- + 1 replacement Masterpact NW switch-disconnector
- + Interlocking using cables for Masterpact NW devices
- + auxiliary switches
- 2 x (4 OF + 1 SDE) for each devices
- + Electrical operating mechanism with gear motor, shunt trip, closing coil and ready to close contact (MCH + MX + XF + PF) on each devices.
- Additional equipped for drawout:**
- + chassis with safety shutters
- + arc chute cover
- + door frame
- + disconnected position locking (padlock excluded VCPO standard)
- + connected and disconnected position changeover contact (carriage switch) on each devices

(*) Can be used with any combination of NT or NW, fixed or drawout devices.

Masterpact NW switch-disconnectors complete assembly

Type	In (A at 40°C)	Icu/Ics (kA)			Fixed		Drawout	
		@ 220/415V	Icw (1sec)	Icw (3sec)	3P	4P	3P	4P
Type NA								
NW08	800	88	42	-				
NW10	1000	88	42	-				
NW12	1250	88	42	-				
NW16	1600	88	42	-				
Type HA								
NW08	800	105	50	36				
NW10	1000	105	50	36				
NW12	1250	105	50	36				
NW16	1600	105	50	36				
NW20	2000	105	50	36				
NW25	2500	135	55	55				
NW32	3200	135	55	55				
NW40	4000	135	55	55				
NW40b	4000	187	85	85				
NW50	5000	187	85	85				
NW63	6300	187	85	85				
Type HF								
NW08	800	187	85	75				
NW10	1000	187	85	75				
NW12	1250	187	85	75				
NW16	1600	187	85	75				
NW20	2000	187	85	75				
NW25	2500	187	85	75				
NW32	3200	187	85	75				
NW40	4000	187	85	75				

Source changeover associated controller



The automatic-control option includes:

- an IVE electrical-interlocking unit
- an ACP auxiliaries control plate
- a BA or UA controller, depending on the required functions
- a UA/BA adapter kit.

Note: the circuit breaker auxiliaries (MCH, MX, XF) and the automatic-control components (IVE, ACP, UA or BA) must have the same voltages.

IVE electrical-interlocking unit	48/415 V AC 50/60 Hz
for 2 devices	29352
wiring kit for connection of 2 fixed/drawout devices to the IVE unit	54655
Control unit option (1)	220/240 V AC 50/60 Hz
ACP + control unit BA (1)(2)	29470
ACP + control unit UA (1)(2)	29472
	380/415 V AC 50/60 Hz
	29471
	29473

(1) The supply voltages of the BA/UA controller, ACP plate, IVE unit and circuit breaker operating mechanism must be identical whatever the type of source-changeover system.

(2) Discount code 10 applies

Order form

Source-changeover systems for 2 devices

Compact NS630b to NS1600

To indicate your choices, check the applicable square boxes and enter the appropriate information in the rectangles

(one sheet per device, make copies if necessary)

Device identification:

Q1 - NORMAL SOURCE (TOP DEVICE)

Q2 - REPLACEMENT SOURCE (MIDDLE/ BOTTOM)

Basic device Quantity

Compact NS	NS630b	<input type="text"/>
	NS800	<input type="text"/>
	NS1000	<input type="text"/>
	NS1250	<input type="text"/>
	NS1600	<input type="text"/>

Ampere rating **A**

Circuit breaker type N
H
L
NA

Number of poles **3 or 4**

Type of device Fixed
Drawout w/chassis

Connection

Horizontal	Top	<input type="checkbox"/>	Bottom	<input type="checkbox"/>
	Bottom	<input type="checkbox"/>		<input type="checkbox"/>
Vertical	Top	<input type="checkbox"/>	Bottom	<input type="checkbox"/>
	Bottom	<input type="checkbox"/>		<input type="checkbox"/>
Front	Top	<input type="checkbox"/>	Bottom	<input type="checkbox"/>
	Bottom	<input type="checkbox"/>		<input type="checkbox"/>

Micrologic control unit

Basic protection

2.0 5.0

A - ammeter

2.0A 5.0A 6.0A 7.0A

LT - long time rating plug (standard setting 0.4 to 1 x Ir)

Low setting option 0.4 to 0.8 Ir

High setting option 0.8 to 1 Ir

LT OFF option

Power supply option

AD - external power supply module **V**

BAT - battery module

Communication

COM module Modbus
Modbus Eco
Digipact

Interlocking for ATS

Type of link Cables
Rods

Interlocks Mechanical
Mechanical + Electrical

Mechanical + Electrical

Controller Without
IVE
IVE + BA
IVE + UA
IVE + UA 150

Interlocking voltage **V**

Type of control

Control safety/motor mechanism

MCH - Motor mechanism (standard) **V**

MX - Shunt release **V**

MN - Undervoltage release **V**

NS device indication

OF - ON/OFF indication contacts (max. 4)

1 standard Std 1 low level

2 standard 2 low level

3 standard

SDE fault-trip indication (Max. 1)

1 standard Std

Chassis indication

Connected-position contact (Max. 4)

1 standard Std 1 low level

2 standard 2 low level

3 standard

Disconnected-position contact (Max. 2)

1 standard 1 low level

2 standard 2 low level

Test-position contact (Max. 1)

1 standard 1 low level

Locking

Device locking

Pushbutton locking (by screens/padlocks)

by padlocks

by padlock+keylocks **Padlocks + 1 keylock** Profalux Ronis

Padlocks + 2 keylocks

with 1 key Profalux Ronis

Padlocks + keylock kit

without locks Profalux Ronis

Chassis locking

by padlocks

by padlock+keylocks **Padlocks + 1 keylock** Profalux Ronis

Padlocks + 2 keylocks

Profalux Ronis

Padlocks + 2 keylocks

with 1 key Profalux Ronis

Padlocks + keylock kit

without locks Profalux Ronis

Castell Kirk

Door interlocking

Right Left

Miscellaneous Racking interlock

Mismatch protection

Accessories

Operations counter

Chassis accessory Safety shutters insulated shutters

Cover for aux. terminal blocks

Door accessory Door frame (escutcheon)

Transparent cover

Connection Spreaders Top Bottom

accessories Phase barriers Top Bottom

All adaptation of NS Circuit Breakers Source-changeover are using discount code of 10

Order form

Source-changeover systems for 2 devices

Masterpact NT/NW

To indicate your choices, check the applicable square boxes and enter the appropriate information in the rectangles

(one sheet per device, make copies if necessary)

Device identification:

Q1 - NORMAL SOURCE (TOP DEVICE)

Q2 - REPLACEMENT SOURCE (MIDDLE/ BOTTOM)

Basic device **Quantity**

Masterpact type	NT,	NW
	06 <input type="checkbox"/>	06 <input type="checkbox"/>
	08 <input type="checkbox"/>	08 <input type="checkbox"/>
	10 <input type="checkbox"/>	10 <input type="checkbox"/>
	12 <input type="checkbox"/>	12 <input type="checkbox"/>
	16 <input type="checkbox"/>	16 <input type="checkbox"/>
		20 <input type="checkbox"/>
		25 <input type="checkbox"/>
		32 <input type="checkbox"/>
		40 <input type="checkbox"/>
		40b <input type="checkbox"/>
		50 <input type="checkbox"/>
		63 <input type="checkbox"/>

Sensor rating **A**

Circuit breaker type	NT,	NW
	H1 <input type="checkbox"/>	N1 <input type="checkbox"/>
	H2 <input type="checkbox"/>	H1 <input type="checkbox"/>
	L1 <input type="checkbox"/>	H2 <input type="checkbox"/>
	HA <input type="checkbox"/>	NA <input type="checkbox"/>
	others <input type="checkbox"/>	others <input type="checkbox"/>

Number of poles **3 or 4**

Type of device **Fixed**
Drawout w/chassis

Connection		
Horizontal	Top <input type="checkbox"/>	Bottom <input type="checkbox"/>
Vertical	Top <input type="checkbox"/>	Bottom <input type="checkbox"/>
Front	Top <input type="checkbox"/>	Bottom <input type="checkbox"/>

Micrologic control unit

A - ammeter
2.0A 5.0A 6.0A 7.0A

P - power meter
5.0P 6.0P 7.0P

LT - long time rating plug (standard setting 0.4 to 1 x Ir)
Low setting option 0.4 to 0.8 Ir
High setting option 0.8 to 1 Ir
LT OFF option

TCE - external sensor (CT)
neutral + earth-fault protection
double neutral protection (Micrologic P with 3-poles)
source ground return protection
earth-leakage protection (rectangular sensor)
280 x 115
470 x 160

Power supply option
AD - external power supply module
BAT - battery module
PTE - external voltage measurement input

Communication
Modbus
Eco modbus
Digipact

Control and remote ON/OFF		
Remote operation	MCH - gear motor	V <input type="checkbox"/>
	XF - closing release	V <input type="checkbox"/>
	MX - shunt release	V <input type="checkbox"/>
	BPFE - electrical closing pushbutton	<input type="checkbox"/>
	RER - electrical remote reset option	<input type="checkbox"/>
	RAR - automatic reset option	<input type="checkbox"/>
	PF - "ready to close" contact	6A - 240VAC <input type="checkbox"/>
		low level <input type="checkbox"/>

Remote tripping	2nd MX - shunt release	V <input type="checkbox"/>
	MN - undervoltage release	V <input type="checkbox"/>
	MN+R - MN+ non-adjustable delay unit	<input type="checkbox"/>
	MN+Rr - MN+adjustable delay unit	<input type="checkbox"/>

Indication contacts		
OF - ON/OFF indication contacts		
Standard	4 OF - 240Vac	Std <input type="checkbox"/>
Additional	1 block of 4 OF for NW	Max. 2 qty <input type="checkbox"/>
EF - combined "connected/closed" contacts (only available for additional 1 aux.)		
	1 EF 5A - 240VAC for NW	Max. 8 qty <input type="checkbox"/>
	1 EF low-level for NW	Max. 8 qty <input type="checkbox"/>

SDE - "fault-trip" indication contacts		
Standard	1 SDE 240Vac	Std <input type="checkbox"/>
Additional	1 SDE 5A 240Vac	<input type="checkbox"/>
	1 SDE low-level	<input type="checkbox"/>

Control unit status contacts (programmable contacts)
2 contacts (M2C)
6 contacts (M6C)

Chassis indication		
Carriage switches	6A - 240VAC (standard) <input type="checkbox"/>	low level <input type="checkbox"/>
CE - "connected" position	Max. 3 for NT and NW	qty <input type="checkbox"/>
CD - "disconnected" position	Max. 2 for NT and 3 for NW	qty <input type="checkbox"/>
CT - "test" position	Max. 1 for NT and 3 for NW	qty <input type="checkbox"/>

Locking		
VBP - ON/OFF pushbutton locking <input type="checkbox"/>		
Device locking		
VCPO - by padlocks <input type="checkbox"/>		
VSPO - by keylocks	Keylock kit <input type="checkbox"/>	Profalux <input type="checkbox"/> Ronis <input type="checkbox"/>
	without keylocks	
	1 lock <input type="checkbox"/>	1 lock + 1 lock with same key profile <input type="checkbox"/>
		2 locks (different key profiles) for NW <input type="checkbox"/>

Chassis locking		
VSPD "disconnected" position	Locking kit <input type="checkbox"/>	Profalux <input type="checkbox"/> Ronis <input type="checkbox"/>
	without keylocks	
	1 lock <input type="checkbox"/>	1 lock + 1 lock with same key profile <input type="checkbox"/>
		2 locks (different key profiles) <input type="checkbox"/>
		Optional connected - disconnected - test position locking <input type="checkbox"/>

VPEC - door interlock
Latch on right-hand side of chassis
Latch on left-hand side of chassis

Accessories		
CDM - mechanical operation counter		
Chassie accessory	VO - safety shutters on chassis	NT, NW Std <input type="checkbox"/>
	VIVC - shutter position indication + locking	NW <input type="checkbox"/>
	CB - auxiliary terminal shield for chassis	<input type="checkbox"/>
Door accessory	CDP - door frame (escutcheon)	Std <input type="checkbox"/>
	CP - transparent cover	<input type="checkbox"/>

All adaptation of Air Circuit Breakers Source-changeover are using discount code of 12

Final Distribution

Acti 9

NEW! With 5 Years warranty!

Circuit protection

iC60N circuit breakers	D1
iC60H circuit breakers	D3
iC60L circuit breakers	D5
iC60L circuit breakers (instantaneous circuit breakers)	D7
Electrical auxiliaries for iC60, iID, RCA and ARA	D15
Accessories for iC60, iID, reflex iC60, RCA and ARA	D16
iK60N circuit breakers	D17
Marine C60H circuit breaker	D20
Marine C60N circuit breaker	D21
Electrical Auxiliaries for C120 and C60H-DC device	D24

Earth leakage protection

Vigi iC60 add-on residual current devices	D11
iID residual current circuit breakers (RCCB)	D12
iDPN N Vigi residual current devices	D14
iID K residual current circuit breakers (RCCB)	D17
Vigi C120 add-on residual current devices (type AC, A and Asi type)	D23

Remote control

Reflex iC60N/H and iMDU electrical auxiliary for Reflex iC60	D8
RCA remote controls	D10
ARA automatic reclosers	D13
Acti 9 Smartlink	D30
iCT contactors	D31
iTL impulse relays, iTLc, iTLs with built-in auxiliary function	D32

Local control

iSW switches	D33
iPB pushbuttons	D36

Motor indication

iIL indicator lights	D35
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Multi 9

Circuit protection

DOM circuit breakers and residual current circuit breakers	D18
Dom Surger arresters	D19
Dom impulse relays	D19
C60H-DC circuit breakers	D27
C120N circuit breakers	D28
C120H circuit breakers	D22
NG125 circuit breakers	D26
Electrical auxiliaries and accessories for NG125	D28
Accessories for C120, C60H-DC and iSW	D25
Connection comb busbars for iC60, iID, C120, NG125, STI, C60H-DC	D29
Isolatable fuse-carriers without fuse	D43

Overvoltage protection

PRD/ PF Surge arresters	D37
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Control components

IHP programmable and IH mechanical time switches	D38
IC light sensitive switches and accessories	D39
MIN Timer and accessories	D39

Remote control

RT time delay relays	D40
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PK Plugs and sockets

low voltage	D41
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iC60N circuit breakers (curve B, C, D)



IEC/EN 60947-2
IEC/EN 60898-1

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2					Service breaking capacity (Ics)
	Voltage (Ue)				
Ph/Ph (2P, 3P, 4P)	12 to 133 V	220 to 240 V	380 to 415 V	440 V	100 % of Icu
Ph/N (1P, 1P+N)	12 to 60 V	100 to 133 V	220 to 240 V	-	
Rating (In)	0.5 to 4 A	50 kA	50 kA	50 kA	25 kA
	6 to 63 A	36 kA	20 kA	10 kA	6 kA
75 % of Icu					
Breaking capacity (Icn) according to IEC/EN 60898-1					
	Voltage (Ue)				
Ph/Ph	400V				
Ph/N	230V				
Rating (In)	0.5 to 63 A				
	6000 A				

Pole	Rating (A)	B curve Reference	C curve Reference	D curve Reference
1P	1	A9F73101	A9F74101	A9F75101
	2	A9F73102	A9F74102	A9F75102
	3	A9F73103	A9F74103	A9F75103
	4	A9F73104	A9F74104	A9F75104
	6	A9F73106	A9F74106	A9F75106
	10	A9F73110	A9F74110	A9F75110
	16	A9F73116	A9F74116	A9F75116
	20	A9F73120	A9F74120	A9F75120
	25	A9F73125	A9F74125	A9F75125
	32	A9F73132	A9F74132	A9F75132
	40	A9F73140	A9F74140	A9F75140
	50	A9F73150	A9F74150	A9F75150
	63	A9F73163	A9F74163	A9F75163
	2P	1	A9F73201	A9F74201
2		A9F73202	A9F74202	A9F75202
3		A9F73203	A9F74203	A9F75203
4		A9F73204	A9F74204	A9F75204
6		A9F73206	A9F74206	A9F75206
10		A9F73210	A9F74210	A9F75210
16		A9F73216	A9F74216	A9F75216
20		A9F73220	A9F74220	A9F75220
25		A9F73225	A9F74225	A9F75225
32		A9F73232	A9F74232	A9F75232
40		A9F73240	A9F74240	A9F75240
50		A9F73250	A9F74250	A9F75250
63		A9F73263	A9F74263	A9F75263

D

iC60N circuit breakers (curve B, C, D) (Cont.)



IEC/EN 60947-2
IEC/EN 60898-1

Alternating current (AC) 50/60 Hz							
Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)	
Ph/Ph (2P, 3P, 4P)	Voltage (Ue)				100 to 133 V		
		12 to 133 V	220 to 240 V	380 to 415 V		440 V	25 kA
Ph/N (1P, 1P+N)	12 to 60 V	100 to 133 V	220 to 240 V	-	6 kA	75 % of Icu	
Rating (In)	0.5 to 4 A	50 kA	50 kA	50 kA	25 kA	100 % of Icu	
	6 to 63 A	36 kA	20 kA	10 kA	6 kA	75 % of Icu	
Breaking capacity (Icn) according to IEC/EN 60898-1							
Ph/Ph	Voltage (Ue)						
	400V						
Ph/N	230V						
Rating (In)	0.5 to 63 A	6000 A					

Pole	Rating (A)	B curve Reference	C curve Reference	D curve Reference
3P	1	A9F73301	A9F74301	A9F75301
	2	A9F73302	A9F74302	A9F75302
	3	A9F73303	A9F74303	A9F75303
	4	A9F73304	A9F74304	A9F75304
	6	A9F73306	A9F74306	A9F75306
	10	A9F73310	A9F74310	A9F75310
	16	A9F73316	A9F74316	A9F75316
	20	A9F73320	A9F74320	A9F75320
	25	A9F73325	A9F74325	A9F75325
	32	A9F73332	A9F74332	A9F75332
	40	A9F73340	A9F74340	A9F75340
	50	A9F73350	A9F74350	A9F75350
	63	A9F73363	A9F74363	A9F75363
	4P	1	A9F73401	A9F74401
2		A9F73402	A9F74402	A9F75402
3		A9F73403	A9F74403	A9F75403
4		A9F73404	A9F74404	A9F75404
6		A9F73406	A9F74406	A9F75406
10		A9F73410	A9F74410	A9F75410
16		A9F73416	A9F74416	A9F75416
20		A9F73420	A9F74420	A9F75420
25		A9F73425	A9F74425	A9F75425
32		A9F73432	A9F74432	A9F75432
40		A9F73440	A9F74440	A9F75440
50		A9F73450	A9F74450	A9F75450
63		A9F73463	A9F74463	A9F75463



iC60H circuit breakers (curve B, C, D)



IEC/EN 60947-2
IEC/EN 60898-1

Alternating current (AC) 50/60 Hz						
Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)
	Voltage (Ue)					
Ph/Ph (2P, 3P, 4P)	12 to 133 V	220 to 240 V	380 to 415 V	440 V		
Ph/N (1P, 1P+N)	12 to 60 V	100 to 133 V	220 to 240 V	-		
Rating (In)	0.5 to 4 A	70 kA	70 kA	70 kA	50 kA	100% of Icu
	6 to 40 A	42 kA	30 kA	15 kA	10 kA	50% of Icu
	50/63 A	42 kA	-	15 kA	10 kA	50% of Icu
Breaking capacity (Icn) according to IEC/EN 60898-1						
	Voltage (Ue)					
Ph/Ph	400V					
Ph/N	230V					
Rating (In)	0.5 to 63 A	10000 A				

Pole	Rating (A)	B curve Reference	C curve Reference	D curve Reference
1P	1	A9F83101	A9F84101	A9F85101
	2	A9F83102	A9F84102	A9F85102
	3	A9F83103	A9F84103	A9F85103
	4	A9F83104	A9F84104	A9F85104
	6	A9F83106	A9F84106	A9F85106
	10	A9F83110	A9F84110	A9F85110
	16	A9F83116	A9F84116	A9F85116
	20	A9F83120	A9F84120	A9F85120
	25	A9F83125	A9F84125	A9F85125
	32	A9F83132	A9F84132	A9F85132
	40	A9F83140	A9F84140	A9F85140
	50	A9F83150	A9F84150	A9F85150
	63	A9F83163	A9F84163	A9F85163
2P	1	A9F83201	A9F84201	A9F85201
	2	A9F83202	A9F84202	A9F85202
	3	A9F83203	A9F84203	A9F85203
	4	A9F83204	A9F84204	A9F85204
	6	A9F83206	A9F84206	A9F85206
	10	A9F83210	A9F84210	A9F85210
	16	A9F83216	A9F84216	A9F85216
	20	A9F83220	A9F84220	A9F85220
	25	A9F83225	A9F84225	A9F85225
	32	A9F83232	A9F84232	A9F85232
	40	A9F83240	A9F84240	A9F85240
	50	A9F83250	A9F84250	A9F85250
	63	A9F83263	A9F84263	A9F85263

D

iC60H circuit breakers (curve B, C, D) (Cont.)



IEC/EN 60947-2
IEC/EN 60898-1

Alternating current (AC) 50/60 Hz						
Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)
		Voltage (Ue)				
Ph/Ph (2P, 3P, 4P)		12 to 133 V	220 to 240 V	380 to 415 V	440 V	100% of Icu
Ph/N (1P, 1P+N)		12 to 60 V	100 to 133 V	220 to 240 V	-	
Rating (In)	0.5 to 4 A	70 kA	70 kA	70 kA	50 kA	100% of Icu
	6 to 40 A	42 kA	30 kA	15 kA	10 kA	50% of Icu
	50/63 A	42 kA	-	15 kA	10 kA	50% of Icu
Breaking capacity (Icn) according to IEC/EN 60898-1						
		Voltage (Ue)				
Ph/Ph		400V				
Ph/N		230V				
Rating (In)	0.5 to 63 A	10000 A				

Pole	Rating (A)	B curve Reference	C curve Reference	D curve Reference
3P	1	A9F83301	A9F84301	A9F85301
	2	A9F83302	A9F84302	A9F85302
	3	A9F83303	A9F84303	A9F85303
	4	A9F83304	A9F84304	A9F85304
	6	A9F83306	A9F84306	A9F85306
	10	A9F83310	A9F84310	A9F85310
	16	A9F83316	A9F84316	A9F85316
	20	A9F83320	A9F84320	A9F85320
	25	A9F83325	A9F84325	A9F85325
	32	A9F83332	A9F84332	A9F85332
	40	A9F83340	A9F84340	A9F85340
	50	A9F83350	A9F84350	A9F85350
	63	A9F83363	A9F84363	A9F85363
4P	1	A9F83401	A9F84401	A9F85401
	2	A9F83402	A9F84402	A9F85402
	3	A9F83403	A9F84403	A9F85403
	4	A9F83404	A9F84404	A9F85404
	6	A9F83406	A9F84406	A9F85406
	10	A9F83410	A9F84410	A9F85410
	16	A9F83416	A9F84416	A9F85416
	20	A9F83420	A9F84420	A9F85420
	25	A9F83425	A9F84425	A9F85425
	32	A9F83432	A9F84432	A9F85432
	40	A9F83440	A9F84440	A9F85440
	50	A9F83450	A9F84450	A9F85450
	63	A9F83463	A9F84463	A9F85463

D

iC60L circuit breakers (curve B, C, K)



IEC/EN 60947-2

IEC/EN 60898-1 up to 40 A

Alternating current (AC) 50/60 Hz

Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)
	Voltage (Ue)					
Ph/Ph (2P, 3P, 4P)	12 to 133 V	220 to 240 V	380 to 415 V	440 V		100% of Icu
Ph/N (1P)	12 to 60 V	100 to 133 V	220 to 240 V	-		
Rating (In)	0.5 to 4 A	100 kA	100 kA	100 kA	70 kA	100% of Icu
	6 to 25 A	70 kA	-	25 kA	20 kA	50% of Icu ⁽¹⁾
	32 / 40 A	70 kA	-	20 kA	15 kA	50% of Icu
	50 / 63 A	70 kA	-	15 kA	10 kA	50% of Icu

Breaking capacity (Icn) according to IEC/EN 60898-1

	Voltage (Ue)
Ph/Ph	400V
Ph/N	230V
Rating (In)	0.5 to 40 A
	15000 A

Pole	Rating (A)	B curve Reference	C curve Reference	K curve Reference
1P	1	A9F93101	A9F94101	A9F95101
	2	A9F93102	A9F94102	A9F95102
	3	A9F93103	A9F94103	A9F95103
	4	A9F93104	A9F94104	A9F95104
	6	A9F93106	A9F94106	A9F95106
	10	A9F93110	A9F94110	A9F95110
	16	A9F93116	A9F94116	A9F95116
	20	A9F93120	A9F94120	A9F95120
	25	A9F93125	A9F94125	A9F95125
	32	A9F93132	A9F94132	A9F95132
	40	A9F93140	A9F94140	A9F95140
	50	A9F93150	A9F94150	A9F95150
	63	A9F93163	A9F94163	A9F95163
	2P	1	A9F93201	A9F94201
2		A9F93202	A9F94202	A9F95202
3		A9F93203	A9F94203	A9F95203
4		A9F93204	A9F94204	A9F95204
6		A9F93206	A9F94206	A9F95206
10		A9F93210	A9F94210	A9F95210
16		A9F93216	A9F94216	A9F95216
20		A9F93220	A9F94220	A9F95220
25		A9F93225	A9F94225	A9F95225
32		A9F93232	A9F94232	A9F95232
40		A9F93240	A9F94240	A9F95240
50		A9F93250	A9F94250	A9F95250
63		A9F93263	A9F94263	A9F95263

(1) 100% of Icu for ratings 6 to 25 A under Ue100 to 133 V AC Ph/Ph and Ue 12 to 60 V AC Ph/N.

D

iC60L circuit breakers (curve B, C, K) (Cont.)



IEC/EN 60947-2
IEC/EN 60898-1 up to 40 A

Alternating current (AC) 50/60 Hz							
Breaking capacity (Icu) according to IEC/EN 60947-2						Service breaking capacity (Ics)	
		Voltage (Ue)					
Ph/Ph (2P, 3P, 4P)		12 to 133 V	220 to 240 V	380 to 415 V	440 V	100% of Icu	
Ph/N (1P)		12 to 60 V	100 to 133 V	220 to 240 V	-		
Rating (In)	0.5 to 4 A	100 kA	100 kA	100 kA	70 kA		50% of Icu ⁽¹⁾
	6 to 25 A	70 kA	-	25 kA	20 kA		50% of Icu
	32 / 40 A	70 kA	-	20 kA	15 kA	50% of Icu	
	50 / 63 A	70 kA	-	15 kA	10 kA	50% of Icu	
Breaking capacity (Icn) according to IEC/EN 60898-1							
		Voltage (Ue)					
Ph/Ph		400V					
Ph/N		230V					
Rating (In)	0.5 to 40 A	15000 A					

Pole	Rating (A)	B curve Reference	C curve Reference	K curve Reference
3P	1	A9F93301	A9F94301	A9F95301
	2	A9F93302	A9F94302	A9F95302
	3	A9F93303	A9F94303	A9F95303
	4	A9F93304	A9F94304	A9F95304
	6	A9F93306	A9F94306	A9F95306
	10	A9F93310	A9F94310	A9F95310
	16	A9F93316	A9F94316	A9F95316
	20	A9F93320	A9F94320	A9F95320
	25	A9F93325	A9F94325	A9F95325
	32	A9F93332	A9F94332	A9F95332
	40	A9F93340	A9F94340	A9F95340
	50	A9F93350	A9F94350	A9F95350
	63	A9F93363	A9F94363	A9F95363
4P	1	A9F93401	A9F94401	A9F95401
	2	A9F93402	A9F94402	A9F95402
	3	A9F93403	A9F94403	A9F95403
	4	A9F93404	A9F94404	A9F95404
	6	A9F93406	A9F94406	A9F95406
	10	A9F93410	A9F94410	A9F95410
	16	A9F93416	A9F94416	A9F95416
	20	A9F93420	A9F94420	A9F95420
	25	A9F93425	A9F94425	A9F95425
	32	A9F93432	A9F94432	A9F95432
	40	A9F93440	A9F94440	A9F95440
	50	A9F93450	A9F94450	A9F95450
	63	A9F93463	A9F94463	A9F95463

(1) 100% of Icu for ratings 6 to 25 A under Ue100 to 133 V AC Ph/Ph and Ue 12 to 60 V AC Ph/N.

iC60L circuit breakers instantaneous circuit breakers (curve MA)

IEC/EN 60947-2



Alternating current (AC) 50/60 Hz				
Breaking capacity (Icu) according to IEC/EN 60947-2				Service breaking capacity (Ics)
		Voltage (Ue)		
Ph/Ph (2P, 3P)		220 to 240 V	380 to 415 V	
Rating (In)	1.6 to 16 A	40 kA	20 kA	50% of Icu
	25 to 40 A	30 kA	15 kA	50% of Icu

Pole	Rating (A)	MA Curve Reference
2P	1.6	A9F90272
	2.5	A9F90273
	4	A9F90204
	6.3	A9F90276
	10	A9F90210
	12.5	A9F90282
	16	A9F90216
	25	A9F90225
	40	A9F90240
3P	1.6	A9F90372
	2.5	A9F90373
	4	A9F90304
	6.3	A9F90376
	10	A9F90310
	12.5	A9F90382
	16	A9F90316
	25	A9F90325
	40	A9F90340

D

IEC/EN 60947-2



Alternating current (AC) 50 Hz				
Ultimate breaking capacity (Icu) as per IEC/EN 60947-2			Service breaking capacity (Ics)	
Ph/Ph (2P, 3P, 4P)	Voltage (Ue)			
		220 to 240 V	380 to 415 V	75 % of Icu
Rating (In)	10 to 40 A	20 kA	10 kA	
	63 A	20 kA	10 kA	50 % of Icu

Reflex iC60N

	Rating (A)	B curve Reference	C curve Reference	D curve Reference
With Ti24 interface				
2P	10	A9C61210	A9C62210	A9C63210
	16	A9C61216	A9C62216	A9C63216
	25	A9C61225	A9C62225	A9C63225
	40	A9C61240	A9C62240	-
	63	A9C61263	A9C62263	-
3P	10	A9C61310	A9C62310	A9C63310
	16	A9C61316	A9C62316	A9C63316
	25	A9C61325	A9C62325	A9C63325
	40	A9C61340	A9C62340	-
	63	A9C61363	A9C62363	-
4P	10	A9C61410	A9C62410	A9C63410
	16	A9C61416	A9C62416	A9C63416
	25	A9C61425	A9C62425	A9C63425
	40	A9C61440	A9C62440	-
	63	A9C61463	A9C62463	-
Without Ti24 interface				
2P	10	-	A9C52210	-
	16	-	A9C52216	-
	25	-	A9C52225	-
	40	-	A9C52240	-
	63	-	A9C52263	-
3P	10	-	A9C52310	-
	16	-	A9C52316	-
	25	-	A9C52325	-
	40	-	A9C52340	-
	63	-	A9C52363	-
4P	10	-	A9C52410	-
	16	-	A9C52416	-
	25	-	A9C52425	-
	40	-	A9C52440	-
	63	-	A9C52463	-



IEC/EN 60947-2



Alternating current (AC) 50 Hz				
Ultimate breaking capacity (Icu) as per IEC/EN 60947-2			Service breaking capacity (Ics)	
Ph/Ph (2P, 3P, 4P)	Voltage (Ue)			
Rating (In)	10 to 40 A	30 kA	15 kA	50 % of Icu

Reflex iC60H

Pole	Rating (A)	B curve Reference	C curve Reference	D curve Reference
With Ti24 interface				
2P	10	A9C64210	A9C65210	A9C66210
	16	A9C64216	A9C65216	A9C66216
	25	A9C64225	A9C65225	A9C66240
	40	A9C64240	A9C65240	-
3P	10	A9C64310	A9C65310	A9C66310
	16	A9C64316	A9C65316	A9C66316
	25	A9C64325	A9C65325	A9C66325
	40	A9C64340	A9C65340	-
4P	10	A9C64410	A9C65410	A9C66410
	16	A9C64416	A9C65416	A9C66416
	25	A9C64425	A9C65425	A9C66425
	40	A9C64440	A9C65440	-

Electrical auxiliary for Reflex iC60N/H

Type	Control voltage	Reference
iMDU	24 / 48 V AC/DC	A9C18195

D

RCA remote controls for iC60 circuit breakers



The RCA remote control system allows:

- Remote electrical control (opening and closing) of circuit breakers with or without Vigi add-on RCD, with or without auxiliary.
- Circuit-breaker resetting after tripping, in accordance with safety principles and the regulations in force.
- Local control by operating handle.
- Circuit placing in safely configuring by padlocking.

2 choices of operation after tripping:

- A: Enabling of remote circuit-breaker resetting;
- B: Inhibition of remote resetting.

The version with Ti24 interface allows:

- Direct interfacing of remote control with a programmable logic controller (PLC), a supervision system and any other communication device, having inputs/outputs in 24 V DC (control, OF and SD indications.)
- Remote indication by "OF" potential-free contact.
- Provision of 2 operating modes, "1 and 3"

The iMDU auxiliary allows RCA control in 24/48 V AC/DC.



Without Ti24 interface



With Ti24 interface

RCA remote control

For circuit breaker	Supply	
	Voltage	Reference
1P, 1P+N, 2P		
Without Ti24 interface	230 V AC, 50 Hz	A9C70112
With Ti24 interface	230 V AC, 50 Hz	A9C70122
3P, 4P		
Without Ti24 interface	230 V AC, 50 Hz	A9C70114
With Ti24 interface	230 V AC, 50 Hz	A9C70124

Vigi iC60 add-on residual current devices (AC, A and Asi type)

IEC/EN 61009-1



Combined with iC60 circuit breaker, the Vigi iC60 provide:

- protection of persons against electric shock by direct contact (≤ 30 mA)
- protection of persons against electric shock by indirect contact (≥ 100 mA)
- protection of installations against the risk of fire (300 mA or 500 mA)

Characteristics

Voltage rating (Ue)	230 - 240 V, 400 - 415 V
Operating frequency	50 / 60 Hz

Type AC

Rating (A)	Sensitivity (mA)	Width in 2 Pole		Width in 3 Pole		Width in 4 Pole	
		9mm mod	Reference	9mm mod	Reference	9mm mod	Reference
25	10	3	A9V10225	6	-	-	-
	30		A9V41225		A9V41325		A9V41425
	100		A9V12225		-		A9V12425
	300		A9V44225		A9V44325		A9V44425
40	30	4	A9V41240	7	A9V41340	-	A9V41440
	300		A9V44240		A9V44340		A9V44440
63	30	4	A9V41263	7	A9V41363	-	A9V41463
	100		A9V12263		-		A9V12463
	300		A9V44263		A9V44363		A9V44463
	500		A9V16263		A9V16363		A9V16463

Type A

Rating (A)	Sensitivity (mA)	Width in 2 Pole		Width in 3 Pole		Width in 4 Pole	
		9mm mod	Reference	9mm mod	Reference	9mm mod	Reference
25	30	3	A9V51225	6	A9V51325	-	A9V51425
	100		A9V22225		A9V22325		A9V22425
	300		A9V54225		A9V54325		A9V54425
63	30	4	A9V51263	7	A9V51363	-	A9V51463
	100		A9V22263		-		A9V22463
	300		A9V54263		A9V54363		A9V54463
	500		A9V26263		A9V26363		A9V26463

Type Asi

The Asi type provides increased immunity from electrical interference and polluted or corrosive environments.

Rating (A)	Sensitivity (mA)	Width in 2 Pole		Width in 3 Pole		Width in 4 Pole	
		9mm mod	Reference	9mm mod	Reference	9mm mod	Reference
25	10	3	A9V30225	6	-	-	-
	30		A9V61225		A9V61325		A9V61425
40	30	4	A9V61240	7	A9V61340	-	A9V61440
63	30	4	A9V61263	7	A9V61363	-	A9V61463

iID residual current circuit breakers (AC and A type)

IEC/EN 61008-1



The iID residual current circuit breakers provide:

- protection of persons against electric shock by direct contact (≤ 30 mA)
- protection of persons against electric shock by indirect contact (≥ 100 mA)
- protection of installations against the risk of fire (300 mA or 500 mA)

Characteristics

Voltage rating (Ue)	2P	230 - 240 V
	4P	400 - 415 V
Operating frequency	50 / 60 Hz	

Type AC

Rating (A)	Sensitivity (mA)	2 Pole		4 Pole	
		Width in 9mm mod	Reference	Width in 9mm mod	Reference
25	10	4	A9R10225	8	-
	30		A9R71225		A9R71425
	300		A9R74225		A9R74425
	500		A9R16225		A9R16425
40	30	4	A9R71240	8	A9R71440
	100		A9R12240		A9R12440
	300		A9R74240		A9R74440
	500		A9R16240		A9R16440
63	30	4	A9R71263	8	A9N16258
	100		A9R12263		A9R12463
	300		A9R74263		A9R74463
	500		A9R16263		A9R16463
80	30	4	A9N16212	8	A9N16261
	100		A9R12280		A9R12480
	300		A9R14280		A9R14480
	500		-		-
100	100	4	A9R12291	8	A9R12491
	300		A9R14291		A9R14491

Type A

Rating (A)	Sensitivity (mA)	2 Pole		4 Pole		
		Width in 9mm mod	Reference	Width in 9mm mod	Reference	
25	10	4	A9R20225	8	-	
	30		A9R51225		A9R51425	
	300		A9R54225		A9R54425	
40	30	4	A9R51240	8	A9R51440	
	100		-		-	A9R22440
	300		A9R54240		A9R54440	
	500		-		-	A9R26440
63	30	4	A9R51263	8	A9R51463	
	100		-		-	A9R22463
	300		A9R54263		A9R54463	
	500		-		-	A9R26463
80	30	-	-	8	A9R21480	
100	30	-	-	8	A9R21491	

ARA automatic reclosers for iC60 circuit breakers and iID residual current circuit breakers



The ARA reclosing auxiliary can:

- Perform automatic reclosing of the associated protection device, after tripping.
- Increase the availability of installations without supervision, isolated, hard of access and demanding very great availability (mobile telephony systems, motorways, pumping stations, airports, railway, meteorological stations, service stations, automatic teller machines, public lighting, tunnels, etc.), by restoring them to operation without intervention by personnel in the event of a transient fault (atmospheric disturbances, industrial overvoltages, etc.)
- The operator can choose predefined reclosing program which allows the safety and availability of facilities to be reconciled taking into account the facility's environment.
- The circuit is placed in safety configuration by the padlocking device.

ARA iC60

	Width in 9mm mod	Number of programs	Voltage	Reference
For circuit breaker				
1P, 1P+N, 2P	7	4	230 V AC, 50 Hz	A9C70132
3P, 4P	7	4	230 V AC, 50 Hz	A9C70134

Residual current devices iDPN N Vigi (AC and A type)

IEC/EN 61009



The iDPN Vigi residual current device provide complete protection for final circuits (against overcurrents and insulation faults):

- protection for users against electric shocks by direct contacts (≤ 30 mA)
- protection for users against electric shocks by indirect contacts (300 mA)
- protection of the installations against the fire risks (300 mA)

Characteristics

Voltage rating (Ue)	230 V AC
Operating frequency	50 Hz
Rated breaking capacity (Icn)	6000 A

Type AC

1P+N	Sensitivity	Width in	Curve B	Curve C
Rating (A)	(mA)	9mm mod	Reference	Reference
4	30	4	A9D55604	-
6	30	4	A9D55606	A9D31606
	300		A9D68606	A9D41606
10	30	4	A9D55610	A9D31610
	300		A9D68610	A9D41610
16	30	4	A9D55616	A9D31616
	300		A9D68616	A9D41616
20	30	4	A9D55620	A9D31620
	300		A9D68620	A9D41620
25	30	4	A9D55625	A9D31625
	300		A9D68625	A9D41625
32	30	4	A9D55632	A9D31632
	300		A9D68632	A9D41632
40	30	4	A9D55640	A9D31640
	300		A9D68640	A9D41640

Type A

1P+N	Sensitivity	Width in	Curve B	Curve C
Rating (A)	(mA)	9mm mod	Reference	Reference
4	100	4	A9D60604	-
6	100	4	A9D60606	A9D52606
	100		A9D60610	A9D52610
16	100	4	A9D60616	A9D52616
	100		A9D60620	A9D52620
25	100	4	A9D60625	A9D52625
	100		A9D60632	A9D52632
40	100	4	A9D60640	A9D52640

Electrical auxiliaries for iC60, iID, RCA and ARA

IEC/EN 60947-1

- Tripping auxiliaries

IEC/EN 60947-5-1

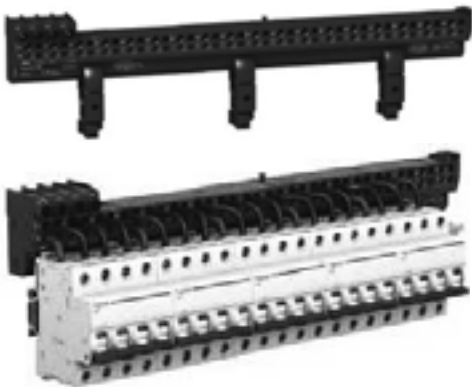
- Indication auxiliaries

IEC/EN 60947-7-1

- Multiclip 80A splitter block



		Rated Voltage (Ue)		Operating	Reference
		V AC	V DC	frequency (Hz)	
Tripping					
Undervoltage release	<u>Instantaneous</u>	220...240	-	50/60	A9A26960
	iMN	48	48	50/60	A9A26961
		115	-	400	A9A26959
		220...240	-	50/60	A9A26963
	<u>Delayed</u>	220...240	-	50/60	A9A26963
	iMNs	<u>Independent of the supply voltage</u>	220...240	-	50/60
iMNx		380...415	-	50/60	A9A26971
Overvoltage release	iMSU	230	-	50/60	A9A26979
					A9A26479
Shunt release	iMX	100...415	110...130	50/60	A9A26476
		48	48	50/60	A9A26477
		12...24	12...24	50/60	A9A26478
	With Open/Close auxiliary contact	100...415	110...130	50/60	A9A26946
		48	48	50/60	A9A26947
		12...24	12...24	50/60	A9A26948
	iMX+OF				
Indication					
Open/close auxiliary contact	iOF	240...415	24...130	50/60	A9A26924
Fault indicating contact	iSD	240...415	24...130	50/60	A9A26927
Double open/close or fault indicating contact	iOF/SD+OF	240...415	24...130	50/60	A9A26929
Multiclip 80A splitter block					
Rated current at (In)	Width in 9mm mod	Operated Voltage (Ue)	Operating Frequency (H)	Rated insulation Voltage (Ui)	Reference
80 A	48	440 V AC	50/60	500 V AC	04000



D

Rotary handle



Plug-in base



Padlocking device



Screw shield



Terminal shield



Inter-pole barrier



Spacer



Mounting

Type		Set of	Reference
Rotary handle	black handle	1	A9A27005
	red handle	1	A9A27006
	no handle	1	A9A27008
Plug-in base	1 per pole	1	A9A27003
Padlocking device		10	A9A26970

Suitability

	iC60	iC60 + Vigi iC60	iID	Reflex iC60 or RCA + iC60 or ARA + iC60	ARA + iID
<u>Rotary handle</u>	■ 2P, 3P, 4P	■ 2P, 3P, 4P	■	-	-
<u>Plug-in base</u>	■	-	■ ≤ 63 A	-	-
<u>Padlocking device</u>	■	■	■	■	■

Security

Type	Set of	Reference
Screw shield	12 x 1 pole	A9A26982
	20 x 4 poles (splittable)	A9A26981
Terminal shield	2 x 1 pole	A9A26975
	2 x 2 pole	A9A26976
Inter-pole barrier	10	A9A27001
Spacer	5	A9A27062

Suitability

	iC60	Vigi iC60	iID	Reflex iC60 or RCA + iC60 or ARA + iC60	ARA + iID
<u>Screw shield</u>					
12 x 1 pole	-	■	-	-	-
20 x 4 poles (splittable)	■	-	■	■	■
<u>Terminal shield</u>					
2 x 1 pole	■	-	-	■	■
2 x 2 pole	■	-	■	■	■
<u>Inter-pole barrier</u>	■	-	■	■	■
<u>Spacer</u>	■	■	■	■	■

iK60N circuit breakers

iID K residual current circuit breakers

IEC/EN 60898-1



Breaking capacity (Icn) according to IEC/EN 60898-1		Service breaking capacity (Ics)
	Voltage (Ue)	
Ph/Ph	400 V	100% of Icn
Ph/N	230 V	
Rating (In)	6 to 32 A	

iK60N circuit breakers (curve C)



Pole	Rating (A)	C curve Reference	Pole	Rating (A)	C curve Reference
1P	6	A9K27106	3P	6	A9K24306
	10	A9K27110		10	A9K24310
	16	A9K27116		16	A9K24316
	20	A9K27120		20	A9K24320
	25	A9K27125		25	A9K24325
	32	A9K27132		32	A9K24332
2P	6	A9K27206	4P	6	A9K24406
	10	A9K27210		10	A9K24410
	16	A9K27216		16	A9K24416
	20	A9K27220		20	A9K24420
	25	A9K27225		25	A9K24425
	32	A9K27232		32	A9K24432

IEC/EN 61008-1



The iID K residual current circuit breakers provide:

- protection of persons against electric shock by direct contact (30 mA)
- protection of persons against electric shock by indirect contact (300 mA)
- protection of installations against the risk of fire (300 mA)

Voltage rating (Ue)	2P	230 - 240 V
	4P	400 - 415 V
Operating frequency	50 / 60 Hz	



iID K residual current circuit breakers (Type AC)

Rating (A)	Sensitivity (mA)	2 Pole		4 Pole	
		Reference		Reference	
25	30	A9R50225		A9R50425	
	300	A9R75225		A9R75425	
40	30	A9R50240		A9R50440	
	300	A9R75240		A9R75440	
63	30	-	-	A9R70463	
	300	-	-	A9R75463	

Domae Circuit Breakers

Residual current circuit breaker

Domae...

The right solution
for distribution
boards



Dom11362 Dom11418



Dom11431



Dom16793S Dom16794S



030239-00

Domae RCCB is registered under The
Singapore Consumer Protection
(Safety Requirement) scheme

Circuit breaker

type	voltage (V)	breaking capacity as in EN60898 Icn (A)
1& 2P	230	6000
3P	400	6000

Pole	Width in mod. of 9mm	Rating (A)	B curve	C curve
			Reference	Reference
1P	2	6	Dom11362	Dom11375
		10	Dom11363	Dom11376
		16	Dom11364	Dom11377
		20	Dom11365	Dom11378
		32	Dom11367	Dom11380
		40	Dom11414	Dom11381
		50	Dom11607	Dom11598
2P	4	63	Dom11608	Dom11599
		6	Dom11417	Dom11384
		10	Dom11418	Dom11385
		16	Dom11419	Dom11386
		20	Dom11420	Dom11387
		32	Dom11368	Dom11389
		40	Dom11369	Dom11390
3P	6	50	Dom11609	Dom11600
		63	Dom17321	Dom11601
		6	Dom11426	Dom11393
		10	Dom11427	Dom11394
		16	Dom11428	Dom11395
		20	Dom11429	Dom11396
		32	Dom11431	Dom11398
4P	6	40	Dom11432	Dom11399
		50	Dom11610	Dom11602
		63	Dom11611	Dom11603

Residual current circuit breaker (RCCB) Comply with SS97

Pole	Voltage		Sensitivity (mA)	Reference
	50 Hz (V)	Rating (A)		
2P	240V	40	30	Dom16793S
			300	Dom16795S
		63	30	Dom16791S
			300	Dom16798S
4P	415V	40	30	Dom11029S
			300	Dom11030S
		63	30	Dom16794S
			300	Dom16796S

Surge arresters, impulse relay enclosures, comb busbars and timers



DomL102F230

Surge arrester with integrated disconnecter

Pole	I max. (8/20)	Voltage		Reference
		Uc	Up	
2P	10kA	275Vac	<1500Vac	DomL102F230
4P	10kA	275Vac	<1500Vac	DomL104F400

I max: maximum discharge current.

Uc: maximum continuous operating voltage

Up: voltage protection level

Impulse relay

	Pole	Type	Rating (A)	Un (V)	Reference
TL impulse relay	On-off switch, 1P		16A	230Vac	DomT1F16



DomT1F16

D

C60H-DC

C curve

IEC/EN 60947-2

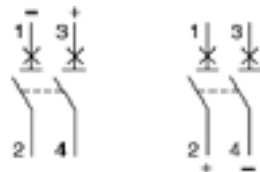
rating (A)	type	operating voltage (Ue)	rated voltage (Un)	breaking capacity as in IEC 60947-2 Icu (kA)
1...40	1P	12...250 VDC	250 VDC	10kA @ 220VDC
	2P	12...500 VDC	500 VDC	20kA @ 220VDC 10kA @ 440VDC



Pole	Width in mod. of 9mm	Rating (A)	C curve Reference
1P	2	0.5	A9N61500
		1	A9N61501
		2	A9N61502
		3	A9N61503
		4	A9N61504
		5	A9N61505
		6	A9N61506
		10	A9N61508
		13	A9N61509
		15	A9N61510
		16	A9N61511
		20	A9N61512
		25	A9N61513
		30	A9N61514
2P	4	0.5	A9N61520
		1	A9N61521
		2	A9N61522
		3	A9N61523
		4	A9N61524
		5	A9N61525
		6	A9N61526
		10	A9N61528
		13	A9N61529
		15	A9N61530
		16	A9N61531
		20	A9N61532
		25	A9N61533
		30	A9N61534
2P	4	32	A9N61535
		40	A9N61537
		50	A9N61538
		63	A9N61539



Supply from above or below, observing the polarity



Supply from above

Supply from below

C120N circuit breakers (curve B, C, D)

IEC 60898-1, IEC 60947-2



C120N 1P

Alternating current (AC) 50/60 Hz		
Breaking capacity (Icu) according to IEC/EN 60947-2		Service breaking capacity (Ics)
Type	Voltage (V)	
1P	220 to 240V	380 to 415V
Rating (In) 63 to 125A	10 kA	3 kA
2P/3P/4P	220 to 240V	380 to 415V
Rating (In) 63 to 125A	20 kA	10 kA
Breaking capacity (Icu) according to CEI/EN 60898-1		Service breaking capacity (Ics)
Type	Voltage (V)	
1P,2P,3P,4P	230 to 400 V	
Rating (In) 63 to 125A	10000 A	75% of Icu



C120N 2 pole

Direct current (DC)		
Breaking capacity (Icu) according to IEC/EN 60947-2		Service breaking capacity (Ics)
Type	Voltage (V)	
1P	24/48 V	
Rating (In) 63 to 125A	10 kA	100% of Icu
2P (In Series)	24/48 V	
63 to 125A		100% of Icu



C120N 3 pole

Pole	Rating (In)	B curve Reference	C curve Reference	D curve Reference
1P	63 A	A9N18340	A9N18356	A9N18378
	80 A	A9N18341	A9N18357	A9N18379
	100 A	A9N18342	A9N18358	A9N18380
	125 A	A9N18343	A9N18359	A9N18381
2P	63 A	A9N18344	A9N18360	A9N18382
	80 A	A9N18345	A9N18361	A9N18383
	100 A	A9N18346	A9N18362	A9N18384
	125 A	A9N18347	A9N18363	A9N18385
3P	63 A	A9N18348	A9N18364	A9N18386
	80 A	A9N18349	A9N18365	A9N18387
	100 A	A9N18350	A9N18367	A9N18388
	125 A	A9N18351	A9N18369	A9N18389
4P	63 A	A9N18352	A9N18371	A9N18390
	80 A	A9N18353	A9N18372	A9N18391
	100 A	A9N18354	A9N18374	A9N18392
	125 A	A9N18355	A9N18376	A9N18393



C120N 34pole

D

C120H circuit breakers

(curve B, C, D)

IEC-60898-1, IEC 60947-2



Alternating current (AC) 50/60 Hz			
Breaking capacity (I _{cu}) according to IEC/EN 60947-2			Service breaking capacity (I _{cs})
Type	Voltage (V)		
1P	220 to 240V	380 to 415V	50% of I _{cu}
Rating (In) 63 to 125A	15 kA	4,5 kA (1)	
2P/3P/4P	220 to 240V	380 to 415V	50% of I _{cu}
Rating (In) 63 to 125A	30 kA	15 kA	
Breaking capacity (I _{cu}) according to CEI/EN 60898-1			
Type	Voltage (V)		
1P,2P,3P,4P	230 to 400 V		
Rating (In) 63 to 125A	15000 A		
			50% of I _{cu}

(1) One-pole breaking capacity in IT isolated neutral system (double fault)

Direct current (DC)			
Breaking capacity (I _{cu}) according to IEC/EN 60947-2			Service breaking capacity (I _{cs})
Type	Voltage (V)		
1P	24/48 V	250 V	100% of I _{cu}
Rating (In) 63 to 125A	15 kA	-	
2P (In Series)	24/48 V	250 V	100% of I _{cu}
63 to 125A	-	15kA	

Pole	Rating (A)	B curve Reference	C curve Reference	D curve Reference
1P	63 A	A9N18401	A9N18445	A9N18489
	80 A	A9N18402	A9N18446	A9N18490
	100 A	A9N18403	A9N18447	A9N18491
	125 A	A9N18404	A9N18448	A9N18492
2P	63 A	A9N18412	A9N18456	A9N18500
	80 A	A9N18413	A9N18457	A9N18501
	100 A	A9N18414	A9N18458	A9N18502
	125 A	A9N18415	A9N18459	A9N18503
3P	63 A	A9N18423	A9N18467	A9N18511
	80 A	A9N18424	A9N18468	A9N18512
	100 A	A9N18425	A9N18469	A9N18513
	125 A	A9N18426	A9N18470	A9N18514
4P	63 A	A9N18434	A9N18478	A9N18522
	80 A	A9N18435	A9N18479	A9N18523
	100 A	A9N18436	A9N18480	A9N18524
	125 A	A9N18437	A9N18481	A9N18525



Vigi C120 add-on residual current devices (type AC, A and SI)

IEC 61009



When a Vigi C120 device is combined with a C120 circuit breaker, it provides the following functions:

- Protection of persons against electric shock by direct contact (30mA)
- Protection of persons against electric shock by indirect contact ($\geq 300\text{mA}$)
- Protection of installations against fire hazards (300mA to 1000mA)



Type AC

		2 Pole	3 Pole	4 Pole
Width in 9mm mod		7	10	10
Rating (A)	Sensitivity (mA)	Reference	Reference	Reference
125	30	A9N18563	A9N18566	A9N18569
	300	A9N18564	A9N18567	A9N18570
	500	A9N18565	A9N18568	A9N18571
	300	A9N18544	A9N18546	A9N18548
	1000	A9N18545	A9N18547	A9N18549



Type A

		2 Pole	3 Pole	4 Pole
Width in 9mm mod		7	10	10
Rating (A)	Sensitivity (mA)	Reference	Reference	Reference
125	30	A9N18572	A9N18575	A9N18578
	300	A9N18573	A9N18576	A9N18579
	500	A9N18574	A9N18577	A9N18580
	300	-	-	-
	500	-	-	-
	1000	-	-	-

Type SI

		2 Pole	3 Pole	4 Pole
Width in 9mm mod		7	10	10
Rating (A)	Sensitivity (mA)	Reference	Reference	Reference
125	30	A9N18591	A9N18594	A9N18597
	300	A9N18592	A9N18595	A9N18598
	500	-	-	-
	300	A9N18556	A9N18558	A9N18560
	1000	A9N18557	A9N18559	A9N18561

Electrical auxiliaries for C120 and C60H-DC device

IEC/EN 60947-1

- Tripping auxiliaries

IEC/EN 60947-5-1

- Indication auxiliaries



Tripping

Auxiliaries	Type	Rated Voltage (Ue)		Operating frequency (Hz)	Reference
		V AC	V DC		
Undervoltage release	<u>Instantaneous</u>	220...240	-	50/60	A9N26960
	MN	48	48	50/60	A9N26961
		115	-	400	A9N26959
	<u>Delayed</u>	220...240	-	50/60	A9N26963
	MNs				
	<u>Independent of the supply voltage</u>	230	-	50/60	A9N26969
	MNx	400	-	50/60	A9N26971
Voltage threshold release	MSU (1)	230	-	50/60	A9N26500
Shunt release	MX	100...415	110...130	50/60	A9N26476
		48	48	50/60	A9N26477
		12...24	12...24	50/60	A9N26478
	With Open/Close auxiliary contact	100...415	110...130	50/60	A9N26946
	MX+OF	48	48	50/60	A9N26947
		12...24	12...24	50/60	A9N26948

Indication

Auxiliaries	Type	Rated Voltage (Ue)		Operating frequency (Hz)	Reference
		V AC	V DC		
Open/close auxiliary contact					
	OF	24...415	24...130	50/60	A9N26924
Fault indicating contact					
	SD	24...415	24...130	50/60	A9N26927
Double open/close or fault indicating contact					
	OF/SD+OF	24...415	24...130	50/60	A9N26929
Double open/close and fault indicating contact					
	OF/SD24	-	24	-	A9N26899

(1) Not applicable to C60H-DC.

Accessories for C120, C60H-DC and iSW



Mounting

Type (see below suitability)		Set of	Reference
Rotary handle	Removable extended handle	1	27047
	Fixed handle	1	27048
	Operating sub-assembly	1	27046
Plug-in base	1 per pole (see below table)	1	26996
	1 per pole (see below table)	1	26997
Padlocking device		4	27145
		2	26970

Suitability

		C120	C120 + Vigi C120	C60H-DC	iSW (40 to 63A)
<u>Rotary handle</u>		■ 2P, 3P, 4P	■ 2P, 3P, 4P	■ 2P	■ ≥ at 4 modules of 9mm
<u>Plug-in base</u>	26995	-	-	■	■
	26997	■ ≤ 63 A	-	-	-
<u>Padlocking device</u>	27145	■	■	-	-
	26970	-	-	■	■

Security

Type (see below suitability)		Set of	Reference	
Screw shield		2	18527	
		(4P dividable)	26981	
Terminal shield	1P	2	18526	
	1P	3P: 1x26975+1x26976	2	26975
	2P	4P: 2x26976	2	26976
Inter-pole barrier		10	27001	
Spacer		1	A9N27062	

Suitability

		C120	C120 + Vigi C120	C60H-DC	iSW (40 to 63A)
<u>Screw shield</u>	18527	■	-	-	-
	26981	-	-	■	■
<u>Terminal shield</u>	18526	■	-	-	-
	26975	-	-	■	■
	26976	-	-	■	■
<u>Inter-pole barrier</u>	27001	■	-	■	■
<u>Spacer</u>	A9N27062	■	■	■	■

D

NG125 circuit breakers, C curves IEC 60947-2

NG125 circuit breaker

NG125N breaking capacity as in IEC 60947.2

type	voltage (V)	breaking capacity Icu (kA)
1P	230...240	25
2,3,4P	380...415	25

NG125H breaking capacity as in IEC 60947.2

type	voltage (V)	breaking capacity Icu (kA)
1P	230...240	36
2,3,4P	380...415	36

Pole	Width in mod. of 9mm	Rating (A)	C curve
			Reference
1P	3	10	18610
		16	18611
		20	18612
		25	18613
		32	18614
		40	18615
		50	18616
P	6	10	18621
		16	18622
		20	18623
		25	18624
		32	18625
		40	18626
		50	18627
P	9	10	18632
		16	18633
		20	18634
		25	18635
		32	18636
		40	18637
		50	18638
4P	12	10	18649
		16	18650
		20	18651
		25	18652
		32	18653
		40	18654
		50	18655

Pole	Width in mod. of 9mm	Rating (A)	C curve
			Reference
1P	3	10	-
		16	-
		20	-
		25	18708
		32	18709
		40	18710
		50	18711
2P	6	10	18714
		16	18715
		20	18716
		25	18717
		32	18718
		40	18719
		50	18720
3P	9	10	18723
		16	18724
		20	18725
		25	18726
		32	18727
		40	18728
		50	18729
4P	12	10	18732
		16	18733
		20	18734
		25	18735
		32	18736
		40	18737
		50	18738



18617



18628



18644



18662



NG125 circuit breakers, C curves IEC 60947-2

NG125 circuit breaker

NG125L breaking capacity as in IEC 60947.2

type	voltage (V)	breaking capacity Icu (kA)
1P	230...240	50
2,3,4P	380...415	50

NG125LMA breaking capacity as in IEC 60947.2

type	voltage (V)	breaking capacity Icu (kA)
3P	380...415	50

Pole	Width in mod. of 9mm	Rating (A)	C curve
			Reference
1P	3	10	18777
		16	18778
		20	18779
		25	18780
		32	18781
		40	18782
		50	18783
		63	18784

Pole	trip unit (A)	magn. I (A)	MA curve
			Reference
3P	MA4	50	18879
	MA6.3	75	18880
	MA10	120	18881
	MA12.5	150	18882
	MA16	190	18883
	MA25	300	18884
	MA40	480	18885
MA63	750	18886	

2P	6	10	18788
		16	18789
		20	18790
		25	18791
		32	18792
		40	18793
		50	18794
63	18795		

3P	9	10	18799
		16	18800
		20	18801
		25	18802
		32	18803
		40	18804
		50	18805
63	18806		

4P	12	10	18810
		16	18811
		20	18812
		25	18813
		32	18814
		40	18815
		50	18816
63	18817		



18784



18790



18806

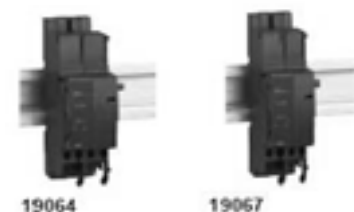


18817



18885

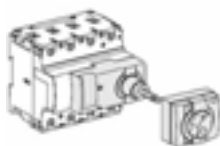
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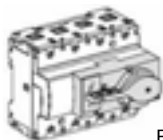
Screw shield



Terminal shield



Extended rotary handle



Rotary handle



Padlocking

Electrical auxiliaries

Type	Voltage		Reference
	(V AC)	(V DC)	
OF + OF auxiliary contact	220-240 (6A)		19071
OF + SD fault indicating switch	220-240 (6A)		19072
MX + OF	230-415	110-130	19064
■ shunt releases	24	24	19066
■ tripping: on energisation			
■ equipped with a contact allowing selfbreaking			
MN	230-240		19067
instantaneous		48	19070
undervoltage release			

Accessories

Type		Reference
Screw shield for circuit-breaker (set of 10 parts)	1P	19084
	2P	19085
	3P	19086
	4P	19087
Terminal shield for circuit-breaker (set of 2)	1P	19080
	2P	19081
	3P	19082
	4P	19083
Rotary handle	extended standard black	19088
	direct standard black	19092
Padlocking accessory	set of 4 parts	19090



Connection comb busbars for iC60, iID, C120, NG125, STI, C60H-DC, iSW

1P, 2P, 3P, 4P Comb busbars

Pole	set of	No. of 9mm modules	Reference
------	--------	--------------------	-----------

Use: Power supply via semi-rigid cable directly in the cage of the device

- cross section 25 mm² for iC60 and iID (all rating)
- cross section 10 mm² for STI

1P	1	24	14881
	2	48	14891
2P	1	24	14882
	2	48	14892
3P	1	24	14883
	2	48	14893
4P	1	24	14884
	2	48	14894

Use: Direct power supply on the circuit breaker terminal
 maximum 50 mm² rigid

1P	1	L= 430mm, 16 poles of 27 mm	14811
2P	1	L= 430mm, 16 poles of 27 mm	14812
3P	1	L= 405mm, 15 poles of 27 mm	14813
4P	1	L= 430mm, 16 poles of 27 mm	14814

Suitability

		STI	iC60, iSW	C60H-DC	iID	C120	NG125≤ 63A
1P	14881	■	■	■	-	-	-
	14891	■	■	■	-	-	-
	14881	-	-	-	-	■	■
2P	14882	■	■	■	■	-	-
	14892	■	■	■	■	-	-
	14812	-	-	-	-	■	■
3P	14882	■	■	-	-	-	-
	14893	■	■	-	-	-	-
	14813	-	-	-	-	■	■
4P	14884	-	■	-	■	-	-
	14894	-	■	-	■	-	-
	14814	-	-	-	-	■	■

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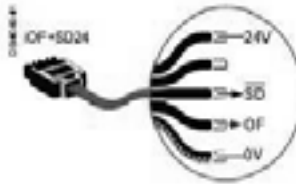
IEC 61131-2

The **Acti 9 Smartlink** transmits data from Acti 9 devices to a PLC or a supervision system via the Modbus line communication network.

Acti 9 Smartlink



Type		set of	Reference
Acti 9 Smartlink		1	A9XMSB11
Supplied with	Modbus connector	1	
	24 V DC power supply connector	1	
	Locking clips for mounting on multiclip 80	2	



Accessories		set of	Reference
Link USB/Modbus for Acti 9 Smartlink test		1	A9XCATM1

Prefabricated cables			
	With 2 connectors	Short: 100mm	6 A9XCAS06
		Medium-Sized: 160mm	6 A9XCAM06
		Long: 870mm	6 A9XCAL06
	With 1 connector	Long: 870mm	6 A9XCAU06

Connectors	5-pin connectors (Ti24)	12	A9XC2412
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Mounting kit	DIN rail (4 feet, 4 straps, 4 adapters)	1	A9XMFA04
	Multiclip 200A (4 adapters)	1	A9XM2B04
Spare parts	Lock for Multiclip 80 A (2 clips)	1	A9XMLA02

iCT contactors

without manually-operated

EN 61095, IEC 1095



iCT 4P

Characteristics		
Voltage rating (Ue)	1P, 2P	250 V AC
	3P, 4P	400 V AC
Frequency	50 Hz or 60 Hz	

Pole	Width in 9mm mod	Rating (A)		Control voltage (V AC) (50 Hz)	Contact	Reference
		AC7a	AC7b			
1P	2	25	8.5	230...240	1NO	A9C20731
					2NO	A9C20732
2P	2	25	8.5	230...240	2NC	A9C20736
					2NO	A9C20842
	4	40	15	220...240	2NO	A9C20842
		63	20	220...240	2NO	A9C20862
3P	6	100	-	220...240	2NO	A9C20882
	4	25	8.5	220...240	3NO	A9C20833
		63	20	220...240	3NO	A9C20863
4P	4	25	8.5	220...240	4NC	A9C20837
					2NO+2NC	A9C20838
	6	40	15	220...240	4NO	A9C20844
				4NC	A9C20847	
		63	20	220...240	4NO	A9C20864
	6			4NC	A9C20867	
				2NO+2NC	A9C20868	
				3NO+1NC	A9C20869	
12	100	-	220...240	4NO	A9C20884	

D

iTL, iTLI impulse relays

iTLc, iTLs with built-in auxiliary function



IEC/EN 60669-2-2

iTLs: IEC/EN 60947-5-1

Characteristics

Voltage rating (Ue)	1P, 2P	24...250 V AC
	3P, 4P	24...415 V AC
Frequency	50 Hz or 60 Hz	

	Pole	Control Voltage (Uc)		Reference	
		(V AC)	(V DC)		
iTL impulse relays					
iTL 16 A	1P	1 NO	230...240	110	A9C30811
	2P	2 NO	230...240	110	A9C30812
	3P	1 NO + 1NO/NC	230...240	110	A9C30811 +
		+ 1 NO			A9C32816
4P	4 NO	230...240	110	A9C30814	
iTLI impulse relays					
iTLI 16A	1P	1 NO + 1 NC	230...240	110	A9C30815
iTLc impulse relay with centralised control					
iTLc 16A	1P	1 NO	230...240	-	A9C33811
iTLs impulse relay with remote indication (1)					
iTLs 16A	1P	1 NO	230...240	110	A9C32811

(1) Short circuit protection device for indication contacts: 6 A gG fuse.

D

iSW control switches (20, 32 A)

IEC/EN 60669-2-4, iSW switch without indicator light.

iSW switch-disconnectors (40 to 125 A)

IEC 60947-3



Main characteristics			20, 32A iSW without indicator light	40 to 125A iSW
Insulation voltage (Ui)	1P		250V AC	250V AC
	2P, 3P, 4P		500V AC	500V AC
Control voltage (Ue)	1P		250V AC	250V AC
	2P, 3P, 4P		415V AC	415V AC
Rated short-circuit closing current (Inc)			3 kA	6 kA

20, 32 A iSW control switches

Type	Width in		Reference
	9mm mod	Rating	
1P	2	20 A	A9S60120
		32 A	A9S60132
2P	2	20 A	A9S60220
		32 A	A9S60232
3P	4	20 A	A9S60320
		32 A	A9S60332
4P	4	20 A	A9S60420
		32 A	A9S60432

iSW switches (cont.)

iSW control switches (20, 32 A)

IEC/EN 60669-2-4, iSW switch without indicator light.

iSW switch-disconnectors (40 to 125 A)

IEC 60947-3



Main characteristics			
		20, 32A iSW without indicator light	40 to 125A iSW
Insulation voltage (Ui)	1P	250V AC	250V AC
	2P, 3P, 4P	500V AC	500V AC
Control voltage (Ue)	1P	250V AC	250V AC
	2P, 3P, 4P	415V AC	415V AC
Rated short-circuit closing current (I _{nc})		3 kA	6 kA

40 to 125 A iSW switch-disconnectors

Type	Width in		Rating	Reference
	9mm mod			
1P	2		40 A	A9S60140
			63 A	A9S60163
			100 A	A9S60191
			125 A	A9S60192
2P	4		40 A	A9S60240
			63 A	A9S60263
			100 A	A9S60291
			125 A	A9S60292
3P	6		40 A	A9S60340
			63 A	A9S60363
			100 A	A9S60391
			125 A	A9S60392
4P	8		40 A	A9S60440
			63 A	A9S60463
			100 A	A9S60491
			125 A	A9S60492

Auxiliary


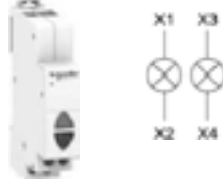

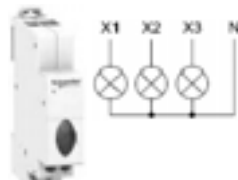
Type	Width in		Voltage (Ue)	Reference
	9mm mod	Rating		
OF iSW	2	3 A	415 A VC	A9A15096
		6 A	250 V AC	

iLL indicator lights

IEC 60947-5-1

■ iLL indicator lights light up to indicate that a voltage is present.

iLL indicator lights

Type	Diagram	Voltage	Colour	Reference
Single		110...230 V AC	Red	A9E18320
			Green	A9E18321
			White	A9E18322
			Blue	A9E18323
			Yellow	A9E18324
Double			Green/red	A9E18325
			White/ white	A9E18328
Flashing light			Red	A9E18326
Three-phase voltage presence indicator light		230...400 V AC (3 phases)	Red/ red/ red	A9E18327

D

iPB pushbuttons

IEC 60669-1 and IEC 60947-5-1

- iPB pushbuttons are used to control electric circuits by means of pulses.

iPB pushbuttons



Type	Diagram	Contact	pushbutton	
			Colour	Reference
Single		1 NC	Grey	A9E18030
			Red	A9E18031
		1 NO	Grey	A9E18032
			1 NO+ 1 NC	Grey
Double		1 NO/1 NC	Green/red	A9E18034
		1 NO/1 NO	Grey/grey	A9E18035

IEC/EN 61643-11

Type 2 surge arresters

Pole	Type	I _{max} (kA)	Reference	
3P + N	iPRD 65r	65	A9L16559	
	iPRD 40r	40	A9L16564	
	iPRD 40	40	A9L16569	
	iPRD 20r	20	A9L16674	
	iPRD 20	20	A9L16574	
	iPRD 8r	8	A9L16679	
	iPRD 8	8	A9L16579	
	iPF 65r	65	A9L15685	
	iPF 65	65	A9L15586	
	iPF 40r	40	A9L15690	
	iPF 40	40	A9L15688	
	iPF 20	20	A9L15693	
	iPF 8	8	A9L15696	
	1P + N	iPRD 65r	65	A9L16557
iPRD 40r		40	A9L16562	
iPRD 40		40	A9L16567	
iPRD 20r		20	A9L16672	
iPRD 20		20	A9L16572	
iPRD 8r		8	A9L16677	
iPRD 8		8	A9L16577	
iPF 65		65	A9L15684	
iPF 40		40	A9L15687	
iPF 20		20	A9L15692	
iPF 8		8	A9L15695	
2P		iPRD 40	40	A9L16667
1P		iPRD 65r	65	A9L16556
		iPRD 40r	40	A9L16561
	iPRD 40	40	A9L16566	
	iPRD 20	20	A9L16571	
	iPRD 8	8	A9L16576	
	iPF 65	65	A9L15683	
	iPF 40	40	A9L15686	
	iPF 20	20	A9L15691	
iPF 8	8	A9L15694		
4P	iPRD 40	40	A9L16669	
Cartridges for PRD				
	C65-340	65	A9L16681	
	C40-340	40	A9L16685	
	C20-340	20	A9L16687	
	C8-340	8	A9L16689	
	C neutral		A9L16691	

D

Control components

Programmable and mechanical time switches

Programmable time switches

230VAC ±10% 50/60Hz

Time accuracy: ±1 second per day at 20°C

Type	Number of channels	Min. time between 2 switching operations	Number of switching operations	Saving on mains cut off	Override controls On / Off	Contact rating (A)	Reference
24 hours and /or 7 days							
IHP 1c	1	1 min.	56	6	On / Off	16	CCT15850
IHP+1c	1	1 sec.	84	6	On / Off	16	CCT15851
IHP 2c	2	1 min.	56	6	On / Off	16	CCT15852
IHP+2c	2	1 sec.	84	6	On / Off	16	CCT15853
IHP 1c18mm	1	1 min.	28	3	On / Off	16	CCT15854
Accessories							
Programming kit for PC consist of programming device, a memory key, a CDROM and a 2m USB cable.							CCT15860
Memory key for saving and duplicating programs.							CCT15861



Memory key



Programming kit for PC

Mechanical time switches

230VAC ±10% 50/60Hz

Time accuracy: ±1 second per day at 20°C

Type	Number of channels	Min. time between 2 switching operations	Number of switching operations	Saving on mains cut off	Override controls On / Off	Contact rating (A)	Reference
24 hours or 7 days							
IHH 7d 1c ARM	1	2h	42 On - 42 Off	100 h	On / Off	16	15331
IH 24h 1c ARM	1	15 mins.	48 On - 48 Off	100 h	On / Off	16	15336
60 min, 24 hrs, 7days							
Type	Number of channels	Min. time between 2 switching operations	Number of switching operations	Saving on mains cut off	Override controls On / Off	Contact rating (A)	Reference
IH 60 mn 1c SRM	1	1 min. 15 s	24 On - 24 Off	none	On	16	CCT15338
IH 24h 1c SRM	1	30 min.	24 On - 24 Off	none	On	16	CCT16364
IH 24h 1c ARM	1	30 min.	24 On - 24 Off	150 h	On	16	CCT15365
IH 24h 2c ARM	2	30 min.	24 On - 24 Off	150 h	On	16	15337
IH 7d 1c ARM	1	4 h	21 On - 21 Off	150 h	On	16	CCT15367
IH 24 h + 7d 1+1c ARM	1+1	45 min. + 12 h	16 On - 16 Off + 7 On -7 Off	150 h	On	16	15366
Accessories							
Description							Reference
Extra jumpers	1 set of 20 riders (5 each of red, green, white and yellow)						15341



IHH 7d 1c ARM



IH 60 mn 1c SRM



IH 24 h + 7d 1+1c ARM

Control components

Light sensitive switches

Timer

Light sensitive switches

Type	Adjustable Time Delay	Adjustable Brightness (lux)	Voltage (V)	Contact Rating (A)	Reference
IC 200	time delay before switch ON and switch OFF ≥ 40 s	2 - 200	220/240	10	CCT15284
IC 2000	time delay: before switch ON and switch OFF ≥ 80 s	2 - 2000	220/240	10	CCT15368



Accessories for IC light sensitive switches

Description	Type	Reference
Spare photo-cell	Panel front face type Wall type	15281 CCT15268

MIN Timer (1)

	Adjustable Time Delay	Voltage (V)	Rating (A)	Reference
MIN	1 - 7 min	220/240	16	15363
Terminal shields for MIN timer				15359

(1) Discount code is CA

D

Remote control

Time delay relays

RT Time delay relays

Time delay range: 0.1 s to 100 h

Control and supply voltage:

- 24V DC \pm 10%
- 24...240V AC \pm 10%
- RTMF: 12...240V AC/DC \pm 10%

Frequency: 50...60Hz



16065



16066



16067



16068



16069



16070

Type	Description		Reference
RTA	Delays energisation of a load		16065
RTB	Applies a time delay to energisation of a load on closing of an auxiliary contact (pushbutton)		16066
RTC	Delays energisation of a load on closing of an auxiliary contact (Pushbutton)		16067
RTH	Applies a time delay to de-energisation of a load		16068
RTL	Applies a time delay to energisation and de-energisation of a load for different periods of time, repeatedly (flashing indicator).		16069
RTMF	Lets you select one of the 4 time delay types: A, B, C or H		16070

D

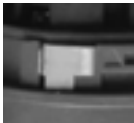
PK Industrial Plugs

Low voltage



Rapidity

¼ rotation without screws for opening and closing system



Safety

stainless-steel insert (spring)
No « accidental » opening by general public at temporary site



Functionality & ergonomics

□ the cap of the wander socket is provided with fin for easy maneuver during the insertion into the plug

□ comfortable handgrip even with worn gloves.



Environmentally Friendly

the used thermoplastic materials are free from halogen, cadmium, silicon and PVC and they are totally recyclable.

PK wander plugs

Rated voltage V ac	Rated current A	Poles and wires	Clock position of contact	Protection	Reference
100-130	16	2P+E	4 h	IP44	PKE16M413
	200-250	16	2P+E	6 h	IP44
32		2P+E	6 h	IP44	PKE32M423
380-415	16	3P+E	6 h	IP44	PKE16M434
		3P+N+E	6 h	IP44	PKE16M435
	32	3P+E	6 h	IP44	PKE32M434
		3P+N+E	6 h	IP44	PKE32M435
	63	3P+E	6 h	IP67	81382
		3P+N+E	6 h	IP67	81383
	125	3P+E	6 h	IP67	81394
		3P+N+E	6 h	IP67	81395

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PK Industrial Sockets

Low voltage (Cont.)



PK Sockets		
Wander sockets	Wall-mounted sockets	Panel mounted sockets
Reference	Reference	Reference
PKF16M413	83101	PKF16F413
PKF16M423	83104	PKF16F423
PKF32M423	83116	PKF32F423
PKF16M434	83108	PKF16F434
PKF16M435	83109	PKF16F435
PKF32M434	83120	PKF32F434
PKF32M435	83121	PKF32F435
81482	81182	81282
81483	81183	81283
81494	81194	81294
81495	81195	81295

D

Circuit protection

Isolatable fuse-carriers without fuse

IEC 947.3

STI isolatable fuse-carriers without fuse

Pole	Size of Fuses (mm)	Voltage (V)	Ampere Rating (A)	Reference
1P	8.5 x 31.5	400	0.5 to 20	15635
	10.3 x 38	500	1 to 32	15636
1P+N	8.5 x 31.5	400	0.5 to 20	15645
	10.3 x 38	500	1 to 32	15646
2P	8.5 x 31.5	400	0.5 to 20	15650
	10.3 x 38	500	1 to 32	15651
3P	8.5 x 31.5	400	0.5 to 20	15655
	10.3 x 38	500	1 to 32	15656



15635



15650



15655

D

Switch-Disconnectors

Compact INS40 to 160

Complete fixed/FC device and accessories

E1

Compact INS250 to 630

Complete fixed/FC device and accessories

E2

Compact INS630b to 2500

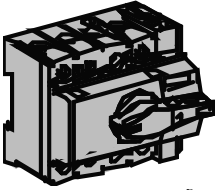
Complete fixed/FC device and accessories

E3

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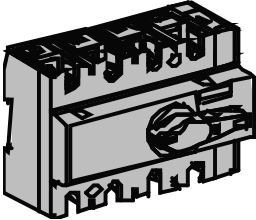
INS40 to 160**Complete fixed/FC device and accessories****Compact INS40 to 160 standard version with black handle**

E33365

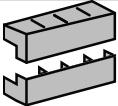


	3 Pole	4 Pole
Compact INS40	28900	28901
Compact INS63	28902	28903
Compact INS80	28904	28905

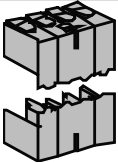
E33366



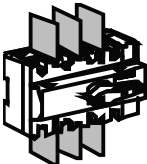
	3 Pole	4 Pole
Compact INS100	28908	28909
Compact INS125	28910	28911
Compact INS160	28912	28913

Connection accessories**Terminal shrouds**

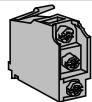
Compact INS40 to 80	3P/4P	Set of 2	28955
Compact INS100 to 160	3P/4P	Set of 2	28956

Terminal shields

Compact INS40 to 80	3P/4P	Set of 2	28957
Compact INS100 to 160	3P/4P	Set of 2	28958

Interphase barriers

Compact INS100 to 160	3P/4P	Set of 6	28959
-----------------------	-------	----------	-------

Electrical auxiliaries**Auxiliary contacts**

1 OF / CAF / CAO (standard)	INS40 to 160	29450
1 OF / CAF / CAO (low level)	INS40 to 160	29452

Rotary handles**Accessories for conversion to extended rotary handles**

Front control	Black handle	INS40 to 160	28941
	Red handle on yellow front	INS40 to 160	28942

E

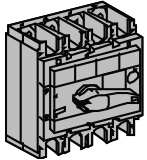
INS250 to 630

Complete fixed/FC device and accessories

Compact INS250 to 630 standard version with black handle



INS250

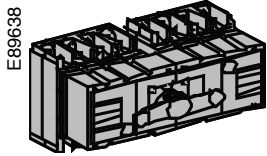


INS320 - 630

	3 Pole	4 Pole
Compact INS250	31106	31107
Compact INS320	31108	31109
Compact INS400	31110	31111
Compact INS500	31112	31113
Compact INS630	31114	31115

Source changeover systems

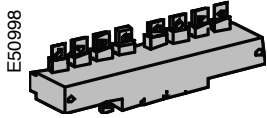
Complete assembly



E89638

	3 Pole	4 Pole
With Compact INS250	31146	31147
With Compact INS320	31148	31149
With Compact INS400	31150	31151
With Compact INS500	31152	31153
With Compact INS630	31154	31155

Downstream coupling accessories

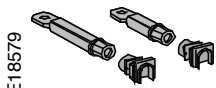


E50998

	3 Pole	4 Pole
For Compact INS250	29358	29359
Long downstream 3P/4P terminal shields (set of 2)	-	29324
For Compact INS320 to 630	32619	32620
Long downstream 3P/4P terminal shields (set of 2)	-	32565

Connection accessories

Rear connections



E18579

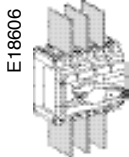
	INS250	INS320-630
Short (1 pair)	29235	32475
Long (1 pair)	29236	32476

Terminal shields



Short	3/4 P	Set of 2	29322	32563
Long	3/4 P	Set of 2	29324	32565
Long for 52.5 mm spreader (supplied with insulating plate)		Set of 2		32583

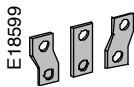
Interphase barriers



E18606

	Set of 6	29329	32570
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Spreaders (for upstream or downstream connection)



E18599

One-piece	52.5 mm	3P	32490
		4P	32491
	70 mm	3P	32492
		4P	32493

Electrical auxiliaries

Auxiliary contacts (changeover type)



E18608

OF or CAM (early make or break)	29450
Low level OF or CAM (early make or break)	29452

Rotary handles

Extended front control



For Compact INS250 with standard rotary handle	31050
For Compact INS320/400/630 with standard rotary handle	31052

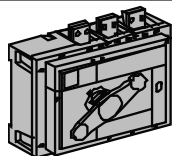
Note: This range will remain as "Interpact" until 1st July 2013

INS630b to 1600

Complete fixed/FC device and accessories

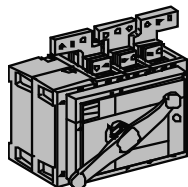
Compact INS630b to 2500 standard version with black handle

E88699



	3 Pole	4 Pole
Compact INS630b	31342	31343
Compact INS800	31330	31331
Compact INS1000	31332	31333
Compact INS1250	31334	31335
Compact INS1600	31336	31337

E89623



Connection accessories

Spreaders

E88703

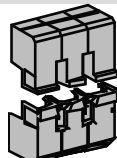


Compact INS630b/1600	3P	Set of 3	31305
	4P	Set of 4	31306

Insulation accessories

Terminal shield (requires base for terminal shield)

E88705



Compact INS630b/1600	3P	33628
	4P	33629

Electrical auxiliaries

Auxiliary contacts (changeover type)

E18608



OF or CAM (early make or break)	29450
OF or CAM low level (early make or break)	29452

Extended front control

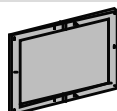


Compact INS630b-2500	For standard rotary handle	31288
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Installation accessories

Escutcheon

E88707



Compact INS630b-2500	3P/4P	31295
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Earth Leakage Relays

Vigirex

Vigirex RH86, RH99 with local manual fault reset, F1
Vigirex RHU with local fault reset (communicating)

Sensors

Closed toroids, A-type F1

RH86 with local manual fault reset

System to be protected	LV < 1000 V	RH86M	RH86P
			
		DIN-rail mount.	Front-panel mount.

Sensitivity 30 mA to 10A - instantaneous to 0.5 s time delay

Power supply		Reference	Reference	
	220 to 240 V AC	50/60 Hz	56500	56502
	380 to 415 V AC	50/60 Hz	56501	56503

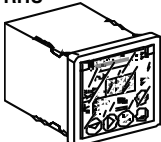
RH99 with local manual fault reset

System to be protected	LV ≤ 1000 V	RH99M	RH99P
			
		DIN-rail mount.	Front-panel mount.

Sensitivity 30 mA to 30 A - instantaneous or with 0 to 4.5 s time delay

Power supply		Reference	Reference	
	12 to 24 V AC - 12 to 48 V DC	50/60 Hz	56170	56270
	48 V AC	50/60 Hz	56171	56271
	110 to 130 V AC	50/60 Hz	56172	56272
	220 to 240 V AC	50/60/400 Hz	56173	56273
	380 to 415 V AC	50/60 Hz	56174	56274
	440 to 525 V AC	50/60 Hz	56175	56275

RHU with local manual fault reset (communicating)

System to be protected	LV < 1000 V	RHU
		

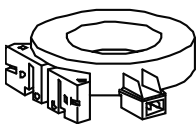
Alarm: sensitivity 15 mA to 30 A - instantaneous or with 0 to 5 s time delay

Fault: sensitivity 30 mA to 30 A - instantaneous or with 0 to 5 s time delay

Single-phase power supply	Voltage	Frequency	Reference
	48 V AC	50/60 Hz	28570
	110 to 130 V AC	50/60 Hz	28569
	220 to 240 V AC	50/60/400 Hz	28560

Sensors

Closed toroids, A-type

	Type	le (A) rated operational current	Inside diameter (mm)	Reference
	TA30	65	30	50437
	PA50	85	50	50438
	IA80	160	80	50439
	MA120	250	120	50440
	SA200	400	200	50441
	GA300	630	300	50442

Control & protection components:

TeSys contactors

SK Mini-contactors and accessories	G1
K Contactors	G2
Accessories and thermal overload relays for K contactors	G4
TeSys D contactors	G6
Auxiliaries and accessories for TeSys D contactors	G11
TeSys D thermal overload relays and accessories	G14
TeSys T Motor Magnet System LTR	G17
F contactors	G18
Frangible electronic thermal overload relays LR 9F	G20

TeSys protection components

Thermal-magnetic motor circuit breakers GV2ME	G21
Thermal-magnetic motor circuit breakers GV2PGV3P and GV3ME 80	G22
Magnetic motor circuit breakers GV3L	G22
Thermal-magnetic motor circuit breakers GV7R and GV2RT	G23
Add-on blocks and accessories for GV2, GV3P	G24
Add-on blocks and accessories for GV3ME80 and GV7R	G25
Accessories for GV2 and GV7R	G26

TeSys motor starters

Phase-locked combination starters GV2DM	G27
Sub-assembly DDL motor starters by customer	G28
Sub-assembly Star-Delta motor starters by customer	G30
Sub-assembly Auto-Transformer motor starters by customer	G34
Sub-assembly DDL starters with circuit breaker and overload protection built into circuit breaker	G36

Enclosed motor starters

DDL starter with 3-phase thermal overload relay	G38
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TeSys motor starters - open version

TeSys Starter-cotrollers	
- Non Reversing power bases and auxiliary and accessories	G39
Modular Starter-controllers	
- Standard and advanced control units	G41
- Multifunction control units and accessories	G42
- Function modules and parallel wiring module	G43
- Modbus communication modules and pre-wired coil connection components	G44
Communication gateway LFP	G45

CA Control relays

CA•SK control relays and accessories	G46
CA•K control relays and accessories	G47
CAD control relays and accessories	G48

TeSys contactors

Mini-contactors, models LC1SK, LP1SK & LC1SKGC

Up to 9A in utilisation category AC-3,

Up to 20A in utilisation category AC-1

Mini-contactors for motor control



LC1-SK06

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3 (1)			Rated operational voltage in AC3	Non inductive loads max. current utilisation cat. AC-1	No of power pole	Aux. contact	Basic reference, to be completed by adding the voltage code (2)
220V	380V	660V	up to 400V	A	A		
kW	kW	kW					
1.1	2.2	2.2	6	12	2		LC1SK0600●●
-	-	-	5	20	2		LC1SKGC200●●
1.1	4	4	9	20	3	1N/O	LC1SKGC310●●
					3	1N/C	LC1SKGC301●●
					4	-	LC1SKGC400●●



LA1-SK10

Add-on block with 1 power pole (for 3 phase circuits)				
For use on contactor	Number of power poles	Instantaneous aux. contacts		Reference
		N/O	N/C	
LC1SK06 clip-on	1	1	-	LA1SK10
front mounting	1	-	1	LA1SK01



LA1-SK11

Instantaneous auxiliary contact blocks (clips-on front mounting)				
For use on contactor	Max. number of blocks per contactors	Composition		Reference
		N/O	N/C	
LC1SK06	1	2	-	LA1SK20
		-	2	LA1SK02
		1	1	LA1SK11



LA4-SK*1e

Coil suppressor modules (connection without tool by clipping onto right-hand side)				
For use on contactor	Type	For voltage	Sold in lot of	Reference
LC1SK06,	Varistor	24...48V ac/dc	10	LA4SKE1E
LP1SK06,		110...250V ac/dc	10	LA4SKE1U
LC1SKGC	Diode	24...250V dc	10	LA4SKC1U

(1) For use in category AC-3, and on 3-phase circuits, order separately an add-on block with 1 power pole LA1-SK11 to be fitted on the contactor.

(2) Standard control circuit voltages. Consult us for other coil voltages.

Replace suffix ●● with below voltage code

Mini-contactor LC1SK and LC1SKGC							
Volts 50/60Hz	24	48	110	220	230	240	400
Code	B7	E7	F7	M7	P7	U7	V7
Mini-contactor LP1SK							
Volts DC	12	24	36	48			
Code	JD	BD	CD	ED			



TeSys contactors

K contactors for motor control

6 to 16A in utilisation category AC-3, 6 to 12A in cat. AC-4

Control circuit: a.c. /d.c. or low consumption

K contactors for motor control

- Mounting on 35mm rail or diameter 4 screw fixing
- Screws in open "ready- to- tighten" position.
- Screw clamp connections

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3		Rated operational current in AC-3 up to 440V	Instantaneous auxiliary contacts		Basic reference, to be completed by adding the voltage code (1)
220/230V	380/415V	A	N/O	N/C	

3-pole contactors for standard applications (2)

kW	kW	A	N/O	N/C	
1.5	2.2	6	1	-	LC1K0610●●
			-	1	LC1K0601●●
2.2	4	9	1	-	LC1K0910●●
			-	1	LC1K0901●●
3	5.5	12	1	-	LC1K1210●●
			-	1	LC1K1201●●
4	7.5	16	1	-	LC1K1610●●
			-	1	LC1K1601●●

3-pole contactors, d.c. supply (1) (3)

kW	kW	A	N/O	N/C	
1.5	2.2	6	1	-	LP1K0610●●
			-	1	LP1K0601●●
2.2	4	9	1	-	LP1K0910●●
			-	1	LP1K0901●●
3	5.5	12	1	-	LP1K1210●●
			-	1	LP1K1201●●

3-pole low consumption contactors (1) (3)

kW	kW	A	N/O	N/C	
1.5	2.2	6	1	-	LP4K0610●●●
			-	1	LP4K0601●●●
2.2	4	9	1	-	LP4K0910●●●
			-	1	LP4K0901●●●
3	5.5	12	1	-	LP4K1210●●●
			-	1	LP4K1201●●●

Auxiliary contact blocks and add-on modules: see page G4 and G5

(1) Standard control circuit voltages. Consult us for other coil voltages.

Replace suffix ●● with below voltage code

a.c. coil for contactor LC1K & LC2K (0.8...1.15 Uc) (0.85...1.1Uc)

Volts ~	24 (2)	48	110	220/230	230	230/240	230	400/415
---------	--------	----	-----	---------	-----	---------	-----	---------

Code	B7	E7	F7	M7	P7	U7	P7	N7
------	----	----	----	----	----	----	----	----

d.c. coil for contactor LP1K & LP2K (0.8...1.15 Uc)

Volts DC	12	24(3)	48	110	220
----------	----	-------	----	-----	-----

Code	JD	BD	ED	FD	MD
------	----	----	----	----	----

Replace suffix ●●● with below voltage code

low consumption coil for contactor LP4K & LP5K (0.7...1.30 Uc)

Volts	12	24	48
-------	----	----	----

Code	JW3	BW3	EW3
------	-----	-----	-----

(2) For LC1K, main supplies with high level of interface (voltage surge >800V), use a suppressor module

LA4KE1FC (50...129V) or LA4KE1UG (130...250V)

(3) For LP1K only, when connecting an electronic sensor or timer in series with the contactor coil, select a 20V coil dc control circuit voltage code ZD so as to compensate for the incurred voltage drop.



LC1-K0910●●



LP1-K0910●●

TeSys contactors

K contactors for control
in utilisation category AC-1, 20A

Control circuit: a.c. /d.c. or low consumption

K contactors for control in utilisation category AC-1

- Mounting on 35mm rail or diameter 4 screw fixing
- Screws in open "ready- to- tighten" position.
- Screw clamp connections

Non inductive loads Category AC-1 Maximum current at $\theta \leq 50^\circ\text{C}$	Number of poles		Instantaneous auxiliary contacts		Basic reference, to be completed by adding the voltage code (1)
--	--------------------	--	--	--	--

3 or 4-pole contactors for standard applications (2)

A	N/O	N/C	N/O	N/C	
20	3	-	1	-	LC1K0910●● or LC1K1210●●
	3	-	-	1	LC1K0901●● or LC1K1201●●
	4	-	-	-	LC1K09004●● or LC1K12004●●
	2	2	-	-	LC1K09008●●

3 or 4-pole contactors, d.c. supply

20	3	-	1	-	LP1K0910●● or LP1K1210●●
	3	-	-	1	LP1K0901●● or LP1K1201●●
	4	-	-	-	LP1K09004●● or LP1K12004●●
	2	2	-	-	LP1K09008●●

3 and 4 pole low consumption contactors

20	3	-	1	-	LP4K0910●●● or LP4K1210●●●
	3	-	-	1	LP4K0901●●● or LP4K1201●●●
	4	-	-	-	LP4K09004●●● or LP4K12004●●●
	2	2	-	-	LP4K09008●●●

Auxiliary contact blocks and add-on modules: see page G4 and G5

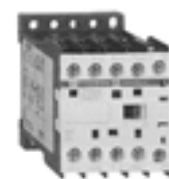
- (1) Standard control circuit voltages, see page G2
 (2) For main supplies with high level of interference (voltage surge > 800V), use a suppressor module
 LA4KE1FC (50...129V) or LA4KE1UG (130...250V).



LP1-K0910●●



LP1-K09103●●



LP4-K09004●●●

TeSys contactors

K contactors

type LC●-K and LP●-K

Auxiliary contact blocks and suppressor modules

Instantaneous auxiliary contact blocks



LA1-KN20

Recommended for standard applications.

Clip-on front mounting. 1 block per contactor

Type of connection	For use on contactor	Composition		Reference
		N/O	N/C	
Screw clamps	All products with screw clamps	2	-	LA1KN20
		-	2	LA1KN02
		1	1	LA1KN11
	All products with screw clamps except low consumption	4	-	LA1KN40
		3	1	LA1KN31
		2	2	LA1KN22
		1	3	LA1KN13
-	4	LA1KN04		

Electronic time delay auxiliary contact blocks



LA2-KT2*

Clip-on front mounting, 1 block per contactor

- Relay output, with common point changeover contact, 240 Vac or dc, 2A maximum
- Control voltage :0.85...1.1Uc.
- Maximum switching capacity: 250VA or 150W.
- Operating temperature: -10...+60°C
- Reset time: 1.5s during the time delay period, 0.5s after the time delay period.

Voltage (V)	Type	Timing range sec.	Composition C/O	Reference
a.c. or d.c. 24...48	On-delay	1...30	1	LA2KT2E
a.c. 110...240	On-delay	1...30	1	LA2KT2U

Suppressor modules incorporating LED indicator



LA4-K...

Clip-on fixing on the front of contactors LC1 and LP1, with locating device.

No tools required.

Type	For Voltages	Reference
Varistor (1)	12...24V AC/DC	LA4KE1B
Diode + Zener diode (2)	12...24V DC	LA4KC1B
RC (3)	220...250V AC	LA4KA1U

(1) Protection by limitation of the transient voltage up to 2 Uc maximum.

Maximum reduction of transient voltage peaks.

Slight-time delay on drop-out (1.1 to 1.5 times the normal time).

(2) No overvoltage or oscillation frequency.

Polarised component.

Slight-time delay on drop-out (1.1 to 1.5 times the normal time).

(3) Protection by limitation of the transient voltage up to 3 Uc max. and limitation of the oscillating frequency.

Slight time delay on drop-out (1.2 to 2 times the normal time).

TeSys contactors

Thermal overload relays LR2K adjustable from 0.11 to 16A

Thermal overload relays with screw clamp terminals adjustable from 0.1 to 16A



LR2-K0301



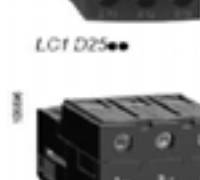






Class 10A				
(the standard specifies a tripping time of between 2 and 10 seconds at 7.2 In)				
Relay setting range	Fuses to be used with selected relay			Reference
	aM	gG	BS88	
(A)	A	A	A	
0.11 - 0.16	0.25	0.5	-	LR2K0301
0.16 - 0.23	0.25	0.5	-	LR2K0302
0.23 - 0.36	0.5	1	-	LR2K0303
0.36 - 0.54	1	1.6	-	LR2K0304
0.54 - 0.80	1	2	-	LR2K0305
0.80 - 1.20	2	4	6	LR2K0306
1.20 - 1.80	2	6	6	LR2K0307
1.80 - 2.60	4	8	10	LR2K0308
2.60 - 3.70	4	10	16	LR2K0310
3.70 - 5.50	6	16	16	LR2K0312
5.50 - 8.00	8	20	20	LR2K0314
8.00 - 11.5	10	25	20	LR2K0316
10.0 - 14.0	16	32	25	LR2K0321
12.0 - 16.0	20	40	32	LR2K0322

G

TeSys contactors

TeSys D 3 pole contactors for motor control
up to 75kW at 400 V, in category AC-3

TeSys D 3-pole contactors for motor control

Image	Standard power ratings of 3-phase motors 50/60 Hz in category AC-3 at $\theta \leq 60^\circ\text{C}$			Rated operational current in AC-3 up to 440V	Instantaneous auxiliary contacts		Control circuit voltage	Basic reference, to be completed by adding the voltage code (1)
	230V	400V	415V		N/O	N/C		
 LC1D09●●	Connection by screw clamp terminals							
	2.2	4	4	9	1	1	A.C.	LC1D09●7
							D.C.	LC1D09●D
 LC1D12●●	3	5.5	5.5	12	1	1	A.C.	LC1D12●7
							D.C.	LC1D12●D
							L.C.	LC1D12●L
 LC1D18●●	4	7.5	9	18	1	1	A.C.	LC1D18●7
							D.C.	LC1D18●D
							L.C.	LC1D18●L
 LC1D25●●	5.5	11	11	25	1	1	A.C.	LC1D25●7
							D.C.	LC1D25●D
							L.C.	LC1D25●L
 LC1D32●●	7.5	15	15	32	1	1	A.C.	LC1D32●7
							D.C.	LC1D32●D
							L.C.	LC1D32●L
 LC1D38●●	9	18.5	18.5	38	1	1	A.C.	LC1D38●7
							D.C.	LC1D38●D
							L.C.	LC1D38●L
 LC1D40●●	Power connections by EverLink® BTR screw connectors (2) and control by spring terminals							
	11	18.5	22	40	1	1	A.C.	LC1D40A●7
							D.C.(3)	LC1D40A●D
 LC1D50●●	15	22	25	50	1	1	A.C.	LC1D50A●7
							D.C.(3)	LC1D50A●D
							A.C.	LC1D50A●7
 LC1D65●●	18.5	30	30	65	1	1	A.C.	LC1D65A●7
							D.C.(3)	LC1D65A●D
							A.C.	LC1D65A●7
 LC1D80●●	Connection by screw clamp terminals or connectors							
	22	37	45	80	1	1	A.C.	LC1D80●7
							D.C.	LC1D80●D
 LC1D95●●	25	45	45	95	1	1	A.C.	LC1D95●7
							D.C.	LC1D95●D
							A.C.	LC1D95●7
 LC1D115●●	30	55	59	115	1	1	A.C.	LC1D115●7
							D.C.	LC1D115●D
							A.C.	LC1D115●7
 LC1D150●●	40	75	80	150	1	1	A.C.	LC1D150●7
							D.C.	LC1D150●D
							A.C.	LC1D150●7

Auxiliary contact blocks and add-on modules: see page G11 to G13

(1) Standard control circuit voltages. Consult us for other voltages.

A.C. supply (Replace suffix ●7 with below control circuit voltage code)

Volts 24 48 110 220 230 240 380 415 440

LC1D09...D150 (D115 and D150 coils with integral suppression device fitted as standard)

50/60 Hz B7 E7 F7 M7 P7 U7 Q7 N7 R7

D.C. supply (Replace suffix ●D with below control circuit voltage code)

Volts 24 48 110 220

LC1D09...D65A (coils with integral suppression device fitted as standard)

U 0.7...1.25Uc BD ED FD MD

LC1-D80...D95

U 0.85...1.1 Uc BD ED FD MD

U 0.75...1.2 Uc BW EW FW MW

LC1-D115 and D150 (coils with integral suppression device fitted as standard)

U 0.75...1.2 Uc BD

L.C. is Low consumption coil (Replace suffix ●L with below control circuit voltage code)

Volts 24 110

LC1D09...D38 (coils with integral suppression device fitted as standard) and LC1DT20...DT40

U 0.7...1.25 Uc BL FL

(2) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LAD ALLEN4)

(3) For low consumption kit LA4 DBL

TeSys contactors

TeSys D 3-pole contactors

for control in utilisation category AC-1, 25
to 200A

TeSys D 3-pole contactors for control in utilisation category AC-1

Non inductive loads max. current utilisation cat. AC-1 at $\theta \leq 60\text{ °C}$	Number of poles		Instantaneous auxiliary contacts contacts		Control circuit voltage	Basic reference, to be completed by adding the voltage code (1)
	N/O	N/C	N/O	N/C		
Connection by screw clamp terminals						
25	3	-	1	1		A.C. LC1D09•7
						D.C. LC1D09•D
						L.C. LC1D09•L
						or
						A.C.(3) LC1D12•7
						D.C. LC1D12•D
32	3	-	1	1		A.C. LC1D18•7
						D.C. LC1D18•D
						L.C. LC1D18•L
40	3	-	1	1		A.C. LC1D25•7
						D.C. LC1D25•D
						L.C. LC1D25•L
50	3	-	1	1		A.C. LC1D32•7
						D.C. LC1D32•D
						L.C. LC1D32•L
						or
						A.C.(4) LC1D38•7
						D.C. LC1D38•D
Power connections by EverLink® BTR screw connectors (2) and control by spring terminals						
60	3	-	1	1		A.C. LC1D40A•7
						D.C. LC1D40A•D
80	3	-	1	1		A.C. LC1D50A•7
						D.C. LC1D50A•D
						or
						A.C.(4) LC1D65A•7
Connection by screw clamp terminals or connectors						
125	3	-	1	1		A.C. LC1D80•7
						D.C. LC1D80•D
						or
						A.C.(4) LC1D95•7
200	3	-	1	1		A.C. LC1D115•7
						D.C. LC1D115•D
						or
						A.C.(4) LC1D150•7
Auxiliary contact blocks and add-on modules: see page G11 to G13						

(1) See note (1) on page G6.

(2) See note (2) on page G6.

(3) Selection according to the number of operating cycles, see AC-1 curve in catalogue.

(4) For use with power connection module **LAD341** or outgoing terminal block **LAD331**.

TeSys contactors

TeSys D 4-pole contactors

for control in utilisation category AC-1, 20 to 200 A

TeSys D 4-pole contactors for motor control



Non inductive loads max. current utilisation cat. AC-1 at $\theta \leq 60^\circ\text{C}$	Number of poles		Instantaneous auxiliary contacts		Control circuit voltage	Basic reference, to be completed by adding the voltage code (1)
	N/O	N/C	N/O	N/C		
Connection by screw clamp terminals						
20	4	-	1	1	A.C.	LC1DT20•7
					D.C.	LC1DT20•D
					L.C.	LC1DT20•L
	2	2	1	1	A.C.	LC1D098•7
					D.C.	LC1D098•D
					L.C.	LC1D098•L
25	4	-	1	1	A.C.	LC1DT25•7
					D.C.	LC1DT25•D
					L.C.	LC1DT25•L
	2	2	1	1	A.C.	LC1D128•7
					D.C.	LC1D128•D
					L.C.	LC1D128•L
32	4	-	1	1	A.C.	LC1DT32•7
					D.C.	LC1DT32•D
					L.C.	LC1DT32•L
	2	2	1	1	A.C.	LC1D188•7
					D.C.	LC1D188•D
					L.C.	LC1D188•L
40	4	-	1	1	A.C.	LC1DT40•7
					D.C.	LC1DT40•D
					L.C.	LC1DT40•L
	2	2	1	1	A.C.	LC1D258•7
					D.C.	LC1D258•D
					L.C.	LC1D258•L
Power connections by EverLink® BTR screw connectors and control by spring terminals						
60	4	-	1	1	A.C.	LC1DT60A•7
					D.C.	LC1DT60A•D
					A.C.	LC1D40008•7
					D.C.	LP1D40008•D
					D.C.	LP1D40008•W
80	4	-	1	1	A.C.	LC1DT80A•7
					D.C.	LC1DT80A•D
					A.C.	LC1D65008•7
					D.C.	LP1D65008•D
					D.C.	LP1D65008•W
Connection by screw clamp terminals or connectors						
125	4	-	-	-	A.C.	LC1D80004•7
					D.C.	LP1D80004•D
					D.C.	LP1D80004•W
					A.C.	LC1D80008•7
					D.C.	LP1D80008•D
					D.C.	LP1D80008•W
200	4	-	-	-	A.C.	LC1D115004•7
					D.C.	LC1D115004•D

Auxiliary contact blocks and add-on modules: see page G11 to G13

(1) Standard control circuit voltages. Consult us for other voltages.

A.C. supply (Replace suffix •7 with below control circuit voltage code)

Volts	24	48	110	220	230	240	380	415	440
-------	----	----	-----	-----	-----	-----	-----	-----	-----

LC1D09...D150 and LC1DT20...DT80A (coils with integral suppression device fitted as standard)

50/60 Hz	B7	E7	F7	M7	P7	U7	Q7	N7	R7
----------	----	----	----	----	----	----	----	----	----

D.C. supply (Replace suffix •D or •W with below control circuit voltage code respectively)

Volts	24	48	110	220
-------	----	----	-----	-----

LC1D09...D65A and LC1DT20...DT80A (coils with integral suppression device fitted as standard)

U 0.7...1.25Uc	BD	ED	FD	MD
----------------	----	----	----	----

LP1 D40...D80

U 0.85...1.1 Uc	BD	ED	FD	MD
-----------------	----	----	----	----

U 0.75...1.2 Uc	BW	EW	FW	MW
-----------------	----	----	----	----

LC1-D115 (coils with integral suppression device fitted as standard)

U 0.75...1.2 Uc	BD	ED	FD	MD
-----------------	----	----	----	----

L.C. is Low consumption coil (Replace suffix •L with below control circuit voltage code)

Volts	24	110	220
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LC1D09...D38 and LC1DT20...DT40 (coils with integral suppression device fitted as standard)

U 0.8...1.25 Uc	BL	FL	ML
-----------------	----	----	----

(2) For low consumption kit LA4DBL.

TeSys contactors

TeSys D, 3-pole reversing contactors for motor control
up to 75 kW at 400 V, in category AC-3
Horizontally mounted, pre-assembled

TeSys D 3-pole reversing contactors for motor control



Standard power rating of 3-phase motors 50/60Hz in category AC-3			Rated operational current in AC-3 440 V up to at $\theta \leq 60^\circ\text{C}$	Instantaneous auxiliary contacts per contactor			Control circuit voltage	Basic reference, to be completed by adding the voltage code (1)
230V kW	400V kW	415V kW		A	N/O	N/C		
With mechanical interlock, without electrical interlocking								
2.2	4	4	9	1	1	(2)	A.C.	LC2D09•7
							D.C.	LC2D09•D
							L.C.	LC2D09•L
3	5.5	5.5	12	1	1	(2)	A.C.	LC2D12•7
							D.C.	LC2D12•D
							L.C.	LC2D12•L
4	7.5	9	18	1	1	(2)	A.C.	LC2D18•7
							D.C.	LC2D18•D
							L.C.	LC2D18•L
5.5	11	11	25	1	1	(2)	A.C.	LC2D25•7
							D.C.	LC2D25•D
							L.C.	LC2D25•L
7.5	15	15	32	1	1	(2)	A.C.	LC2D32•7
							D.C.	LC2D32•D
							L.C.	LC2D32•L
9	18.5	18.5	38	1	1	(2)	A.C.	LC2D38•7
							D.C.	LC2D38•D
							L.C.	LC2D38•L
11	18.5	22	40	1	1	(3)	A.C.	LC2D40A•7
							D.C.	LC2D40A•D
15	22	25	50	1	1	(3)	A.C.	LC2D50A•7
							D.C.	LC2D50A•D
18.5	30	37	65	1	1	(3)	A.C.	LC2D65A•7
							D.C.	LC2D65A•D
22	37	45	80	1	1		A.C.	LC2D80•7
25	45	45	95	1	1		A.C.	LC2D95•7
With mechanical interlock and electrical interlocking								
30	55	59	115	1	1		A.C.	LC2D115•7
40	75	80	150	1	1		A.C.	LC2D150•7



Auxiliary contact blocks and add-on modules: see page G11 to G13

(1) Standard control circuit voltages. Consult us for other voltages.

A.C. supply (Replace suffix •7 with below control circuit voltage code respectively)

Volts 24 42 48 110 220 230

LC2D09...D150 (coils D115 and D150 with integral suppression device fitted as standard)

50/60 Hz B7 D7 E7 F7 M7 P7

D.C. supply (Replace suffix •D with below control circuit voltage code)

Volts 12 24 48 72 110 125 220

LC2D09...D65A (coils with integral suppression device fitted as standard)

U 0.7...1.25Uc JD BD ED SD FD GD MD

L.C. is Low consumption coil (Replace suffix •L with below control circuit voltage code)

Volts 5 24 48 72 110 220

LC2D09...D38 (coils with integral suppression device fitted as standard)

U 0.8...1.25 Uc AL BL EL SL FL ML

(2) For reversing contactors with electrical interlocking pre-wired at the factory, add suffix V to the references selected above. Example: LC2D09P7 becomes LC2D09P7V. Consult your local sales office for price.

(3) For low consumption kit LA4DBL.

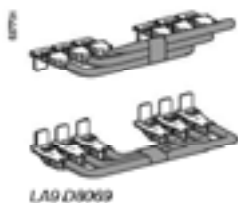
TeSys contactors

3 pole reversing contactors for motor control up to 18.5kW at 400V
4 pole change-over contactor pairs (3 phase + neutral)
in category AC-3, unassembled, horizontally mounted

TeSys 3-pole reversing contactors for motor control

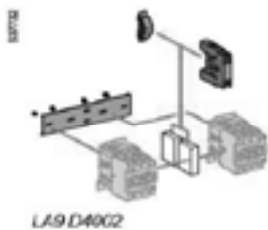
Component parts for customer assembling. Horizontally mounted assembled

Standard power rating of 3-phase motors 50/60Hz in category AC-3 415V	2 identical contactors Basic reference, to be completed by adding the voltage code	Set of power connections Reference	Price (S\$)	Mechanical interlock Reference
kW	A	(1)		
Including mechanical interlock with electrical interlocking and a set of power connections				
4	9	LC1D09•7	LAD9R1V (2)	
5.5	12	LC1D12•7	LAD9R1V (2)	
9	18	LC1D18•7	LAD9R1V (2)	
11	25	LC1D25•7	LAD9R1V (2)	
15	32	LC1D32•7	LAD9R1V (2)	
18.5	38	LC1D38•7	LAD9R1V (2)	
Including mechanical interlock without integral electrical interlocking				
22	40	LC1D40A•7	LA9D65A69	LAD4CM
25	50	LC1D50A•7	LA9D65A69	LAD4CM
37	65	LC1D65A•7	LA9D65A69	LAD4CM
Including mechanical interlock with integral electrical interlocking				
45	80	LC1D80•7	LA9D8069	LA9D4002
45	95	LC1D95•7	LA9D8069	LA9D4002
59	115	LC1D115•7	LA9D11569	LA9D11502
80	150	LC1D150•7	LA9D11569	LA9D11502



TeSys 4-pole change-over contactors

Utilisation category AC-1 Non-inductive loads operating current	2 identical contactors Basic reference, to be completed by adding the voltage code	Set of power connections Reference	Mechanical interlock Reference
A	(1)		
Including mechanical interlock with electrical interlocking and a set of power connections			
20	LC1DT20•7	LADT9R1V (2)	
25	LC1DT25•7	LADT9R1V (2)	
32	LC1DT32•7	LADT9R1V (2)	
40	LC1DT40•7	LADT9R1V (2)	
Including mechanical interlock without integral electrical interlocking			
60	LC1DT60A•7	-	LAD4CM
80	LC1DT80A•7	-	LAD4CM
Including mechanical interlock with integral electrical interlocking			
125	LC1D80004•7	LA9D8070	LA9D4002
200	LC1D115004•7	LA9D11570	LA9D11502



(1) Unit price is for standard A.C. control circuit voltages only. See page G6 for the other voltage code and price.

(2) A mechanical interlock with electrical interlocking and a set of power connections.

(3) This is for a.c. coil contactor only. Use LA9D8002 for d.c. coil contactor.

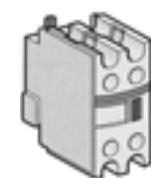
TeSys contactors

TeSys D contactors and reversing contactors
Auxiliary contact blocks,
components parts for assembling reversing contactors

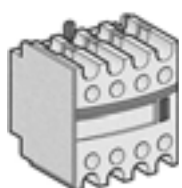
Instantaneous auxiliary contact blocks for connection by screw clamp terminals

For use in normal operating environments



In order to mount an LAD8N on an LC1D80 to D95, a set of shims must be ordered separately.



LAD-N



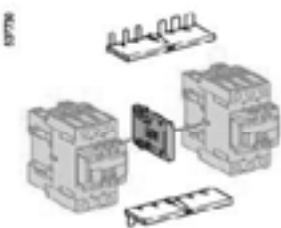
LAD-N, LAD-C

Clip-on mounting (1)	Nos. of contacts per block	Composition		Reference
				
Front	1	1	-	LADN10
		-	1	LADN01
	2	1	1	LADN11
		2	-	LADN20
		-	2	LADN02
		2	2	LADN22
	4	1	3	LADN13
		4	-	LADN40
		-	4	LADN04
		3	1	LADN31
4 incl. 1N/O & 1N/C make before break		2	2	LADC22
Side	2	1	1	LAD8N11
		2	-	LAD8N20
		-	2	LAD8N02

Kits for assembling of 3 pole reversing contactors.



LAD 9R1



LAD 9R3

Kits comprising	For contactors (2 identical connections)	Reference
~ mechanical interlock with electrical locking ~ set of power connections (parallel and reversing)	LC1D09...D38	LAD9R1V
~ mechanical interlock without electrical locking ~ set of power connections (parallel and reversing)	LC1D09...D38	LAD9R1
~ mechanical interlock ~ set of power connections	LC1D40A to D65A	LAD9R3

(1) Maximum number of auxiliary contact blocks that can be fitted. Refer to TeSys contactor catalogue.

TeSys contactors

TeSys D range contactors and reversing contactors
Time-delay auxiliary contacts
Mechanical latch block

Time delay auxiliary contact blocks for connection by screw clamp terminals

Maximum number of auxiliary contact blocks that can be fitted per contactor, refer to TeSys catalogue.

LADT0 and LADR0: with extended scale from 0.1 to 0.6 s.

LADS2: with switching time of 40 ms ± 15 ms between opening of the N/C contact and closing of the N/O contact.



LAD - T

Clip-on mounting	Number of contacts	Time delay Type	setting range	Reference
Front	1N/O	On-delay	0.1...3 s	LADT0
			0.1...30 s	LADT2
	+		10...180 s	LADT4
			1...30 s	LADS2
	1 N/C	Off-delay	0.1...3 s	LADR0
			0.1...30 s	LADR2
		10...180 s	LADR4	

Mechanical latch blocks (1)



LA6 - K

Clip-on mounting	Unlatching control	For use on contactor	Basic reference. Complete with code indicating control circuit voltage (2)
Front	Manual or electric	LC1 D09...D38 (a.c. or d.c.)	LAD6K10●
		LC1 DT20...DT40 (a.c. or d.c.)	
		LC1 D40A...D65A (3P a.c. or d.c.)	LAD6K10●
		LC1 DT60A and DT80A (4P a.c. or d.c.)	
		LC1 D80...D150 (3P a.c.)	LA6DK20●
		LC1 D80 and D115 (3P d.c.)	
	LC1 D80 (4P a.c.)		
	LC1 D80 and D115 (4P a.c.)		
		LP1 D80 and LC1 D115 (4P d.c.)	

(1) The mechanical latching block must not be powered up at the same time as the contactor.

The duration of the control signal for the mechanical latching block and the contactor should be:

≥ 100 ms for a contactor operating on an a.c. supply,

≥ 250 ms for a contactor operating on a d.c. supply.

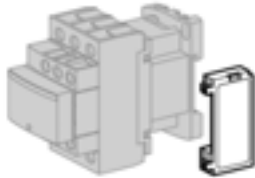
Maximum impulse duration: 10 seconds.

(2) Standard control circuit voltages. Consult us for other voltages.

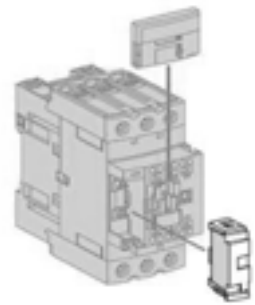
Replace suffix ● with below voltage code

Volts 50/60 Hz,	24	42/48	220/240
Code	B	E	M

Suppressor modules



LAD 4**



LAD 4RC3, LAD 4V3,
LAD 4D3U, LAD 4T3



LA4 D**

Mounting	For use with contactor (1)		Voltage		Reference
			Vac	Vdc	
RC circuits (resistor-capacitor)					
Clip-on side mounting (2)	D09...D38 (3P)		24...48	-	LAD4RCE
	DT20...DT40		110...250	-	LAD4RCU
Clip-on side mounting (2)	D40A...D65A (3P)		110...240		LAD4RC3U
	DT60A...DT80A (4P)				
Screw fixing (3)	D80...D150 (3P)		110...240	-	LA4DA2U
	D40...D115 (4P)				
Varistors (peak limiting)					
Clip-on side mounting (2)	D09...D38 (3P)		110...250	-	LAD4VU
	DT20...DT40				
Clip-on front mounting (2)	D40A...D65A (3P)		110...250	-	LAD4V3U
	DT60A...DT80A (4P)				
Screw fixing (3)	D80...D115 (3P)		110...250	-	LA4DE2U
	D80...D115 (4P)				
Flywheel diodes					
Clip-on side mounting (4)	D09...D38 (3P).		-	24...250	LAD4DDL
	DT20...DT40				
Clip-on front mounting (4)	D40A...D65A (3P).		-	24...250	LAD4D3U
	DT60A...DT80A (4P)				
Bidirectional peak limiting diode					
Clip-on side mounting (2) (4)	D09...D38 (3P)			24	LAD4TBDL
	DT20...DT40 (4P)				
Clip-on front mounting (2)	D40A...D65A (3P)		24	24	LAD4T3B
	DT60A...DT80A (4P)				
Electronic serial timer modules					
Type	Operational voltage		Time delay		Reference
	24...250V AC	100...250V AC			
On-delay	LC1DD09...D65A (3P)	LC1DD80...D150	0.1...2s		LA4DT0U
	and DT20...DT80A (4P)	(3P)	1.5...30s		LA4DT2U
Interface modules					
Type	Operational voltage		Supply voltage	Reference	
	24...250V AC	380...415V AC	E1-E2 (DC)		
Relay interface	LC1	-	24V	LA4DFB	
	D09...D150 (3P) and DT20...DT80A (4P)				
Type	Operational voltage		Supply voltage	Reference	
	24...250V AC	100...250V AC	E1-E2 (DC)		
Relay interface with "AUTO-I" manual override, solid state	LC1	LC1	24V	LA4DWB	
	D09...D65A (3P) and DT20...DT80A (4P)	D80...D115 (3P)			

- (1) For satisfactory protection, a suppressor module must be fitted across the coil of each contactor.
- (2) Clipping-on makes the electrical connection. The overall size of the contactor remains unchanged.
- (3) Mounting at the top of the contactor on coil terminals A1 and A2.
- (4) In order to install these accessories, the existing suppression device must first be removed.

Differential thermal overload relays

for use with fuses and magnetic circuit-breakers GV2L and GV3L

- Compensated relays with manual or automatic reset,
- with relay trip indicator,
- for a.c. or d.c.



Relay setting range	Fuses to be used with selected relay			For use with contactor LC1	Reference
	aM	gG	BS88		
A	A	A	A		
Class 10A (1) for connection by screw clamp terminals or connectors					
0.10...0.16	0.25	2	-	D09...D38	LRD01
0.16...0.25	0.5	2	-	D09...D38	LRD02
0.25...0.40	1	2	-	D09...D38	LRD03
0.40...0.63	1	2	-	D09...D38	LRD04
0.63...1	2	4	-	D09...D38	LRD05
1...1.7	2	4	6	D09...D38	LRD06
1.6...2.5	4	6	10	D09...D38	LRD07
2.5...4	6	10	16	D09...D38	LRD08
4...6	8	16	16	D09...D38	LRD10
5.5...8	12	20	20	D09...D38	LRD12
7...10	12	20	20	D09...D38	LRD14
9...13	16	25	25	D12...D38	LRD16
12...18	20	35	32	D18...D38	LRD21
16...24	25	50	50	D25...D38	LRD22
23...32	40	63	63	D25...D38	LRD32
30...38	50	80	80	D32 and D38	LRD35
Class 10A (1) for connection by EverLink®, BTR screw connectors (3)					
16...25	25	50	50	D40A...D65A	LRD325
23...32	40	63	63	D40A...D65A	LRD332
25...40	40	80	80	D40A...D65A	LRD340
37...50	63	100	100	D40A...D65A	LRD350
48...65	63	100	100	D50A...D65A	LRD365
Class 10A (1) for connection by screw clamp terminals or connectors					
55...70	80	125	125	D50 ... D95	LRD3361
63...80	80	125	125	D65 ... D95	LRD3363
80...104	100	160	160	D80 and D95	LRD3365
80...104	125	200	160	D115 and D150	LRD4365
95...120	125	200	200	D115 and D150	LRD4367
110...140	160	250	200	D150	LRD4369
80...104	100	160	160	(2)	LRD33656
95...120	125	200	200	(2)	LRD33676
110...140	160	250	200	(2)	LRD33696
Class 10A (1) for connection by spring terminal connection (for direct mounting on the contactor only)					
0.10...0.16	0.25	2	-	D09...D38	LRD013
0.16...0.25	0.5	2	-	D09...D38	LRD023
0.25...0.40	1	2	-	D09...D38	LRD033
0.40...0.63	1	2	-	D09...D38	LRD043
0.63...1	2	4	-	D09...D38	LRD053
1...1.6	2	4	6	D09...D38	LRD063
1.6...2.5	4	6	10	D09...D38	LRD073
2.5...4	6	10	16	D09...D38	LRD083
4...6	8	16	16	D09...D38	LRD103
5.5...8	12	20	20	D09...D38	LRD123
7...10	12	20	20	D09...D38	LRD143
9...13	16	25	25	D12...D38	LRD163
12...18	20	35	32	D18...D38	LRD213
16...24	25	50	50	D25...D38	LRD223

(1) Standard IEC 60947-4-1 specifies a tripping time for 7.2 times the setting current I_{R} : class 10A: between 2 and 10 seconds.

(2) Independent mounting of the contactor.

(3) BTR screws: hexagon socket head. In accordance with local electrical wiring regulations, a size 4 insulated Allen key must be used (reference LADALLEN4).



Differential thermal overload relays for use with fuses

- Compensated relays with manual or automatic reset,
- with relay trip indicator
- for a.c. or d.c



Relay setting range	Fuses to be used with selected relay			For use with contactor LC1	Reference
	aM	gG	BS88		
A	A	A	A		
Class 20 (1) for connection by screw clamp terminals					
2.5...4	6	10	16	D09...D32	LRD1508
4...6	8	16	16	D09...D32	LRD1510
5.5...8	12	20	20	D09...D32	LRD1512
7...10	16	20	25	D09...D32	LRD1514
9...13	16	25	25	D12...D32	LRD1516
12...18	25	35	40	D18...D32	LRD1521
17...25	32	50	50	D25 and D32	LRD1522
23...28	40	63	63	D25 and D32	LRD1530
25...32	40	63	63	D25 and D32	LRD1532
16...25	32	50	50	D40A...D65A	LRD325L
23...32	40	63	63	D40A...D65A	LRD332L
25...40	50	80	80	D40A...D65A	LRD340L
37...50	63	100	100	D40A...D65A	LRD350L
48...65	80	125	125	D40A...D65A	LRD365L
55...70	100	125	125	D65 ... D95	LR2D3561
63...80	100	160	125	D80 and D95	LR2D3563

Differential thermal overload relays

- Compensated relays with replay trip indicator.
- for a.c.
- for direct mounting on contactor or independent mounting



Relay setting range	Fuses to be used with selected relay		For direct mounting beneath contactor LC1	Reference
	aM	gG		
A	A	A		
Class 10 or 10A (1) for connection using bars or connectors				
60...100	100	160	D115 and D150	LR9D5367
90...150	160	250	D115 and D150	LR9D5369
Class 20 for connection using bars or connectors				
60...100	125	160	D115 and D150	LR9D5567
90...150	200	250	D115 and D150	LR9D5569

Electronic thermal overload relays for use with balanced or unbalanced loads

- Compensated relays.
- with separate outputs for alarm and tripping



Relay setting range	Fuses to be used with selected relay		For direct mounting beneath contactor LC1	Reference
	aM	gG		
A	A	A		
Class 10 or 20 (1) selectable with connection using bars or connectors				
60...100	100	160	D115 and D150	LR9D67
90...150	160	250	D115 and D150	LR9D69

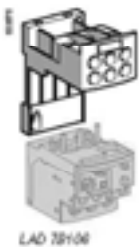
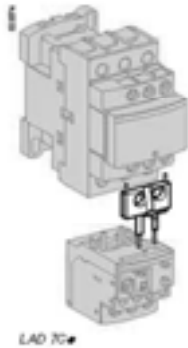
- (1) Standard IEC 60947-4-7 specifies a tripping time for 7.2 times the setting current I_R
- class 10: between 4 and 10 seconds,
 - class 10A: between 2 and 10 seconds,
 - class 20: between 6 and 20 seconds.

TeSys protection components

D range 3-pole thermal overload relays

Accessories

Accessories (to be ordered separately)



Description	For use on	Sold in lots of	Reference
Pre-wiring kit allowing direct connection of the N/C contact of relay LRD01...35 or LR3D01...D35 to the contactor	LC1D09...D18 LC1D25...D38	1	LAD7C1 LAD7C2
Terminal blocks (2) for clip-on mounting on 35 mm	LRD01...35 and LR3D01...D35 LRD1508...32 LRD33●●●, LR3D33●●●, LR2D35●●	1	LAD7B106 LAD7B105 LA7D3064
EverLink® terminal block for independent mounting	LRD3●●, LRD3●●L, LR3D3●●	1	LAD96560
Terminal block adaptor for mounting a relay beneath an LC1D115 or D150 contactor	LRD3●●●, LR3D3●●●, LR2D35●●	1	LA7D3058
Mounting plates (4) for screw fixing	LRD01...35, LR3D01...D35, LRD1508...32 LRD3●●●, LR3D3●●●, LR2D35●●	10 1	DX1AP25 LA7D902
Stop button locking device	All relays except LRD01...35, LR3D01...D35, LR9D and LRD313...365	10	LA7D901
Remote stop or electrical reset device (5)	LRD01...35, LR3D01...D35, LRD313...365	1	LAD703●
Remote tripping or electrical reset device (5)	All relays except LRD01...35, LR3D01...D35, LRD3●●, LRD3●●L and LR3D3●●.	1	LA7D03●

Remote control

Description	For use on	Sold in lots of	Reference
"Reset" function			
By flexible cable (length = 0.5 m)	LRD01...35, LR3D01...D35 and LRD313...365	1	LAD7305
	All relays except LRD01...35, LR3D01...D35, LRD3●●, LRD3●●L and LR3D3●●.	1	LA7D305
"Stop" and/or "Reset" functions			
The terminal protection shroud must be removed and the following 3 products must be ordered separately.			
Adaptor for door interlock mechanism	LRD33●●, LR2D and LRD15●●	1	LA7D1020

- (1) These pre-wiring kits cannot be used with reversing contactors.
- (2) Terminal blocks are supplied with terminals protected against direct finger contact and screws in the open, "ready-to-tighten" position.
- (3) To order a terminal block for connection by lugs, the reference becomes **LA7D30646**.
- (4) Do not forget to order the terminal block corresponding to the type of relay.
- (5) The time for which the coil of remote tripping or electrical resetting device **LA7D03** or **LAD703** can remain energised depends on its rest time: 1 s pulse duration with 9 s rest time; 5 s pulse duration with 30s rest time; 10s pulse duration with 90 s rest time; maximum pulse duration of 20 s with a rest time of 300 s. Minimum pulse time: 200 ms.
- (6) Replaced suffix ● with below control circuit voltage code

Volts	48	110	220/230
50/60 Hz	E	F	M
Consumption, inrush and sealed < 100 VA			
d.c.	E	F	M
Consumption, inrush and sealed:< 100 W			

- (7) Discount code is 1F

Controllers



LTM R08MBD



LTM R08CBD



LTM R08DBD



LTM R08PBD



LTM R08EBD




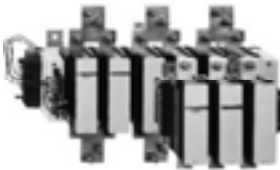





Setting range	Control voltage	Current ranges	Reference
A	V	A	
For Modbus			
8	d.c. 24	0.4...8	LTMR08MBD
	a.c. 100...240 V	0.4...8	LTMR08MFM
27	d.c. 24	1.35...27	LTMR27MBD
	a.c. 100...240 V	1.35...27	LTMR27MFM
100	d.c. 24	5...100	LTMR100MBD
	a.c. 100...240 V	5...100	LTMR100MFM
For CANopen			
8	d.c. 24	0.4...8	LTMR08CBD
	a.c. 100...240 V	0.4...8	LTMR08CFM
27	a.c. 100...240 V	1.35...27	LTMR27CFM
100	d.c. 24	5...100	LTMR100CBD
	a.c. 100...240 V	5...100	LTMR100CFM
For DeviceNet			
8	d.c. 24	0.4...8	LTMR08DBD
	a.c. 100...240 V	0.4...8	LTMR08DFM
27	a.c. 100...240 V	1.35...27	LTMR27DFM
100	d.c. 24	5...100	LTMR100DBD
	a.c. 100...240 V	5...100	LTMR100DFM
For ProfibusDP			
8	d.c. 24	0.4...8	LTMR08PBD
	a.c. 100...240 V	0.4...8	LTMR08PFM
27	d.c. 24	1.35...27	LTMR27PBD
	a.c. 100...240 V	1.35...27	LTMR27PFM
100	d.c. 24	5...100	LTMR100PBD
	a.c. 100...240 V	5...100	LTMR100PFM
For Ethernet TCP/IP			
8	d.c. 24	0.4...8	LTMR08EBD
	a.c. 100...240 V	0.4...8	LTMR08EFM
27	d.c. 24	1.35...27	LTMR27EBD
	a.c. 100...240 V	1.35...27	LTMR27EFM
100	d.c. 24	5...100	LTMR100EBD
	a.c. 100...240 V	5...100	LTMR100EFM



TeSys contactors

Contactors for motor control, 115 to 800A, in cat.AC-3
Contactors for control in utilisation cat.AC-1
(200 to 1600A)

TeSys F contactors

Image	Maximum current in utilisation category AC-1 (temp ≤40°C)	Standard power ratings of 3-phase motors 50/60Hz in category AC-3		Rated-operational current in cat. AC-3 440V upto	Control circuit voltage (2)	Basic reference, to be completed by adding the voltage code (2) screw fixing, cabling (1)
		380/400V	415V			
	A	KW	KW	A		
3 pole contactors						
	200	55	59	115	A.C.	LC1F115•7
					D.C.	LC1F115•D
LC1F265	250	75	80	150	A.C.	LC1F150•7
					D.C.	LC1F150•D
	275	90	100	185	A.C.	LC1F185•7
					D.C.	LC1F185•D
LC1F500	315	110	110	225	A.C.	LC1F225•7
					D.C.	LC1F225•D
	350	132	140	265	A.C.	LC1F265•7
					D.C.	LC1F265•D
LC1F630	400	160	180	330	A.C.	LC1F330•7
					D.C.	LC1F330•D
	500	200	220	400	A.C.	LC1F400•7
					D.C.	LC1F400•D
LC1F800	700	250	280	500	A.C.	LC1F500•7
					D.C.	LC1F500•D
	1000	335	375	630	A.C.	LC1F630•7
					D.C.	LC1F630•D
LC1F4004	1600	400	425	780	A.C.	LC1F780•7
					D.C.	LC1F780•D
4 pole contactors						
	200	55	59	115	A.C.	LC1F1154•7
					D.C.	LC1F1154•D
LC1F1154	250	75	80	150	A.C.	LC1F1504•7
					D.C.	LC1F1504•D
	275	90	100	185	A.C.	LC1F1854•7
					D.C.	LC1F1854•D
LC1F1854	315	110	110	225	A.C.	LC1F2254•7
					D.C.	LC1F2254•D
	350	132	140	265	A.C.	LC1F2654•7
					D.C.	LC1F2654•D
LC1F2654	400	160	180	330	A.C.	LC1F3304•7
					D.C.	LC1F3304•D
	500	200	220	400	A.C.	LC1F4004•7
					D.C.	LC1F4004•D
LC1F4004	700	250	280	500	A.C.	LC1F5004•7
					D.C.	LC1F5004•D
	1000	335	375	630	A.C.	LC1F6304•7
					D.C.	LC1F6304•D
LC1F5004	1600	400	425	780	A.C.	LC1F7804•7
					D.C.	LC1F7804•D

Auxiliary contact blocks and modules see page G11 to G13

(1) Power terminal protection shrouds available separately for contactors LC1F115 to LC1F630

(2) Standard control circuit voltages.

A.C. supply (Replace suffix •7 or •W with below control circuit voltage code).

Volts a.c. 40...400Hz	48	110	220	230	240	380	415	440
LC1F115...F630 (3)	E7	F7	M7	P7	U7	Q7	N7	R7
LC1F780 (coil LX1)	-	F7	M7	P7	U7	Q7	N7	R7
LC1F800 (coil LX4) (4)	-	FW	MW	MW	MW	QW	QW	

D.C. supply (Replace suffix •D or •W with below control circuit voltage code)

Volts d.c.	24	48	110	220	440
LC1F115...F330 (coil LX4F)	BD	ED	FD	MD	RD
LC1F400...F630 (coil LX4F)	-	ED	FD	MD	RD
LC1F780 (coil LX4F)	-	-	FD	MD	RD
LC1F800 (coil LX4F)	-	-	FW	MW	-

(3) LC1F115...F225 coil is LX9, LC1F265...F630 coil is LX1

(4) LC1F800 ac coil is using LX4F coil with rectifier DR5TE4U (110 to 240V) or DRT5E4S (380 to 440V).

TeSys contactors

3 pole reversing contactors for motor control, 115 to 800A

4 pole change-over contactor pairs

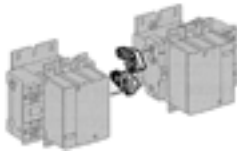
Components for assembling

TeSys F 3-pole reversing contactors and 4-pole change-over contactors

Component parts for customer assembly. Horizontally mounted.

Maximum current in utilisation category AC-1 (temp. ≤ 40°C)	Standard power rating of 3-phase motors 50/60Hz in category AC-3 380/400V	2 identical contactors Basic reference, to be completed by adding the voltage code (1)		2NO+2NC auxiliary contact block	Mechanical interlocking
A	KW	A	Reference	Reference	Reference
3 pole reversing contactors					
200	55	115	LC1F115•7	LADN22	LA9FF970
250	75	150	LC1F150•7	LADN22	LA9FF970
275	90	185	LC1F185•7	LADN22	LA9FG970
315	110	225	LC1F225•7	LADN22	LA9FG970
350	132	265	LC1F265•7	LADN22	LA9FJ970
400	160	330	LC1F330•7	LADN22	LA9FJ970
500	200	400	LC1F400•7	LADN22	LA9FJ970
700	250	500	LC1F500•7	LADN22	LA9FJ970
1000	335	630	LC1F630•7	LADN22	LA9FL970
1600	400	780	LC1F780•7	LADN22	LA9FX970
-	450	800	LC1F800•W	LADN22	LA9FL970
4 pole changeover contactors					
200	55	115	LC1F1154•7	LADN22	LA9FF970
250	75	150	LC1F1504•7	LADN22	LA9FF970
275	90	185	LC1F1854•7	LADN22	LA9FG970
315	110	225	LC1F2254•7	LADN22	LA9FG970
350	132	265	LC1F2654•7	LADN22	LA9FJ970
400	160	330	LC1F3304•7	LADN22	LA9FJ970
500	200	400	LC1F4004•7	LADN22	LA9FJ970
700	250	500	LC1F5004•7	LADN22	LA9FJ970
1000	335	630	LC1F6304•7	LADN22	LA9FL970
1600	400	780	LC1F7804•7	LADN22	LA9FX971

LA9-F•970 (2)



LA9-FX970



(1) Price is for one unit of standard A.C. control circuit voltages contactor only. See page G18 for the other voltage code and price.

(2) Vertically mounted mechanical interlocking only.

Compensated and differential overload relays



LR9-F53●●



LR9-F73●●

Relay setting range	For direct mounting beneath contactor LC1	Reference
A		
Class 10		
30-50	F115...F185	LR9F5357
48-80	F115...F185	LR9F5363
60-100	F115...F185	LR9F5367
90-150	F115...F185	LR9F5369
132-220	F185...F400	LR9F5371
200-330	F225...F500	LR9F7375
300-500	F225...F500	LR9F7379
380-630	F400...F630 and F800	LR9F7381
Class 20		
30-50	F115...F185	LR9F5557
48-80	F115...F185	LR9F5563
60-100	F115...F185	LR9F5567
90-150	F115...F185	LR9F5569
132-220	F185...F400	LR9F5571
200-330	F225...F500	LR9F7575
300-500	F225...F500	LR9F7579
380-630	F400...F630 and F800	LR9F7581

Control accessories (to be ordered separately)

Description	Reference
Remote electrical reset device	LA7D03● (1)
Remote Reset function control by flexible cable (length = 0.5m)	LA7D305

Set of power terminal protection shrouds, single-pole

For use with relays	Number of shrouds per set	Set Reference
LR9 F5●63, F5●67, F5●69 LR9F63, F67, F69	6	LA9F702
LR9 F5●71 LR9F71	6	LA9F705

(1) Replace suffix ● with below control circuit voltage code

Volts	24	48	110	220/230
50/60Hz	B	E	F	M

TeSys protection components

Thermal-magnetic motor circuit-breakers

GV2ME

Motor circuit-breakers from 0.06 to 15 kW / 400 V, with screw clamp terminals



Standard power ratings of 3-phase motors 50-60 Hz in category AC-3 400/415 V			Setting range of thermal trips (2)	Magnetic tripping current $I_d \pm 20\%$	Reference
P	I _{cu}	I _{cs} (1)	A	A	
kW	kA	%			
GV2 ME with pushbutton control					
–	–	–	0.1...0.16	1.5	GV2ME01
0.06	«	«	0.16...0.25	2.4	GV2ME02
0.09	«	«	0.25...0.40	5	GV2ME03
0.12	«	«	0.40...0.63	8	GV2ME04
0.18					
0.25	«	«	0.63...1	13	GV2ME05
0.37	«	«	1...1.6	22.5	GV2ME06
0.55	«	«			
0.75	«	«	1.6...2.5	33.5	GV2ME07
1.1	«	«	2.5...4	51	GV2ME08
1.5	«	«			
2.2	«	«	4...6.3	78	GV2ME10
3	«	«	6...10	138	GV2ME14
4	«	«			
5.5	15	50	9...14	170	GV2ME16
7.5	15	50	13...18	223	GV2ME20
9	15	40	17...23	327	GV2ME21
11	15	40	20...25	327	GV2ME22
15	10	50	24...32	416	GV2ME32

Motor circuit-breakers from 0.06 to 15 kW / 400 V, with lugs

GV2 ME••6 with pushbutton control					
–	–	–	0.1...0.16	1.5	GV2ME016
0.06	«	«	0.16...0.25	2.4	GV2ME026
0.09	«	«	0.25...0.40	5	GV2ME036
0.12	«	«	0.40...0.63	8	GV2ME046
0.18					
0.25	«	«	0.63...1	13	GV2ME056
0.37	«	«	1...1.6	22.5	GV2ME066
0.55	«	«			
0.75	«	«	1.6...2.5	33.5	GV2ME076
1.1	«	«	2.5...4	51	GV2ME086
1.5	«	«			
2.2	«	«	4...6.3	78	GV2ME106
3	«	«	6...10	138	GV2ME146
4	«	«			
5.5	15	50	9...14	170	GV2ME166
7.5	15	50	13...18	223	GV2ME206
9	15	40	17...23	327	GV2ME216
11	15	40	20...25	327	GV2ME226
15	10	50	24...32	416	GV2ME326

(1) As % of I_{cu}.

(2) The thermal trip setting must be within the range marked on the graduated knob.

(3) Maximum rating which can be mounted in enclosures GV2 MC or MP, please consult Sales Office.

« > 100 kA.

TeSys protection components

Thermal-magnetic motor circuit-breakers

Magnetic motor circuit-breakers

GV2 P, GV3 P/L and GV3 ME80

Thermal-magnetic motor circuit-breakers from 0.06 to 30 kW / 400 V

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3 400/415V			Setting range of thermal trips (2)	Magnetic tripping current $I_d \pm 20\%$	Reference
P	Icu	Ics (1)			
kW	kA	%	A	A	
GV2 P: control by rotary knob, Screw clamp terminals					
–	–	–	0.1...0.16	1.5	GV2P01
0.06	«	«	0.16...0.25	2.4	GV2P02
0.09	«	«	0.25...0.40	5	GV2P03
0.12	«	«	0.40...0.63	8	GV2P04
0.18					
0.25	«	«	0.63...1	13	GV2P05
0.37	«	«	1...1.6	22.5	GV2P06
0.55	«	«			
0.75	«	«	1.6...2.5	33.5	GV2P07
1.1	«	«	2.5...4	51	GV2P08
2.2	«	«	4...6.3	78	GV2P10
3	«	«	6...10	138	GV2P14
5.5	«	«	9...14	170	GV2P16
7.5	50	50	13...18	223	GV2P20
9	50	50	17...23	327	GV2P21
11	50	50	20...25	327	GV2P22
15	35	50	24...32	416	GV2P32
GV3 P: control by rotary knob, connection by EverLink® BTR screw connector (3)					
5.5	100	50	9...13	182	GV3P13
7.5	100	50	12...18	252	GV3P18
11	100	50	17...25	350	GV3P25
15	100	50	23...32	448	GV3P32
18.5	50	50	30...40	560	GV3P40
22	50	50	37...50	700	GV3P50
30	50	50	48...65	910	GV3P65
GV3 ME80: pushbutton control, screw clamp terminals					
37	15	50	56...80		GV3ME80



GV2 P



EverLink®

Motor circuit-breakers from 0.09 to 30 kW

Standard power ratings of 3-phase motors 50/60 Hz in category AC-3 400/415V			Magnetic protection rating	Tripping current $I_d \pm 20\%$	Use in association with TOR	Reference
P	Icu	Ics (1)				
kW	kA	%	A	A	Class 10 A	
GV3 L: control by rotary knob, connection by EverLink® BTR screw connector						
11	100	50	25	350	LRD22	GV3L25
15	100	50	32	448	LRD32	GV3L32
18,5	50	50	40	560	LRD3355	GV3L40
22	50	50	50	700	LRD3357	GV3L50
30	50	50	65	910	LRD3359	GV3L65
GV3 L: control by rotary knob, connection by lugs						
11	100	50	25	350	LRD22	GV3L256
15	100	50	32	448	LRD32	GV3L326
18,5	50	50	40	560	LRD3355	GV3L406
22	50	50	50	700	LRD3357	GV3L506
30	50	50	65	910	LRD3359	GV3L656



GV3 L05

(1) As % of Icu.

(2) The thermal trip setting must be within the range marked on the graduated knob.

(3) BTR screws: hexagon socket head. Require use of an insulated Allen key, in compliance with local wiring regulations.

(4) Recommended for use in association with a contactor.

TeSys protection components

Thermal-magnetic motor circuit-breakers

GV7 R and GV2 RT

Thermal-magnetic circuit-breakers GV7 R with screw clamp terminals

Control by rocker lever



GV7 RE



GV7 RS

Standard power ratings of 3-phase motors 400/415V 50-60 Hz in category AC-3			Setting range of thermal trips	Reference
P	I _{cu}	I _{cs} (1)		
kW	kA	%	A	
7.5	36	100	12...20	GV7RE20
9	36	100		
7.5	70	100	12...20	GV7RS20
9	70	100		
9	36	100	15...25	GV7RE25
11	36	100		
9	70	100	15...25	GV7RS25
11	70	100		
18.5	36	100	25...40	GV7RE40
18.5	70	100	25...40	GV7RS40
22	36	100	30...50	GV7RE50
22	70	100	30...50	GV7RS50
37	36	100	48...80	GV7RE80
37	70	100	48...80	GV7RS80
45	36	100	60...100	GV7RE100
45	70	100	60...100	GV7RS100
55	35	100	90...150	GV7RE150
75	35	100		
55	70	100	90...150	GV7RS150
75	70	100		
90	35	100	132...220	GV7RE220
110	35	100		
90	70	100	132...220	GV7RS220
110	70	100		

For motors with high current peak on starting

Control by rocker lever



GV2 RT

Standard power ratings of 3-phase motors 50-60 Hz in category AC-3		Setting range of thermal trips (2)	Magnetic tripping current I _d ± 20 %	Reference
220/230 V	400/415 V			
kW	kW	A	A	
0.06	0.09	0.25...0.40	8	GV2RT03
–	0.12	0.40...0.63	13	GV2RT04
	0.18			
0.09	0.25	0.63...1	22	GV2RT05
0.12	0.37			
0.18	0.37	1...1.6	33	GV2RT06
0.25	0.55			
0.37	0.75	1.6...2.5	51	GV2RT07
0.55	1.1	2.5...4	78	GV2RT08
0.75	1.5			
1.1	2.2	4...6.3	138	GV2RT10
1.5	3	6...10	200	GV2RT14
2.2	4			
2.2	5.5	9...14	280	GV2RT16
3				
4	7.5	13...18	400	GV2RT20
5.5	9	17...23	400	GV2RT21
	10			

(1) As % of I_{cu}.

(2) The thermal trip setting must be within the range marked on the graduated knob.

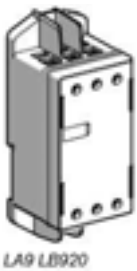
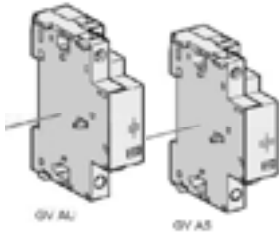
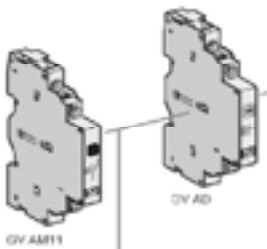
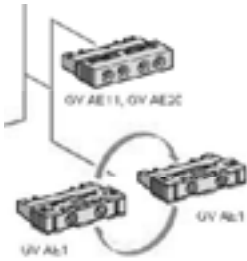
TeSys protection components

Thermal-magnetic and magnetic motor circuit breakers

GV2 and GV3P

Add-on blocks and accessories

Add-on blocks and accessories



Contact blocks

Description	Mounting	Max. nos.	Type of contacts	Sold in lot of	Unit Reference
Instantaneous auxiliary contacts	Front (1)	1	N /O or N/C (2)	10	GVAE1
			N/O + N/C	10	GVAE11
	Side	2	N/O + N/C	1	GVAN11
			N/O + N/O	1	GVAN20
Fault signalling contact + instantaneous auxiliary contact	Side (3) (LH)	1	N/O (fault) + N/O	1	GVAD1010
			+ N/C	1	GVAD1001
			N/C (fault) + N/O	1	GVAD0110
			+ N/C	1	GVAD0101
Short-circuit signalling contact	Side (LH)	1	C/O common point	1	GVAM11

Electric trips

Mounting	Voltage	Reference
Undervoltage or shunt trips (4)		
Side of circuit-breaker	24 V	GVA•025
	48 V	GVA•055
	110...115 V	GVA•115
	120...127 V	GVA•125
	220...240 V	GVA•225
	380...400 V	GVA•385
	415...440 V	GVA•415

Add-on contact blocks

Description	Mounting	Reference
Limiters	At top (GV2 ME and GV2 P)	GV1L3
	Independent	LA9LB920
Set of 3-pole 115 A busbars	GV3 P•• and GV3 L••	GV3G364

- (1) Mounting of a GV AE contact block or a GV2 AK00 visible isolation block on GV2 P and GV2 L
 (2) Choice of N/C or N/O contact operation, depending on which way round the reversible block is mounted.
 (3) The GV AD is always mounted next to the circuit-breaker.
 (4) To order an undervoltage trip: replace the dot (•) in the reference with a U, example: GV AU025.
 To order a shunt trip: replace the dot (•) in the reference with an S, example: GV AS025.

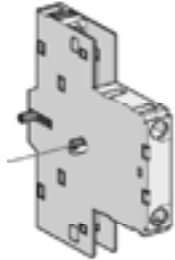
TeSys protection components

Thermal-magnetic motor circuit-breakers

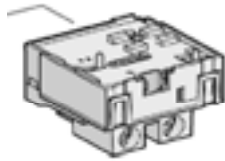
GV3 ME80 and GV7 R

Add-on blocks and accessories

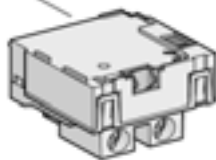
Add-on blocks and accessories for GV3 ME80



GV3 A31, A37



GV3 A08
GV3 A05



GV3 B00
GV3 D00

Contact blocks

Description	Type of standard early break contacts	Unit Reference
Instantaneous auxiliary contact blocks (1 per circuit-breaker)	N/C + N/O	GV3A01
	N/O + N/O	GV3A02
	N/C + N/O + N/O	GV3A03
	N/O + N/O + N/O	GV3A05
	N/O + N/O + 2 volt-free terminals	GV3A06
	N/C + N/O + 2 volt-free terminals	GV3A07

Fault signalling contact

(1)	N/C	GV3A08
	N/O	GV3A09

Electric trips

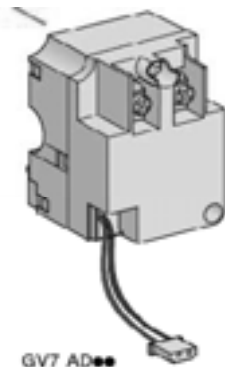
Mounting	Voltage 50Hz	Reference
Undervoltage trip (1)	110, 120, 127 V	GV3B11
	220, 240 V	GV3B22
Shunt trip (1)	110, 120, 127 V	GV3D11
	220, 240 V	GV3D22
	380, 415 V	GV3D38

(1) 1 voltage trip OR 1 fault signalling contact to be fitted inside the motor circuit-breaker.

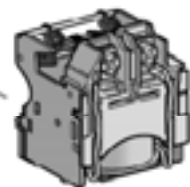
Add-on blocks and accessories for GV7 R



GV7 AE11, AB11



GV7 AD00



GV7 AU, AS

Add-on auxiliary contacts

Type	Reference
Standard	GV7AE11
Low level	GV7AB11

Fault discrimination devices (2)

Voltage	Reference
24...48 a.c. and 24...72 V d.c.	GV7AD111
110...240 V a.c./d.c.	GV7AD112

Electric trips (2)

Type	Voltage	Reference
Undervoltage trip	48 V, 50/60 Hz	GV7AU055
	110...130 V, 50/60 Hz	GV7AU107
	200...240 V, 50/60 Hz	GV7AU207
	380...440 V, 50/60 Hz	GV7AU387
Shunt trip	48 V, 50/60 Hz	GV7AS055
	110...130 V, 50/60 Hz	GV7AS107
	200...240 V, 50/60 Hz	GV7AS207
	380...440 V, 50/60 Hz	GV7AS387

(2) For mounting of a GV7 AD or a GV7 AU or AS.

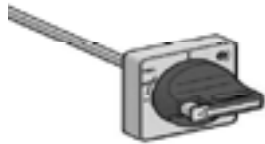
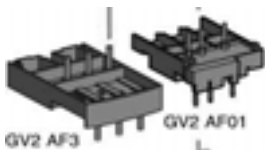
TeSys protection components

Thermal-magnetic and magnetic motor circuit breakers

GV2 and GV7 R with screw clamp connections

Accessories

Accessories for GV2 and GV7R



Connections

Description	Application	Sold in lots of	Unit Reference
Combination blocks	Between GV2 and contactor LC1 K or LP1 K	10	GV2AF01
	Between GV2 and contactor LC1 D09...D38	10	GV2AF3
	Between GV2 mounted on LAD 311 and contactor LC1 D09...D38	10	GV2AF4

Motor starter adapter plate	With 3-pole connection for mounting a GV2 and a contactor LC1 D09...D25	1	GK2AF01
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Description	Application	Pitch mm	Reference
Sets of 3-pole 63 A busbars	2 tap-offs	45	GV2G245
		54	GV2G254
	3 tap-offs	45	GV2G345
		54	GV2G354
	4 tap-offs	45	GV2G445
	54	GV2G454	
	5 tap-offs	54	GV2G554

Padlockable external operators

Description	Reference
For GV2 P and GV2 L (150 to 290 mm)	Padlocking in "On" and "Off" position Black handle, blue legend plate, IP 54 GV2AP01
	Padlocking in "Off" position Red handle, yellow legend plate, IP 54 GV2AP02
For GV2 LE	Padlocking in "On" and "Off" position Black handle, blue legend plate, IP 54 GV2AP03

Padlocking device

Description	Reference
For all GV2 device	For use with up to 4 padlocks, Ø 6 mm shank max. (padlocks not included) GV2V03

Direct rotary handle

Description	Type	Degree of protection	Reference
Direct rotary handle	Black handle, black legend plate	IP40	GV7AP03
	Red handle, yellow legend plate	IP40	GV7AP04
Adapter plate (1) for GV7	Four mounting direct rotary handle on enclosure door	IP43	GV7AP05

Extended rotary handle

Description	Type	Degree of protection	Reference
Extended rotary handle for GV7	Black handle, black legend plate	IP55	GV7AP01
	Red handle, yellow legend plate	IP55	GV7AP02

(1) This conversion accessory makes it impossible to open the door if the device is closed and prevents the device from being closed if the door is open.

TeSys motor starters - open version

Combination automatic motor starters with overload protection built into the circuit-breaker

DOL starters, non-reversing, from 0.06 to 15kW at 400/415V, type 1 co-ordination

This pre-assembled combination comprises:

- One motor circuit breaker type GV2ME
- One 3-pole contactor
- One combination block GV2AF3

Standard power rating of 3-phase motors 50/60Hz in AC3 400/415V kW	Setting range of thermal trips A	Fixed magnetic tripping current 13 Irth A	Combination comprise:		Pre-assembled reference c/w code indicating control circuit voltage (1)
			Motor circuit breaker reference	Contactor Basic ref. complete with a.c. control circuit voltage (1)	
0.06	0.16 - 0.25	2.4	GV2ME02	LC1D09●●	GV2DM102●●
0.09	0.25 - 0.40	5	GV2ME03	LC1D09●●	GV2DM103●●
0.18	0.40 - 0.63	8	GV2ME04	LC1D09●●	GV2DM104●●
0.37	0.63 - 1	13	GV2ME05	LC1D09●●	GV2DM105●●
0.55	1 - 1.6	22.5	GV2ME06	LC1D09●●	GV2DM106●●
0.75	1.6 - 2.5	33.5	GV2ME07	LC1D09●●	GV2DM107●●
1.5	2.5 - 4	51	GV2ME08	LC1D09●●	GV2DM108●●
2.2	4 - 6.3	78	GV2ME10	LC1D09●●	GV2DM110●●
4	6 - 10	138	GV2ME14	LC1D09●●	GV2DM114●●
5.5	9 - 14	170	GV2ME16	LC1D12●●	GV2DM116●●
7.5	13 - 18	223	GV2ME20	LC1D18●●	GV2DM120●●
9	17 - 23	327	GV2ME21	LC1D25●●	GV2DM121●●
11	20 - 25	327	GV2ME22	LC1D25●●	GV2DM122●●
15	24 - 32	416	GV2ME32	LC1D32●●	GV2DM132●●
18.5	30 - 40	560	GV3P40	LC1D40A●●	
22	37 - 50	700	GV3P50	LC1D50A●●	
30	48 - 65	910	GV3P65	LC1D65A●●	

(1) Standard control circuit voltages. Consult us for other voltages.

Replace suffix ●● with below control circuit voltage code

Volts	24	220	230
50/60 Hz	B7	M7	P7



GV2-DM102●●

Motor Starters- open version

Open type Direct-On-Line motor starter

Sub-assembly by customer

Sub-assembly by customer for single phase Direct-On-Line motor starter

- 240V single phase motor application.
- Higher motor rating, please consult our local sales office.

Standard power ratings of single phase motors 240V			Contactor Reference (1)	Thermal overload Reference
kW	HP	Amp		
0.37	0.5	3.6	LC1K0610●●	LR2K0310
0.55	0.75	4.8	LC1K0610●●	LR2K0312
0.75	1	6.1	LC1K0910●●	LR2K0314
1.1	1.5	8.8	LC1K0910●●	LR2K0316
1.5	2	11.7	LC1D09●●	LRD16
2.2	3	17.1	LC1D12●●	LRD21
3	4	22.2	LC1D18●●	LRD22
4	5.5	27.1	LC1D25●●	LRD32
5.5	7.5	38.7	LC1D40A●●	LRD350
7.5	10	50	LC1D40A●●	LRD365

(1) Replace suffix ●● with coil voltage code from page G2 and G6 for K and D range contactors respectively.

Price indicated is for A.C. control voltage coil only. Other control voltage coil, please ref. to page G2 or G6

Motor Starters - open version

Open type Direct-On-Line motor starter

Sub-assembly by customer

Sub-assembly by customer for 3-phase Direct-On-Line motor starter

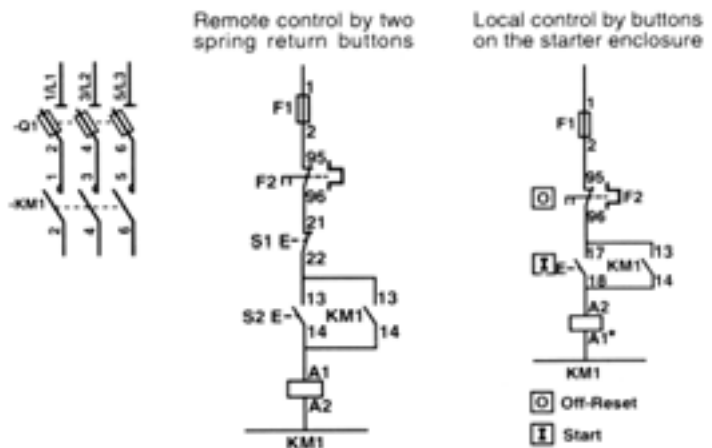
- 415V 3-phase motor application.
- Higher motor rating, please consult our local sales office.
- Refer to our catalogue for type 1 co-ordination with our circuit breaker

Standard power rating of 3-phase motors 415V			Contactor	Thermal overload
P	P	le	Reference (1)	Reference
kW	HP	Amp		
0.37	0.5	1	LC1D09●●	LRD06
0.55	0.75	1.5	LC1D09●●	LRD06
0.75	1	2	LC1D09●●	LRD07
1.1	1.5	2.5	LC1D09●●	LRD08
1.5	2	3.5	LC1D09●●	LRD08
2.2	3	5	LC1D09●●	LRD10
3	4	6.5	LC1D09●●	LRD12
3.7	5	7.5	LC1D09●●	LRD12
4	5.5	8.4	LC1D09●●	LRD14
5.5	7.5	11	LC1D12●●	LRD16
7.5	10	14.8	LC1D18●●	LRD21
9	12	18.1	LC1D25●●	LRD22
11	15	21	LC1D25●●	LRD22
15	20	28.5	LC1D32●●	LRD32
18.5	25	35	LC1D40A●●	LRD340
22	30	42	LC1D50A●●	LRD350
30	40	55	LC1D65A●●	LRD365
37	50	69	LC1D80●●	LRD3363
45	60	81	LC1D95●●	LRD3365
55	75	100	LC1D115●● LADN11	LRD4367
75	100	135	LC1D150●● LADN11	LRD4369

(1) Replace suffix ●● with coil voltage code from page G6 for D range contactor.

Price indicated is for A.C. control voltage coil only. Other control voltage coil, please ref. to page G6

Direct-on-line starters for motor control



* On certain catalogued equipment, to facilitate cabling of the auto-supply contact, terminals A1 and A2 of the coil are reversed.

Motor Starters - open version

Open type Star-Delta motor starter (4 to 45kW)

Sub-assembly by customer

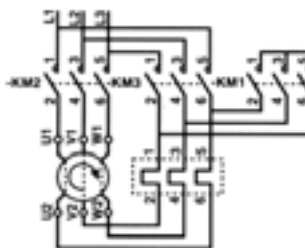
Sub-assembly by customer for Star-Delta motor starters

• Mechanical interlocks between Star and Delta contactors is possible, please consult our local sales office.

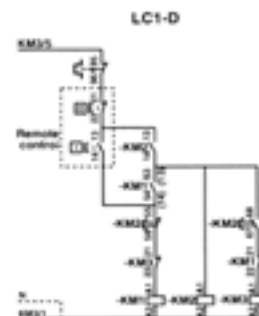
Standard power rating of 3-phase motors 415V			Star	Delta	Line	Thermal overload
			contactor c/w 1NO+1NC aux. contacts (1)	contactor c/w 1NO+1NC aux. contacts (1)	contactor c/w 1NO+1NC aux. contacts & timer (1)	To be fixed on delta
kW	HP	Amp	Reference	Reference	Reference	Reference
4	5.5	8.4	LC1D09●●	LC1D09●●	LC1D09●● LADS2	LRD10
5.5	7.5	11	LC1D09●●	LC1D09●●	LC1D09●● LADS2	LRD12
7.5	10	14	LC1D09●●	LC1D09●●	LC1D09●● LADS2	LRD14
9	12	17	LC1D09●●	LC1D12●●	LC1D12●● LADS2	LRD16
11	15	21	LC1D09●●	LC1D12●●	LC1D12●● LADS2	LRD16
15	20	28	LC1D12●●	LC1D18●●	LC1D18●● LADS2	LRD21
18.5	25	35	LC1D12●●	LC1D25●●	LC1D25●● LADS2	LRD22
22	30	40	LC1D18●●	LC1D25●●	LC1D25●● LADS2	LRD32
25	35	47	LC1D25●●	LC1D32●●	LC1D32●● LADS2	LRD32
30	40	55	LC1D25●●	LC1D32●●	LC1D32●● LADS2	LRD35
33	45	60	LC1D25●●	LC1D38●●	LC1D38●● LADS2	LRD35
37	50	66	LC1D25●●	LC1D40A●●	LC1D40A●● LADS2	LRD340
40	54	71	LC1D25●●	LC1D40A●●	LC1D40A●● LADS2	LRD350
45	60	80	LC1D32●●	LC1D50A●●	LC1D50A●● LADS2	LRD350

(1) Replace suffix ●● with coil voltage code from page G6 for D range contactor. Price indicated is for A.C. control voltage coil only, ref. page G6 for other control voltage coil price.

Start-Delta starters for motor control



(1) Recommended cabling for reversal of motor rotation (Standard motor, viewed from shaft end).



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Motor Starters - open version

Open type Star-Delta motor starter (51 to 220kW)
Sub-assembly by customer

Sub-assembly by customer for Star-Delta motor starter

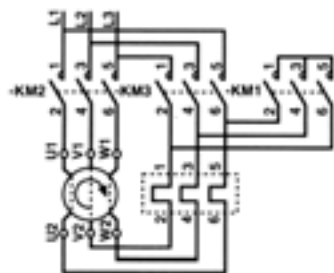
• Mechanical interlocks between Star and Delta contactors is possible, please consult our local sales office.

Standard power rating of 3-phase motors 415V			Star contactor c/w 1NO+1NC aux. contacts (1)	Delta contactor c/w 1NO+1NC aux. contacts (1)	Line contactor c/w 1NO+1NC aux. contacts (1)	Thermal overload
kW	HP	Amp	Reference	Reference	Reference	Reference
51	70	90	LC1D32●●	LC1D65A●●	LC1D65A●● LADS2	LRD365
63	85	115	LC1D40A●●	LC1D80●●	LC1D80●● LADS2	LRD3363
75	100	135	LC1D50A●●	LC1D80●●	LC1D80●● LADS2	LRD3363
90	125	165	LC1D65A●●	LC1D95●●	LC1D95●● LADS2	LRD3365
110	150	200	LC1D80●●	LC1D150●●	LC1D150●● LADS2	LRD4369
129	175	230	LC1D80●●	LC1D150●●	LC1D150●● LADS2	LRD4369
140	190	250	LC1D95●●	LC1D150●●	LC1D150●● LADS2	LR9D5369
147	200	260	LC1D95●●	LC1D150●●	LC1D150●● LADS2	LR9D5369
150	205	270	LC1D95●●	LC1F185●● LADN22	LC1F185●● LADN22 LADS2	LR9F5371
180	245	320	LC1D115●●	LC1F185●● LADN22	LC1F185●● LADN22 LADS2	LR9F5371
200	270	340	LC1D115●●	LC1F225●● LADN22	LC1F225●● LADN22 LADS2	LR9F5371
220	300	385	LC1D150●●	LC1F225●● LADN22	LC1F225●● LADN22 LADS2	LR9F5371

(1) Replace suffix ●● with coil voltage code from page G6 and G18 for D and F range contactors respectively.

Price indicated is for A.C. control voltage coil only. Other control voltage coil, please ref. to page G6 and G18.

Start-Delta starters for motor control



(1) Recommended cabling for reversal of motor rotation (standard motor, viewed from shaft end).



Motor Starters - open version

Open type Star-Delta motor starter (257 to 355kW)
Sub-assembly by customer

Sub-assembly by customer for Star-Delta motor starters

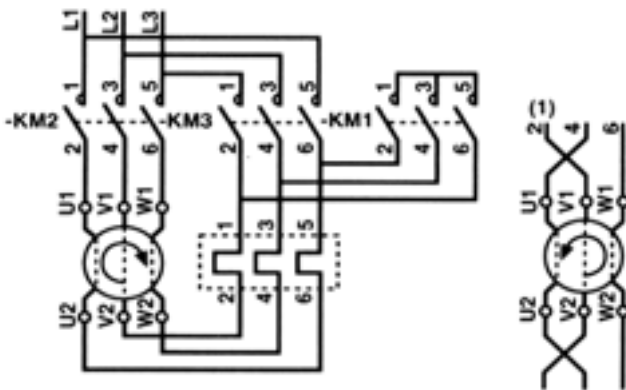
• Mechanical interlocks between Star and Delta contactors is possible, please consult our local sales office.

Standard power rating of 3-phase motors 415V			Star	Delta	Line	Thermal overload
			contactor c/w 1NO+1NC aux. contacts (1)	contactor c/w 1NO+1NC aux. contacts (1)	contactor c/w 1NO+1NC aux. contacts (1)	To be fixed on delta
kW	HP	Amp	Reference	Reference	Reference	Reference
257	350	450	LC1F185●● LADN22	LC1F330●● LADN22	LC1F330●● LADN22 LADS2	LR9F7375
280	380	475	LC1F185●● LADN22	LC1F330●● LADN22	LC1F330●● LADN22 LADS2	LR9F7375
295	400	500	LC1F185●● LADN22	LC1F330●● LADN22	LC1F330●● LADN22 LADS2	LR9F7375
315	430	535	LC1F185●● LADN22	LC1F330●● LADN22	LC1F330●● LADN22 LADS2	LR9F7375
335	450	550	LC1F185●● LADN22	LC1F330●● LADN22	LC1F330●● LADN22 LADS2	LR9F7375
355	480	580	LC1F225●● LADN22	LC1F400●● LADN22	LC1F400●● LADN22 LADS2	LR9F7379

(1) Replace suffix ●● with coil voltage code from page G18 for F range contactors.

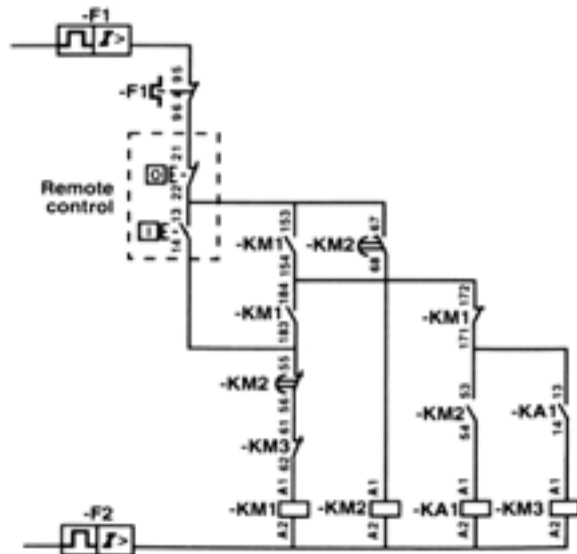
Price indicated is for A.C. control voltage coil only. Other control voltage coil, please ref. to page G18.

Start-Delta starters for motor control



(1) Recommended cabling for reversal of motor rotation (standard motor, viewed from shaft end).

LC1-F



G

Motor Starters - open version

Open type Star-Delta motor starter (375 to 500kW)
Sub-assembly by customer

Sub-assembly by customer for Star-Delta motor starters

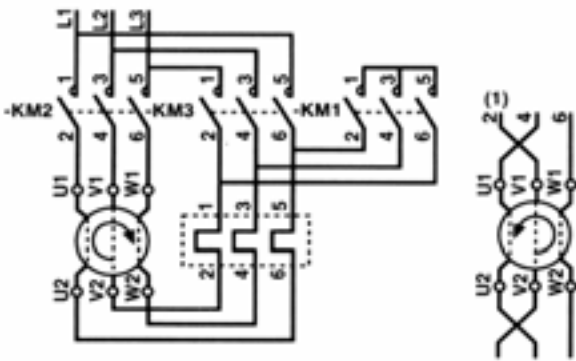
• Mechanical interlocks between Star and Delta contactors is possible, please consult our local sales office.

Standard power rating of 3-phase motors 415V			Star	Delta	Line	Thermal overload
			contactor c/w 1NO+1NC aux. contacts	contactor c/w 1NO+1NC aux. contacts	contactor c/w 1NO+1NC aux. contacts & timer	To be fixed on delta
kW	HP	Amp	Reference	Reference	Reference	Reference
375	500	610	LC1F225●● LADN22	LC1F400●● LADN22	LC1F400●● LADN22 LADS2	LR9F7379
400	545	650	LC1F225●● LADN22	LC1F400●● LADN22	LC1F400●● LADN22 LADS2	LR9F7379
425	580	690	LC1F265●● LADN22	LC1F400●● LADN22	LC1F400●● LADN22 LADS2	LR9F7379
445	600	730	LC1F265●● LADN22	LC1F500●● LADN22	LC1F500●● LADN22 LADS2	LR9F7379
475	645	780	LC1F265●● LADN22	LC1F500●● LADN22	LC1F500●● LADN22 LADS2	LR9F7379
500	680	820	LC1F330●● LADN22	LC1F500●● LADN22	LC1F500●● LADN22 LADS2	LR9F7379

(1) Replace suffix ●● with coil voltage code from page G18 for F range contactors.

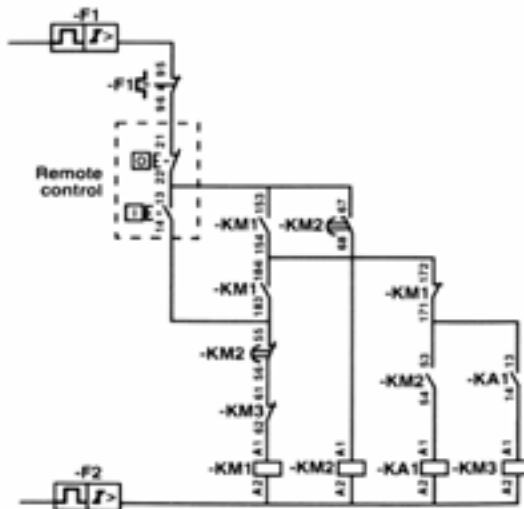
Price indicated is for A.C. control voltage coil only. Other control voltage coil, please ref. to page G18.

Start-Delta starters for motor control



(1) Recommended cabling for reversal of motor rotation (standard motor, viewed from shaft end).

LC1-F



Motor Starters - open version

Open type Auto-Transformer Starter (37 to 160kW)

Sub-assembly by customer

Sub-assembly by customer for Auto-Transformer starters

The components recommended in the table below have been determined according to the following characteristics:

- Rated operational voltage: 400V
- Auto-transformer: on 0.6Un tap with non-adjustable air gap
- Motor Power/AT Power = 7
- 3 starts per hour, of which 2 are consecutive
- Motor starting current: $I_d/I_n = 6$
- Transient current on closing of KM3 $\leq 7\sqrt{2} I_n$
- Maximum starting time: 10s
- Ambient temperature $\theta \leq 40^\circ \text{C}$

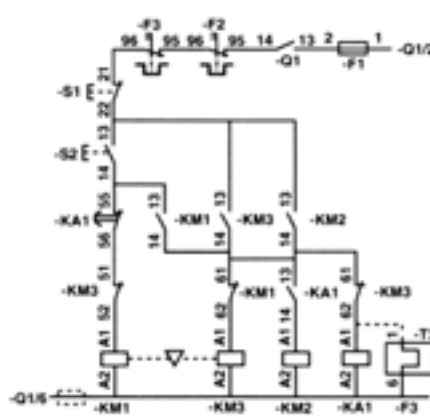
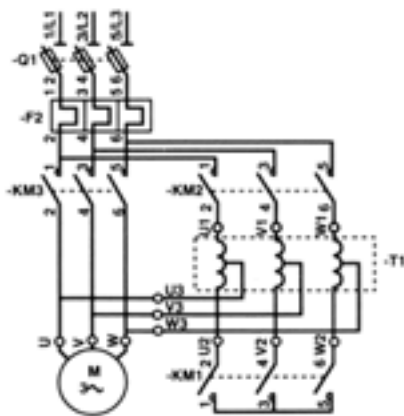
Note: As the characteristics of auto-transformers vary significantly depending on their tap ratio, air-gap and power ratings, it is advised that the designer exercise prudence when selecting the starter components .

Motor rated Power @400V kW	Indicative rated operational current @ 400V Amp	Line contactor KM3 with aux. contacts (1) Reference	Transformer contactor KM2 with timer (1) Reference	Star contactor KM1 (1) Reference	Thermal overload (Fitted at Line side) Reference
37	66	LC1D80●● LADN11	LC1D65A●● LADT2	LC1D25●●	LRD3361
45	80	LC1D95●● LADN11	LC1D80●● LADT2	LC1D25●●	LRD3365
55	97	LC1D115●● LADN11	LC1D95●● LADT2	LC1D32●●	LR9D5367
75	132	LC1D150●● LADN11	LC1D115●● LADT2	LC1D50A●●	LR9D5369
90	160	LC1F185●● LADN22	LC1D150●● LADT2	LC1D65A●●	LR9F5371
110	195	LC1F225●● LADN22	LC1F185●● LADN11 LADT2	LC1D65A●●	LR9F5371
132	230	LC1F265●● LADN22	LC1F225●● LADN11 LADT2	LC1D80●●	LR9F7375
160	280	LC1F330●● LADN22	LC1F265●● LADN11 LADT2	LC1D95●●	LR9F7375

(1) Replace suffix ●● with coil voltage code from page G6 and G18 for D and F range contactors respectively.

Price indicated is for A.C. control voltage coil only. Other control voltage coil, please ref. to page G6 and G18..

Auto-transformer starters for motor control



G

Motor Starters - open version

Open type Auto-Transformer Starter (200 to 400kW)

Sub-assembly by customer (Con't...)

Sub-assembly by customer for Auto-Transformer starters

The components recommended in the table below have been determined according to the following characteristics:

- Rated operational voltage: 400V
- Auto-transformer: on 0.6Un tap with non-adjustable air gap
- Motor Power/AT Power = 7
- 3 starts per hour, of which 2 are consecutive
- Motor starting current: $I_d/I_n = 6$
- Transient current on closing of KM3 $\leq 7\sqrt{2} I_n$
- Maximum starting time: 10s
- Ambient temperature $\theta \leq 40^\circ \text{C}$

Note: As the characteristics of auto-transformers vary significantly depending on their tap ratio, air-gap and power ratings, it is advised that the designer exercise prudence when selecting the starter components .

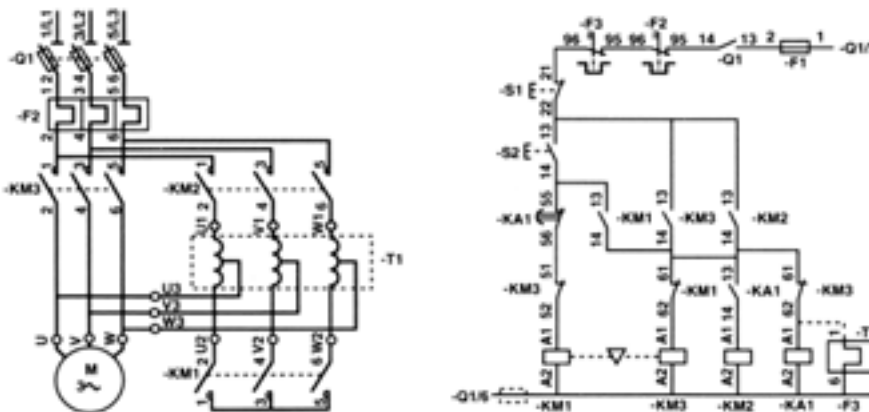
Motor rated Power @400V	Indicative rated operational current @ 400V	Line contactor KM3 with aux. contacts (1)	Transformer contactor KM2 with timer (1)	Star contactor KM1 (1)	Thermal overload (Fitted at Line side)
kW	Amp	Reference	Reference	Reference	Reference
200	350	LC1F400●● LADN22	LC1F330●● LADN11 LADT2	LC1D115●●	LR9F7379
250	430	LC1F500●● LADN22	LC1F400●● LADN11 LADT2	LC1D150●●	LR9F7379
315	540	LC1F630●● LADN22	LC1F500●● LADN11 LADT2	LC1F185●●	LR9F7381
355	610	LC1F630●● LADN22	LC1F630●● LADN11 LADT2	LC1F225●●	LR9F7381
400	690	LC1F800●● LADN22	LC1F630●● LADN11 LADT2	LC1F265●●	LRD10 (2)

(1) Replace suffix ●● with coil voltage code from page G6 and G18 for D and F range contactors respectively.

Price indicated is for A.C. control voltage coil only. Other control voltage coil, please ref. to page G6 and G18..

(2) CT not included, secondary 5A.

Auto-transformer starters for motor control



TeSys motor starters- open version

D.O.L. starters with circuit-breaker
and overload protection built into the circuit-breaker
Combinations for assembly by the customer

0.06 to 110 kW at 400/415 V: type 1 coordination

Standard power rating of 3-phase motors in cat. AC-3 400/415V			Circuit-breaker	Contactor		
			Setting range (1) of thermal trips	Basic reference, to be completed by adding the voltage code (2)		
P kW	I _e A	I _q kA	A	Reference	Reference	Reference
0.06	0.22	50	0.16...0.25	GV2ME02	LC1K0610●●	or LC1D09●●
0.09	0.36	50	0.25...0.40	GV2ME03	LC1K0610●●	or LC1D09●●
0.12	0.42	50	0.40...0.63	GV2ME04	LC1K0610●●	or LC1D09●●
0.18	0.6	50				
0.25	0.88	50	0.63...1	GV2ME05	LC1K0610●●	or LC1D09●●
0.37	0.98	50				
0.55	1.5	50	1...1.6	GV2ME06	LC1K0610●●	or LC1D09●●
0.75	2	50	1.6...2.5	GV2ME07	LC1K0610●●	or LC1D09●●
1.1	2.5	50	2.5...4	GV2ME08	LC1K0610●●	or LC1D09●●
1.5	3.5	50				
2.2	5	50	4...6.3	GV2ME10	LC1K0610●●	or LC1D09●●
3	6.5	50	6...10	GV2ME14	LC1K0910●●	or LC1D09●●
4	8.4	50				
5.5	11	15	9...14	GV2ME16	LC1K1210●●	or LC1D09●●
7.5	14.8	15	13...18	GV2ME20	LC1D18●●	
9	18.1	15	17...23	GV2ME21	LC1D25●●	
11	21	15	20...25	GV2ME22	LC1D25●●	
15	28.5	10	24...32	GV2ME32	LC1D32●●	
18.5	35	35	25...40	GV3P40	LC1D38●●	
22	42	35	40...63	GV3P50	LC1D50A●●	
30	57	35	40...63	GV3P65	LC1D65A●●	
37	69	15	56...80	GV3ME80	LC1D80●●	
37	69	25	48...80	GV7RE80	LC1D80●●	
45	81	25	60...100	GV7RE100	LC1D95●●	
55	100	25	90...150	GV7RE150	LC1D115●●	
75	135	35	90...150	GV7RE150	LC1D150●●	
90	165	35	132...220	GV7RE220	LC1F185●●	
110	200	35	132...220	GV7RE220	LC1F225●●	

(1) Used combination block GV2AF3 for connection between GV2 and contactor LC1D09...D38.

(2) Replace suffix ●● with coil voltage code from page G2 and G6 for K and D range contactors respectively.

Price indicated is for A.C. control voltage coil only. Other control voltage coil, please ref. to page G2 and G6..

TeSys motor starters- open version

D.O.L. starters with circuit-breaker
and overload protection built into the circuit-breaker
Combinations for assembly by the customer

0.06 to 110 kW at 400/415 V: type 2 coordination

Standard power rating of 3-phase motors in cat. AC-3 400/415V			Circuit-breaker		Contactor	
			Setting range of thermal trips		Basic reference, to be completed by adding the voltage code (1)	
P	I _{le}	I _q	A	Reference	Reference	
kW	A	kA	A			
0.06	0.22	130	0.16...0.25	GV2P02	or GV2ME02	LC1D09●●
0.09	0.36	130	0.25...0.4	GV2P03	or GV2ME03	LC1D09●●
0.12	0.42	130	0.4...0.63	GV2P04	or GV2ME04	LC1D09●●
0.18	0.6	130				
0.25	0.88	130	0.63...1	GV2P05	or GV2ME05	LC1D09●●
0.37	0.98	130				
0.55	1.5	130	1...1.6	GV2P06	or GV2ME06	LC1D09●●
0.75	2	130	1.6...2.5	GV2P07	or GV2ME07	LC1D09●●
1.1	2.5	130	2.5...4	GV2P08	or GV2ME08	LC1D09●●
1.5	3.5	130				
2.2	5	130	4...6.3	GV2P10	or GV2ME10	LC1D09●●
3	6.5	130	6...10	GV2P14	or GV2ME14	LC1D09●●
4	8.4	130				
5.5	11	130	9...14	GV2P16	or GV2ME16	LC1D25●●
7.5	14.8	50	13...18	GV2P20	or GV2ME20	LC1D25●●
9	18.1	50	17...23	GV2P21	or GV2ME21	LC1D25●●
11	21	50	20...25	GV2P22	or GV2ME22	LC1D25●●
15	28.5	35	25...40	GV2P32	or GV2ME32	LC1D32●●
15	28.5	70	25...40	GV7RS40		LC1D40A●●
18.5	35	70	25...40	GV7RS40		LC1D40A●●
22	42	70	30...50	GV7RS50		LC1D80●●
30	57	70	48...80	GV7RS80		LC1D80●●
37	69	70	48...80	GV7RS80		LC1D80●●
45	81	70	60...100	GV7RS100		LC1D115●●
55	100	70	90...150	GV7RS150		LC1D150●●
75	135	70				
90	165	70	132...220	GV7RS220		LC1F185●●
110	200	70	132...220	GV7RS220		LC1F225●●

(1) Replace suffix ●● with coil voltage code from page G6 and G18 for D and F range contactors respectively.
Price indicated is for A.C. control voltage coil only. Other control voltage coil, please ref. to page G6 and G18..

TeSys enclosed motor starters

D.O.L. starters for motor control

0.25 to 7.5kW with 3-phase thermal overload relay

Enclosed motor starters

Conforming to standards	IEC 60947-4-1 and IEC 60439-1, VDE 0660-102, EN 60947
Degree of protection to IEC 529	IP 65
Ambient air temperature	For operation: -5 to + 40 °C
Operating positions	Identical to those for k contactors
Material	Self-extinguishing ABS

Non-reversing starters

Starter LE1M, combined with short-circuit protection components, provides type 1 or type 2 coordination, depending on the type of devices used.

Standard power ratings of 3-phases Setting range of thermal motors 50/60 Hz in category AC-3 overload relay LR2K (1) 415V Basic reference, complete with M7 220/230V indicating control circuit voltage (2)

KW	HP	A	
0.25	1/3	54...0.8	LE1M35●●05
0.37	1/2	0.8...1.2	LE1M35●●06
0.55	3/4	1.2...1.8	LE1M35●●07
0.75	1	1.8...2.6	LE1M35●●08
1.5	2	2.6...3.7	LE1M35●●10
2.2	3	3.7...5.5	LE1M35●●12
3	4	5.5...8	LE1M35●●14
4	5 ¹ / ₂	8...11.5	LE1M35●●16
5.5	7 ¹ / ₂	10...14	LE1M35●●21
7.5	10	12...16	LE1M35●●22



LE1-M35●●●●●

Description

- The standard version comprises:
 - 1 green Start button "I",
 - 1 red Stop/Reset button "O/R",
 - 1 yellow operating indicator.
- Control may be pulsed or maintained.
- An earth terminal and a neutral terminal are provided on the bottom of the enclosure

(1) Thermal overload relay fitted as standard.

(2) The contactor coil is pre-wired between 2 phases of the power circuit.

The codes indicated below are therefore correspond to the **power circuit voltage**.

Replace ●● with below others voltage code.

Volts	220/	380/	400/	440
50/60 Hz	230	400	415	
Code	M7	Q7	N7	R7

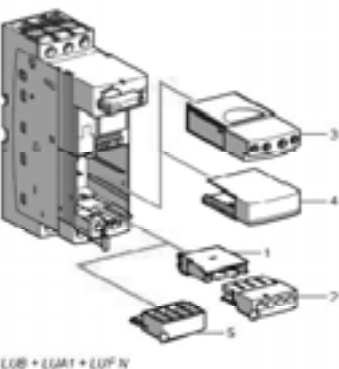
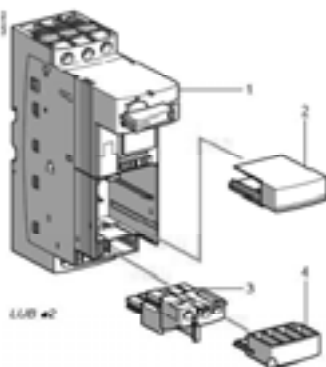
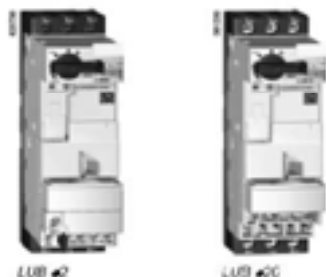
Example: 380/400 V 3-phase mains supply, 4 kW motor: **LE1M35Q716**.

TeSys motor starters - open version

TeSys U starter-controllers

Non-reversing power bases

Power bases for non-reversing D.O.L. starting (1)



Two versions of control connection configuration are available:

- **connection by screw terminals**, plug-in control terminal block,
- **without connections**. This version enables wiring to be prepared in advance and is recommended when a communication module is required (allowing the use of control connection prewiring accessories) or when a reverser block is to be mounted by the customers.

Connection	Item	Rating	Reference		
Power	Control (2)	≤ 440 V	500 V	690 V	
		A	A	A	

These bases have 2 auxiliary contacts: 1 N/O (13-14) and 1 N/C (21-22) which indicate the closed or open position of the power poles.

A low power internal contact allows power supply to the control unit to be switched off when the rotary knob is no longer in the ON position.

The power bases must be used in conjunction with a control unit, see pages G41 to G42.

Screw clamp terminals	Item	1 + 2 + 3	12	12	9	Reference
		+ 4				LUB12
			32	23	21	LUB32

(1) Rated breaking capacity for operation on short-circuit (Ics), see table below.

For higher values, use current limiters. See page G43

Volts	230	440	500	690 (2)
kA	50	50	10	4

(2) For 690 V, use phase barrier LU9SP0.

Auxiliary contacts

Signalling and composition	Cabling	Item	Reference
1 N/C fault signalling contact (95-96), 1 N/O contact (17-18) indicating rotary knob in "ready" position	Screw clamp terminals	1 + 2	LUA1C11
1 N/O fault signalling contact (97-98) 1 N/O contact (17-18) indicating rotary knob in "ready" position	Screw clamp terminals	1 + 2	LUA1C20

Auxiliary contact modules for connection by screw clamp terminals

Composition	Item	Reference
2 N/O contacts (33-34 and 43-44)	3	LUFN20
1 N/C contact (31-32) and 1 N/O contact (43-44)	3	LUFN11
2 N/C contacts (31-32 and 41-42)	3	LUFN02

Accessories

Description	For use on	Item	Reference
Blanking covers	Location for add-on contact blocks	5	LU9C2

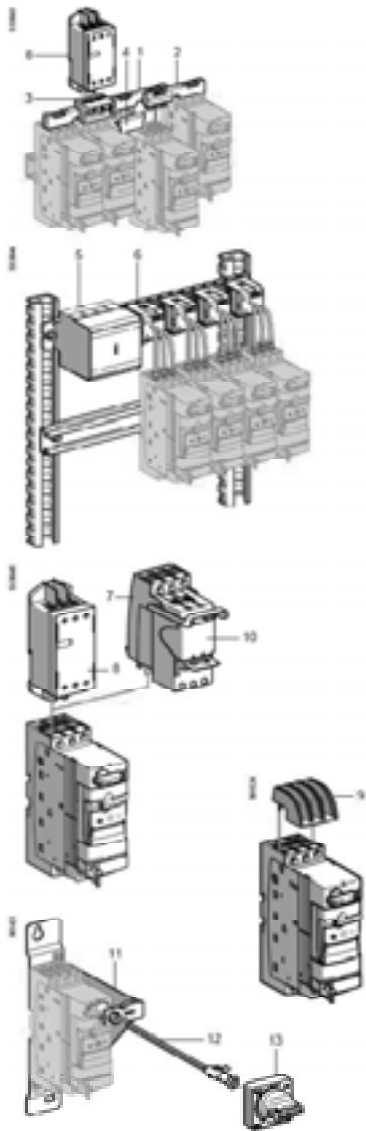


TeSys motor starters - open version

TeSys U starter-controllers

Power connection pre-wired system, limiter blocks and accessories

Power connection pre-wired system



Pre-wired system for power connections up to 63 A

Description	Item	Application	Pitch mm	Sold in lots of	Reference
Sets of 3-pole	2	2 tap-offs	45	1	GV2G245
63 A busbars	-	3 tap-offs	54	1	GV2G254
			45	1	GV2G345
	1	4 tap-offs	45	1	GV2G445
			54	1	GV2G454
			54	1	GV2G554
Protective end cover	4	For unused busbar outlets	-	5	GV1G10
Terminal block for supply to one or more busbar sets	3	Connection from the top	-	1	GV1G09

Limiter blocks and accessories

Application	Item	Breaking capacity Iq (kA)		Mounting	Unit Reference
		≤ 440 V	690 V		
Limiter-disconnector (2)(4)	7 + 10	130	70	Direct on power base	LUALB1
Current limiter (2)	8	100	35	Separate	LA9LB920
Limiter cartridge	10	130	70	Limiter-disconnector	LUALF1

Phase barrier

Application	Item	Application	Mounting	Reference
Phase barrier	9	LUB or LU2B 12 or 120 LUB or LU2B 32 or 320 LUA LB1	Direct on terminals L1, L2, L3	LU9SP0

Door interlock mechanisms

Application	Item	Reference
Fixing kit (3) (5)	11 + 12	LU9AP00
Door-mounted black handle/blue front plate, IP54	13	LU9AP11
Door-mounted red handle/yellow front plate, IP54	13	LU9AP12

- (1) Supplied with limiter cartridge.
- (2) These devices make it possible to increase the breaking capacity of the power base.
- (3) The fixing kit includes a shaft extension (maximum depth 508 mm).
- (4) The limiter must be mounted on an LUB or LU2B power base. The limiter can therefore not be common to several motor starters.
- (5) To use the fixing kit with a D.O.L. reversing power base, only reverser block LU6 M must be used.

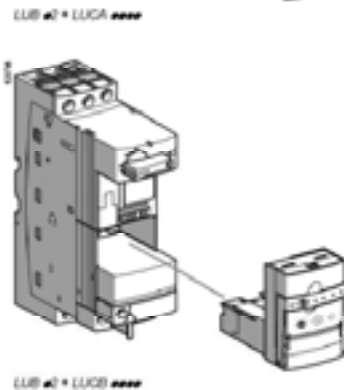
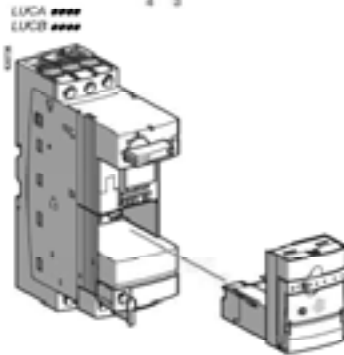
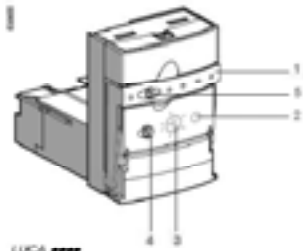
TeSys motor starters - open version

Model U starter-controllers

Standard and advanced control units

Model U starter controllers

- 1 Extraction and locking handle
- 2 Test button (on advanced control unit only)
- 3 Ir adjustment dial
- 4 Locking of settings by sealing the transparent cover
- 5 Sealing of locking handle



Standard control units

Maximum standard power ratings of 3-phase motors 50/60Hz			Setting range	Clip-in mounting on power base Rating	Basic reference, to be completed by adding the voltage code (1)
400/440V	500V	690V	A	A	
0.09	–	–	0.15...0.6	12 and 32	LUCAX6●●
0.25	–	–	0.35...1.4	12 and 32	LUCA1X●●
1.5	2.2	3	1.25...5	12 and 32	LUCA05●●
5.5	5.5	9	3...12	12 and 32	LUCA12●●
7.5	9	15	4.5...18	32	LUCA18●●
15	15	18.5	8...32	32	LUCA32●●

Advanced control units

Pressing the Test button on the front panel simulates tripping on thermal overload.

Class 10 for 3-phase motors

0.09	–	–	0.15...0.6	12 and 32	LUCBX6●●
0.25	–	–	0.35...1.4	12 and 32	LUCB1X●●
1.5	2.2	3	1.25...5	12 and 32	LUCB05●●
5.5	5.5	9	3...12	12 and 32	LUCB12●●
7.5	9	15	4.5...18	32	LUCB18●●
15	15	18.5	8...32	32	LUCB32●●

Class 10 for single-phase motors

–	–	–	0.15...0.6	12 and 32	LUCCX6●●
0.09	–	–	0.35...1.4	12 and 32	LUCC1X●●
0.55	–	–	1.25...5	12 and 32	LUCC05●●
2.2	–	–	3...12	12 and 32	LUCC12●●
4	–	–	4.5...18	32	LUCC18●●
7.5	–	–	8...32	32	LUCC32●●

Class 20 for 3-phase motors

0.09	–	–	0.15...0.6	12 and 32	LUCDX6●●
0.25	–	–	0.35...1.4	12 and 32	LUCD1X●●
1.5	2.2	3	1.25...5	12 and 32	LUCD05●●
5.5	5.5	9	3...12	12 and 32	LUCD12●●
7.5	9	15	4.5...18	32	LUCD18●●
15	15	18.5	8...32	32	LUCD32●●

(1) Standard control circuit voltages:

Replace suffix ●● with below control circuit voltage code.

Volts	24	48...72	110...240
d.c.	BL (2), (3)	–	–
a.c.	B	–	–
a.c. or d.c.	–	ES (4)	FU (5)

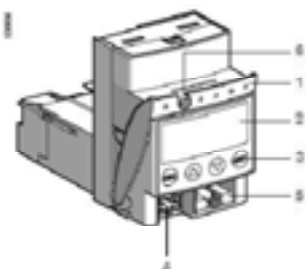
(2) Voltage code to be used for a starter-controller with communication module.

(3) d.c. voltage with maximum ripple of $\pm 10\%$.

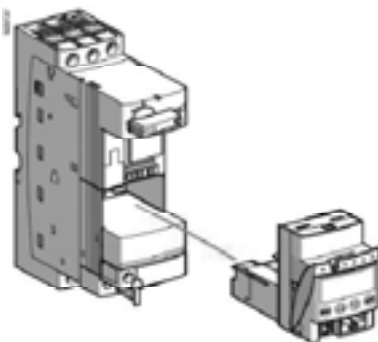
(4) d.c.: 48...72 V, a.c.: 48 V.

(5) d.c.: 110...220 V, a.c.: 110...240 V.

Model U starter controllers



LUCM 40BL



LUCM 40 + LUCM 40BL



XBT 7 NU400

- 1 Extraction and locking handle
- 2 Built-in display window (2 lines, 12 characters)
- 3 4-button keypad
- 4 d.c. 24 V auxiliary power supply
- 5 Modbus RS485 communication port. Connection by RJ45 connector.
- 6 Sealing of locking handle

The display window **2** and keypad **3** allow:

- in configuration mode: local configuration of protection functions and alarms,
- in run mode: display of parameter values and events.

The Modbus communication port **5** is used to connect:

- an operator terminal,
- a PC,
- a Personal Digital Assistant (PDA).

Multifunction control units

Parameter entry, monitoring of parameter values and consultation of logs are carried out.

- either on the front panel, using the built-in display window/keypad,
- or via an operator terminal,
- or via a PC or a PDA with PowerSuite software,
- or remotely, via a Modbus communication bus.

Programming of the product via the keypad requires a d.c. 24 V auxiliary power supply.

Maximum standard power ratings of 3-phase motors 50/60Hz			Setting range	Clip-in mounting on power base	Reference (1)
400/440 V	500V	690V		Rating	
kW	kW	kW	A	A	
0.09	–	–	0.15...0.6	12 and 32	LUCMX6BL
0.25	–	–	0.35...1.4	12 and 32	LUCM1XBL
1.5	2.2	3	1.25...5	12 and 32	LUCM05BL
7.5	9	15	4.5...18	32	LUCM18BL
15	15	18.5	8...32	32	LUCM32BL

Operator terminal

This compact Magelis terminal enables the parameters of multifunction control unit LUCM to be read and modified.

It is supplied pre-configured to provide dialogue with 8 model U starter-controllers (Modbus protocol, application pages and alarm pages loaded).

Starter-controller alarm and fault management takes priority.

Laugrage	Display window	Supply volatge	Reference
Multi-language (English, French, German, Italian, Spanish)	4 lines of 20 characters	d.c. 24 V	XBTNU400

Connecting cable (2)

Function	Length	Type	Reference
Connects terminal XBT NU400 to a multifunction control unit.	2.5m	SUB-D 25-way female - RJ45	XBTZ938

(1) Input voltage d.c. 24 V with maximum ripple of $\pm 10\%$.

(2) If a terminal is used with several control units, this cable can be connected to a Modbus hub or to T-junctions.

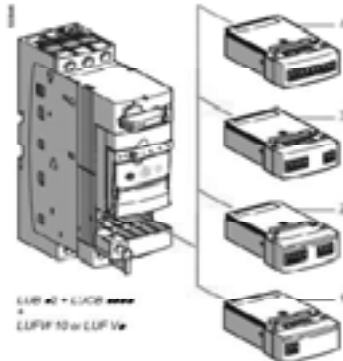
(3) Discount code is 29

TeSys motor starters - open version

Model U starter-controllers

Function modules, Parallel wiring module and pre-wired coil connection components

Function modules



Output	Item	Application	Reference
Thermal overload signalling and manual reset			
1 N/O + 1 N/C	3	a.c. or d.c. 24...250 V	LUFDH11
Thermal overload signalling and automatic or remote reset			
1 N/C	4	a.c. or d.c. 24...250 V	LUFDA01
1 NO	4	a.c. or d.c. 24...250 V	LUFDA10
Thermal overload alarm			
1 NO	1	a.c. or d.c. 24...250 V	LUFW10
Indication of motor load			
4 - 20 mA	2		LUFV2

Parallel wiring module and pre-wired coil connection components



Description	Reference
Parallel wiring module	LUFC00

Pre-wired components simplify wiring and reduce wiring errors

Connection of communication module output terminals to the coil terminals

By pre-wired connector or wire link.

■ Pre-wired connector: pre-wired coil connection

The use of a power base without pre-wired connections is recommended.

Description	For use with power base	Item	Reference
Pre-wired coil connection	LU2B●●	8	LU9MRC

■ Wire link:

Allows insertion, for example, of an emergency stop control or a voltage interface. This type of connection must be used for a reversing starter-controller assembled using an LU6M reverser block for separate mounting. When reverser block LU6M and the power base are mounted side-by-side, a pre-wired connector LU9M RC may be used.

Connection of parallel wiring module to the PLC

Splitter block

Connection	Starter-controller side	Reference
PLC side (16I/12O)	8 x RJ45	LU9G02
2 x HE 10 20-way		(1)

Connection cables to the splitter box

Connection	Length	Reference
2 x RJ45 connectors	0.3	LU9R03
	1	LU9R10
	3	LU9R30

Connection cables from splitter box to PLC

Type of connection	Gauge	C.s.a.	Length	Reference	
PLC side	Splitter box side	AWG	mm ²	m	
HE 10	HE 10	22	0.324	2	TSXCDP203
20-way	20-way			3	TSXCDP303
				5	TSXCDP503
Bare wires	HE 10	22	0.324	3	TSXCDP301
	20-way			5	TSXCDP501

(1) Allows "run" and "fault" status of each starter-controller to be fed back to the PLC and transmits commands.

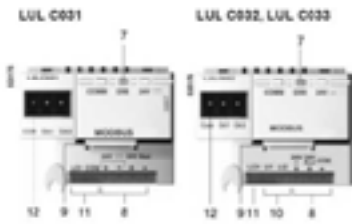
(2) See Automation price book or consult our Customer Care Centre. Discount code 28.

TeSys motor starters - open version

Model U starter-controllers

Modbus communication modules and pre-wired coil connection components

Modbus communication modules



Description	Item	Reference
Communication modules	1	LULC031
	1	LULC033

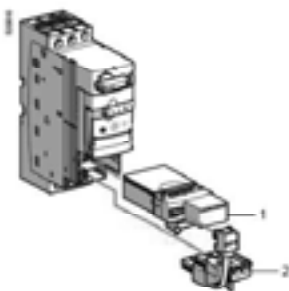
Pre-wired components simplify wiring and reduce wiring errors

Connection of communication module output terminals to the coil terminals

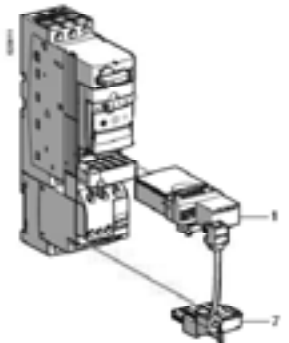
See page G43

Connection of communication modules on the serial bus

Achieved either by means of a Modbus hub or using T-Junctions



LU9GC3 + LULC031 + LU9GC3



LU9GC3 + LULC031 + LU9GC3

Description	Length m	Reference
Modbus hub	–	LU9GC3
8 slaves		
Cables fitted with	0.3	VW3A8306R03
2 x RJ45 connectors	1	VW3A8306R10
	3	VW3A8306R30
T-junctions (1)	0.3	VW3A8306TF03
	1	VW3A8306TF10
RS 485 line terminator	–	VW3A8306R

(1) Fitted with 2 RJ45 female connectors (bus side) and a 0.3 m or 1 m length cable supplied with an RJ45 male connector (station side).

(2) Discount code is 22

TeSys motor starters - open version

Model U starter-controllers

Communication gateways LUF P

Communication gateways LUF P



Front panel of the product

1 LED indicating :

- communication status of the Modbus serial links,
- gateway status,
- communication status of the Fipio, Profi bus DP or DeviceNet bus.

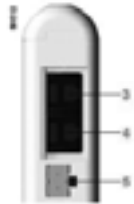
2 Connectors for connection to Fipio, Profi bus DP or DeviceNet buses.

Underside of product

3 RJ45 connector for connection of the Modbus serial link

4 RJ45 connector for link to a PC

5 d.c. 24 V power supply



Description	For use with	With bus type	Reference
Communication gateways	TeSys Model U starter-controllers	Fipio/Modbus	LUFP1
		Profibus DP/Modbus	LUFP7
		DeviceNet/Modbus	LUFP9

Connection accessories

Description	For use with	Length m	Connectors	Reference
Connection cables	Modbus	3	1 RJ45 type connector and one end with stripped wires	VW3A8306D30
		0.3	2 RJ45 type connectors	VW3A8306R03
		1	2 RJ45 type connectors	VW3A8306R10
		3	2 RJ45 type connectors	VW3A8306R30
Connectors	Fipio	–	1 SUB-D 9 male connector	TSXFPACC12
	Profibus mid line	–	1 SUB-D 9 male connector	490NAD91104
	Profibus line end	–	1 SUB-D 9 male connector	490NAD91103

(1) Discount code is 22

(2) See Automation price book or consult our Customer Care Centre. Discount code 28.



Control relay

Mini-control relays type CA2SK and CA3SK

Control circuit: AC/DC

Mini control relays (screw clamp terminals)



CA2-SK20

Control circuit supply	Width of control relay (mm)	Fixing	Instantaneous auxiliary contact		Basic reference, to be completed by adding the voltage code (1)
			NO	NC	
a.c. supply	27	35mm DIN rail	2	-	CA2SK20●●
			1	1	CA2SK11●●
d.c. supply	27	35mm DIN rail	2	-	CA3SK20●●
			1	1	CA3SK11●●

Instantaneous auxiliary contact blocks

Description	For use on control relay	Composition		Reference
		NO	NC	
Clip-on front mounting, 1 block per contactor (with screw clamp terminals)	CA2SK20	2	-	LA1SK20
		-	2	LA1SK02
		1	1	LA1SK11

Suppressor module

Clip-on fixing and electrical connection on right-hand side, without use of tools

For use on control relay	Type	For voltages	Sold in lots of	Reference
CA2SK and CA3SK	Varistor	ac and dc 110V...250V	10	LA4SKE1U
CA3SK	Diode	dc 24V...250V	10	LA4SKC1U

(1) Standard control circuit voltages. Please consult your Sales Office for others control circuit voltage.

CA2SK mini control relays (Replace ●● with below others control circuit voltage)

Volts 50/60Hz	110	120	220	230	240
Code	F7	G7	M7	P7	U7

CA3SK mini control relays (Replace ●● with below others control circuit voltage)

Volts DC	12	24	48
Code	JD	BD	ED

(2) Contactor with alternating contacts. Cannot be fitted with front mounted auxiliary contact block and coil suppressor module.

Control relay

K control relays and auxiliary contact blocks

Control circuit: AC/DC

Control relays (screw clamp type)



CA2-KN40

- Mounting on 35mm rail or diameter 4 screw fixing
- Screws in open "ready-to-tighten" position.

Supply	Control circuit consumption	Instantaneous auxiliary contacts		Basic reference to be completed by adding the voltage code (1)
		NO	NC	
a.c. supply	4.5 VA	4	-	CA2KN40●●
		3	1	CA2KN31●●
		2	2	CA2KN22●●
d.c. supply	3W	4	-	CA3KN40●●
		3	1	CA3KN31●●
		2	2	CA3KN22●●

Low consumption control relays



CA4-KN40

Supply	Control circuit consumption	Instantaneous auxiliary contacts		Basic reference to be completed by adding the voltage code (1)
		NO	NC	
d.c. supply	1.8W	4	-	CA4KN40●●●
		3	1	CA4KN31●●●
		2	2	CA4KN22●●●

Instantaneous auxiliary contact blocks

	Composition		Reference
	NO	NC	
Clip-on front mounting, 1 block per contactor (with screw clamp terminals)	2	-	LA1KN20
	-	2	LA1KN02
	1	1	LA1KN11
	4	-	LA1KN40
	3	1	LA1KN31
	2	2	LA1KN22
	1	3	LA1KN13
	-	4	LA1KN04

Electronic time delay contact blocks (on-delay type)

Voltage	Timing range	Composition C/O	Reference
24...48Vac/dc	1...30s	1	LA2KT2E
110...240Vac	1...30s	1	LA2KT2U

(1) Standard control circuit voltages (Replace suffix ●● with below control circuit voltage code)

CA2K control relays (0.8...1.15 Uc) (0.85...1.1Uc)

Volts	24	110	220/	230	230/	400	400/
50/60 Hz			230		240		415
Code	B7	F7	M7	P7	U7	V7	N7

CA3K control relays (0.8...1.15 Uc)

Volts DC	24	48
Code	BD	ED

CA4K low consumption control relays (wide range coil:0.7...1.3 Uc)

Volts DC	12	24	48
Code	JW3	BW3	EW3

Others voltages, please consult your Sales Office.

TeSys control relay

TeSys D control relays and accessories

Control circuit: a.c., d.c. or low consumption

TeSys D instantaneous control relays



CAD-50●●



CAD-32●●



CAD-503●●

Number of contacts	Composition		Basic reference, to be completed by adding the voltage code (1)
	NO	NC	
for connection by screw clamp terminals			
5	5	-	CAD50●●
	3	2	CAD32●●
for spring terminal connections			
5	5	-	CAD503●●
	3	2	CAD323●●

Instantaneous auxiliary contact blocks

Number of contacts	Maximum number per device Clip-on mounting		Composition		Reference
	front	side	NO	NC	
for connection by screw clamp terminals					
2	1	-	1	1	LADN11
	-	1 on LH side	1	1	LAD8N11
	1	-	2	-	LADN20
	-	1 on LH side	2	-	LAD8N20
	1	-	-	2	LADN02
	-	1 on LH side	-	2	LAD8N02
4 (3)	1	-	2	2	LADN22
			1	3	LADN13
			4	-	LADN40
			-	4	LADN04
			3	1	LADN31
			2	2	LADC22

Including 1 N/O and 1 N/C make before break.

for spring terminal connections

This type of connection is not possible for contact blocks LAD8 and blocks with dust and damp protected contacts. For all other instantaneous auxiliary contact blocks, add digit 3 to the end of the references selected above. Example: LADN11 becomes LADN113.

(1) Standard control circuit voltages (for other voltages, please consult your Sales Office).

Replace suffix ●● with below control circuit voltage code.

A.C. supply

Volts ~	48	110	220	230	240
50/60 Hz	E7	F7	M7	P7	U7

D.C. supply (coils with built-in suppression device fitted as standard)

Volts ---	24	110
U 0.7...1.25 Uc	BD	FD

Low consumption (coils with built-in suppression device fitted as standard)

Volts ---	24	48
Code	BL	EL

(2) Device fitted with 4 earth screen continuity terminals.

(3) Blocks with 4 auxiliary contacts cannot be used on low consumption control relays.

TeSys control relay

TeSys D range control relays

Auxiliary contact block and accessories

Model D instantaneous control relays

Time delay auxiliary contact blocks

LADT0 and LADD0: with extended scale from 0.1 to 0.6 s.

LADS2: with switching time of 40 ms ± 15 ms between opening of the N/C contact and closing of the N/O contact.



LADT0

Max. no. per device	Number of contacts	Time delay Type	Setting range	Reference
Front mounting for connection by screw clamp terminals	1 N/O and 1 N/C	On-delay	0.1...3 s	LADT0
			0.1...30 s	LADT2
			10...180 s	LADT4
			1...30 s	LADS2
		Off-delay	0.1...3 s	LADR0
			0.1...30 s	LADR2
			10...180 s	LADR4

Mechanical latch blocks (1)

Max. number per device	Unlatching control	Control circuit voltage	Basic reference, to be completed by adding the voltage code (2)
Front	Manual or electric	220/240Vac	LAD6K10●

Coil suppressor modules (for mounting on CAD control relay)

Type	Operational voltage	Reference
RC circuits	24...48Vac	LAD4RCE
	110...240Vac	LAD4RCU

(1) Power should not be simultaneously applied or maintained to the mechanical latching block and the CADN.

The duration of the control signal to the mechanical latching block and the CADN should be 100ms.

(2) Standard control circuit voltages. Replace suffix ● with below control circuit voltage.

Volts 50/60 Hz,	110/127	220/240
Code	F	M

Power management

PowerLogic® System

PowerLogic®

Branch circuit power meter	
Power Logic® - Branch circuit power meter	H1
1/3 Volt low-voltage CTs	H1
Enercept® Meter	H2

Power-monitoring units

Power meter	
Digital meter DM6000	H3
Power meter PM1000	H3
Power meter PM5350	H3
Power meters PM700/PM800	H4
Options modules and accessories for PM800	H4
Energy meter iEM3000 <i>New!</i>	H5
Ethernet communication and gateway	H6

Protection relays

Electrical network protection	
Sepam series 10	H7
Sepam series 20	H8
Sepam series 40	H9
Sepam series 80	H11
Sepam accessories	H13
MiCOM P111 Enh <i>New!</i>	H14

Power Logic®

Branch circuit power meter

Power Logic BCPM

The branch circuit power meter solution

The ideal solution for data centre managers, engineers and operational executives who are responsible for delivering power to critical applications. In corporate and hosted data centre facilities, this technology helps you plan and optimise the critical power infrastructure to meet the demands of continuous availability.

The PowerLogic BCPM is a highly accurate, full featured metering product designed for the unique, multi-circuit and minimal space requirements of a high performance power distribution unit (PDU) or remote power panel (RPP).

The BCPM monitors up to 84 branch circuits and the incoming power mains, to provide information on a complete PDU. Full alarming capabilities ensure that potential issues are dealt with before they become problems.

Unlike products designed for specific hardware, the flexible BCPM will fit any PDU or RPP design and supports both new and retrofit installations. It has exceptional dynamic range and accuracy, and optional feature sets to meet the energy challenges of mission critical data centers.



Type	CT spacing (mm)	Circuit number	Reference
BCPMA – Advanced power and energy per circuit and mains	19	42	BCPMA042S
		84	BCPMA084S
	26	42	BCPMA142S
		84	BCPMA184S
BCPMB – Intermediate current per circuit, power and energy per mains	19	42	BCPMB042S
		84	BCPMB084S
	26	42	BCPMB142S
		84	BCPMB184S
BCPMC – Basic current only per circuit and mains	19	42	BCPMC042S
		84	BCPMC084S
	26	42	BCPMC142S
		84	BCPMC184S

1/3 Volt low-voltage CTs

The BCPM uses 1/3 V output split-core CTs for the auxiliary inputs. These CTs are to be ordered separately.

Amperage	Inside dimensions	Reference
100 A	31 mm x 100 mm	LVCT00102S
200 A	31 mm x 100 mm	LVCT00202S
300 A	31 mm x 100 mm	LVCT00302S
400 A	62 mm x 132 mm	LVCT00403S
600 A	62 mm x 132 mm	LVCT00603S
800 A	62 mm x 132 mm	LVCT00803S
800 A	62 mm x 201 mm	LVCT00804S
1000 A	62 mm x 201 mm	LVCT01004S
1200 A	62 mm x 201 mm	LVCT01204S
1600 A	62 mm x 201 mm	LVCT01604S
2000 A	62 mm x 201 mm	LVCT02004S
2400 A	62 mm x 201 mm	LVCT02404S

PowerLogic® Enercept® Meter

The Enercept meter, a part of the pioneering POWERLOGIC® power monitoring system, simplifies installation making it much easier to include energy meters throughout an electrical distribution system. An innovative form factor (patent pending) eliminates the need for a separate meter enclosure and reduces installation cost by as much as 70%. The meter is inside the CTs, and no external PTs are required, making this a cost effective option for basic electrical metering.

Applications

- Energy management & performance contracting
- Submetering for commercial tenants
- Activity based costing in commercial and industrial facilities
- Real time power monitoring
- Motor control center monitoring
- Motor maintenance trending
- Power equipment planning
- Data for motor sizing



Type	Range	CT window I.D.	Reference
Basic Enercept meters	100 A	1.25" x 1.51"	3020B012S
	300 A	1.25" x 1.51"	3020B032S
	400 A	2.45" x 2.89"	3020B043S
	800 A	2.45" x 2.89"	3020B083S
	800 A	2.45" x 5.50"	3020B084S
	1600 A	2.45" x 5.50"	3020B164S
	2400 A	2.45" x 5.50"	3020B244S
Enhanced Enercept meters	100 A	1.25" x 1.51"	3020E012S
	300 A	1.25" x 1.51"	3020E032S
	400 A	2.45" x 2.89"	3020E043S
	800 A	2.45" x 2.89"	3020E083S
	800 A	2.45" x 5.50"	3020E084S
	1600 A	2.45" x 5.50"	3020E164S
	2400 A	2.45" x 5.50"	3020E244S

Power-monitoring units

Digital Meter DM6000

Power Meter PM1000 & PM5350

Digital meter DM6000



DM6000

DM6000 is Ideal for replacing multiple analog meters with a single digital meter to simplify wiring, save panel space and reduce installation labour costs

- Digital panel meters, or VAF meters
- Basic parameters (volts, amps, power factor and frequency)

Type		Reference
DM6000	basic without communications	METSEDM6000
DM6200	basic plus 2 terminal RS-485 port with Modbus RTU protocol	METSEDM6200

Power meter PM1000



PM 1000 is Ideal for energy and power monitoring of your electric system's essential measurements Basic parameters, energy parameters, power parameters, demand and total harmonics distortions

Type		Reference
PM1000	basic without communications	METSEPM1000
PM1200	basic plus 2 terminal RS-485 port with Modbus RTU protocol	METSEPM1200

Power meter PM5350



The PowerLogic PM5350 power meter offers all the measurement capabilities required to monitor an electrical installation in a single 96 x 96 mm unit extending only 44 mm behind the mounting surface.

Type		Reference
PM5350		METSEPM5350



Power meter PM700



PM700 Series

The PM700 Power Meter provides all measurement capabilities required to monitor an electrical installation in a single 96x96 mm unit.

- True RMS measurement of current; voltage; frequency; power and power factor.
- Measurement of harmonic distortion of current and voltage
- Metering of active, reactive and apparent energy (2 quadrant measurement).
- Accuracy on voltage/current 0.5%

Meter unit

	Reference
Integrated display, basic metering	PM700MG
Integrated display, basic metering and pulse outputs	PM700PMG
Integrated display, basic metering and RS485 modbus communication	PM710MG
Integrated display, basic metering and RS485 modbus communication and pulse outputs	PM750MG

Power meter PM800



PM800 Series

The PM800 series features as standard an RS485 communication port, digital input, digital output, THD metering and alarming in the base unit. In addition, the PM820 and PM850 offer custom on-board logging and individual harmonic current and voltage reading.

PM850 provides additional features of steady-state waveform capture. While PM870 provides the capability to detect voltage/current sag and swell with waveform capture.

Meter unit and display combination

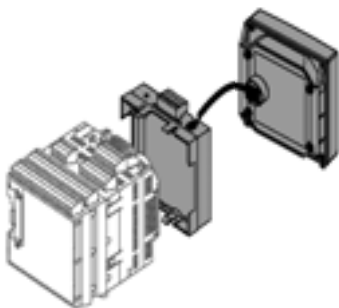
	Reference
with THD, alarming, I/O	PM810MG
with harmonics, alarming, I/O, 80 kb logging	PM820MG
with harmonics, alarming, I/O, 800 kb logging, waveform capture.	PM850MG
with harmonics, alarming, I/O, 800 kb logging, waveform capture, sag/swell detection	PM870MG

Meter unit without display

	Reference
PM810 Power meter without display	PM810UMG
PM820 Power meter without display	PM820UMG
PM850 Power meter without display	PM850UMG
PM870 Power meter without display	PM870UMG

Options Modules and accessories

	Reference
Remote display and adapter with 12 foot cable	PM8RDMG
2 relay outputs, 2 digital inputs	PM8M22
2 relay outputs, 6 digital inputs	PM8M26
2 relay outputs, 2 digital inputs, 2 analog outputs, 2 analog inputs	PM8M2222
Ethernet Communication card, 10/100Mbps UTP Ethernet, and 1 RS485 ports	PM8ECC



PM800 Series remote display and adapter

H

Power-monitoring units

Energy meter iEM3000

Energy meter iEM3000

The offer ranges from very basic kWh meters for the most basic applications to MID-compliant meters for billing applications to advanced energy meters able to measure a variety of electrical parameters.

Management systems. It's the right energy meter at the right price for the right job.



New!

iEM3000		
		Reference
iEM3100	Basic energy meter (direct measurement inputs up to 63A)	A9MEM3100
iEM3155	Advanced multi-tariff energy meter & electrical parameter with Modbus RS-485 comm port (direct measurement inputs up to 63A), MID certified	A9MEM3155
iEM3200	Basic energy meter (measurement input through CTs)	A9MEM3200
iEM3255	Advanced multi-tariff energy meter & electrical parameter with Modbus RS-485 comm port (measurement input through CTs), MID certified	A9MEM3255



Ethernet Communication

For more complex communication network architecture, various modbus (and PowerLogic protocol) to Ethernet gateway is available.

Ethernet Card for installation on to CM3000 & CM4000

Reference

Ethernet Communication card 100Mbps fibre optic, 10/100Mbps UTP Ethernet, 1 RS485 ports

ECC21



PowerLogic EGX100

Ethernet Gateway for standalone installation

Reference

The EGX100 serves as an Ethernet gateway for PowerLogic system devices and for any other communicating devices utilizing the Modbus protocol. The EGX100 gateway offers complete access to status and measurement information provided by the connected devices via PowerLogic software installed on a PC.

EGX100MG

Serial port: RS232 or RS485 (2-wire or 4-wire), depending on settings
Ethernet port: 10/100 MB



PowerLogic EGX300

The EGX300 integrated gateway-server uses only a simple web browser and Ethernet network to access, log and display real-time data and trend plots from up to 64 PowerLogic system devices, including other gateway devices on the same network. The EGX300 embedded web page function and 512 Mb of onboard memory allow users to create pages for viewing data from their electrical system and store third-party web pages and documents such as instruction bulletins or equipment and system diagrams.

EGX300

Serial port: RS232 or RS485 (2-wire or 4-wire), depending on settings
Ethernet port: 10/100 MB
Web server: 512 MB

Sepam 10



Sepam series 10.

Sepam series 10 is a high-quality protection relay that represents the most cost effective solution available for essential protection functions. Highly ergonomic, it is easy to install and set up. Sepam series 10 monitors phase and/or earth-fault currents. Three models meet a wide range of different needs :

N type : Sepam series 10 N protects against earth faults

B type : Sepam series 10 B protects against overloads, phase-to-phase faults and earth faults

A type : Sepam series 10 A provides the same functions as model B, but with a communication port, more inputs and outputs, and additional protection and monitoring functions.

A Sepam series 10 catalogue number comprises different elements:

Sepam series 10		X	X	X	X
Range Sepam series 10					
Model					
Earth-fault protection		N			
Phase-overcurrent and earth-fault protection		B			
Phase-overcurrent and earth-fault protection, logic inputs and communication port		A			
Number of current inputs					
1 earth-fault input			1		
2-phase-current inputs + 1 earth-fault input			3		
3-phase-current inputs + 1 earth-fault input			4		
Sensitivity of earth-fault protection					
Standard 0.1 - 24 InO (DT), 0.1 - 2.4 InO (IDMT) ⁽¹⁾				1	
Sensitive 0.01 - 24 InO (DT), 0.01 - 0.24 InO (IDMT) ⁽¹⁾				2	
High sensitivity (0.2 - 24A and 2 - 240A) ⁽²⁾				3	
Supply voltage					
24...125 VDC and 100...120 VAC					A
110...250 VDC and 100...240 VAC					E
220...250 VDC and high-threshold logic inputs					F

(1) Uses 1 A/ 5 A sensors

(2) Uses CSH CTs

Sepam 10	Reference
Sepam series 10 N 11 A	REL59817
Sepam series 10 N 11 E	REL59819
Sepam series 10 N 13 A	REL59818
Sepam series 10 N 13 E	REL59820
Sepam series 10 B 41 A	REL59802
Sepam series 10 B 41 E	REL59805
Sepam series 10 B 42 A	REL59803
Sepam series 10 B 42 E	REL59806
Sepam series 10 B 43 A	REL59804
Sepam series 10 B 43 E	REL59807
Sepam series 10 A 41 A	REL59808
Sepam series 10 A 41 E	REL59811
Sepam series 10 A 41 F	REL59814
Sepam series 10 A 42 A	REL59809
Sepam series 10 A 42 E	REL59812
Sepam series 10 A 42 F	REL59815
Sepam series 10 A 43 A	REL59810
Sepam series 10 A 43 E	REL59813
Sepam series 10 A 43 F	REL59816



Electrical network protection

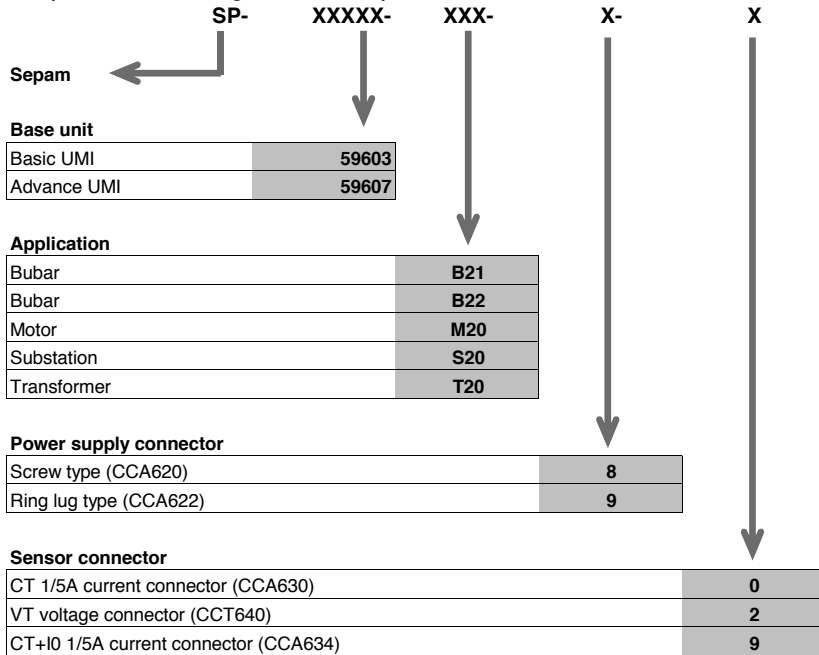
Sepam 20

Sepam 20

Suitable for common applications, Sepam series 20 offers simple solutions based on current or voltage sensing.

- Protection of substation incomers and feeders against phase-to-phase and phase-to-earth short-circuits
- Protection of overhead lines with built-in recloser function
- Protection of transformers against overloads, with ambient temperature-compensated RMS thermal overload
- Protection of motors
- Protection of busbars suitable for the following situations:
 - n monitoring of network voltage and frequency
 - n loss of mains detection by rate of change of frequency

A Sepam series 20 catalogue number comprises different elements:



Application	Current/Voltage connector	Reference
Basic User Machine Interface with screw connector		
B21	VT	SP-59603-B21-8-2
B22	VT	SP-59603-B22-8-2
M20	CT	SP-59603-M20-8-0
	CT+IO	SP-59603-M20-8-9
S20	CT	SP-59603-S20-8-0
	CT+IO	SP-59603-S20-8-9
T20	CT	SP-59603-T20-8-0
	CT+IO	SP-59603-T20-8-9
Advanced User Machine Interface with screw connector		
B21	VT	SP-59607-B21-8-2
B22	VT	SP-59607-B22-8-2
M20	CT	SP-59607-M20-8-0
	CT+IO	SP-59607-M20-8-9
S20	CT	SP-59607-S20-8-0
	CT+IO	SP-59607-S20-8-9
T20	CT	SP-59607-T20-8-0
	CT+IO	SP-59607-T20-8-9

Consult us for quotation for others model.

H

Electrical network protection

Sepam 40

Sepam 40

Sepam series 40, with its current and voltage sensing capabilities, offers high-performing solutions for more demanding applications.

Sepam series 40 units perform the following functions in addition to those performed by Sepam series 20:

- Protection of closed ring networks or networks with parallel incomers, by directional protection.
- Directional earth fault protection suitable for all earthing systems: impedance, isolated or compensated neutral.
- Protection of networks with variable configurations requiring the switching of groups of settings and logic discrimination.
- All the necessary electrical measurements: phase and residual currents, phase-to-neutral, phase-to-phase and residual voltage, frequency, power and energy,...
- Comprehensive network diagnosis assistance: 20 seconds of disturbance recording, detailed history of the last 200 alarms, storage of the last 5 tripping contexts.
- Adaptation of control functions by a logical equation editor.
- customization of alarm messages to fit each application, and/or in the user's language.

A Sepam series 40 catalogue number comprises different elements:

	SP-	XXXXX-	XXX-	X-	X-	X
Base unit						
Basic UMI		59600				
Advance UMI		59604				
Application						
Generator			G40			
Motor			M41			
Substation			S40			
			S41			
			S42			
Transformer			T40			
			T42			
Power Supply Connector						
Screw type (CCA620)				8		
Ring lug type (CCA622)				9		
Sensor connector						
1/5A CT current connector (CCA630)					0	
1/5A CT+IO current connector (CCA634)					9	
Voltage Connector						
Screw type (CCA626)						6
Ring lug type (CCA627)						7



Sepam base unit (series 20 or series 40) with basic UMI.

Basic User Machine Interface with screw connectors

Application	Current connector	Reference
G40	CT	SP-59600-G40-8-0-6
	CT+IO	SP-59600-G40-8-9-6
M41	CT	SP-59600-M41-8-0-6
	CT+IO	SP-59600-M41-8-9-6
S40	CT	SP-59600-S40-8-0-6
	CT+IO	SP-59600-S40-8-9-6
S41	CT	SP-59600-S41-8-0-6
	CT+IO	SP-59600-S41-8-9-6
S42	CT	SP-59600-S42-8-0-6
	CT+IO	SP-59600-S42-8-9-6
T40	CT	SP-59600-T40-8-0-6
	CT+IO	SP-59600-T40-8-9-6
T42	CT	SP-59600-T42-8-0-6
	CT+IO	SP-59600-T42-8-9-6

Electrical network protection

Sepam 40 (cont...)

Sepam 40



Sepam base unit (series 20 or series 40) with integrated advanced LMI.

Advanced User Machine Interface with screw connectors

Application	Current connector	Reference
G40	CT	SP-59604-G40-8-0-6
	CT+IO	SP-59604-G40-8-9-6
M41	CT	SP-59604-M41-8-0-6
	CT+IO	SP-59604-M41-8-9-6
S40	CT	SP-59604-S40-8-0-6
	CT+IO	SP-59604-S40-8-9-6
S41	CT	SP-59604-S41-8-0-6
	CT+IO	SP-59604-S41-8-9-6
S42	CT	SP-59604-S42-8-0-6
	CT+IO	SP-59604-S42-8-9-6
T40	CT	SP-59604-T40-8-0-6
	CT+IO	SP-59604-T40-8-9-6
T42	CT	SP-59604-T42-8-0-6
	CT+IO	SP-59604-T42-8-9-6

Consult us for quotation for others model.

Electrical network protection

Sepam 80

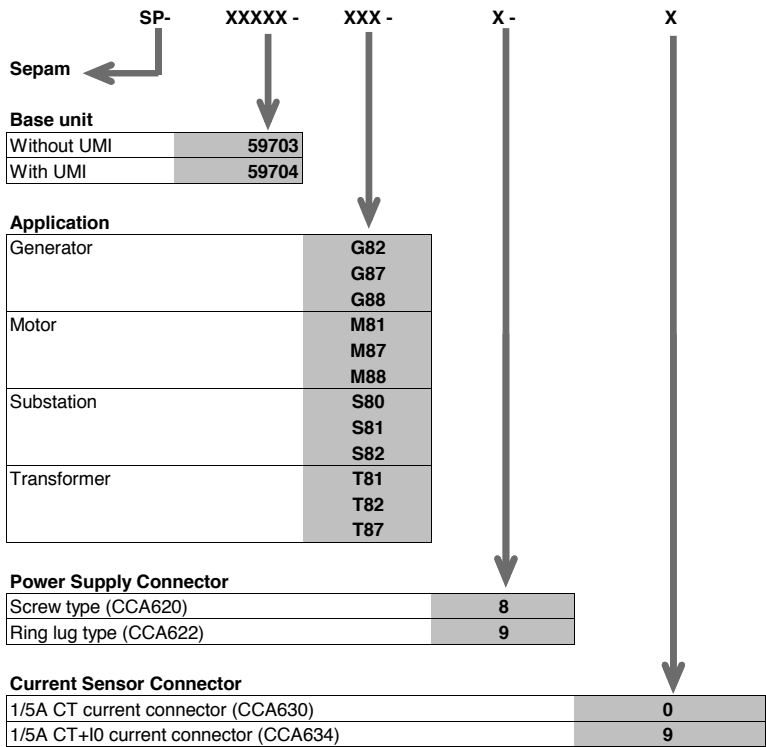
Sepam series 80

Sepam series 80 offers intelligent solutions for complete applications. Specially designed for demanding customers on large industrial sites.

Sepam series 80 provides proven solutions for electrical distribution and machine protection:

- protection of closed ring networks or networks with parallel incomers by directional protection and logic discrimination.
- directional earth fault protection for impedance-earthed and isolated or compensated neutral systems.
- complete protection of transformers and machine-transformer units
 - w stable, sensitive differential protection with neural network restraint
 - w linked to all necessary backup protection functions
- complete protection of motors and generators against internal faults:
 - w stable, sensitive machine differential protection, with starting and sensor loss restraint
 - w field loss, stator earth fault, etc.
 - against network and process faults: pole slip, speed control, inadvertent energization, etc.
- measurement of harmonic distortion, current and voltage, to assess network power quality
- 42 inputs / 23 outputs for comprehensive equipment control
- logic equation editor for specific control functions
- 2 Modbus communication ports to integrate Sepam in 2 different networks or redundant architectures
- removable memory cartridge to get equipment in operation again quickly after any replacement
- battery backup to save historical and disturbance recording data.

A Sepam series 80 catalogue number comprises different elements:



Sepam 80 series base unit (with or without UMI)

Basic User Machine Interface with screw connector		
Application	Current connector	Reference
G82	CT	SP-59703-G82-8-0
	CT+IO	SP-59703-G82-8-9
G87	CT	SP-59703-G87-8-0
	CT+IO	SP-59703-G87-8-9
G88	CT	SP-59703-G88-8-0
	CT+IO	SP-59703-G88-8-9
M81	CT	SP-59703-M81-8-0
	CT+IO	SP-59703-M81-8-9

Electrical network protection

Sepam 80 (cont...)

Sepam series 80



Sepam 80 series base unit
(with or without UMI)



Sepam series 80 base unit with integrated advanced UMI

Basic User Machine Interface with screw connector (cont...)

Application	Current connector	Reference
M87	CT	SP-59703-M87-8-0
	CT+IO	SP-59703-M87-8-9
M88	CT	SP-59703-M88-8-0
	CT+IO	SP-59703-M88-8-9
S80	CT	SP-59703-S80-8-0
	CT+IO	SP-59703-S80-8-9
S81	CT	SP-59703-S81-8-0
	CT+IO	SP-59703-S81-8-9
S82	CT	SP-59703-S82-8-0
	CT+IO	SP-59703-S82-8-9
T81	CT	SP-59703-T81-8-0
	CT+IO	SP-59703-T81-8-9
T82	CT	SP-59703-T82-8-0
	CT+IO	SP-59703-T82-8-9
T87	CT	SP-59703-T87-8-0
	CT+IO	SP-59703-T87-8-9

Advanced User Machine Interface with screw connectors

G82	CT	SP-59704-G82-8-0
	CT+IO	SP-59704-G82-8-9
G87	CT	SP-59704-G87-8-0
	CT+IO	SP-59704-G87-8-9
G88	CT	SP-59704-G88-8-0
	CT+IO	SP-59704-G88-8-9
M81	CT	SP-59704-M81-8-0
	CT+IO	SP-59704-M81-8-9
M87	CT	SP-59704-M87-8-0
	CT+IO	SP-59704-M87-8-9
M88	CT	SP-59704-M88-8-0
	CT+IO	SP-59704-M88-8-9
S80	CT	SP-59704-S80-8-0
	CT+IO	SP-59704-S80-8-9
S81	CT	SP-59704-S81-8-0
	CT+IO	SP-59704-S81-8-9
S82	CT	SP-59704-S82-8-0
	CT+IO	SP-59704-S82-8-9
T81	CT	SP-59704-T81-8-0
	CT+IO	SP-59704-T81-8-9
T82	CT	SP-59704-T82-8-0
	CT+IO	SP-59704-T82-8-9
T87	CT	SP-59704-T87-8-0
	CT+IO	SP-59704-T87-8-9

Consult us for quotation for others model.

Electrical network protection

Sepam accessories

Accessories

Description	Reference
DSM303 Remote Advanced UMI	59608
CSH30 Secondary circuit torroid CT, 30mmID	59634
CSH120 Primary circuit torroid CT, 120mmID	59635
CSH200 Primary circuit torroid CT, 200mmID	59636
MET148-2 Temperature sensor module (8 channels)	59641
ACE949-2 Modbus communication module 2 wire	59642
ACE959 Modbus communication module 4 wire	59643
ACE937 Modbus fibre optic module	59644
ACE969TP-2 RS485 Multiprotocol Interface	59723
ACE969FO-2 Fibre Optic Multiprotocol Interface	59724
MES114 I/O module, 10I / 4O, 24-250Vdc (for Series 20 & 40 only)	59646
MSA141 Analogue output module (1 channel)	59647
MES114E I/O module, 10I / 4O, 110-125Vdc, 110Vac (for Series 20 & 40 only)	59651
MES114F I/O module, 10I / 4O, 220-250Vdc, 220-240Vac (for Series 20 & 40 only)	59652
MCS025 Synchro check module	59712
MES120 I/O module, 14I / 6O, 24-250Vdc (for Series 80 only)	59715
CCA770 Remote module cord L=0.6m	59660
CCA772 Remote module cord L=2m	59661
CCA774 Remote module cord L=4m	59662
CCA612 Cable between Sepam and Communication module	59663
CCA783 connection cord to PC for SFT2841	59664
CCA785 Connection cord for synch module	59665
AMT840 Mounting plate	59670
SFT2841 Expert UMI software	59679

Electrical network protection

MiCOM P111 Enh

MiCOM P111 Enh



MiCOM P111 Enh is an enhanced version of our renowned MiCOM P111 relay. It represents a perfect ratio of price vs. functionality over-current and earth-fault protection relay for essential protection functions. Providing features for easy adaptation to different application and operation conditions, the P111Enh can be applied to medium and low voltage electrical systems as an optimized solution tailored to user's needs.

Model L: protects against overcurrent and earth faults

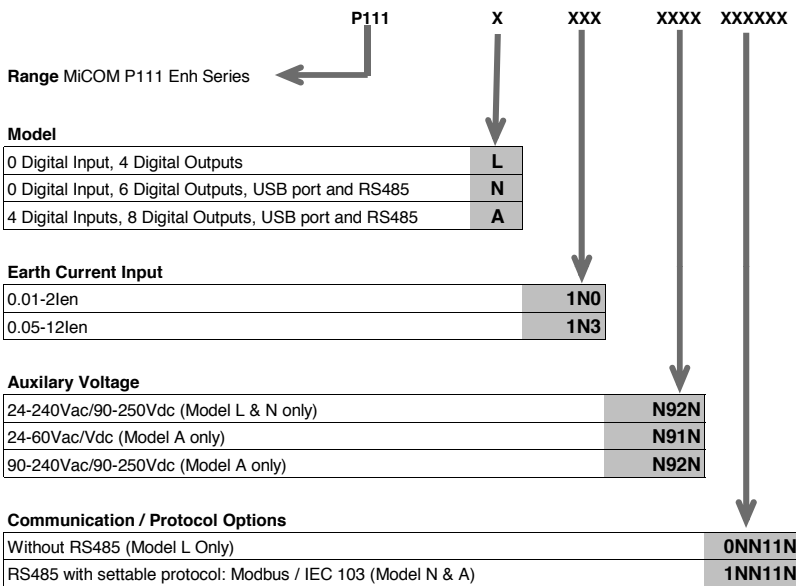
Model N: protects against overcurrent and earth faults. In addition, it has RMS thermal overload protection. Settings can also be made via S1 software and loaded into the relay via USB port.

Model A: In addition to the features of Model N, it has Switch on to fault protection, Blocked Overcurrent Logic, 4 timers (AUX) and Time Synchronisation via Binary Input

Features:

- Freely configurable binary inputs / outputs: 0 / 4 (Model L), 0 / 6 (Model N), 4 / 8 (Model A)
- Auxiliary voltage supply: Choice of 24-240Vac / 24-250Vdc (Model L, N), 24-60Vac/dc or 90-240Vac / 90-250Vdc (Model A)
- Sensitivity of phase overcurrent protection: 0.1 - 40 I_n
- Sensitivity of earth-fault protection: Choice of 0.01 - 2 I_{en} or 0.05-12 I_{en}
- Nominal phase current & earth fault nominal current: I_{on} = 1A / 5A
- Communications: RS485 with settable protocol (Model N & A)
- 8 Signalling LEDs ("Healthy" + "Trip" + "Alarm" + 5 freely configurable LEDs)
- Self-monitoring feature with watchdog contact WD
- Fault records for the 20 most recent trips
- Settings made easy via S1 software and loaded to relay via USB port (Model N & A)

A MiCOM P111 Enh catalogue number comprises different elements:



MiCOM P111 Enh	Reference
Model L: e/f: 0.01-2I _{en} ; 24-240Vac/24-250Vdc; without RS485 & USB (P111L1N0N92N0NN11N)	REL10000
Model L: e/f: 0.05-12I _{en} ; 24-240Vac/24-250Vdc; without RS485 & USB (P111L1N3N92N0NN11N)	REL10001
Model N: e/f: 0.01-2I _{en} ; 24-240Vac/24-250Vdc; with RS485 & USB (P111N1N0N92N1NN11N)	REL10020
Model N: e/f: 0.05-12I _{en} ; 24-240Vac/24-250Vdc; with RS485 & USB (P111N1N3N92N1NN11N)	REL10021
Model A: e/f: 0.01-2I _{en} ; 24-60Vac/Vdc; with RS485 & USB (P111A1N0N91N1NN11N)	REL10010
Model A: e/f: 0.01-2I _{en} ; 90-240Vac/90-250Vdc; with RS485 & USB (P111A1N0N92N1NN11N)	REL10011
Model A: e/f: 0.05-12I _{en} ; 24-60Vac/Vdc; with RS485 & USB (P111A1N3N91N1NN11N)	REL10012
Model A: e/f: 0.05-12I _{en} ; 90-240Vac/90-250Vdc; with RS485 & USB (P111A1N3N92N1NN11N)	REL10013

H

Low Voltage Capacitors and Power Factor controllers

VarplusCan

SDuty and HDuty

11

VarplusCan SDuty and HDuty

Capacitor, Detuned Reactor and Contactor

12

Varlogic series

NR6/NR12, NRC12

13

VarplusCan SDuty and HDuty

IEC/EN 60831-1/-2



Characteristics

Voltage range	SDuty	230 to 525 V
	HDuty	230 to 830 V
Frequency		50 Hz

SDuty

Rated Voltage (Rated Output) 50 Hz

400 V (kVAr)	440 V (kVAr)	Reference	No. of unit
2.5	3.0	BLRCS030A036B44	1
7.5	9.1	BLRCS100A120B44	1
12.5	15.1	BLRCS150A180B44	1
15	18.2	BLRCS182A218B44	1
20	24.2	BLRCS250A300B44	1
25	30.3	BLRCS303A364B44	1
50	60.5	BLRCS303A364B44	2
100	121.0	BLRCS303A364B44	4

HDuty

Rated Voltage (Rated Output) 50 Hz

400 V (kVAr)	440 V (kVAr)	Reference	No. of unit
12.5	15.1	BLRCH150A180B44	1
15	18.2	BLRCH182A218B44	1
20	24.2	BLRCH250A300B44	1
25	30.3	BLRCH303A000B44	1
50	60.5	BLRCH303A000B44	2
100	121.0	BLRCH303A000B44	4

VarplusCan SDuty and HDuty + Detuned Reactor + Contactor



Characteristics

Capacitor Rated Voltage Un(V)	Network Service Voltage U_s(V)
	50 Hz
	400

The tuning frequency can be expressed by the relative impedance of the reactor (in %), or by the tuning order, or directly in Hz.

Relative impedance (%)	Tuning order @ 50 Hz (Hz)	Tuning frequency
7	3.8	190
14	2.7	135

The most common values of relative impedance are 5.7, 7 and 14%. (14% is used with high level of 3rd harmonic voltages).

SDuty (7%)

Rated Voltage (Rated Output) 50 Hz

400 V (kVAr)	480 V (kVAr)	Capacitor Reference	No. of units	Detuned Reactor Reference	Contactors ⁽¹⁾ Reference
12.5	16.7	BLRCS170A204B48	1	52352	LC1DFK11M7
25	33.5	BLRCS339A407B48	1	52353	LC1DMK11M7
50	67.0	BLRCS339A407B48	2	52354	LC1DWK12M7
100	133.9	BLRCS339A407B48	4	51569	

HDuty (7%) (Non-linear load ≤ 50%)

Rated Voltage (Rated Output) 50 Hz

400 V (kVAr)	480 V (kVAr)	Capacitor Reference	No. of units	Detuned Reactor Reference	Contactors ⁽¹⁾ Reference
12.5	16.7	BLRCH170A204B48	1	52352	LC1DFK11M7
25	33.5	BLRCH339A407B48	1	52353	LC1DMK11M7
50	67.0	BLRCH339A407B48	2	52354	LC1DWK12M7
100	133.9	BLRCH339A407B48	4	0 51569	

SDuty (14%)

Rated Voltage (Rated Output) 50 Hz

400 V (kVAr)	480 V (kVAr)	Capacitor Reference	No. of units	Detuned Reactor Reference	Contactors ⁽¹⁾ Reference
12.5	15.5	BLRCS155A186B48	1	51564	LC1DFK11M7
25	31.0	BLRCS315A378B48	1	51565	LC1DLK11M7
50	61.9	BLRCS315A378B48	2	51566	LC1DTK12M7
100	123.8	BLRCS315A378B48	4	51567	

HDuty (14%)

Rated Voltage (Rated Output) 50 Hz

400 V (kVAr)	480 V (kVAr)	Capacitor Reference	No. of units	Detuned Reactor Reference	Contactors ⁽¹⁾ Reference
12.5	15.5	BLRCH155A186B48	1	51564	LC1DFK11M7
25	31.0	BLRCH315A378B48	1	51565	LC1DLK11M7
50	61.9	BLRCH315A378B48	2	51566	LC1DTK12M7
100	123.8	BLRCH315A378B48	4	51567	

(1) Discount Code for contactors is 20

Varlogic series

NR6/NR12, NRC12



Varlogic NR6/12



Varlogic NRC12

Characteristics

Output relays	NR - 6/12	NRC12
AC	2 A / 250 V	1 A / 400 V
DC	0.6 A / 60 V	2 A / 24 V

Type	Number of step output contacts	Reference
NR6	6	52448
NR12	12	52449
NRC12	12	52450

Accessories	Reference
Communication RS485 Modbus set for NRC12	52451
Temperature external probe for NRC12 type in addition to internal probe allows measurement at the hottest point inside the capacitor bank	52452

Features	NR - 6/12	NRC12
Display		
65 x 21 mm backlit screen	■	-
55 x 28 mm backlit screen	-	■
Alarm contact	-	■
Internal temperature probe	-	■
Separate fan relay contact	■	■
Type of connection		
Phase-to-neutral	■	■
Phase-to-phase	■	■
Current input		
CT 25/5 A ... 6000/5 A	■	■
CT 25/1 A ... 6000/5 A	-	■

Soft starters; variable speed controllers and servo drive & motor combinations

Soft start-soft stop units

Altistart 01
ATS01 for asynchronous motors 1-1

Altistart 22
ATS22 for three phase power supply 1-2
ATS22 accessories 1-4

Altistart 48
ATS48 for standard application 1-6
ATS48 accessories 1-8

Variable speed controllers

Altivar 12
ATV12 with heatsink/ on base plate 1-9
Accessories, configuration tools and braking unit 1-10
Braking resistors and EMC input filters 1-11

Altivar 212
ATV212 for asynchronous motors 1-12
ATV212 accessories 1-14

Altivar 312
ATV312 for frequency range from 0.5 to 500Hz 1-15
ATV312 drive without Input/Output card 1-16
ATV312 accessories 1-17

Altivar 32
ATV32 for Drives for Supply voltage 200...500V 50/60 Hz 1-23

Altivar 61
ATV61 for IP20 for supply voltage 380...480V 50/60Hz 1-24
ATV61 for IP54 with an integrated class A EMC filter 1-25
ATV61 accessories 1-26
ATV61/71 accessories 1-29

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ATV71 for supply voltage 380...480V 50/60 Hz 1-28
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PowerSuite software workshop

PowerSuite software workshop 1-36

Servo drive and motor combinations

LXM23 Servo drive and BCH Servo motor combinations 1-37

Altistart 01

soft start - soft stop units

for asynchronous motors

Soft starter for 0.37 to 5.5 kW motor



Motor power (1)					Starter	Reference
3 phase			1 phase			
210V	230V	400V	460V	230V	Nominal current	
HP	kW/HP	kW	HP	kW	A	
Single phase 110...230V or 3-phase 200...480V supply voltage, 50/60Hz						
-	0.37/0.5 0.55/-	1.1	0.5 1.5	0.37	3	ATS01N103FT
0.5	0.75/1 1.1/1.5	2.2 3	2 3	0.75	6	ATS01N106FT
1	1.5/2	4	5	1.1	9	ATS01N109FT
1.5	2.2/3	5.5	7.5	1.5	12	ATS01N112FT
2	3/5	7.5	10	2.2	25	ATS01N125FT
3	4/7.5 5.5/-	9 11	15			

Soft start/soft stop unit for 0.75 to 15 kW motor



Motor power (1) 3 phase				Starter	Reference
230V	230V	400V	460V		
HP	kW/HP	kW	HP	Nominal current	
3-phase 380...415V supply voltage, 50/60Hz (2)					
0.75/1.1	1/1.5	1.5/2.2	2/3	6	ATS01N206QN
1.5	2	3/4	5/-	9	ATS01N209QN
2.2/3	3/-	5.5/-	7.5/-	12	ATS01N212QN

Accessories

Description	Used for starter	Reference
Adaptor for mounting on DZ5 MB rail	ATS01N103FT, ATS01N106FT	RHZ66
Auxiliary contact, provides information that the motor is at full voltage	ATS01N2xxLY, ATS01N2xxQ	LAD8N11

(1) Standard power ratings of motors, HP power ratings indicated according to standard UL508

(2) For others voltage, replace suffix QN by: "LU" for 200 to 240V / "RT" for 440 to 480V.

(3) Discount code 2A

(4) Discount code 20

Connection to the motor's power supply line

Motor power given in kW in accordance with standard IEC/EN 60947-4-2. 220 V control power supply



ATS 22D17Q



ATS 22C11Q

Motor			230...440 V - 50/60 Hz soft start - soft stop unit			Reference
Power indicated on rating plate			Nominal current (I _n)	Factory setting for current (I _{cL})	Dissipated power at normal current (I _n) (3)	
230V	400V	440V	(1)	(1)/(2)		
kW	kW	kW	A	A	W	
4	7.5	7.5	14.8	17	39	ATS22D17Q
7.5	15	15	28.5	32	44	ATS22D32Q
11	22	22	42	47	48	ATS22D47Q
15	30	30	57	62	59	ATS22D62Q
18.5	37	37	69	75	63	ATS22D75Q
22	45	45	81	88	66	ATS22D88Q
30	55	55	100	110	73	ATS22C11Q
37	75	75	131	140	82	ATS22C14Q
45	90	90	162	170	91	ATS22C17Q
55	110	110	195	210	117	ATS22C21Q
75	132	132	233	250	129	ATS22C25Q
90	160	160	285	320	150	ATS22C32Q
110	220	220	388	410	177	ATS22C41Q
132	250	250	437	480	218	ATS22C48Q
160	315	355	560	590	251	ATS22C59Q

(1) I_n refers to the maximum continuous current for class 10. I_{cL} refers to the starter rating.

(2) The factory setting for the current equates to the nominal current of a standard 4-pole, 400 V, class 10 motor (standard application). It should be adjusted in line with the current indicated on the motor rating plate.

(3) Includes the power dissipated by the fan

Altistart 22

soft start - soft stop units

Three-phase power supply voltage 208...600 V

Connection to the motor's power supply line

Motor power given in kW in accordance with standard IEC/EN 60947-4-2. 220 V control power supply

Motor				230...600 V - 50/60 Hz soft start - soft stop unit			Reference
Power indicated on rating plate				Nominal current (In)	Factory setting for current (IcL)	Dissipated power at normal current (In) (3)	
230V	400V	440V	500V	(1)	(1)(2)		
kW	kW	kW	kW	A	A	W	
4	7.5	7.5	9	14	17	39	ATS22D17S6
7.5	15	15	18.5	27	32	44	ATS22D32S6
11	22	22	30	40	47	48	ATS22D47S6
15	30	30	37	52	62	59	ATS22D62S6
18.5	37	37	45	65	75	63	ATS22D75S6
22	45	45	55	77	88	66	ATS22D88S6
30	55	55	75	96	110	73	ATS22C11S6
37	75	75	90	124	140	82	ATS22C14S6
45	90	90	110	156	170	91	ATS22C17S6
55	110	110	132	180	210	117	ATS22C21S6
75	132	132	160	240	250	129	ATS22C25S6
90	160	160	220	302	320	150	ATS22C32S6
110	220	220	250	361	410	177	ATS22C41S6
132	250	250	315	414	480	218	ATS22C48S6
160	315	355	400	477	590	251	ATS22C59S6

(1) In refers to the maximum continuous current for class 10. IcL refers to the starter rating.

(2) The factory setting for the current should be adjusted in line with the current indicated on the motor rating plate.

(3) Includes the power dissipated by the fan



ATS 22C21S6



ATS 22C48S6U

Altistart 22

soft start - soft stop units

Remote display terminal and Modbus serial link

Remote display terminal

This terminal enables the human machine interface of the Altistart 22 soft start - soft stop unit to be positioned remotely on the door of a floor-standing enclosure. It has IP 54 or IP 65 degree of protection depending on the model

It is used to:

- Set and configure the soft start - soft stop unit remotely
- Display the status and faults of the soft start - soft stop unit remotely

Its maximum operating temperature is 50°C. Please refer to our website at "www.schneider-electric.com" if the temperature exceeds this.



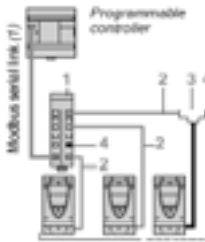
VW3G22101

1. 4-digit display
2. Selection/validation key ENT: opens a menu or validates the value chosen
3. Navigation keys ,
4. Selection key ESC: used to exit a menu

Description	Degree of protection	Length m	Dimensions WxDxH m	Reference
Remote display terminals	IP54/NEMA12	–	50x15x70	VW3G22101
A remote-mounting cordset is also required - VW3 A1104R	IP65	–	66x19x106	VW3G22102
Remote-mounting cordsets equipped with 2 RJ45 connectors	–	1	–	VW3A1104R10
	–	3	–	VW3A1104R30

Modbus serial link

Connection via splitter box and RJ45 connectors



Example of a connection using a Modbus serial link via a splitter box with RJ45 connectors

Description	Number	Length m	Reference
Modbus splitter box with 10 RJ45 connectors	1	–	LU9GC3
Cordsets for Modbus serial link with 2 RJ45 connectors	2	0.3	VW3A8306R03
		1	VW3A8306R10
		3	VW3A8306R30
Modbus T-junction boxes (with integrated cable)	3	0.3	VW3A8306TF03
		1	VW3A8306TF10
Line terminators (1) (2)	4	R = 120 Ω	VW3A8306RC
		C = 1 nf	VW3A8306R
	4	R = 120 Ω	VW3A8306R

(1) Sold in lots of 2

(2) Depends on the bus architecture

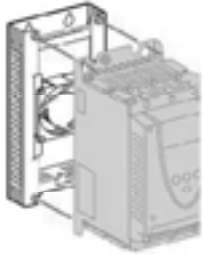
(3) Discount code 20

Altistart 22

soft start-soft stop units

Fans and accessories

Fans



VW3 G22 40*

The ATS 22C21Q...C59Q, ATS 22C21S6...C59S6 and ATS 22C21S6U...C59S6U soft start - soft stop units come with an integrated fan.

The ATS 22D17Q...C17Q, ATS 22D17S6...C17QS6 and ATS 22D17S6U...C17S6U soft start - soft stop units are ventilated by means of natural convection.

For more demanding applications, such as those with a greater number of starts, the Altistart 22 range offers fans as an option. These are driven by the soft start - soft stop unit and attached to the back of the device.

The fan's noise level is less than 60 dBA.

Power supply voltage for control	For soft start - soft stop unit	Dimensions W x D x H	Reference
220	ATS22D17Q...D47Q, ATS22D17S6...D47S6	130x40x265	VW3G22400
	ATS22D62Q...D88Q, ATS22D62S6...D88S6	145x40x295	VW3G22401
	ATS22C11Q...C17Q, ATS22C11S6...C17S6	150x40x350	VW3G22402
	ATS22D17S6U...D47S6U	130x40x265	VW3G22U400
110	ATS22D62S6U...D88S6U	145x40x295	VW3G22U401
	ATS22C11S6U...C17S6U	150x40x350	VW3G22U402

Protection shrouds for power terminals (to be used with eyelet connections)

The ATS 22C11Q...C59Q, ATS 22C11S6...C59S6 and ATS 22C11S6U...C59S6U soft start - soft stop units have 6 unprotected power terminals. These terminals can be fitted with protection shrouds.



LA9 F70*

Description	For soft start - soft stop units	Reference
Set of 6 power terminal protection shrouds	ATS 22C11Q...C17Q, ATS 22C11S6...C17S6, ATS 22C11S6U...C17S6U	LA9F702
	ATS 22C21Q...C59Q, ATS 22C21S6...C59S6, ATS 22C21S6U...C59S6U	LA9F703

(1) Discount code 20

Altistart 48

soft start - soft stop units

Line voltage 230 to 415V

Connection in the motor supply line

For standard applications

Motor		Starter 230/415V - 50/60Hz			Reference
Motor power (1)		Nominal current (IcL) (2)	Factory setting current (3)	Power dissipated at nominal load	
415V	230V				
kW	kW	A	A	W	
7.5	4	17	14.8	59	ATS48D17Q
11	5.5	22	21	74	ATS48D22Q
15	7.5	32	28.5	104	ATS48D32Q
18.5	9	38	35	116	ATS48D38Q
22	11	47	42	142	ATS48D47Q
30	15	62	57	201	ATS48D62Q
37	18.5	75	69	245	ATS48D75Q
45	22	88	81	290	ATS48D88Q
55	30	110	100	322	ATS48C11Q
75	37	140	131	391	ATS48C14Q
90	45	170	162	479	ATS48C17Q
110	55	210	195	580	ATS48C21Q
132	75	250	233	695	ATS48C25Q
160	90	320	285	902	ATS48C32Q
220	110	410	388	1339	ATS48C41Q
250	132	480	437	1386	ATS48C48Q
315	160	590	560	1731	ATS48C59Q
355	-	660	605	1958	ATS48C66Q
400	220	790	675	2537	ATS48C79Q
500	250	1000	855	2865	ATS48M10Q
630	355	1200	1045	3497	ATS48M12Q

(1) Value indicated on the motor rating plate.

(2) Corresponds to the maximum permanent current in class 10. IcL corresponds to the starter rating.

(3) The factory setting current corresponds to the value of the nominal current of a standard 4-pole, 400V, class 10 motor (standard application). Adjust the setting in accordance with the motor nominal current.



ATS 48D17Q



ATS 48C14Q



ATS 48M12Q

Altistart 48

soft start - soft stop units

Line voltage 208 to 690V

Motor power in kW

1

For standard applications



Motor						Starter 208/690V - 50/60Hz			Reference
Motor power (1)						Nominal current (lCL) (2)	Factory setting current (3)	Power dissipated at nominal load	
230V	440V	500V	525V	660V	690V	A	A	W	
kW	kW	kW	kW	kW	kW				
4	7.5	9	9	11	15	17	14	59	ATS48D17Y
5.5	11	11	11	15	18.5	22	21	74	ATS48D22Y
7.5	15	18.5	18.5	22	22	32	27	104	ATS48D32Y
9	18.5	22	22	30	30	38	34	116	ATS48D38Y
11	22	30	30	37	37	47	40	142	ATS48D47Y
15	30	37	37	45	45	62	52	201	ATS48D62Y
18.5	37	45	45	55	55	75	65	245	ATS48D75Y
22	45	55	55	75	75	88	77	290	ATS48D88Y
30	55	75	75	90	90	110	96	322	ATS48C11Y
37	75	90	90	110	110	140	124	391	ATS48C14Y
45	90	110	110	132	160	170	156	479	ATS48C17Y
55	110	132	132	160	200	210	180	580	ATS48C21Y
75	132	160	160	220	250	250	240	695	ATS48C25Y
90	160	220	220	250	315	320	302	902	ATS48C32Y
110	220	250	250	355	400	410	361	1339	ATS48C41Y
132	250	315	315	400	500	480	414	1386	ATS48C48Y
160	355	400	400	560	560	590	477	1731	ATS48C59Y
-	400	-	-	630	630	660	590	1958	ATS48C66Y
220	500	500	500	710	710	790	720	2537	ATS48C79Y
250	630	630	630	900	900	1000	954	2865	ATS48M10Y
355	710	800	800	-	-	1200	1170	3497	ATS48M12Y

(1) Value indicated on the motor rating plate.

(2) Corresponds to the maximum permanent current in class 10. lCL corresponds to the starter rating.

(3) The factory setting current corresponds to the value of the nominal current of a standard motor according to NEC, 460V class 10 (standard application). Adjust the setting in accordance with the motor nominal current.

Altistart 48

soft start - soft stop units

Accessories

Communication modules



LUF P1

Communication modules	To be connected using cable	Reference (2)
FIPIO/ Modbus gateway	VW3A8306R●●	LUFP1
DeviceNet/ Modbus gateway	VW3A8306R●●	LUFP9
Profibus DP/ Modbus gateway	ABC configurator programme	VW3A8306R●●
		LUFP7

Remote terminal



VW3G48101

Description	Reference
Remote terminal	VW3G48101

Line chokes

For starters	Value of the choke	Nominal current (A)	Degree of protection	Reference
ATS48D17●	1.7	15	IP20	VZ1L015UM17T
ATS48D22●	0.8	30	IP20	VZ1L030U800T
ATS48D32● and 48D38●	0.6	40	IP20	VZ1L040U600T
ATS48D47● and 48D62●	0.35	70	IP20	VZ1L070U350T
ATS48D75● to 48C14●	0.17	150	IP00	VZ1L150U170T
ATS48C17● to 48C25●	0.1	250	IP00	VZ1L250U100T
ATS48C32●	0.075	325	IP00	VZ1L325U075T
ATS48C41● and 48C48●	0.045	530	IP00	VZ1L530U045T
ATS48C59● to 48M10●	0.024	1025	IP00	VZ1LM10U024T
ATS48M12●	0.016	1435	IP00	VZ1LM14U016T

Note: Line choke with IP00 degree of protection must be fitted with a protective bar to protect personnel against electrical contact.

Protective covers for power terminals



LA9 F702

To be used with tags closed		
For starters	Number of covers per set	Reference
ATS48C14● and 48C17●	6 (1)	LA9F702
ATS48C21●, ATS48C25● and ATS48C32●	6 (1)	LA9F703

PowerSuite software workshop for PC and pocket PC

Setup software and PC connection kit

See page 1-36

(1) The starters have 9 unprotected power terminals.

(2) Discount code 20

Drives with heatsink



ATV 12H018M2



ATV 12HU40M3

Motor Power indicated on plate (1)	Line Max. line current (2)	Altivar 12		Power dissipated at max. output current (In) (1)	Reference
		Continuous output current (1)	Max. Transient current		
kW	A	A	A	W	
Single-phase supply voltage 100...120V 50/60Hz (3)					
0.18	6	1.4	2.1	18	(4) ATV12H018F1
0.37	11.4	2.4	3.6	29	ATV12H037F1
0.75	18.9	4	6	48	ATV12H075F1
Single-phase supply voltage 200...240V 50/60Hz (3) (5)					
0.18	3.4	1.4	2.1	18	(4) ATV12H018M2
0.37	5.9	2.4	3.6	27	ATV12H037M2
0.55	8	3.5	5.3	34	ATV12H055M2
0.75	10.2	4.2	6.3	44	ATV12H075M2
1.5	17.8	7.5	11.2	72	ATV12HU15M2
2.2	24	10	15	93	ATV12HU22M2
3-phase supply voltage 200...240V 50/60Hz (3)					
0.18	2	1.4	2.1	16	(4) ATV12H018M3
0.37	3.6	2.4	3.6	24	ATV12H037M3
0.75	6.3	4.2	6.3	41	ATV12H075M3
1.5	11.1	7.5	11.2	73	ATV12HU15M3
2.2	14.9	10	15	85	ATV12HU22M3
3	19	12.2	18.3	94	ATV12HU30M3
4	23.8	16.7	25	128	ATV12HU40M3

Drive on base plate



ATV 12PU22M3

Single-phase supply voltage 100...120V 50/60Hz (3)					
0.18	6	1.4	2.1	18	(4) ATV12H018F1
-	11.4	2.4	3.6	29	(6) ATV12P037F1
Single-phase supply voltage 200...240V 50/60Hz (3) (5)					
0.18	3.4	1.4	2.1	18	(4) ATV12H018M2
-	5.9	2.4	3.6	27	(6) ATV12P037M2
-	8	3.5	5.3	34	(6) ATV12P055M2
-	10.2	4.2	6.3	44	(6) ATV12P075M2
3-phase supply voltage 200...240V 50/60Hz (3)					
0.18	2	1.4	2.1	16	(4) ATV12H018M3
-	3.6	2.4	3.6	24	(6) ATV12P037M3
-	6.3	4.2	6.3	41	(6) ATV12P075M3
-	11.1	7.5	11.2	73	(6) ATV12PU15M3
-	14.9	10	15	85	(6) ATV12PU22M3
-	19	12.2	18.3	94	(6) ATV12PU30M3
-	23.8	16.7	25	128	(6) ATV12PU40M3

(1) These values are given for a nominal switching frequency of 4 kHz, for use in continuous operation.

If operation above 4 kHz needs to be continuous, the nominal drive current should be derated by 10% for 8 kHz, 20% for 12 kHz and 30% for 16 kHz.

The switching frequency can be set between 2 and 16 kHz for all ratings.

Above 4 kHz, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise.

See the derating curves in the User Manual, available on our website at "www.schneider-electric.com".

(2) Typical value for the indicated motor power and for the maximum prospective line Isc.

(3) Min. (U1) and max. (U2) nominal supply voltage: 100 (U1)...120 V (U2), 200 (U1)...240 V (U2).

(4) Due to the poor heat dissipation, the ATV 12H018●● drive is only supplied as a base plate version.

(5) Drive supplied with category C1 integrated EMC filter. This filter can be disconnected.




(6) To size the ATV 12P●●●● drive correctly, see the specific manual for the Altivar 12 base plate version, available on our website at "www.schneider-electric.com".

Altivar 12



Variable speed drives

Accessories, configuration tools and braking unit

Accessories

	Description	For Drives	Reference
 VW3 A9 804	Mounting plates for mounting on 35 mm wide DIN rail	ATV12H018F1,H037F1	VW3A9804
		ATV12H18M2...H075M2 ATV12H018M3...H075M3	
 VW3 A9 523	EMC conformity kits These provide a connection compliant with EMC standards The kit consists of: The EMC plate Clamps Fixing accessories	ATV12H075F1	VW3A9805
		ATV12HU15M2, HU22M2 ATV12HU15M3, HU22M3	
 VW3 A9 524		ATV12H018F1,H037F1	VW3A9523
		ATV12H18M2...H075M2 ATV12H018M3...H075M3 ATV12P037F1 ATV12P037M2 P075M2 ATV12P018M3 P075M3	
		ATV12H075F1	VW3A9524
		ATV12HU15M2, HU22M2 ATV12HU15M3, HU22M3 ATV12PU15M3, PU22M3	
		ATV12HU30M3, HU40M3	VW3A9525
		ATV12PU30M3, PU40M3	
	+15 V/+24 V voltage converter	ATV12●●●●●●	VW3A9317
	Connects directly to the control terminals		

Configuration tools

Multi-Loader configuration tools and associated cable			
 Configuring the drive in its packaging with the Multi-Loader tool VW3 AB 121+ cordset VW3 AB 126	Multi Loader tool For copying a configuration on PC or drive and duplicating it on another drive. The drives do not need to be powered-up Supplied with the tool: 1 cordset equipped with 2RJ45 connectors 1 cordset equipped with USB type A connector and a USB Mini-B type connector 1 x 2 GB SD memory card 1 female/female RJ45 adaptor 4AA /LR6 1.5V batteries	ATV12●●●●●●	VW3A8121
	Cordset for Multi Loader tool For connecting the Multi-Loader tool to the Altivar12 drive in its packaging. Equipped with a non-locking RJ45 connector with special mechanical catch on the drive end and an RJ45 connector on the Multi-Loader end.	ATV12●●●●●●	VW3A8126
Remote display terminals and associated cordsets			
 VW3 A1 006 with cover open: RUN, FWD/REV and STOP buttons accessible	Remote display terminals For mounting the Human-Machine interface on an enclosure door with IP54 or IP65 degree of protection A remote-mounting cordset VW3A1104 R●● is also required.	IP54 ATV12●●●●●●	VW3A1006
		IP65 ATV12●●●●●●	VW3A1007

Braking unit

Description	For Drives	Reference
Resistance braking unit To be connected to the DC bus Needs at least one braking resistor For mounting on a 35mm AM1ED DIN rail, to be ordered separately	ATV12●●●●●F1 ATV12●●●●●M2 ATV12H018M3...HU22M3 ATV12P037M3...PU22M3	VW3A7005

Altivar 12

Variable speed drives

Braking resistors and EMC input filters

Braking resistors

Description	Ohmic	Average power	For Drives	Reference
	value at 20°C	available at 40°C		
	Ω	W		
Braking resistors Unprotected (IP 00) If a resistor other than those specified is being used, add a thermal protection device.	100	32	ATV12●●●●F1 ATV12H018M2...HU15M2 ATV12H018M3...HU15M3 ATV12P037M2 ...P075M2 ATV12P037M3... PU15M3	VW3A7723
	68	32	ATV12HU22M2 ATV12HU22M3 ATV12PU22M3	VW3A7724

Additional EMC input filters

Description	For Drives	Reference
Additional EMC input filters For compliance with the requirements of standard . IEC/EN 61 800-3, category C1, C2 or C3, in Environment 1 (public network) or 2 (industrial network), depending on the drive rating. See catalogue for details	ATV 12H018F1...H037F1 ATV 12H018M2...H075M2 ATV 12P037F1 ATV 12P037M2...P075M2	VW3A4416
	ATV 12H075F1 ATV 12HU15M2, HU22M2 ATV 12PU15M2, PU22M2	VW3A4417
	ATV 12H018M3...H075M3 ATV 12P037M3... P075M3	VW3A4418
	ATV 12HU15M3, HU22M3 ATV 12PU15M3, PU22M3	VW3A4419

Altivar 212

Variable speed drives

IP 21 drives

IP 21 drives (frequency range from 0.5 to 200 Hz)

Motor Power indicated on rating plate	Line supply				Altivar 212				THDI (3)	Reference
	Line current (1)		Apparent power 240V	Maximum prospective line Isc	Max. continuous output current (2) 230V	Max. transient current for 60 s				
	200V	240V								
Three-phase supply voltage: 200...240 V 50/60 Hz, without EMC filter (4)										
0.75	1	3.3	2.7	1.1	5	4.6	5.1	31.3	ATV212H075M3X	
1.5	2	6.1	5.1	2.1	5	7.5	.3	31.6	ATV212HU15M3X	
2.2	3	.7	7.3	3	5	10.6	11.7	30.7	ATV212HU22M3X	
3	–	–	10	4.2	5	13.7	15.1	32.4	ATV212HU30M3X	
4	5	14.6	13	5.4	5	1.7	19.3	31.1	ATV212HU40M3X	
5.5	7.5	20.	17.3	7.2	22	24.2	26.6	30.7	ATV212HU55M3X	
7.5	10	27.9	23.3	9.7	22	32	35.2	30.	ATV212HU75M3X	
11	15	42.1	34.4	14.3	22	46.2	50.	35.5	ATV212HD11M3X	
15	20	56.1	45.5	1.9	22	61	67.1	33.3	ATV212HD15M3X	
18.5	25	67.3	55.	23.2	22	74.	2.3	32	ATV212HD18M3X	
22	30	0.4	66.4	27.6	22		96.	35	ATV212HD22M3X	
30	40	113.3	9.5	37.2	22	117	12.7	32.1	ATV212HD30M3X	
Three-phase supply voltage: 380...480 V 50/60 Hz, with integrated category C2 or C3 EMC filter (4)										
0.75	1	1.7	1.4	1.1	5	2.2	2.4	32.8	ATV212H075N4	
1.5	2	3.2	2.5	2.1	5	3.7	4	30.9	ATV212HU15N4	
2.2	3	4.6	3.6	3	5	5.1	5.6	30.5	ATV212HU22N4	
3	–	6.2	4.9	4.1	5	7.2	7.9	31.2	ATV212HU30N4	
4	5	.1	6.4	5.3	5	9.1	10	30.6	ATV212HU40N4	
5.5	7.5	10.9	.6	7.2	22	12	13.2	30.5	ATV212HU55N4	
7.5	10	14.7	11.7	9.7	22	16	17.6	30.9	ATV212HU75N4	
11	15	21.1	16.	13.9	22	22.5	24.	30.4	ATV212HD11N4	
15	20	2.5	22.	1.7	22	30.5	33.6	30.9	ATV212HD15N4	
1.5	25	34.	27.	22.9	22	37	40.7	30.5	ATV212HD18N4	
22	30	41.6	33.1	27.3	22	43.5	47.9	30.7	ATV212HD22N4	
30	40	56.7	44.7	37.3	22	5.5	64.4	30	ATV212HD30N4	
37	50	6.9	54.4	45.3	22	79	6.9	30.3	ATV212HD37N4	
45	60	3.	65.9	55.2	22	94	103.4	30.2	ATV212HD45N4	
55	75	102.7	9	67.6	22	116	127.6	32.7	ATV212HD55N4	
75	100	141.	111.3	93.3	22	160	176	31.1	ATV212HD75N4	

(1) Typical value for the indicated motor power and for the maximum prospective line Isc.

(2) These values are given for a nominal switching frequency of 12 kHz up to ATV 212HD15M3X and up to ATV 212HD15N4 or 8 kHz for ATV 21HD18M3X...HD30M3X and ATV 212HD18N4...HD75N4, for use in continuous operation. The switching frequency can be set between 6 and 16 kHz for all ratings. Above 8 kHz or 12 kHz, depending on the rating, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current. The nominal motor current must not exceed this derating value. See the derating curves on our website www.schneider-electric.com.

(3) Total current harmonic distortion in accordance with IEC/EN 61000-3-12.

(4) Drives are supplied with an EMC plate, for customer assembly.

Altivar 212

Variable speed drives

UL Type 12/IP 55 drives

UL Type 12/IP 55 drives (frequency range from 0.5 to 200 Hz)

Motor		Line supply				Altivar 212			
Power indicated on rating plate		Line current (1)		Apparent power	Maximum prospective line Isc	Max. continuous output current (2)	Max. transient current for 60 s	THDI (3)	Reference
		380 V	480 V	380 V		380/460V			
kW	HP	A	A	kVA	kA	A	A	%	
Three-phase supply voltage: 380...480 V 50/60 Hz, with integrated category C2 or C3 EMC filter									
0.75	1	1.7	1.4	1.1	5	2.2	2.4	32.8	ATV212W075N4
1.5	2	3.2	2.5	2.1	5	3.7	4	30.9	ATV212WU15N4
2.2	3	4.6	3.6	3	5	5.1	5.6	30.5	ATV212WU22N4
3	–	6.2	4.9	4.1	5	7.2	7.9	31.2	ATV212WU30N4
4	5	.1	6.4	5.3	5	9.1	10	30.6	ATV212WU40N4
5.5	7.5	10.9	.6	7.2	22	12	13.2	30.5	ATV212WU55N4
7.5	10	14.7	11.7	9.7	22	16	17.6	30.9	ATV212WU75N4
11	15	21.2	16.9	14	22	22.5	24.	30.9	ATV212WD11N4
15	20	2.4	22.6	1.7	22	30.5	33.6	30.4	ATV212WD15N4
18.5	25	34.9	27.	23	22	37	40.7	30.5	ATV212WD18N4
22	30	41.6	33.1	27.3	22	43.5	47.9	30.7	ATV212WD22N4
30	40	56.7	44.7	37.3	22	5.5	64.4	30	ATV212WD30N4
37	50	6.9	54.4	45.3	22	79	6.9	30.3	ATV212WD37N4
45	60	3.	65.9	55.2	22	94	103.4	30.2	ATV212WD45N4
55	75	102.7	9	67.6	22	116	127.6	32.7	ATV212WD55N4
75	100	141.	111.3	93.3	22	160	176	31.1	ATV212WD75N4
Three-phase supply voltage: 380...480 V 50/60 Hz, with integrated category C1 filter									
0.75	1	1.7	1.4	1.1	5	2.2	2.4	32.8	ATV212W075N4C
1.5	2	3.2	2.6	2.1	5	3.7	4	30.9	ATV212WU15N4C
2.2	3	4.6	3.7	3	5	5.1	5.6	30.5	ATV212WU22N4C
3	–	6.2	5	4.1	5	7.2	7.9	31.2	ATV212WU30N4C
4	5	.2	6.5	5.4	5	9.1	10	30.6	ATV212WU40N4C
5.5	7.5	11	.7	7.2	22	12	13.2	30.5	ATV212WU55N4C
7.5	10	14.7	11.7	9.7	22	16	17.6	30.9	ATV212WU75N4C
11	15	21.1	16.7	13.9	22	22.5	24.	30.9	ATV212WD11N4C
15	20	2.4	22.	1.7	22	30.5	33.6	30.4	ATV212WD15N4C
1.5	25	34.5	27.6	22.7	22	37	40.7	30.5	ATV212WD18N4C
22	30	41.1	33.1	27.1	22	43.5	47.9	30.7	ATV212WD22N4C
30	40	5.2	44.4	3.3	22	5.5	64.4	30	ATV212WD30N4C
37	50	6.9	54.4	45.3	22	79	6.9	30.3	ATV212WD37N4C
45	60	3.	65.9	55.2	22	94	103.4	30.2	ATV212WD45N4C
55	75	102.7	9	67.6	22	116	127.6	32.7	ATV212WD55N4C
75	100	141.	111.3	93.3	22	160	176	31.1	ATV212WD75N4C

(1) Typical value for the indicated motor power and for the maximum prospective line Isc.

(2) These values are given for a nominal switching frequency of 12 kHz up to ATV 212WD15N4 and up to ATV 212WD15N4C or 8 kHz for ATV 212WD18N4...WD75N4 and ATV 212WD18N4C...WD75N4C, for use in continuous operation.

The switching frequency can be set between 6 and 16 kHz for all ratings. Above 8 kHz or 12 kHz, depending on the rating, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current. The nominal motor current must not exceed this derating value. See the derating curves on our website www.schneider-electric.com.

(3) Total current harmonic distortion in accordance with IEC/EN 61000-3-12.

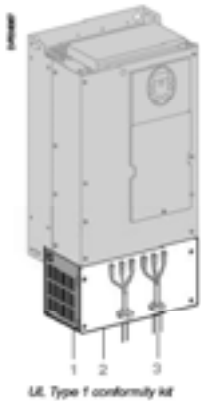


ATV212W075N4



ATV212W022N4
ATV212W022N4C

Kit for UL Type 1 conformity (mounting outside the enclosure)



For drives	Reference
ATV 212H075M3X...HU22M3X	VW3A31814
ATV 212H075N4...HU22N4	
ATV 212HU30M3X, HU40M3X	VW3A31815
ATV 212HU30N4...HU55N4	
ATV 212HU55M3X, HU75M3X	VW3A31816
ATV 212HU75N4, HD11N4	
ATV 212HD11M3X...HD18M3X	VW3A31817
ATV 212HD15N4...HD22N4S	
ATV 212HD22M3X	VW3A9206
ATV 212HD22N4, HD30N4	
ATV 212HD37N4, HD45N4	VW3A9207
ATV 212HD30M3X	VW3A9208
ATV 212HD55N4, HD75N4	

Kit for mounting on DIN rail

For drives	Reference
ATV 212H075M3X...HU22M3X	VW3A31852
ATV 212H075N4...HU22N4	

PCSoft software workshop



Description	Composition	Reference
PC serial port connection kit for point-to-point Modbus connection	<ul style="list-style-type: none"> 1 x 3 m cable with 2 RJ45 connectors 1 RS 232/RS 485 converter with one 9-way female SUB-D connector and 1 RJ45 connector 	VW3A8106

Remote graphic display terminal

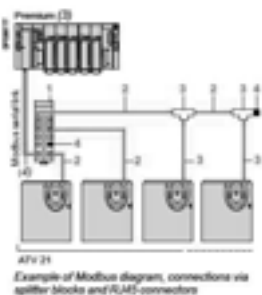
See page 1-18

SoMove Mobile software for mobile phones

See page 1-18

Connection accessories

Other connection accessories for Modbus serial link



Description	Item no.	Length (m)	Reference
Modbus splitter block 10 RJ45 connectors and 1 screw terminal block	1		LU9GC3
Cables for Modbus serial link equipped with 2 RJ45 connectors	2	0.3 1 3	VW3A8306R03 VW3A8306R10 VW3A8306R30
Modbus T-junction boxes (with integrated cable)	3	0.3 1	VW3A8306TF03 VW3A8306TF10
Line terminator For RJ45 connector	4		VW3A8306RC

(1) The Altivar 21 drive can only take one communication card.

(2) Sold in lot of 2.

(3) Discount code 20

Altivar 312

Variable speed drives



Drives (frequency range from 0.5 to 500 Hz)



Motor Power indicated on plate (1)	Line	Altivar 312			Reference
	Max. line current at U1 (2) (3)	Max. Continuous output current (In) (1)	Max. Transient current for 60s	Power dissipated at max. output current (In) (1)	
kW	A	A	A	W	
Single-phase supply voltage: 200...240 V 50/60 Hz, with integrated EMC filter (3) (4)					
0.18	3	1.5	2.3	24	ATV312H018M2
0.37	5.3	3.3	5	41	ATV312H037M2
0.55	6.8	3.7	5.6	46	ATV312H055M2
0.75	8.9	4.8	7.2	60	ATV312H075M2
1.1	12.1	6.9	10.4	74	ATV312HU11M2
1.5	15.8	8	12	90	ATV312HU15M2
2.2	21.9	11	16.5	123	ATV312HU22M2
Three-phase supply voltage: 200...240 V 50/60 Hz, without EMC filter (3) (5)					
0.18	2.1	1.5	2.3	23	ATV312H018M3
0.37	3.8	3.3	5	38	ATV312H037M3
0.55	4.9	3.7	5.6	43	ATV312H055M3
0.75	6.4	4.8	7.2	55	ATV312H075M3
1.1	8.5	6.9	10.4	71	ATV312HU11M3
1.5	11.1	8	12	86	ATV312HU15M3
2.2	14.9	11	16.5	114	ATV312HU22M3
3	19.1	13.7	20.6	146	ATV312HU30M3
4	24.2	17.5	26.3	180	ATV312HU40M3
5.5	36.8	27.5	41.3	292	ATV312HU55M3
7.5	46.8	33	49.5	388	ATV312HU75M3
11	63.5	54	81	477	ATV312HD11M3
15	82.1	66	99	628	ATV312HD15M3
Three-phase supply voltage: 380...500 V 50/60 Hz, with integrated EMC filter (3) (4)					
0.37	2.2	3.3	1.5	32	ATV312H037N4
0.55	2.8	3.7	1.9	37	ATV312H055N4
0.75	3.6	4.8	2.3	41	ATV312H075N4
1.1	4.9	6.9	3	48	ATV312HU11N4
1.5	6.4	8	4.1	61	ATV312HU15N4
2.2	8.9	11	5.5	79	ATV312HU22N4
3	10.9	13.7	7.1	125	ATV312HU30N4
4	13.9	17.5	9.5	150	ATV312HU40N4
5.5	21.9	27.5	14.3	232	ATV312HU55N4
7.5	27.7	33	17	269	ATV312HU75N4
11	37.2	54	27.7	397	ATV312HD11N4
15	48.2	66	33	492	ATV312HD15N4
Three-phase supply voltage: 525...600 V 50/60 Hz, without EMC filter (3)(6)					
0.75	2.8	1.7	2.6	36	ATV312H075S6
1.5	4.8	2.7	4.1	48	ATV312HU15S6
2.2	6.4	3.9	5.9	62	ATV312HU22S6
4	10.7	6.1	9.2	94	ATV312HU40S6
5.5	16.2	9	13.5	133	ATV312HU55S6
7.5	21.3	11	16.5	165	ATV312HU75S6
11	27.8	17	25.5	257	ATV312HD11S6
15	36.4	22	33	335	ATV312HD15S6

(1) These values are given for a nominal switching frequency of 4 kHz, for use in continuous operation. The switching frequency is adjustable from 2 to 16 kHz. Above 4 kHz, derate the nominal drive current. The nominal motor current should not exceed this value. See derating curves from catalogue.

(2) Typical value for a 4-pole motor and a maximum switching frequency of 4 kHz, with no line choke for max. prospective line I_{sc} (4).

(3) Nominal supply voltage, min. U₁, max. U₂: 200 (U₁)...240 V (U₂), 380 (U₁)...500 V (U₂), 525 (U₁)...600 V (U₂).

(4) Drives supplied with category C2 or C3 integrated EMC filter. This filter can be disconnected.

(5) EMC filter available as an option (see page 1-21).

(6) Mandatory line choke to be ordered separately (see page 1-20).

Altivar 312

Variable speed drives

Drive without Input/Output card

1

Drives without Input/Output card (frequency range from 0.5 to 500 Hz)



ATV 312H075M2



ATV 312HU15N4



ATV 312HU30N4



ATV 312HU75N4

Motor	Line	Altivar 312			Reference
Power indicated on plate (1)	Max. line current at U1 (2) (3)	Max. Continuous output current (In) (1)	Max. Transient current for 60s	Power dissipated at max. output current (In) (1)	
kW	A	A	A	W	
Single-phase supply voltage: 200...240 V 50/60 Hz, with integrated EMC filter (4)					
0.18	3	1.5	2.3	24	ATV312H018M2B
0.37	5.3	3.3	5	41	ATV312H037M2B
0.55	6.8	3.7	5.6	46	ATV312H055M2B
0.75	8.9	4.8	7.2	60	ATV312H075M2B
1.1	12.1	6.9	10.4	74	ATV312HU11M2B
1.5	15.8	8	12	90	ATV312HU15M2B
2.2	21.9	11	16.5	123	ATV312HU22M2B
Three-phase supply voltage: 380...500 V 50/60 Hz, with integrated EMC filter (4)					
0.37	2.2	3.3	1.5	32	ATV312H037N4B
0.55	2.8	3.7	1.9	37	ATV312H055N4B
0.75	3.6	4.8	2.3	41	ATV312H075N4B
1.1	4.9	6.9	3	48	ATV312HU11N4B
1.5	6.4	8	4.1	61	ATV312HU15N4B
2.2	8.9	11	5.5	79	ATV312HU22N4B
3	10.9	13.7	7.1	125	ATV312HU30N4B
4	13.9	17.5	9.5	150	ATV312HU40N4B
5.5	21.9	27.5	14.3	232	ATV312HU55N4B
7.5	27.7	33	17	269	ATV312HU75N4B
11	37.2	54	27.7	397	ATV312HD11N4B
15	48.2	66	33	492	ATV312HD15N4B

(1) These values are given for a nominal switching frequency of 4 kHz, for use in continuous operation.

The switching frequency is adjustable from 2 to 16 kHz. Above 4 kHz, derate the nominal drive current.

The nominal motor current should not exceed this value. See derating curves from catalogue.

(2) Typical value for a 4-pole motor and a maximum switching frequency of 4 kHz, with no line choke for max. prospective line I_{sc} (4).

(3) Nominal supply voltage, min. U1, max. U2: 200 (U1)...240 V (U2), 380 (U1)...500 V (U2), 525 (U1)...600 V (U2).

(4) Drives supplied with category C2 or C3 integrated EMC filter. This filter can be disconnected.

Accessories



Description	For Drives	Reference
Plates for mounting on DIN. rail, width 35mm	ATV312H018M2...H075M2 ATV312H018M3...H075M3	VW3A9804
	ATV312HU11M2,HU15M2 ATV312HU11M3...HU22M3 ATV312H037N4...HU15N4 ATV312H075S6,HU15S6	VW3A9805

Communication card

CANopen Daisy chain communication card	VW3A31208
DeviceNet communication card	VW3A31209
PROFIBUS DP communication card	VW3A31207
ATV 312 control I/O card	VW3A31201

Modbus serial link

Accessories for connection via splitter boxes and RJ45 connectors

Description	Length (m)	Reference
Modbus splitter box 10 RJ45 connectors and 1 screw terminal block	-	LU9GC3
Cables for Modbus serial link equipped with 2 RJ45 connectors	0.3 1 3	VW3A8306R03 VW3A8306R10 VW3A8306R30
Modbus T-connectors (with integrated cable)	0.3 1	VW3A8306TF03 VW3A8306TF10
Modbus line terminators for RJ45. connector (sold in lots of 2)	R=120 ohm C=1 nf R=150 ohm	VW3A8306RC VW3A8306R



TSX SCA 62



TSX SCA 59

Accessories for connection via tap junctions

Description	Length (m)	Reference
Modbus subscriber socket Two 15-way female SUB-D. connectors and 2 screw terminal block, RC line terminator To be connected using cable VW3 A8 306	-	TSXS CA62
Modbus junction box 3 screw terminal blocks, RC line terminator To be connected using cable VW3 A8 306 D30		TSXS CA50
Modbus drop cable 1 RJ45 connector and 1x15-way. male SUB-Dconnectorfor TSXS CA62	3	VW3A8306
Modbus drop cable 1 RJ45 connector and one stripped end	3	VW3A8306D30

(1) Discount code 20
(2) Discount code 28

CANopen machine bus

Connection with CANopen Daisy chain communication card

Description	Item	Length	Reference
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CANopen cables	3	1 m	VW3CANCARR1
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fitted with 2 RJ45 connectors

Other connection accessories and cables

Description	Item	Length	Reference
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CANopen cable	4	50 m	TSXCANCA50
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Standard cable, ce marking

		100 m	TSXCANCA100
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Low smoke mission, halogen-free

		300 m	TSXCANCA300
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Flame retardant (IEC60332-1)

CANopen cable	4	50 m	TSXCANCD50
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Cable for harsh environments or

		100 m	TSXCANCD100
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mobile installations, ce marking

		300 m	TSXCANCD300
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Flame retardant (IEC60332-1)

IP20 CANopen junction boxes	5		VW3CANTAP2
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equipped with:

2 screw terminal blocks for trunk cable tap link

2 RJ45 connectors for connecting drives

1 RJ45 connector for connecting a PC

Description	Cable to be conncted	Reference
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Ethernet gateway/router	VW3A8306D30	TSXETG100
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Modbus, class B10

For connection to the Modbus TCP network

Fipio/Modbus gateway	VW3A8306R●●	LUFFP1
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For connection to the Fipio bus

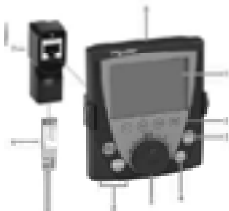


LUFFP1



TSX ETG 100

Remote graphic display terminal



Remote graphic display terminal
 1. Ethernet RJ45 adaptor
 2. Remote cable

Description	Item	Length	Reference
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Remote graphic display terminals	5		VW3A1101
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A remote cable VW3A1104R●●●, and an RJ45 adaptor, VW3A1105, must be provided

Remote cables	6	1 m	VW3A1104R10
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equipped with 2 RJ45 .

		3 m	VW3A1104R30
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		5 m	VW3A1104R50
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		10 m	VW3A1104R100
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Female/female RJ45 adaptor	7		VW3A1105
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SoMove Mobile software for mobile phones



Configuration with SoMove Mobile software
 for mobile phones

Description	Reference
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SoMove Mobile software for mobile phones	--
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Can be downloaded from our website: www.schneider-electric.com

USB-Bluetooth® adaptor for PC	This adaptor is required for a PC that does not have Bluetooth® technology. . It is connected to a USB port on the PC. Range 10 m (class 2)	VW3A8115
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SoMove setup software	Includes:	(1)
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SoMove setup software for PC in Chinese, English, French, German, Italian and Spanish

DTMs (Device Type Managers) and technical documentation

for variable speed drives, starters and servo motors

(1) Available on the "Description of the Motion & Drives offer" DVD-ROM, VW3 A8 200, or on our website

www.schneider-electric.com.

(2) Discount code 20

(3) Discount code 28



SoMove setup software

Altivar 312

Variable speed drives

Braking resistors

Protected braking resistors



VW3A7701

For drives	Minimum resistor value (1)	Ohmic value	Average power available at Reference Weight		Reference
			40°C (2)	50°C	
ATV312H018M2...H075M2	40	100	58	50	VW3A7701
ATV312HU11M2,HU15M2	27				
ATV312H018M3...H075M3	40				
ATV312HU11M3,HU15M3	27				
ATV312H037N4...H075N4	80				
ATV312HU11N4...HU22N4	54				
ATV 312 HU22M2, ATV 312HU22M3	25	60	115	100	VW3A7702
ATV 312 HU30M3	16				
ATV 312 HU30N4	55	100	58	50	VW3A7701
ATV 312 HU40N4	36				
ATV 312 HU55N4	29	60	115	100	VW3A7702
ATV 312 HU75N4	19				
ATV 312 HU55S6	34				
ATV 312 HU40M3	16	28	231	200	VW3A7703
ATV 312HD11 N4, HD15N4	20				
ATV 312HD11 S6, HD15S6	24				
ATV 312HU55M3, HU75M3	8	15	1154	1000	VW3A7704
ATV 312HD11 M3, HD15M3	5	10 (3)	1154	1000	VW3A7705

(1) Depends on the drive rating.

(2) Power that can be dissipated by the resistor at the maximum temperature of 115°C, corresponding to a maximum temperature rise of 75°C in a 40°C environment.

(3) Ohmic value obtained as a function of the connection described in the resistor operating instructions.

Altivar 312

Variable speed drives

Line chokes

Line chokes



VW3A4554

For drives	Line current without choke		Line current with choke		Reference
	U min. (1)	U max. (1)	U min. (1)	U max. (1)	
	A	A	A	A	
Single-phase supply voltage: 200...240 V 50/60 Hz					
ATV312H018M2	3	2.5	2.1	1.8	VZ1L004M010
ATV312H037M2	5.3	4.4	3.9	3.3	
ATV312H055M2	6.8	5.8	5.2	4.3	VZ1L007UM50
ATV312H075M2	8.9	7.5	7	5.9	
ATV312HU11M2	12.1	10.2	10.2	8.6	VZ1L018UM20
ATV312HU15M2	15.8	13.3	13.4	11.4	
ATV312HU22M2	21.9	18.4	19.2	16.1	
Three-phase supply voltage: 200...240 V 50/60 Hz					
ATV312H018M3	2.1	1.9	1	0.9	VW3A4551
ATV312H037M3	3.8	3.3	1.9	1.6	
ATV312H055M3	4.9	4.2	2.5	2.2	
ATV312H075M3	6.4	5.6	3.3	2.9	
ATV312HU11M3	8.5	7.4	4.8	4.2	VW3A4552
ATV312HU15M3	11.1	9.6	6.4	5.6	
ATV312HU22M3	14.9	13	9.2	8	VW3A4553
ATV312HU30M3	19.1	16.6	12.3	10.7	
ATV312HU40M3	24.2	21.1	16.1	14	VW3A4554
ATV312HU55M3	36.8	32	21.7	19	
ATV312HU75M3	46.8	40.9	29	25.2	
ATV312HD11M3	63.5	55.6	41.6	36.5	VW3A4555
ATV312HD15M3	82.1	71.9	55.7	48.6	
Three-phase supply voltage: 380...500 V 50/60 Hz					
ATV312H037N4	2.2	1.7	1.1	0.9	VW3A4551
ATV312H055N4	2.8	2.2	1.4	1.2	
ATV312H075N4	3.6	2.7	1.8	1.5	
ATV312HU11N4	4.9	3.7	2.6	2	
ATV312HU15N4	6.4	4.8	3.4	2.6	
ATV312HU22N4	8.9	6.7	5	4.1	VW3A4552
ATV312HU30N4	10.9	8.3	6.5	5.2	
ATV312HU40N4	13.9	10.6	8.5	6.6	
ATV312HU55N4	21.9	16.5	11.7	9.3	VW3A4553
ATV312HU75N4	27.7	21	15.4	12.1	
ATV312HD11N4	37.2	28.4	22.5	18.1	VW3A4554
ATV312HD15N4	48.2	36.8	29.6	23.3	
Three-phase supply voltage: 525...600 V 50/60 Hz (2)					
ATV312H075S6			1.4	1.4	VW3A4551
ATV312HU15S6			2.4	2.3	
ATV312HU22S6			3.8	3.6	
ATV312HU40S6			6	5.8	VW3A4552
ATV312HU55S6			7.8	7.5	
ATV312HU75S6			11	10.7	VW3A4553
ATV312HD11S6			15	14.4	
ATV312HD15S6			21.1	20.6	VW3A4554
<i>(1) Nominal supply voltage:</i>					
For drives			Nominal voltage		
			U min.	U max.	
ATV 312H●●●M2			200	240	
ATV 312H●●●M3					
ATV 312H●●●N4			380	500	
ATV 312H●●●S6			525	600	

(2) Line choke mandatory for ATV 312H●●●S6 drives

Altivar 312

Variable speed drives

Additional EMC input filters

Additional EMC input filters



For drives	Filter		In (2)	II (3)	Losses (4)	Reference
	Maximum length of shielded cable (1)	IEC 61800-3 (5)				
	Category C2	Category C1				
	m	m	A	mA	W	
Single-phase supply voltage: 200...240 V 50/60 Hz						
ATV312HU11M2	50	20	16	150	6.9	VW3A31403
ATV312HU15M2						
ATV312HU22M2	50	20	22	80	7.5	VW3A31405
Three-phase supply voltage: 200...240 V 50/60 Hz						
ATV312H018M3	5	--	7	7	2.6	VW3A31402
ATV312H037M3						
ATV312H055M3						
ATV312H075M3						
ATV312HU11M3	5	--	15	15	9.9	VW3A31404
ATV312HU15M3						
ATV312HU22M3						
ATV312HU30M3	5	--	25	35	15.8	VW3A31406
ATV312HU40M3						
ATV312HU55M3	5	--	47	45	19.3	VW3A31407
ATV312HU75M3						
ATV312HD11M3	5	--	83	15	35.2	VW3A31408
ATV312HD15M3						
Three-phase supply voltage: 380...500 V 50/60 Hz						
ATV312H037N4	50	20	15	15	9.9	VW3A31404
ATV312H055N4						
ATV312H075N4						
ATV312HU11N4						
ATV312HU15N4						
ATV312HU22N4	50	20	25	35	15.8	VW3A31406
ATV312HU30N4						
ATV312HU40N4						
ATV312HU55N4	50	20	47	45	19.3	VW3A31407
ATV312HU75N4						
ATV312HD11N4	50	20	83	15	35.2	VW3A31409
ATV312HD15N4						

(1) The filter selection tables give the maximum lengths for shielded cables connecting motors to drives for a switching frequency of 2 to 16 kHz. These maximum lengths are given as examples only, as they vary depending on the stray capacitance of the motors and the cables used.

If motors are connected in parallel, the sum of the cable lengths must be taken into account.

(2) In: nominal filter current.

(3) II: maximum earth leakage current at 50 Hz.

(4) Via heat dissipation, at the nominal filter current (In).

(5) Standard IEC 61800-3: EMC immunity and conducted and radiated EMC emissions:

- Category C1 : public power supply (residential)

- Category C2 : industrial power supply

Altivar 312

Variable speed drives

Output filters and motor chokes

LR filter cells

For drives	Losses	Nomial current	Reference
	W	A	
ATV312H018M2...H075M2 ATV312H018M3...H075M3 ATV312H037N4...HU40N4 ATV312HD11N4,HD15N4 ATV312H075S6...HU55S6	150	10	VW3A58451
ATV312HU22M2, ATV312HU22M3,HU30M3 ATV312HU55N4 ATV312HU75S6	180	16	VW3A58452
ATV312HU40M3...HU75M3 ATV312HU75N4 ATV312HD11S6,HD15S6	220	33	VW3A58453

Motor chokes

For drives	Losses	Nomial current	Reference
	W	A	
ATV312HU22N4...HU40N4 ATV312HU40S6,HU55S6	65	10	VW3A4552
ATV312HU22M2 ATV312HU22M3,HU30M3 ATV312HU55N4 ATV312HU75S6	75	16	VW3A4553
ATV312HU40M3...HU75M3 ATV312HU75N4,HD11N4 ATV312HD11S6,HD15S6	90	30	VW3A4554
ATV312HD15N4	80	60	VW3A4555
ATV312HD11M3,HD15M3	--	100	VW3A4556

IP 20 drives

Three phase supply voltage: 380...480 V 50/60 Hz



ATV61HU22N4



ATV61HU40N4Z



ATV61HC31N4

Motor		Line supply				Altivar 61			Reference
Power indicated on plate (1)	HP	Line current (2)		Apparent power 380 V	Maximum prospective line Isc	Max. continuous current (1)		Max. transient current for 60 s	
		380 V	480 V			380 V	460 V		
kW	HP	A	A	kVA	kA	A	A	A	
0.75	1	3.7	3	2.4	5	2.3	2.1	2.7	ATV61H075N4
1.5	2	5.8	5.3	3.8	5	4.1	3.4	4.9	ATV61HU15N4
2.2	3	8.2	7.1	5.4	5	5.8	4.8	6.9	ATV61HU22N4
3	–	10.7	9	7	5	7.8	6.2	9.3	ATV61HU30N4
4	5	14.1	11.5	9.3	5	10.5	7.6	12.6	ATV61HU40N4
5.5	7.5	20.3	17	13.4	22	14.3	11	17.1	ATV61HU55N4
7.5	10	27	22.2	17.8	22	17.6	14	21.1	ATV61HU75N4
11	15	36.6	30	24.1	22	27.7	21	33.2	ATV61HD11N4
15	20	48	39	31.6	22	33	27	39.6	ATV61HD15N4
18.5	25	45.5	37.5	29.9	22	41	34	49.2	ATV61HD18N4
22	30	50	42	32.9	22	48	40	57.6	ATV61HD22N4
30	40	66	56	43.4	22	66	52	79.2	ATV61HD30N4
37	50	84	69	55.3	22	79	65	94.8	ATV61HD37N4
45	60	104	85	68.5	22	94	77	112.8	ATV61HD45N4
55	75	120	101	79	22	116	96	139.2	ATV61HD55N4
75	100	167	137	109.9	22	160	124	192	ATV61HD75N4
90	125	166	143	109.3	35	179	179	214.8	ATV61HD90N4
110	150	202	168	133	35	215	215	236.5	ATV61HC11N4
132	200	239	224	157.3	35	259	259	284.9	ATV61HC13N4
160	250	289	275	190.2	50	314	314	345.4	ATV61HC16N4
200	300	357	331	235	50	427	427	469.7	ATV61HC22N4
220	350	396	383	260.6	50				
250	400	444	435	292.2	50	481	481	529.1	ATV61HC25N4
280	450	494	494	325.1	50	616	616	677.6	ATV61HC31N4
315	500	555	544	365.3	50				
355	–	637	597	419.3	50	759	759	834.9	ATV61HC40N4
400	600	709	644	466.6	50				
500	700	876	760	576.6	50	941	941	1035.1	ATV61HC50N4
560	800	978	858	643.6	50	1188	1188	1306.8	ATV61HC63N4
630	900	1091	964	718	50				

(1) These values are given for a nominal switching frequency of 12 kHz up to ATV 61HD75N4, 4 kHz for ATV 61HD90N4 or 2.5 kHz for ATV 61HC11N4...HC63N4, for use in continuous operation.

The switching frequency is adjustable from 1...16 kHz up to ATV 61HD75N4 and 2...8 kHz for ATV 61HD90N4...ATV 61HC63N4.

Above 2.5, 4 or 12 kHz depending on the rating, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see derating curves from catalogue).

(2) Typical value for the indicated motor power and for the maximum prospective line Isc.

Note: Consult the summary tables of possible drive, option and accessory combinations.

IP 54 drives with an integrated class A EMC filter

Three phase supply voltage: 380...480 V 50/60 Hz

Motor		Line supply				Altivar 61			Reference
Power indicated on plate (1)	HP	Line current (2)		Apparent power 380 V	Maximum prospective line Isc	Max. continuous current (1)		Max. transient current for 60 s	
		380 V	480 V			380 V	380 V		
kW	HP	A	A	kVA	kA	A	A	A	
0.75	1	1.8	1.5	1.2	5	2.3	2.1	2.5	ATV61W075N4
1.5	2	3.5	3	2.3	5	4.1	3.4	4.5	ATV61WU15N4
2.2	3	5	4.1	3.3	5	5.1	4.8	5.6	ATV61WU22N4
3	–	6.7	5.6	4.4	5	7.2	6.2	7.9	ATV61WU30N4
4	5	8.8	7.4	5.8	5	9.1	7.6	10	ATV61WU40N4
5.5	7.5	11.4	9.2	7.5	22	12	11	13.2	ATV61WU55N4
7.5	10	15.8	13.3	10.4	22	16	14	17.6	ATV61WU75N4
11	15	21.9	17.8	14.4	22	22.5	21	24.7	ATV61WD11N4
15	20	30.5	25.8	20	22	30.5	27	33.5	ATV61WD15N4
18.5	25	37.5	32.3	24.7	22	37	34	40.7	ATV61WD18N4
22	30	43.6	36.6	28.7	22	43.5	40	47.8	ATV61WD22N4
30	40	56.7	46.2	37.3	22	58.5	52	64.3	ATV61WD30N4
37	50	69.5	56.8	45.7	22	71.5	65	78.6	ATV61WD37N4
45	60	85.1	69.6	56	22	85	77	93.5	ATV61WD45N4
55	75	104.8	87	69	35	103	96	113.3	ATV61WD55N4
75	100	140.3	113.8	92.3	35	137	124	150.7	ATV61WD75N4
90	125	171.8	140.9	113	35	163	156	179.3	ATV61WD90N4

(1) These values are given for a nominal switching frequency of 8 kHz up to ATV 61WD15N4 or ATV 61WD15N4C, or 4 kHz for ATV 61WD18N4...WD90N4 or ATV 61WD18N4C...WD90N4C for use in continuous operation.

The switching frequency is adjustable from 2...16 kHz for all ratings.

Above 4 or 8 kHz depending on the rating, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current (see derating curves from catalogue).

(2) Typical value for the indicated motor power and for the maximum prospective line Isc.

Note: Consult the summary tables of possible drive, option and accessory combinations.

DC chokes (1)

3-phase supply voltage: 380 480 V 50/60 Hz

For drives	Inductance	Nominal	Loss	Reference
	value	current		
	mH	A	W	
ATV 61H075N4	18	2.25	7.7	VW3A4501
ATV 61HU15N4	10	4.3	11	VW3A4502
ATV 61HU22N4, HU30N4	6.8	8	22.5	VW3A4503
ATV 61HU40N4	3.9	10.7	27	VW3A4504
ATV 61HU55N4	3.2	14.3	32	VW3A4505
ATV 61HU75N4	2.2	19.2	33	VW3A4506
ATV 61HD11N4	1.6	27.4	43	VW3A4507
ATV 61HD15N4, HD18N4	1.2	44	57.5	VW3A4508
ATV 61HD22N4...HD37N4	0.52	84.5	98.3	VW3A4510
ATV 61HD45N4...HD75N4	0.22	171.2	128	VW3A4511

(1) With ATV 61HD55M3X, HD90M3X and ATV 61HD90N4... HC63N4 drives, the DC choke is supplied as standard with the drive. It is integrated into ATV61W...N4 and ATV61W...N4C drives.

Line chokes

3-phase supply voltage: 380 480 V 50/60 Hz

For drives	Line supply Line Isc	Line choke				Qty per drive	Reference
		Inductance	Nominal	Saturator	Loss		
		value	current	current	W		
	kA	mH	A	A	W		
ATV 61H075N4, HU15N4 ATV 61W075N4, WU15N4 ATV 61W075N4C, WU15N4C	5	10	4		45	1	VW3A4551
ATV 61HU22N4...HU40N4 ATV 61WU22N4...WU40N4 ATV 61WU22N4C...WU40N4C	5	4	10		65	1	VW3A4552
ATV 61HU55N4, HU75N4 ATV 61WU55N4, WU75N4 ATV 61WU55N4C, WU75N4C	22	2	16		75	1	VW3A4553
ATV 61HD11N4, HD15N4 ATV 61WD11N4, WD15N4 ATV 61WD11N4C, WD15N4C	22	1	30		90	1	VW3A4554
ATV 61HD18N4, HD22N4 ATV 61WD18N4, WD22N4 ATV 61WD18N4C, WD22N4C	22	0.5	60		94	1	VW3A4555
ATV 61HD30N4...HD55N4 ATV 61WD30N4...WD55N4 ATV 61WD30N4C...WD55N4C	22	0.3	100		260	1	VW3A4556
ATV 61HD75N4 ATV 61WD75N4 ATV 61WD75N4C	22	0.15	230		400	1	VW3A4557
ATV 61HD90N4 ATV 61WD90N4 ATV 61WD90N4C	35	0.155	184		220	1	VW3A4558
ATV 61HC11N4D	35	0.12	222	445	230	1	VW3A4559
ATV 61HC13N4D	35	0.098	264	530	245	1	VW3A4560
ATV 61HC16N4D	50	0.085	300	474	315	1	VW3A4568
ATV 61HC22N4D Motor P 200kW	50	0.066	344	685	258	1	VW3A4561
Motor P 220kW	50	0.06	450	574	335	1	VW3A4569
ATV 61HC25N4D	50	0.06	450	574	335	1	VW3A4569
ATV 61HC31N4D	50	0.038	613	1150	307	1	VW3A4564
ATV 61HC40N4D	50	0.032	720	1352	428	1	VW3A4565
ATV 61HC50N4D	50	0.06	450	849	335	2	VW3A4569
ATV 61HC63N4D	50	0.038	613	1150	307	2	VW3A4564

Variable speed drives

for asynchronous motors

Altivar 61: reduction of current harmonics

Accessories: passive filters

Passive filter: 3-phase power supply 400V 50Hz

Motor rating	For ATV61 drives	Line supply	Filter	Quantity	Reference
kW	HP	Line current	In (2)	per drive	
THDI 16% (1)					
0.75	1	H075N4	2.5	6	VW3A4601
1.5	2	HU15N4	3.6	6	VW3A4601
2.2	3	HU22N4	5	6	VW3A4601
3	-	HU30N4	6	6	VW3A4601
4	5	HU40N4	7.8	10	VW3A4602
5.5	7.5	HU55N4	10	10	VW3A4602
7.5	10	HU75N4	14	19	VW3A4603
11	15	HD11N4	19	19	VW3A4603
15	20	HD15N4	26	26	VW3A4604
18.5	25	HD18N4	32	35	VW3A4605
22	30	HD22N4	38	43	VW3A4606
30	40	HD30N4	52	72	VW3A4607
37	50	HD37N4	63	72	VW3A4607
45	60	HD45N4	77	101	VW3A4608
55	75	HD55N4	91	101	VW3A4608
75	100	HD75N4	126	144	VW3A4609
THDI 10%					
0.75	1	W075N4, W075N4C	2.5	6	VW3A4601
1.5	2	WU15N4, WU15N4C	3.6	6	VW3A4601
2.2	3	WU22N4, WU22N4C	5	6	VW3A4601
3	-	WU30N4, WU30N4C	6	6	VW3A4601
4	5	WU40N4, WU40N4C	7.8	10	VW3A4602
5.5	7.5	WU55N4, WU55N4C	10	10	VW3A4602
7.5	10	WU75N4, WU75N4C	14	19	VW3A4603
11	15	WD11N4, WD11N4C	19	19	VW3A4603
15	20	WD15N4, WD15N4C	26	26	VW3A4604
18.5	25	WD18N4, WD18N4C	32	35	VW3A4605
22	30	WD22N4, WD22N4C	38	43	VW3A4606
30	40	WD30N4, WD30N4C	52	72	VW3A4607
37	50	WD37N4, WD37N4C	63	72	VW3A4607
45	60	WD45N4, WD45N4C	77	101	VW3A4608
55	75	WD55N4, WD55N4C	91	101	VW3A4608
75	100	WD75N4, WD75N4C	126	144	VW3A4609
90	125	HD90N4	149	144	VW3A4609
		WD90N4, WD90N4C			
110	150	HC11N4	182	180	VW3A4610
132	200	HC13N4	218	216	VW3A4611
160	250	HC16N4	287	289	VW3A4612
200	300	HC22N4	353.5	370	VW3A4613
220	350	HC22N4	364	370	VW3A4613
250	400	HC25N4	415	216	VW3A4611
280	450	HC31N4	485	289	VW3A4612
315	500	HC31N4	543	289	VW3A4612
355	-	HC40N4	588	289	VW3A4612
400	600	HC40N4	664	325	VW3A4619
500	700	HC50N4	840	289	VW3A4612
560	800	HC63N4	973	370	VW3A4613
630	900	HC63N4	1091	370	VW3A4613

(1) By adding a DC choke (see page 1-25) to ATV61H075N4...HD75N4 drives, the THD will be $\leq 10\%$.

This DC choke is supplied as standard with ATV71HD90N4...HC50N4.

These reduced current harmonics are obtained, only for the nominal filter current, on condition that the THDU is $< 2\%$ and the RSCE $> 66\%$.

(2) In: nominal filter current.

Motor chokes



VW3A5 101

For drives	Maximum motor cable length (1)		Loss	Nominal current	Quantity per drive	Reference	
	Shielded	Unshielded					
	m	m	W	A			
3-phase supply voltage: 200...240 V 50/60 Hz							
ATV61H075M3...HU22M3	150	300	150	12		VW3A5101	
ATV61HU30M3...HU75M3	200	260	250	48		VW3A5102	
	300	300	350	90		VW3A5103	
ATV61HD11M3X...HD22M3X	150	300	350	90		VW3A5103	
ATV61HD30M3X...HD45M3X	150	300	430	215	3	VW3A5104	
ATV61HD55M3X, HD75M3X	150	300	475	314	3	VW3A5105	
ATV61HD90M3X	250	300	530	481	3	VW3A5106	
3-phase supply voltage: 380...480 V 50/60 Hz							
ATV61H075N4...HU40N4	75	90	150	12		VW3A5101	
ATV61W075N4...WU40N4	85	95	250	48		VW3A5102	
ATV61W075N4C...WU40N4C	160	200	350	90		VW3A5103	
ATV61HU55N4...HD18N4	85	95	250	48		VW3A5102	
ATV61WU55N4...WD18N4	160	200	350	90		VW3A5103	
ATV61WU55N4C...WD18N4C	200	300	430	215	3	VW3A5104	
ATV61HD22N4...HD30N4	140	170	350	90		VW3A5103	
ATV61WD22N4...WD30N4	150	300	430	215	3	VW3A5104	
ATV61WD22N4C...WD30N4C							
ATV61HD37N4	97	166	350	90		VW3A5103	
ATV61WD37N4	200	300	430	215	3	VW3A5104	
ATV61WD37N4C							
ATV61HD45N4...HD75N4	150	300	430	215	3	VW3A5104	
ATV61WD45N4...WD75N4							
ATV61WD45N4C...WD75N4C							
ATV61HD90N4	200	300	430	215	3	VW3A5104	
ATV61WD90N4							
ATV61WD90N4C							
ATV61HC11N4, HC13N4	150	250	475	314	3	VW3A5105	
ATV61HC16N4	250	300	530	481	3	VW3A5106	
ATV61HC22N4	250	300	530	481	3	VW3A5106	
ATV61HC25N4	200	250	598	759	3	VW3A5107	
ATV61HC31N4	200	250	598	759	3	VW3A5107	
ATV61HC40N4	Motor P 355 kW	200	250	598	759	3	VW3A5107
	Motor P 400 kW	250	300	682	1188	3	VW3A5108
ATV61HC50N4		250	300	682	1188	3	VW3A5108
ATV61HC63N4		250	300	682	1188	3	VW3A5108

(1) Max. length given for a switching frequency of 2.5 or 4 kHz depending on the rating of the fan.



Motor		Line supply				Altivar 71			Reference
Power indicated on plate (1)		Line current (2)		Apparent power 380V	Maximum prospective line Isc	Max. continuous current (1)	Max. transient current for		
kW	HP	A	A	kVA	kA	A	60 s	2 s	
with a remote graphic display terminal as standard. (3)(4)									
0.75	1	3.7	3	2.4	5	2.3	3.5	3.8	ATV71H075N4
1.5	2	5.8	5.3	3.8	5	4.1	6.2	6.8	ATV71HU15N4
2.2	3	8.2	7.1	5.4	5	5.8	8.7	9.6	ATV71HU22N4
3		10.7	9	7	5	7.8	11.7	12.9	ATV71HU30N4
4	5	14.1	11.5	9.3	5	10.5	15.8	17.3	ATV71HU40N4
5.5	7.5	20.3	17	13.4	22	14.3	21.5	23.6	ATV71HU55N4
7.5	10	27	22.2	17.8	22	17.6	26.4	29	ATV71HU75N4
11	15	36.6	30	24.1	22	27.7	41.6	45.7	ATV71HD11N4
15	20	48	39	31.6	22	33	49.5	54.5	ATV71HD15N4
18.5	25	45.5	37.5	29.9	22	41	61.5	67.7	ATV71HD18N4
22	30	50	42	32.9	22	48	72	79.2	ATV71HD22N4
30	40	66	56	43.4	22	66	99	109	ATV71HD30N4
37	50	84	69	55.3	22	79	118.5	130	ATV71HD37N4
45	60	104	85	68.5	22	94	141	155	ATV71HD45N4
55	75	120	101	79	22	116	174	191	ATV71HD55N4
75	100	167	137	109.9	22	160	240	264	ATV71HD75N4
A reinforced version for operation in specific environmental (5)(6)									
Drives will feature a remote graphic display terminal.									
90	125	166	134	109.3	35	179	269	295	ATV71HD90N4
110	150	202	163	133	35	215	323	355	ATV71HC11N4
132	200	239	192	157.3	35	259	388	427	ATV71HC13N4
160	250	289	233	190.2	50	314	471	518	ATV71HC16N4
200	300	357	286	235	50	387	580	638	ATV71HC20N4
220	350	396	320	260.6	50	427	640	704	ATV71HC25N4
250	400	444	357	292.2	50	481	721	793	
280	450	494	396	325.1	50	550	825	907	ATV71HC28N4
315	500	555	444	365.3	50	616	924	1016	ATV71HC31N4
355		637	512	419.3	50	671	1006	1107	ATV71HC40N4
400	600	709	568	466.6	50	759	1138	1252	
500	700	876	699	576.6	50	941	1411	1552	ATV71HC50N4

- (1) These values are given for a nominal switching frequency of 4 kHz up to ATV 71HD30N4 or 2.5 kHz for ATV 71HD37N4...HC50N4 drives for use in continuous operation.
The switching frequency is adjustable from 1...16 kHz up to 71HD37N4...HC50N4 and from 2.5...8 kHz for ATV 71HD90N4...ATV 71HC50N4 drives.
Above 2.5 or 4 kHz, depending on the rating, the drive will reduce the switching frequency automatically in the event of an excessive temperature rise. For continuous operation above the nominal switching frequency, derate the nominal drive current, (see derating curves).
- (2) Typical value for the indicated motor power and for the maximum prospective line Isc.
- (3) ATV 71HD90N4...HC50N4 drives are supplied as standard in a reinforced version for operation in specific environmental conditions (see the environmental conditions).
To order the ATV 71H075N4...HD75N4 drives in a reinforced version, add S337 at the end of the reference.
For example, ATV 71H075N4 becomes ATV 71H075N4S337. Consult us for price.
If a reinforced version of the drive is supplied for specific environmental conditions, it will feature a remote graphic display terminal.
- (4) All drives come with a remote graphic display terminal as standard. To order an ATV 71H075N4...ATV 71HD75N4 drive without a graphic display terminal, add a Z at the end of the reference. The drive will then come equipped with an integrated 7-segment display terminal. For example, ATV 71H075N4 without a graphic display terminal becomes ATV 71H075N4Z.
- (5) Drive supplied as standard with a DC choke, which must be used when connecting the drive to the 3-phase supply.
For connections to the DC bus, the drive can be ordered without a DC choke by adding a D at the end of the reference.
For example, ATV 71HD90N4 becomes ATV 71HD90N4D.
- (6) Drive supplied without plate for EMC mounting.

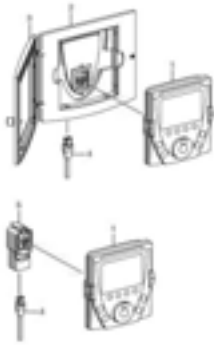
A choke appropriate for the drive rating is supplied in a UL Type 1, IP 21 or IP 31 kit, which must be ordered separately.
For ATV 71H075N4...HD75N4, order the kit for IP 21 conformity. For ATV 71HD90N4...HC50N4, order the kit for IP 31 conformity.

Note: Consult the summary tables of possible drive, option and accessory combinations, see 1-23 speed drives catalogue.

Remote graphic display terminal

(this display terminal can be supplied with the drive or ordered separately)

Description	N	Reference
Remote graphic display terminal	1	VW3A1101

Graphic display terminal accessories

Description	N	Length m	Degree of protection	Reference
Remote mounting kit (1)	2		IP 54	VW3A1102
Door (2)	3		IP 65	VW3A1103
Remote cables	4	1		VW3A1104R10
Equipped with 2 RJ45 connectors	4	3		VW3A1104R30
	4	5		VW3A1104R50
	4	10		VW3A1104R100
RJ45 female/female adaptor	5			VW3A1105

(1) In this case, use a VW3 A1 104 R●● remote connecting cable, which must be ordered separately (see above).

(2) To be mounted on remote mounting kit VW3 A1 102 (for mounting on an enclosure door), which must be ordered separately (see above).

Encoder interface cards (3)

Description	Voltage V	Reference
Encoder interface cards with RS 422 compatible differential outputs	5	VW3A3401
	15	VW3A3402
Encoder interface cards with open collector outputs	12	VW3A3403
	15	VW3A3404
Encoder interface cards with push-pull outputs	12	VW3A3405
	15	VW3A3406
	24	VW3A3407

(3) The Altivar 61 and 71 cannot support more than one encoder interface card. Please refer to the compatibility tables summarizing the possible combinations for drives, options and accessories from catalogue.

I/O extension cards (4)

Description	Reference
Logic I/O card	VW3A3201
Extended I/O card	VW3A3202

(4) The Altivar 71 cannot support more than one I/O card with the same reference. Please refer to the compatibility tables summarizing the possible combinations for drives, options and accessories from catalogue.

Controller Inside programmable card

Card	
Description	Reference
Controller Inside programmable card (1) equipped with one 9-way male SUB-D connector	VW3A3501



Connection accessories	
Description	Reference
CANopen adapter to be mounted on the RJ45 socket in the drive control terminals. The adaptor provides a 9-way male SUB-D connector conforming to the CANopen standard (CIA DRP 303-1).	VW3CANA71
CANopen connector (2) 9-way female SUB-D with line terminator that can be disabled	TSXCANKCDF180T




PS 1131 software workshop	
Description	Reference
Connection kit for PC serial port containing various accessories including: ■ 1 x 3 m cable with 2 RJ 45 connectors ■ 1 RS 232/RS 485 converter with one 9-way female SUB-D connector and one RJ45 connector	VW3A8106

(1) The Altivar 71 drive can only take one Controller Inside programmable card. Consult the summary tables of possible drive, option and accessory combinations (from Catalogue).

(2) On drives ATV 71H●●●M3, ATV 71HD11M3X, HD15M3X, ATV 71H075N4... HD18N4, this connector can be replaced by the TSX CAN KCDF 180T connector.

(3) See Automation price book or call our CustomerCare Centre. Discount Code 28.

Communication cards (1)



Description		Reference
Ethernet (2)	To be connected on a Hub or Switch using a 490 NTW 000●● cable.	VW3A3310D
Modbus/ Uni-Telway	To be connected on TSX SCA 62 subscriber socket using the VW3 A8 306 2 cable.	VW3A3303
Standard Fipio	To be connected using a TSX FP ACC 12 connector with a TSX FP CC●● extension cable or a TSX FP CA●● drop cable. This card should be used for new installations. It is also used to replace an ATV 58 or ATV 58F drive equipped with a VW3 A58 311 card by an ATV 71 drive. To replace an ATV 58 or ATV 58F drive equipped with a VW3 58 301 card by an ATV 71 drive, use the VW3 A3 301 card (substitution).	VW3A3311
Substitution Fipio (ATV71 only)	This card is also used to replace an ATV 58 or ATV 58F equipped with a VW3 A58 301 card by an ATV 71. To replace an ATV 58 or ATV 58F drive equipped with a VW3 A58 311 card by an ATV 71 drive, use the VW3 A3 311 card (standard).	VW3A3301
Modbus Plus	To be connected to the 990 NAD 230 00 IP 20 Modbus Plus tap using a 990 NAD 219●0 cable.	VW3A3302
Profibus DP	To be connected using a 490 NAD 911●● connector to Profibus cable TSX PBS CA●00 (3)	VW3A3307
DeviceNet	The card is equipped with removable screw terminals	VW3A3309
INTERBUS	To be connected using cables for installation remote bus, reference 170 MCI ●●●00 (3)	VW3A3304

(1) The Altivar 61 and 71 drive can only take one communication card. Consult the summary tables of possible drive, option and accessory combinations (see catalogue).

(2) Please consult our specialist "Ethernet TCP/IP Transparent Factory" catalogue.

(3) Please consult our specialist "Modicon Premium Automation Platform - Unity & PL7" catalogue.

Altivar 71

Accessories: braking resistors and line chokes

Supply voltage: 380...480V 50/60Hz

Braking resistors

For drives	Ohmic value	Average power	Reference
	at 20°C	available at 50°C (1)	
	Ω	kW	
ATV71H075N4...HU40N4 ATV71W075N4, WU40N4	100	0.05	VW3A7701
ATV71HU55N4, HU75N4 ATV71WU55N4, WU75N4	60	0.1	VW3A7702
ATV71HD11N4, HD15N4 ATV71WD11N4, WD15N4	28	0.2	VW3A7703
ATV71HD18N4...HD30N4 ATV71WD18N4...WD30N4	15	1	VW3A7704
ATV71HD37N4 ATV71WD37N4	10	1	VW3A7705
ATV71HD45N4...HD75N4 ATV71WD45N4...WD75N4	5	1	VW3A7707
ATV71HD90N4	2.75	25	VW3A7710
ATV71HC11N4, HC13N4	2.1	37	VW3A7711
ATV71HC16N4	2.1	44	VW3A7712
ATV71HC20N4	1.05	56	VW3A7715
ATV71HC25N4, HC28N4	1.05	75	VW3A7716
ATV71HC31N4, HC40N4	0.7	112	VW3A7717
ATV71HC50N4	0.7	150	VW3A7718

(1) Operating factor for resistors: The value of the average power that can be dissipated at 50°C from the resistor into the casing is determined for an operating factor during braking that corresponds to the majority of normal applications.

For VW3 A7 701...709:

- 2 s braking with 0.6 Tn braking torque for a 40 s cycle
- 0.8 s braking with 1.5 Tn braking torque for a 40 s cycle

For VW3 A7 710...718:

- 10 s braking with 2 Tn braking torque for a 30 s cycle

Line chokes

For drives	Line supply Line Isc kA	Line choke				Loss W	Qty per drive	Reference
		Inductance value mH	Nominal current A	Saturation current A	Loss W			
ATV71H075N4, HU15N4 ATV71W075N4, WU15N4 ATV71P075N4Z, PU15N4Z	5	10	4		45	1	VW3A4551	
ATV71HU22N4...HU40N4 ATV71WU22N4...WU40N4 ATV71PU22N4Z...PU40N4Z	5	4	10		65	1	VW3A4552	
ATV71HU55N4, HU75N4 ATV71WU55N4, WU75N4 ATV71PU55N4Z, PU75N4Z	22	2	16		75	1	VW3A4553	
ATV71HD11N4, HD15N4 ATV71WD11N4, WD15N4	22	1	30		90	1	VW3A4554	
ATV71HD18N4, HD22N4 ATV71WD18N4, WD22N4	22	0.5	60		94	1	VW3A4555	
ATV71HD30N4...HD55N4 ATV71WD30N4...WD55N4	22	0.3	100		260	1	VW3A4556	
ATV71HD75N4 ATV71WD75N4	22	0.155	184		220	1	VW3A4558	
ATV71HD90N4, HC11NA	35	0.12	222	445	230	1	VW3A4559	
ATV71HC13N4	35	0.098	264	530	245	1	VW3A4560	
ATV71HC16N4	50	0.066	344	685	258	1	VW3A4561	
ATV71HC20N4	50	0.06	450	574	335	1	VW3A4569	
ATV71HC25N4, HC28N4	50	0.038	613	1150	307	1	VW3A4564	
ATV71HC31N4	50	0.032	720	1352	428	1	VW3A4565	
ATV71HC40N4	50	0.06	450	849	335	2	VW3A4569	
ATV71HC50N4	50	0.038	613	1150	307	2	VW3A4564	

Passive filter: 3-phase power supply 400V 50Hz

Motor rating	For drives	Line supply Line current	Filter In (2)	Quantity per drive	Reference
kW	HP				
THDI 16% (1)					
0.75	1	ATV71H075N4 ATV71W075N4 ATV71P075N4Z	2.5	6	1 VW3A4601
1.5	2	ATV71HU15N4 ATV71WU15N4 ATV71PU15N4Z	3.6	6	1 VW3A4601
2.2	3	ATV71HU22N4 ATV71WU22N4 ATV71PU22N4Z	5	6	1 VW3A4601
3	-	ATV71HU30N4 ATV71WU30N4 ATV71PU30N4Z	6	6	1 VW3A4601
4	5	ATV71HU40N4 ATV71WU40N4 ATV71PU40N4Z	7.8	10	1 VW3A4602
5.5	7.5	ATV71HU55N4 ATV71WU55N4 ATV71PU55N4Z	10	10	1 VW3A4602
7.5	10	ATV71HU75N4 ATV71WU75N4 ATV71PU75N4Z	14	19	1 VW3A4603
11	15	ATV71HD11N4 ATV71WD11N4	19	19	1 VW3A4603
15	20	ATV71HD15N4 ATV71WD15N4	26	26	1 VW3A4604
18.5	25	ATV71HD18N4 ATV71WD18N4	32	35	1 VW3A4605
22	30	ATV71HD22N4 ATV71WD22N4	38	43	1 VW3A4606
30	40	ATV71HD30N4 ATV71WD30N4	52	72	1 VW3A4607
37	50	ATV71HD37N4 ATV71WD37N4	63	72	1 VW3A4607
45	60	ATV71HD45N4 ATV71WD45N4	77	101	1 VW3A4608
55	75	ATV71HD55N4 ATV71WD55N4	91	101	1 VW3A4608
75	100	ATV71HD75N4 ATV71WD75N4	126	144	1 VW3A4609
THDI 10%					
90	125	ATV71HD90N4	149	144	1 VW3A4609
110	150	ATV71HC11N4	182	180	1 VW3A4610
132	200	ATV71HC13N4	218	216	1 VW3A4611
160	250	ATV71HC16N4	287	289	1 VW3A4612
200	300	ATV71HC20N4	353.5	370	1 VW3A4613
220	350	ATV71HC25N4	364	370	1 VW3A4613
250	400	ATV71HC25N4	415	216	2 VW3A4611
280	450	ATV71HC28N4	485	289	2 VW3A4612
315	500	ATV71HC31N4	543	289	2 VW3A4612
355	-	ATV71HC40N4	588	289	2 VW3A4612
400	600	ATV71HC40N4	664	325	2 VW3A4619
500	700	ATV71HC50N4	840	289	3 VW3A4612

1) By adding a DC choke, to ATV71●075N4...●D75N4 and ATV71P●●●N4Z drives, we get a THD_s ≤ 10%.

This DC choke is supplied as standard with ATV71HD90N4...HC50N4.

These reduced current harmonics are obtained, only for the nominal filter current, on condition that the

THDU is < 2% and the RSCE > 66%.

(2) In: nominal filter current.

Passive filter: 3-phase power supply 400V 50Hz

Motor rating	For drives	Line supply Line current	Filter In (2)	Quantity per drive	Reference	
THDI 10% (1)						
0.75	1	ATV71H075N4 ATV71W075N4 ATV71P075N4Z	2.5	6	1	VW3A4621
1.5	2	ATV71HU15N4 ATV71WU15N4 ATV71PU15N4Z	3.6	6	1	VW3A4621
2.2	3	ATV71HU22N4 ATV71WU22N4 ATV71PU22N4Z	5	6	1	VW3A4621
3	-	ATV71HU30N4 ATV71WU30N4 ATV71PU30N4Z	6	6	1	VW3A4621
4	5	ATV71HU40N4 ATV71WU40N4 ATV71PU40N4Z	7.8	10	1	VW3A4622
5.5	7.5	ATV71HU55N4 ATV71WU55N4 ATV71PU55N4Z	10	10	1	VW3A4622
7.5	10	ATV71HU75N4 ATV71WU75N4 ATV71PU75N4Z	14	19	1	VW3A4623
11	15	ATV71HD11N4 ATV71WD11N4	19	19	1	VW3A4623
15	20	ATV71HD15N4 ATV71WD15N4	26	26	1	VW3A4624
18.5	25	ATV71HD18N4 ATV71WD18N4	32	35	1	VW3A4625
22	30	ATV71HD22N4 ATV71WD22N4	38	43	1	VW3A4626
30	40	ATV71HD30N4 ATV71WD30N4	52	72	1	VW3A4627
37	50	ATV71HD37N4 ATV71WD37N4	63	72	1	VW3A4627
45	60	ATV71HD45N4 ATV71WD45N4	77	101	1	VW3A4628
55	75	ATV71HD55N4 ATV71WD55N4	91	101	1	VW3A4628
75	100	ATV71HD75N4 ATV71WD75N4	126	144	1	VW3A4629
THDI 5%						
90	125	ATV71HD90N4	149	144	1	VW3A4629
110	150	ATV71HC11N4	182	180	1	VW3A4630
132	200	ATV71HC13N4	218	216	1	VW3A4631
160	250	ATV71HC16N4	287	289	1	VW3A4632
200	300	ATV71HC20N4	353.5	370	1	VW3A4633
220	350	ATV71HC25N4	364	370	1	VW3A4633
250	400	ATV71HC25N4	415	216	2	VW3A4631
280	450	ATV71HC28N4	485	289	2	VW3A4632
315	500	ATV71HC31N4	543	289	2	VW3A4632
355	-	ATV71HC40N4	588	289	2	VW3A4632
400	600	ATV71HC40N4	664	325	2	VW3A4639
500	700	ATV71HC50N4	840	289	3	VW3A4632

1) By adding a DC choke, to ATV71●075N4...●D75N4 and ATV71P●●●N4Z drives, we get a THD_s ≤ 5%.

This DC choke is supplied as standard with ATV71HD90N4...HC50N4.

These reduced current harmonics are obtained, only for the nominal filter current, on condition that the THDU is < 2% and the RSCE > 66%.

(2) In: nominal filter current.

Motor chokes

3-phase supply voltage: 380...480 V 50/60 Hz



VW3A5101

For drives	Maximum motor cable length (1)		Loss W	Nominal current A	Reference
	Shielded	Unshielded			
	m	m			
ATV71H075N4...HU40N4	75	90	150	12	VW3A5101
ATV71W075N4...WU40N4	85	95	250	48	VW3A5102
ATV71P075N4...PU40N4Z	160	200	350	90	VW3A5103
ATV71HU55N4...HD18N4	85	95	250	48	VW3A5102
ATV71WU55N4...WD18N4	160	200	350	90	VW3A5103
ATV71PU55N4...PD18N4	200	300	430	3 x 215	VW3A5104
ATV71HD22N4...HD30N4	140	170	350	90	VW3A5103
ATV71WD22N4...WD30N4	150	300	430	3 x 215	VW3A5104
ATV71HD37N4	97	166	350	90	VW3A5103
ATV71WD37N4	200	300	430	3 x 215	VW3A5104
ATV71HD45N4...HD75N4	150	300	430	3 x 215	VW3A5104
ATV71WD45N4...WD75N4					
ATV71HD90N4	200	300	430	3 x 215	VW3A5104
ATV71HC11N4, HC13N4	150	250	475	3 x 314	VW3A5105
ATV71HC16N4, HC20N4	250	300	530	3 x 481	VW3A5106
ATV71HC25N4					
Motor P 220 kW	250	300	530	3 x 481	VW3A5106
Motor P 250 kW	200	250	598	3 x 759	VW3A5107
ATV71HC28N4, HC31N4	200	250	598	3 x 759	VW3A5107
ATV71HC40N4					
Motor P 355 kW	200	250	598	3 x 759	VW3A5107
Motor P 400 kW	250	300	682	3 x 1188	VW3A5108
ATV71HC50N4	250	300	682	3 x 1188	VW3A5108

(1) Max. length given for a switching frequency of 2.5 or 4 kHz depending on the rating of the fan.

PowerSuite software workshop



Description	Composition	Reference
PowerSuite CD-ROM	<ul style="list-style-type: none"> ■ 1 program for PC in English, French, German, Italian and Spanish ■ Variable speed drive, starter and servo drive technical manuals 	VW3A8104
Connection kit for PC serial port for point-to-point Modbus connection	<ul style="list-style-type: none"> ■ 1 x 3 m cable with 2 RJ 45 connectors ■ 1 RS 232 RS 485 converter with one 9-way female SUB-D connector and one RJ 45 connector ■ 1 RJ45/9-way male SUB-D adaptor for connecting ATV 38/58/58F drives ■ 1 RJ45/9-way female SUB-D adaptor for connecting ATV 68 drives ■ 1 converter for the ATV 11 drive, with one 4-way male connector and one RJ45 connector 	VW3A8106
USB-Bluetooth® adaptor for PC	<p>This adaptor is required for a PC which is not equipped with Bluetooth® technology. It is connected to a USB port on the PC.</p> <p>Range of 10 m (class 2)</p>	VW3A8115
RS 232-RS 485 interface for multidrop Modbus connection	<p>1 Modbus multidrop converter for connection to screw terminals. Requires a 24 V dc (20...30 V), 20 mA power supply (2).</p>	XGSZ24

(1) Can also be used to communicate between a Twido PLC and the TwidoSoft software workshop.

(2) Please consult our specialist "Interfaces, I/O splitter box and power supply" catalogue.

(3) Discount code 24

LXM23- Plus and BCH

Servo drive and motor

Single Phase 200...255V 50/60 Hz

LXM23-Plus Servo drive and BCH Servo motor Combinations (1)

Single Phase 200...255V 50/60 Hz



Rated output power W	Servo Drive		Servo Motor						
	Reference	Price S\$	Feedback Resolution Bit	Frame Size mm	Nominal Speed rpm	Shaft Key	Brake	Motor Type	Reference
100	LXM23DU01M3X	754.00	20	40	3000	No	No	Ultra Low	BCH0401O02A1C
			20	40	3000	No	Yes	Ultra Low	BCH0401O02F1C
			20	40	3000	Yes	No	Ultra Low	BCH0401O12A1C
			20	40	3000	Yes	Yes	Ultra Low	BCH0401O12F1C
200	LXM23DU02M3X	787.00	20	60	3000	No	No	Ultra Low	BCH0601O02A1C
			20	60	3000	No	Yes	Ultra Low	BCH0601O02F1C
			20	60	3000	Yes	No	Ultra Low	BCH0601O12A1C
			20	60	3000	Yes	Yes	Ultra Low	BCH0601O12F1C
400	LXM23DU04M3X	853.00	20	60	3000	No	No	Ultra Low	BCH0602O02A1C
			20	60	3000	No	Yes	Ultra Low	BCH0602O02F1C
			20	60	3000	Yes	No	Ultra Low	BCH0602O12A1C
			20	60	3000	Yes	Yes	Ultra Low	BCH0602O12F1C
750	LXM23DU07M3X	967.00	20	80	3000	No	No	Low	BCH0802O02A1C
			20	80	3000	No	Yes	Low	BCH0802O02F1C
			20	80	3000	Yes	No	Low	BCH0802O12A1C
			20	80	3000	Yes	Yes	Low	BCH0802O12F1C

Lexium 23 - Plus accessories

Description	Reference
USB TO RS232 INTERFACE ADAPTER	VW3M8131
I/O interface attachment plug	VW3M4112
I/O Breakout Module with 0.5 M Cable	VW3M4113

Lexium 23-Plus motor cables

Cable Type	Motor Frame Size mm	Brake	Length m	Reference
Encoder	40 / 60 / 80	N/A	3	VW3M8121R30
			5	VW3M8121R50
Power	40 / 60 / 80	No	3	VW3M5111R30
			5	VW3M5111R50
	40 / 60 / 80	Yes	3	VW3M5112R30
			5	VW3M5112R50

(1) For a full list of Lexium 23 Plus drives, motors and accessories, please refer to your local sales contact.

Control and signaling units

Harmony® XB4, metal Ø22

Spring return pushbutton & illuminated pushbutton with integral LED	2-1
Double and Mushroom head pushbuttons, Emergency devices	2-2
Selector switches and illuminated selector switches with integral LED	2-3
Pilot lights	2-4

Harmony® XB5, plastic Ø22

Spring return pushbutton & illuminated pushbutton with integral LED	2-5
Double and Mushroom head pushbuttons, Emergency devices	2-6
Selector switches and illuminated selector switches with integral LED	2-7
Pilot lights	2-8

Harmony® XB6, plastic Ø16

Spring return illuminated pushbuttons, with integral LED	2-9
Latching illuminated pushbuttons, with integral LED	2-10
Pilot lights with integral LED	2-10
Spring return pushbuttons and Emergency stop devices	2-11
Selector switches and key switches	2-12

Harmony® XB7, plastic Ø22

Monolithic pushbuttons	2-13
Monolithic illuminated pushbuttons	2-15
Monolithic pilot lights	2-16
Monolithic selector switches and key switches	2-17

Control stations

Control stations XAL, complete stations	2-18
Control stations XAL, components for customer assembly	2-20

Signaling solutions

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Pushbuttons

Screw clamp terminal connections

Shape of head	Type of contact		Colour of push	Complete unit Reference	Head Reference	Body Reference		
	N/O	N/C						
Flush push								
 XB4 BA31		1	-	White	XB4BA11	ZB4BA1	ZB4BZ101	
				Black	XB4BA21	ZB4BA2	ZB4BZ101	
				Green	XB4BA31	ZB4BA3	ZB4BZ101	
				Yellow	XB4BA51	ZB4BA5	ZB4BZ101	
				Blue	XB4BA61	ZB4BA6	ZB4BZ101	
	-	1	Red	XB4BA42	ZB4BA4	ZB4BZ102		
Projecting push								
 XB4 BL42		-	1	Red	XB4BL42	ZB4BL4	ZB4BZ102	
Silicone booted head for severe environments (colour of push unobscured)								
 XB4 BP51		1	-	Black	XB4BP21	ZB4BP2	ZB4BZ101	
				Green	XB4BP31	ZB4BP3	ZB4BZ101	
				Yellow	XB4BP51	ZB4BP5	ZB4BZ101	
				Blue	XB4BP61	ZB4BP6	ZB4BZ101	
			-	1	Red	XB4BP42	ZB4BP4	ZB4BZ102
Flush push with marking								
 XB4 DA4002		1	-	"I" (white)	Green	XB4BA3311	ZB4BA331	ZB4BZ101
				"O" (white)	Red	XB4BA4322	ZB4BA432	ZB4BZ102
				↑ (black)	White	XB4BA3341	ZB4BA334	ZB4BZ101
				↓ (white)	Black	XB4BA3351	ZB4BA335	ZB4BZ101
			-	1	"O" (white)	Red	XB4BL4322	ZB4BL432


Illuminated pushbuttons with flush push and integral LED

Screw clamp terminal connections

Shape of head	Supply voltage (V)	Colour of push	Complete unit Reference	Head Reference	Body Reference
 XB4 BW33B5	24V a.c./ d.c.	White	XB4BW31B5	ZB4BW313	ZB4BW0B15
		Green	XB4BW33B5	ZB4BW333	ZB4BW0B35
		Red	XB4BW34B5	ZB4BW343	ZB4BW0B45
		Orange	XB4BW35B5	ZB4BW353	ZB4BW0B55
		Blue	XB4BW36B5	ZB4BW363	ZB4BW0B65
 XB4 BW34G5	110...120V 50/60Hz	White	XB4BW31G5	ZB4BW313	ZB4BW0G15
		Green	XB4BW33G5	ZB4BW333	ZB4BW0G35
		Red	XB4BW34G5	ZB4BW343	ZB4BW0G45
		Orange	XB4BW35G5	ZB4BW353	ZB4BW0G55
		Blue	XB4BW36G5	ZB4BW363	ZB4BW0G65
	230...240V 50/60Hz	White	XB4BW31M5	ZB4BW313	ZB4BW0M15
		Green	XB4BW33M5	ZB4BW333	ZB4BW0M35
		Red	XB4BW34M5	ZB4BW343	ZB4BW0M45
		Orange	XB4BW35M5	ZB4BW353	ZB4BW0M55
		Blue	XB4BW36M5	ZB4BW363	ZB4BW0M65


Double headed pushbuttons (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)


Shape of head	Description	Type of contact		Colour and marking of caps (2)	Reference
		NO	NC		
 XB4 BL73415	2 pushes (1 flush black + 1 projecting red)	1	1	White "I" on green background White "O" on red background	XB4BL73415

Double-headed pushbuttons + 1 white central pilot light block (1)




Screw clamp terminal connections (Schneider Electric anti-retightening system)

Shape of head	Description	Type of contact		Colour and marking of caps (2)	Pilot light voltage (V)	Reference
		NO	NC			
 ZB4 BL7341	1 flush black push	1	1	White "I" on green background	24	XB4BW73731B5
	1 projecting red push			White "O" on red background	120	XB4BW73731G5
	1 white central pilot light block			background	240	XB4BW73731M5


Mushroom head pushbuttons Ø40 mm

Shape of head	Colour of push	Type of contact		Complete unit Reference	Head Reference	Body Reference
		N/O	N/C			
 XB4 BC21	Black	1	-	XB4BC21	ZB4BC2	ZB4BZ101

Emergency stop triger action and mechanical latching pushbuttons, Ø40 mm (Red)

Shape of head	Type of reset	Type of contact		Complete unit Reference	Head Reference	Body Reference
		N/O	N/C			
 XB4 BT845	Push-pull	1	1	XB4BT845	ZB4BT84	ZB4BZ105
 XB4 BS8445	Turn to release	1	1	XB4BS8445	ZB4BS844	ZB4BZ105
 XB4 BS9445	key release (key no.455)	1	1	XB4BS9445	ZB4BS944	ZB4BZ105

Emergency switching off, mechanical latching pushbuttons, Ø40 mm (Red)

















Shape of head	Type of reset	Type of contact		Complete unit Reference	Head Reference	Body Reference
		N/O	N/C			
 XB4 BT42	Push-pull	-	1	XB4BT42	ZB4BT4	ZB4BZ102
	Turn to release	-	1	XB4BS542	ZB4BS54	ZB4BZ102
	key release (key no.455)	-	1	XB4BS142	ZB4BS14	ZB4BZ102

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, refer catalogue for details.

(2) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).



Selector switches

Screw clamp terminal connections

Type of contact	Positions		Complete unit	Head	Body			
	N/O	N/C						
Standard handle, black								
	1	-	2-position	Stay put		XB4BD21	ZB4BD2	ZB4BZ101
	1	-	90°	Spring return from right to left		XB4BD41	ZB4BD4	ZB4BZ101
	1	1		Stay put		XB4BD25	ZB4BD2	ZB4BZ105
	2	-	3- position	Stay put		XB4BD33	ZB4BD3	ZB4BZ103
	2	-	±45°	Spring return to centre		XB4BD53	ZB4BD5	ZB4BZ103
Long handle, black								
	1	-	2-position	Stay put		XB4BJ21	ZB4BJ2	ZB4BZ101
	2	-	90°	Stay put		XB4BJ33	ZB4BJ3	ZB4BZ103
			±45°	Spring return to centre		XB4BJ53	ZB4BJ5	ZB4BZ103
Key switches with key no. 455								
	1	-	2-position	Stay put		XB4BG21	ZB4BG2	ZB4BZ101
			90°			XB4BG41	ZB4BG4	ZB4BZ101
				Spring return to left		XB4BG61	ZB4BG6	ZB4BZ101
	2	-	3- position	Stay put		XB4BG03	ZB4BG0	ZB4BZ103
			±45°			XB4BG33	ZB4BG3	ZB4BZ103

Illuminated selector switches with standard handle, with integral LED

Screw clamp terminal connections

Type of contact	Positions	Supply voltage	Colour of handle	Complete unit	Head	Body					
							N/O	N/C			
Standard handle											
	1	1	2-position	Stay put		24V	Green	XB4BK123B5	ZB4BK1233	ZB4BW0B35	
							Red	XB4BK124B5	ZB4BK1243	ZB4BW0B45	
							Orange	XB4BK125B5	ZB4BK1253	ZB4BW0B55	
							110...120V	Green	XB4BK123G5	ZB4BK1233	ZB4BW0G35
								Red	XB4BK124G5	ZB4BK1243	ZB4BW0G45
								Orange	XB4BK125G5	ZB4BK1253	ZB4BW0G55
							220...240V	Green	XB4BK123M5	ZB4BK1233	ZB4BW0M35
								Red	XB4BK124M5	ZB4BK1243	ZB4BW0M45
								Orange	XB4BK125M5	ZB4BK1253	ZB4BW0M55

Pilot lights with integral LED





XB4-BV35

Shape of head	Supply voltage (V)	Colour	Complete unit Reference	Head Reference	Body Reference
	24V	White	XB4BVB1	ZB4BV013	ZB4BVB1
	a.c./ d.c. 50/60 Hz	Green	XB4BVB3	ZB4BV033	ZB4BVB3
		Red	XB4BVB4	ZB4BV043	ZB4BVB4
		Orange	XB4BVB5	ZB4BV053	ZB4BVB5
		Blue	XB4BVB6	ZB4BV063	ZB4BVB6
	110...120V 50/60 Hz	White	XB4BVG1	ZB4BV013	ZB4BVG1
		Green	XB4BVG3	ZB4BV033	ZB4BVG3
		Red	XB4BVG4	ZB4BV043	ZB4BVG4
		Orange	XB4BVG5	ZB4BV053	ZB4BVG5
		Blue	XB4BVG6	ZB4BV063	ZB4BVG6
230...240V 50/60 Hz		White	XB4BVM1	ZB4BV013	ZB4BVM1
	Green	XB4BVM3	ZB4BV033	ZB4BVM3	
	Red	XB4BVM4	ZB4BV043	ZB4BVM4	
	Orange	XB4BVM5	ZB4BV053	ZB4BVM5	
	Blue	XB4BVM6	ZB4BV063	ZB4BVM6	

Pilot lights for BA 9s base fitting, with plain lens



XB4-BV64

Shape of head	Supply voltage (V)	Colour	Complete unit Reference	Head Reference	Body Reference
Direct supply, for BA 9s U ≤ 250V, 2.4 W bulb (bulb not included)					
	≤250	White	XB4BV61	ZB4BV01	ZB4BV6
	d.c.	Green	XB4BV63	ZB4BV03	ZB4BV6
		Red	XB4BV64	ZB4BV04	ZB4BV6
		Orange	XB4BV65	ZB4BV05	ZB4BV6
Via integral transformer with 1.2 VA, 6 V secondary. BA 9s incandescent bulb included					
	110...120V 50/60 Hz	White	XB4BV31	ZB4BV01	ZB4BV3
		Green	XB4BV33	ZB4BV03	ZB4BV3
		Red	XB4BV34	ZB4BV04	ZB4BV3
		Orange	XB4BV35	ZB4BV05	ZB4BV3
	230V 50Hz 220...240V 60Hz	White	XB4BV41	ZB4BV01	ZB4BV4
		Green	XB4BV43	ZB4BV03	ZB4BV4
		Red	XB4BV44	ZB4BV04	ZB4BV4
		Orange	XB4BV45	ZB4BV05	ZB4BV4



XB4-BV33









Harmony® XB5, plastic

Spring return pushbutton &

Illuminated pushbutton with integral LED


Pushbutton with flush push

Screw clamp terminal connections

Shape of head	Type of contact		Colour of push	Complete unit Reference	Head Reference	Body Reference		
	N/O	N/C						
 XB5 AA31	Flush push							
		1	-	White	XB5AA11	ZB5AA1	ZB5AZ101	
				Black	XB5AA21	ZB5AA2	ZB5AZ101	
				Green	XB5AA31	ZB5AA3	ZB5AZ101	
				Yellow	XB5AA51	ZB5AA5	ZB5AZ101	
				Blue	XB5AA61	ZB5AA6	ZB5AZ101	
	-	1	Red	XB5AA42	ZB5AA4	ZB5AZ102		
 XB5 AL42	Projecting push		Red	XB5AL42	ZB5AL4	ZB5AZ102		
		-	1					
 XB5 AA4322	Flush push with marking							
	Shape of head	Type of contact	Marking Text (colour)	Colour of push	Complete unit Reference	Head Reference	Body Reference	
		1	-	"I" (white)	Green	XB5AA3311	ZB5AA331	ZB5AZ101
				"O" (white)	Red	XB5AA4322	ZB5AA432	ZB5AZ102
		1	-	↑ (black)	White (1)	XB5AA3341	ZB5AA334	ZB5AZ101
				↓ (white)	Black (1)	XB5AA3351	ZB5AA335	ZB5AZ101
Projecting push with marking								
	-	1	"O" (white)	Red	XB5BL4322	ZB5AL432	ZB5AZ102	

Illuminated pushbuttons with flush push and integral LED

Screw clamp terminal connections

Shape of head	Supply voltage (V)	Colour of push	Complete unit Reference	Head Reference	Body Reference
 XB5 AW31B5 Protected LED	24V a.c./d.c.	White	XB5AW31B5	ZB5AW313	ZB5AW0B15
		Green	XB5AW33B5	ZB5AW333	ZB5AW0B35
		Red	XB5AW34B5	ZB5AW343	ZB5AW0B45
		Orange	XB5AW35B5	ZB5AW353	ZB5AW0B55
		Blue	XB5AW36B5	ZB5AW363	ZB5AW0B65
	110...120V 50/60Hz	White	XB5AW31G5	ZB5AW313	ZB5AW0G15
		Green	XB5AW33G5	ZB5AW333	ZB5AW0G35
		Red	XB5AW34G5	ZB5AW343	ZB5AW0G45
		Orange	XB5AW35G5	ZB5AW353	ZB5AW0G55
		Blue	XB5AW36G5	ZB5AW363	ZB5AW0G65
	230...240V 50/60Hz	White	XB5AW31M5	ZB5AW313	ZB5AW0M15
		Green	XB5AW33M5	ZB5AW333	ZB5AW0M35
		Red	XB5AW34M5	ZB5AW343	ZB5AW0M45
		Orange	XB5AW35M5	ZB5AW353	ZB5AW0M55
		Blue	XB5AW36M5	ZB5AW363	ZB5AW0M65

Double headed pushbuttons (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)



XB5 AL73415

Shape of head	Description	Type of contact		Colour and marking of caps (2)	Reference
		NO	NC		
	2 pushes (1 flush black + 1 projecting red)	1	1	White "I" on green background White "0" on red background	XB5AL73415

Double-headed pushbuttons + 1 white central pilot light block (1)

Screw clamp terminal connections (Schneider Electric anti-retightening system)



XB5 AW73731 • 5

Shape of head	Description	Type of contact		Colour and marking of caps (2)	Pilot light voltage (V)	Reference
		NO	NC			
	1 flush black push	1	1	White "I" on green background	24	XB5AW73731B5
	1 projecting red push			White "0" on red background	120	XB5AW73731G5
	1 white central pilot light block				240	XB5AW73731M5

Mushroom head pushbuttons Ø40 mm

XB5 AC21

Shape of head	Type of contact		Colour of push	Complete unit Reference	Head Reference	Body Reference
	N/O	N/C				
	1	-	Black	XB5AC21	ZB5AC2	ZB5AZ101

Emergency switching off, mechanical latching pushbuttons, Ø40 mm (Red)

XB5 AS542

Shape of head	Type of reset	Type of contact		Complete unit Reference	Head Reference	Body Reference
		N/O	N/C			
	Push-pull	-	1	XB5AT42	ZB5AT4	ZB5AZ102
	Turn to release	-	1	XB5AS542	ZB5AS54	ZB5AZ102
	key release (key no.455)	-	1	XB5AS142	ZB5AS14	ZB5AZ102

(1) Recommended maximum number of contacts constituting the body (fixing collar + contact) associated with the head, see catalogue.

(2) These caps are fitted by Schneider Electric and cannot be removed (risk of damage).

















Control and signalling **Control and signalling units Ø22**

Harmony® XB5, plastic


Selector switches and

illuminated selector switches with integral LED

Selector switches

Type of contact		Positions Number	Type		Complete unit Reference	Head Reference	Body Reference	
N/O	N/C							
Standard handle, black								
	1	-	2-position	Stay put		XB5AD21	ZB5AD2	ZB5AZ101
	1	-	90°	Spring return from right to left		XB5AD41	ZB5AD4	ZB5AZ101
	1	1		Stay put		XB5AD25	ZB5AD2	ZB5AZ105
	2	-	3- position	Stay put		XB5AD33	ZB5AD3	ZB5AZ103
	2	-	±45°	Spring return to centre		XB5AD53	ZB5AD5	ZB5AZ103
Long handle, black								
	1	-	2-position 90°	Stay put		XB5AJ21	ZB5AJ2	ZB5AZ101
	2	-	3- position ±45°	Stay put		XB5AJ33	ZB5AJ3	ZB5AZ103
				Spring return to centre		XB5AJ53	ZB5AJ5	ZB5AZ103
Key switches with key no. 455								
	1	-	2-position 90°	Stay put		XB5AG21	ZB5AG2	ZB5AZ101
						XB5AG41	ZB5AG4	ZB5AZ101
				Spring return to left		XB5AG61	ZB5AG6	ZB5AZ101
	2	-	3- position ±45°	Stay put		XB5AG03	ZB5AG0	ZB5AZ103
						XB5AG33	ZB5AG3	ZB5AZ103

Illuminated selector switches with standard handle, with integral LED

Type of contact		Positions Number	Supply voltage	Colour of handle	Complete unit Reference	Head Reference	Body Reference		
N/O	N/C	Type	(V)						
	1	1	2-position	24V	Green	XB5AK123B5	ZB5AK1233	ZB5AW0B35	
				ac/dc	Red	XB5AK124B5	ZB5AK1243	ZB5AW0B45	
					Orange	XB5AK125B5	ZB5AK1253	ZB5AW0B55	
			90°	110...120V	Green	XB5AK123G5	ZB5AK1233	ZB5AW0G35	
					ac	Red	XB5AK124G5	ZB5AK1243	ZB5AW0G45
						Orange	XB5AK125G5	ZB5AK1253	ZB5AW0G55
					220...240V	Green	XB5AK123M5	ZB5AK1233	ZB5AW0M35
						ac	Red	XB5AK124M5	ZB5AK1243
						Orange	XB5AK125M5	ZB5AK1253	ZB5AW0M55

Pilot lights with integral LED



XB5 AVB1






Shape of head	Supply voltage (V)	Colour	Complete unit Reference	Head Reference	Body Reference		
	24V a.c./ d.c. 50/60 Hz	White	XB5AVB1	ZB5AV013	ZB5AVB1		
		Green	XB5AVB3	ZB5AV033	ZB5AVB3		
		Red	XB5AVB4	ZB5AV043	ZB5AVB4		
		Orange	XB5AVB5	ZB5AV053	ZB5AVB5		
		Blue	XB5AVB6	ZB5AV063	ZB5AVB6		
		White	XB5AVG1	ZB5AV013	ZB5AVG1		
	110...120V 50/60 Hz	Green	XB5AVG3	ZB5AV033	ZB5AVG3		
		Red	XB5AVG4	ZB5AV043	ZB5AVG4		
		Orange	XB5AVG5	ZB5AV053	ZB5AVG5		
		Blue	XB5AVG6	ZB5AV063	ZB5AVG6		
			230...240V 50/60 Hz	White	XB5AVM1	ZB5AV013	ZB5AVM1
				Green	XB5AVM3	ZB5AV033	ZB5AVM3
Red	XB5AVM4			ZB5AV043	ZB5AVM4		
Orange	XB5AVM5			ZB5AV053	ZB5AVM5		
Blue	XB5AVM6			ZB5AV063	ZB5AVM6		

Pilot lights for BA 9s base fitting, with plain lens



XB5 AV63

Shape of head	Supply voltage (V)	Colour	Complete unit Reference	Head Reference	Body Reference
	≤250 d.c.	White	XB5AV61	ZB5AV01	ZB5AV6
		Green	XB5AV63	ZB5AV03	ZB5AV6
		Red	XB5AV64	ZB5AV04	ZB5AV6
		Orange	XB5AV65	ZB5AV05	ZB5AV6
		Direct supply, for BA 9s ulb, U ≤ 250V, 2.4W max. (bulb not included)			
	110...120V 50/60 Hz	White	XB5AV31	ZB5AV01	ZB5AV3
		Green	XB5AV33	ZB5AV03	ZB5AV3
		Red	XB5AV34	ZB5AV04	ZB5AV3
		Orange	XB5AV35	ZB5AV05	ZB5AV3
		Via integral transformer with 1.2 VA, 6 V secondary. BA 9s incandescent bulb (included)			
	230V 50Hz 220...240V 60Hz	White	XB5AV41	ZB5AV01	ZB5AV4
		Green	XB5AV43	ZB5AV03	ZB5AV4
		Red	XB5AV44	ZB5AV04	ZB5AV4
		Orange	XB5AV45	ZB5AV05	ZB5AV4

Accessories: Guards














Description	Application	Colour	Reference
Metal guards Padlockable (1)	For Emergency Stop function only, following Ø 40 trigger-action pushbuttons: XB4BT8, XB4BS8, XB4BS9, XB5AT8, XB5AS8, XB5AS9,	Chromium plated	ZBZ1600
		Black	ZBZ1602
		Red	ZBZ1604
		Yellow	ZBZ1605
		Blue	ZBZ1606

(1) No isolation function is possible when this guard is fitted.

Harmony® XB6, plastic

Spring return illuminated pushbuttons,
with integral LED

Illuminated pushbuttons (with 12...24 V LED included)







	Type of push	Type of contact		Colour of push	Complete unit Reference	Head Reference	Body Reference	
		N/O	N/C					
Flush of push								
 XB6 DW...B		1	-	White	XB6DW1B1B	ZB6DW1	ZB6ZB11B	
				Green	XB6DW3B1B	ZB6DW3	ZB6ZB31B	
				Red	XB6DW4B2B	ZB6DW4	ZB6ZB42B	
	1	1	White	XB6DW1B5B	ZB6DW1	ZB6ZB15B		
			Green	XB6DW3B5B	ZB6DW3	ZB6ZB35B		
			Red	XB6DW4B5B	ZB6DW4	ZB6ZB45B		
	 XB6 CW...B		1	-	White	XB6CW1B1B	ZB6CW1	ZB6ZB11B
					Green	XB6CW3B1B	ZB6CW3	ZB6ZB31B
					Red	XB6CW4B2B	ZB6CW4	ZB6ZB42B
1		1	White	XB6CW1B5B	ZB6CW1	ZB6ZB15B		
			Green	XB6CW3B5B	ZB6CW3	ZB6ZB35B		
			Red	XB6CW4B5B	ZB6CW4	ZB6ZB45B		
 XB6 AW...B			1	-	White	XB6AW1B1B	ZB6AW1	ZB6ZB11B
					Green	XB6AW3B1B	ZB6AW3	ZB6ZB31B
					Red	XB6AW4B2B	ZB6AW4	ZB6ZB42B
	1	1	White	XB6AW1B5B	ZB6AW1	ZB6ZB15B		
			Green	XB6AW3B5B	ZB6AW3	ZB6ZB35B		
			Red	XB6AW4B5B	ZB6AW4	ZB6ZB45B		
	Projecting of push							
	 XB6 DE...B		1	-	Green	XB6DE3B1B	ZB6DE3	ZB6ZB31B
					Red	XB6DE4B2B	ZB6DE4	ZB6ZB42B
		1	-	Green	XB6CE3B1B	ZB6CE3	ZB6ZB31B	
				Red	XB6CE4B2B	ZB6CE4	ZB6ZB42B	
 XB6 CE...B			1	-	Green	XB6AE3B1B	ZB6AE3	ZB6ZB31B
					Red	XB6AE4B2B	ZB6AE4	ZB6ZB42B
	1	1	White	XB6AE1B5B	ZB6AE1	ZB6ZB15B		
			Green	XB6AE3B5B	ZB6AE3	ZB6ZB35B		
 XB6 AE...B		1	-	Red	XB6AE4B5B	ZB6AE4	ZB6ZB45B	

Harmony® XB6, plastic






Illuminated pushbuttons, latching, with integral LED

Pilot lights with integral LED

Illuminated pushbuttons, latching, flush of push (with 12...24 V LED included)







	Type of push	Type of contact		Colour of push	Complete unit Reference	Head Reference	Body Reference
		N/O	N/C				
 XB6 DF...B		1	-	Green	XB6DF3B1B	ZB6DF3	ZB6ZB31B
		-	1	Red	XB6DF4B2B	ZB6DF4	ZB6ZB42B
		1	1	White	XB6DF1B5B	ZB6DF1	ZB6ZB15B
				Green	XB6DF3B5B	ZB6DF3	ZB6ZB35B
				Red	XB6DF4B5B	ZB6DF4	ZB6ZB45B
 XB6 CF...B		1	-	Green	XB6CF3B1B	ZB6CF3	ZB6ZB31B
		-	1	Red	XB6CF4B2B	ZB6CF4	ZB6ZB42B
		1	1	White	XB6CF1B5B	ZB6CF1	ZB6ZB15B
				Green	XB6CF3B5B	ZB6CF3	ZB6ZB35B
				Red	XB6CF4B5B	ZB6CF4	ZB6ZB45B
 XB6 AF...B		1	-	Green	XB6AF3B1B	ZB6AF3	ZB6ZB31B
		-	1	Red	XB6AF4B2B	ZB6AF4	ZB6ZB42B
		1	1	White	XB6AF1B5B	ZB6AF1	ZB6ZB15B
				Green	XB6AF3B5B	ZB6AF3	ZB6ZB35B
				Red	XB6AF4B5B	ZB6AF4	ZB6ZB45B

Pilot lights (with 12...24 V LED included)





	Shape of head	Colour of lens cap	Complete unit Reference	Head Reference	Body Reference
 XB6 DV...BB		White	XB6DV1BB	ZB6DV1	ZB6EB1B
		Green	XB6DV3BB	ZB6DV3	ZB6EB3B
		Red	XB6DV4BB	ZB6DV4	ZB6EB4B
		Yellow	XB6DV5BB	ZB6DV5	ZB6EB5B
 XB6 CV...BB		White	XB6CV1BB	ZB6CV1	ZB6EB1B
		Green	XB6CV3BB	ZB6CV3	ZB6EB3B
		Red	XB6CV4BB	ZB6CV4	ZB6EB4B
		Yellow	XB6CV5BB	ZB6CV5	ZB6EB5B
 XB6 AV...BB		White	XB6AV1BB	ZB6AV1	ZB6EB1B
		Green	XB6AV3BB	ZB6AV3	ZB6EB3B
		Red	XB6AV4BB	ZB6AV4	ZB6EB4B
		Yellow	XB6AV5BB	ZB6AV5	ZB6EB5B

Harmony® XB6, plastic
Pushbuttons, Spring return and
Emergency stop devices






Pushbuttons, spring return with flush push

	Shape of head	Type of contact		Colour	Complete unit		Head		Body	
		N/O	N/C		Reference	Reference	Reference	Reference		
 XB6-DA***B		1	-	White	XB6DA11B	ZB6DA1	ZB6Z1B			
				Green	XB6DA31B	ZB6DA3	ZB6Z1B			
		-	1	Black	XB6DA22B	ZB6DA2	ZB6Z2B			
				Red	XB6DA42B	ZB6DA4	ZB6Z2B			
	1	1	White	XB6DA15B	ZB6DA1	ZB6Z5B				
			Black	XB6DA25B	ZB6DA2	ZB6Z5B				
			Green	XB6DA35B	ZB6DA3	ZB6Z5B				
			Red	XB6DA45B	ZB6DA4	ZB6Z5B				
	 XB6-CA***B		1	-	White	XB6CA11B	ZB6CA1	ZB6Z1B		
					Green	XB6CA31B	ZB6CA3	ZB6Z1B		
-			1	Black	XB6CA22B	ZB6CA2	ZB6Z2B			
				Red	XB6CA42B	ZB6CA4	ZB6Z2B			
1		1	White	XB6CA15B	ZB6CA1	ZB6Z5B				
			Black	XB6CA25B	ZB6CA2	ZB6Z5B				
			Green	XB6CA35B	ZB6CA3	ZB6Z5B				
			Red	XB6CA45B	ZB6CA4	ZB6Z5B				
 XB6-AA***B			1	-	White	XB6AA11B	ZB6AA1	ZB6Z1B		
					Green	XB6AA31B	ZB6AA3	ZB6Z1B		
	-		1	Black	XB6AA22B	ZB6AA2	ZB6Z2B			
				Red	XB6AA42B	ZB6AA4	ZB6Z2B			
	1	1	White	XB6AA15B	ZB6AA1	ZB6Z5B				
			Black	XB6AA25B	ZB6AA2	ZB6Z5B				
			Green	XB6AA35B	ZB6AA3	ZB6Z5B				
			Red	XB6AA45B	ZB6AA4	ZB6Z5B				





Emergency stop trigger action and mechanical latching pushbuttons Ø30 (red)

	Shape of head	Type of contact		Type of reset	Complete unit		Head		Body	
		N/O	N/C		Reference	Reference	Reference	Reference		
 XB6 AS8349B		-	2	Turn to release	XB6AS8349B	ZB6AS834	ZB6Z5B			
 XB6 AS9349B		-	2	Key release (key no. 200)	XB6AS9349B	ZB6AS934	ZB6Z5B			

Selector switches with standard black handle (switching angle: 60°)







	Shape of head	Type of contact		Positions		Complete unit Reference	Head Reference	Body Reference
		N/O	N/C	Number	Type			
 XB6AD...B		1	-	2-stay put		XB6AD221B	ZB6AD22	ZB6Z1B
		1	1	2-stay put		XB6AD225B	ZB6AD22	ZB6Z5B
				3-stay put		XB6AD235B	ZB6AD23	ZB6Z5B

Key switches (Ronis key no. 200) (1)

	Shape of head	Type of contact		Positions		Complete unit Reference	Head Reference	Body Reference
		N/O	N/C	Number	Type			
 XB6AG...B		1	1	2-stay put		XB6AGC5B	ZB6AGC	ZB6Z5B
				3-stay put		XB6AGH5B	ZB6AGH	ZB6Z5B




(1) Key n° 200, withdrawal from all positions.

Pushbuttons

Shape of head	Type of contact		Colour of push	Sold in lots of	Unit Reference	
	N/O	N/C				
Spring return pushbutton without marking						
 XB7 NA31 	Flush	1	-	White	10	XB7NA11
		1	-	Black	10	XB7NA21
		1	-	Green	10	XB7NA31
		1	-	Yellow	10	XB7NA81
		1	1	White	10	XB7NA15
		1	1	Black	10	XB7NA25
		1	1	Green	10	XB7NA35
		1	1	Red	10	XB7NA45
		1	1	Blue	10	XB7NA65
		1	1	Yellow	10	XB7NA85
		-	1	Red	10	XB7NA42
		2	-	Black	10	XB7NA23
		2	-	Green	10	XB7NA33
		-	2	Red	10	XB7NA44
		 XB7 NH2 	Projecting	-	1	Red
1	1			Red	10	XB7NL45
-	2			Red	10	XB7NL44
Latching pushbutton without marking						
 XB7 NH2 	Flush	1	-	Black	10	XB7NH21
		1	-	Green	10	XB7NH31
		1	1	Black	10	XB7NH25
		1	1	Green	10	XB7NH35
		1	-	Yellow	10	XB7NH81

2

Pushbuttons (Continued)

Shape of head	Type of contact		Marking		Colour of push	Sold in lots of	Unit Reference		
	N/O	N/C	Text	colour					
Spring return pushbutton with marking									
 XB7 NA3133	Flush		1	-	I	White	Green	10	XB7NA3131
	1	-	II	White	Green	10	XB7NA3136		
	1	-	START	White	Green	10	XB7NA3133		
	1	-	↓	Black	White	10	XB7NA11343		
	1	-	↑	Black	White	10	XB7NA11341		
	1	-	↓↑	White	Black	10	XB7NA21343		
	1	-	↑↓	White	Black	10	XB7NA21341		
	-	1	O	White	Red	10	XB7NA4232		
	 XB7 NA4234	-	1	STOP	White	Red	10	XB7NA4234	
		2	-	I	White	Green	10	XB7NA3331	
		2	-	II	White	Green	10	XB7NA3336	
		2	-	START	White	Green	10	XB7NA3333	
		1	1	O	White	Red	10	XB7NA4532	
		1	1	STOP	White	Red	10	XB7NA4534	
		1	1	↓	Black	White	10	XB7NA15343	
1		1	↑	Black	White	10	XB7NA15341		
1		1	↓↑	White	Black	10	XB7NA25343		
1		1	↑↓	White	Black	10	XB7NA25341		
 XB7 NL4232	Projecting		-	1	O	White	Red	10	XB7NL4232
	-	1	STOP	White	Red	10	XB7NL4234		
	1	1	O	White	Red	10	XB7NL4532		
	1	1	STOP	White	Red	10	XB7NL4534		

Control and signalling units Ø22

Harmony® XB7

Monolithic pushbuttons, switches and pilot lights

Illuminated pushbuttons, with protecting push and integral LED

With integral LED



Shape of head	Type of push	Colour of lens	Sold in lots of	Unit references (1)			
				24V a.c./d.c.	120V a.c.	230V a.c.	
Spring return push	Spring return push	Green	10	XB7NW33B1	XB7NW33G1	XB7NW33M1	
		Red	10	XB7NW34B1	XB7NW34G1	XB7NW34M1	
			10	XB7NW34B2	XB7NW34G2	XB7NW34M2	
		Orange	10	XB7NW35B1	XB7NW35G1	XB7NW35M1	
		Blue	10	XB7NW36B1	XB7NW36G1	XB7NW36M1	
		Clear	10	XB7NW37B1	XB7NW37G1	XB7NW37M1	
		Yellow	10	XB7NW38B1	XB7NW38G1	XB7NW38M1	
	Latching push	Latching push	Green	10	XB7NJ03B1	XB7NJ03G1	XB7NJ03M1
			Red	10	XB7NJ04B1	XB7NJ04G1	XB7NJ04M1
				10	XB7NJ04B2	XB7NJ04G2	XB7NJ04M2
			Orange	10	XB7NJ05B1	XB7NJ05G1	XB7NJ05M1
			Blue	10	XB7NJ06B1	XB7NJ06G1	XB7NJ06M1
			Clear	10	XB7NJ07B1	XB7NJ07G1	XB7NJ07M1
			Yellow	10	XB7NJ08B1	XB7NJ08G1	XB7NJ08M1

With BA 9s base fitting (2)



Shape of head	Type of push	Colour of lights	Sold in lots of	Unit references (1)	
Spring return push	Spring return push	Green	10	XB7NW3361	
		Red	10	XB7NW3461	
		Orange	10	XB7NW3561	
		Blue	10	XB7NW3661	
		Clear	10	XB7NW3761	
		Yellow	10	XB7NW3861	
		Latching push	Latching push	Green	10
	Red			10	XB7NJ0461
	Orange			10	XB7NJ0561
	Blue			10	XB7NJ0661
	Clear			10	XB7NJ0761
	Yellow			10	XB7NJ0861

(1) All product references ending in "1" are for products with "NO" contacts (example: **XB7NW34B1**).

All product references ending in "2" are for products with "NC" contacts (example: **XB7 NW34B2**)

(2) Bulb, 1.2W maximum, to be ordered separately.

2

Pilot lights

With integral LED



With integral LED Shape of head	Type of light source (included)	Supply voltage (V)	Colour of lens	Sold in lots of	Unit reference
	Integral LED	24V a.c./d.c.	Green	10	XB7EV03BP
			Red	10	XB7EV04BP
			Yellow	10	XB7EV05BP
			Blue	10	XB7EV06BP
			Clear	10	XB7EV07BP
			Orange	10	XB7EV08BP
		120V a.c.	Green	10	XB7EV03GP
			Red	10	XB7EV04GP
			Yellow	10	XB7EV05GP
			Blue	10	XB7EV06GP
			Clear	10	XB7EV07GP
			Orange	10	XB7EV08GP
		230V a.c.	Green	10	XB7EV03MP
			Red	10	XB7EV04MP
			Yellow	10	XB7EV05MP
			Blue	10	XB7EV06MP
			Clear	10	XB7EV07MP
			Orange	10	XB7EV08MP

With BA 9s base fitting (2)







Shape of head	Supply	Supply voltage (V)	Colour of lens	Sold in lots of	Unit reference
	Direct, through resistor, for bulb (included) 130V, 2.6W max.	230V~, 50-60 Hz	Green	10	XB7EV73P
			Red	10	XB7EV74P
			Yellow	10	XB7EV75P
			Blue	10	XB7EV76P
			Clear	10	XB7EV77P
			Orange	10	XB7EV78P
	Direct for BA 9s base fitting incandescent bulb (1)	≤ 250V (2)	Green	10	XB7EV63P
			Red	10	XB7EV64P
			Yellow	10	XB7EV65P
			Blue	10	XB7EV66P
			Clear	10	XB7EV67P
			Orange	10	XB7EV68P



(1) Bulb is not included.

(2) Bulb characteristics for direct supply pilot lights: 2.6 W maximum.

Selector switches and key switches

Shape of head	Type of operator	Type of Contact		Number and type of positions (1)	Sold in lots of	Unit Reference	
		NO	NC				
 XB7 ND2		Standard handle. black	1	-	2, stay put	10	XB7ND21
			1	1	2, stay put	10	XB7ND25
			2	-	3, stay put	10	XB7ND33
 XB7 NG31		Key (key n° 455)	1	-	2, key withdrawal in LH position	10	XB7NG21
			2	-	3, key withdrawal in centre position	10	XB7NG33

Ø 40mm Emergency switching off and mechanically latching mushroom head pushbuttons

Shape of head	Type of push	Type of Contact		Colour of push	Sold in lots of	Unit Reference	
		NO	NC				
 XB7 ES54P		Turn to release	-	1	Red	10	XB7ES542P
			1	1	Red	10	XB7ES545P
		Key release (key n° 455)	-	1	Red	10	XB7ES142P
			1	1	Red	10	XB7ES145P

Control stations

Control stations XAL

For Harmony® XB5 plastic Ø 22 control and signalling units
Complete stations (screw clamp terminal connections)

Start or Stop function (light grey base "RAL 7035", dark grey lid "RAL 7016")



XAL-D102



XAL-D115



XAL-D164

Description	Type of push	Type of contacts		Marking	Reference
		N/O	N/C		
Marking on pushbutton					
1 spring return pushbutton	Flush green	1	-	I	XALD102
				Start	XALD103
		1	1	I	XALD102E
Marking on legend holder and legend below head					
1 spring return pushbutton	Flush green	1	-	Start	XALD101H29
	Flush red	-	1	Stop	XALD111H29
Marking on legend below head					
1 mushroom head pushbutton Ø 40mm spring return	Red	-	1	Arrêt	XALD164

Emergency Stop function (light grey base "RAL 7035", yellow lid "RAL 1012")



XAL-K174



XAL-K184



XAL-K194

Description	Type	Type of contacts		Marking	Reference
		N/O	N/C		
Unmarked					
1 mushroom head pushbutton Ø 40mm, red Turn to release	Standard	-	1	-	XALK174
		-	2	-	XALK174F
		1	1	-	XALK174E
	Trigger action	1	2	-	XALK174G
		-	2	-	XALK178F
		1	1	-	XALK178E
		1	2	-	XALK178G
1 mushroom head pushbutton Ø 40mm, red Key release (key n° 455)	Standard	-	1	-	XALK184
		-	2	-	XALK184F
		1	1	-	XALK184E
	Trigger action	1	2	-	XALK184G
		-	2	-	XALK188F
		1	1	-	XALK188E
		1	2	-	XALK188G
1 mushroom head pushbutton Ø 40mm, red Push-pull	Standard	-	1	-	XALK194

Control stations

Control stations XAL

For Harmony® XB5 plastic Ø 22 control and signalling units

Complete stations (screw clamp terminal connections)

Start-Stop function (light grey base "RAL 7035", dark grey lid "RAL 7016")

Description	Type of push	Type of contacts		Marking	Reference
		N/O	N/C		
Marking on pushbutton					
2 spring return pushbutton	1 flush green	1	-	I	XALD213
	1 flush red	-	1	O	XALD215
		1	1	I	XALD213E
		1	1	O	XALD214
	1 flush green	1	-	I	XALD214
	1 projecting red	-	1	O	XALD225
				Start	XALD215
				Stop	XALD215



XAL-D211H29

Marking on legend holder and legend below head

2 spring return pushbutton	1 flush green	1	-	Start	XALD211H29
	1 flush red	-	1	Stop	XALD211H29
1 selector switch 2-position stay put	Standard handle	1	-	O - I	XALD134



XAL-D363B

Description	Type of push	Type of contacts		Marking	Pilot light supply	Reference
		N/O	N/C			
With pilot light and marking on pushbutton						
2 spring return pushbuttons and 1 pilot light with integral red LED	1 flush green	1	-	I	~ 24	XALD363B
	1 flush red	-	1	O	~ 120	XALD363G
					~ 230	XALD363M

Two function (light grey base "RAL 7035", dark grey lid "RAL 7016")

Description	Type of push	Type of contacts		Marking	Reference
		N/O	N/C		
Marking on pushbutton					
2 spring return pushbuttons	1 flush white	1	-	↑	XALD222
	1 flush black	1	-	↓	XALD223
				→	XALD223
				←	XALD222E
		1	1	↑	XALD222E
		1	1	↓	XALD222E



XAL-D222

Three function (light grey base "RAL 7035", dark grey lid "RAL 7016")

Description	Type of push	Type of contacts		Marking	Reference
		N/O	N/C		
Marking on pushbutton					
3 spring return pushbuttons	1 flush green	1	-	I	XALD339
	1 flush red	-	1	O	XALD324
	1 flush green	1	-	II	XALD324
	1 flush white	1	-	↑	XALD324
	1 flush red	-	1	○	XALD325
	1 flush black	1	-	↓	XALD325
	1 flush white	1	-	↑	XALD325
	1 flush projecting red	-	1	○	XALD328
	1 flush black	1	-	↓	XALD328
2 spring return pushbuttons	1 flush white	1	-	↑	XALD328
	1 mushroom	-	1	○	XALD328
+ 1 latching mushroom head pushbutton Ø 30mm	head red (1)	1	-	↓	XALD328
	1 flush black				XALD328



XAL-D339

(1) Standard "turn to release".

Control stations

Control stations XAL

For Harmony® XB5 plastic Ø 22 control and signalling units
Stations for customer assembly

Empty enclosures



XAL-D02

Description	Nos. of ways	Yellow lid "RAL 1012" for Emergency stop function		Dark grey lid "RAL 7016"
		Reference	Reference	Reference
For normal environments (with stainless steel lid fixing screws)				
Light grey base	1	XALK01		XALD01
"RAL 7035"	2	XALK02		XALD02
	3	XALK03		XALD03
	4	XALK04		XALD04
	5	XALK05		XALD05

Electrical blocks and accessories (for mounting on metal plate at back of enclosure)



ZEN-L1111



ZAL-VB

Description	Type	Colour	Sold in lots of	Unit reference
Electrical blocks with screw clamp terminal connections				
Standard contact blocks (1)	N/O contact	-	5	ZENL1111
	N/C contact	-	5	ZENL1121
Light blocks with integral LED (1)	24V a.c./d.c.	White	5	ZALVB1
		Green	5	ZALVB3
		Red	5	ZALVB4
		Yellow	5	ZALVB5
		Blue	5	ZALVB6
		48...120V a.c.	White	5
	Green	5	ZALVG3	
	Red	5	ZALVG4	
	Yellow	5	ZALVG5	
	Blue	5	ZALVG6	
	230...240V a.c.	White	5	ZALVM1
		Green	5	ZALVM3
		Red	5	ZALVM4
		Yellow	5	ZALVM5
Blue	5	ZALVM6		
Accessories for electrical blocks			Sold in lots of	Unit reference
Nut	For use with Head fixing		10	ZB5AZ901

(1) A maximum of 3 electrical blocks may be fitted per associated head.

Unmarked heads for spring return pushbuttons



ZB5 CA2

Shape of head	Colour of cap	Projecting Reference	Flush Reference
	White	ZB5CL1	ZB5CA1
	Black	ZB5CL2	ZB5CA2
	Green	ZB5CL3	ZB5CA3
	Red	ZB5CL4	ZB5CA4
	Yellow	ZB5CL5	ZB5CA5
	Blue	ZB5CL6	ZB5CA6

Heads for pilot lights

Shape of head	Colour	Reference
	For use with bodies comprising a light block	White ZB5CV013
	With integral LED	Green ZB5CV033
		Red ZB5CV043
		Yellow ZB5CV053
		Blue ZB5CV063
		5 colours (2) ZB5CV003

Heads for spring return illuminated pushbuttons



ZB5 CW313

Shape of head	Type of push	Colour	Reference
	For use with bodies comprising a light block with integral LED	Flush for insertion of legend	White ZB5CW313
			Green ZB5CW333
			Red ZB5CW343
			Yellow ZB5CW353
			Blue ZB5CW363

(2) Head supplied with 5 coloured lenses (white, green, red, yellow, blue) for insertion of a legend.

Signaling solutions

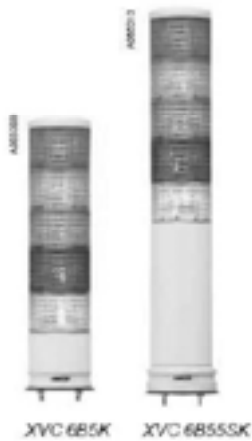
Harmony XVC Monolithic tower lights
 Ø 40 and Ø 60 mm, complete pre-wired
 tower lights

Complete, pre-wired tower lights Ø 40 mm



Description	Light source (included)	Voltage V	Signaling colours (1)		Reference
			Steady	Flashing (2)	
For support tube mounting, 17 mm					
Without buzzer	LED for steady light only	≈ 24	R	–	XVC4B1
			R, O	–	XVC4B2
			R, O, G	–	XVC4B3
			R, O, G, B	–	XVC4B4
			R, O, G, B, C	–	XVC4B5
With buzzer + flashing light	LED for steady or flashing light	≈ 24	R	R	XVC4B15S
			R, O	R, O	XVC4B25S
			R, O, G	R, O, G	XVC4B35S
			R, O, G, B	R, O, G, B	XVC4B45S
			R, O, G, B, C	R, O, G, B, C	XVC4B55S
For base mounting					
Without buzzer	LED for steady light only	≈ 24	R	–	XVC4B1K
			R, O	–	XVC4B2K
			R, O, G	–	XVC4B3K
			R, O, G, B	–	XVC4B4K
			R, O, G, B, C	–	XVC4B5K
Accessories for support tube mounting					
Description	Diameter mm	Minimum height to be added mm			Reference
Metal fixing plate	90	32			XVCZ11
Plastic fixing plate	84	24.5			XVCZ01

Complete, pre-wired tower lights Ø 60 mm



Description	Light source (included)	Voltage V	Signaling colours (1)		Reference
			Steady	Flashing (2)	
For support tube mounting, 22 mm					
Without buzzer	LED for steady light only	≈ 24	R	–	XVC6B1
			R, O	–	XVC6B2
			R, O, G	–	XVC6B3
			R, O, G, B	–	XVC6B4
			R, O, G, B, C	–	XVC6B5
With buzzer + flashing light	LED for steady or flashing light	≈ 24	R	R	XVC6B15S
			R, O	R, O	XVC6B25S
			R, O, G	R, O, G	XVC6B35S
			R, O, G, B	R, O, G, B	XVC6B45S
			R, O, G, B, C	R, O, G, B, C	XVC6B55S
For base mounting					
Without buzzer	LED for steady light only	≈ 24	R	–	XVC6B1K
			R, O	–	XVC6B2K
			R, O, G	–	XVC6B3K
			R, O, G, B	–	XVC6B4K
			R, O, G, B, C	–	XVC6B5K
With buzzer + flashing light	LED for steady or flashing light	≈ 24	R	R	XVC6B15SK
			R, O	R, O	XVC6B25SK
			R, O, G	R, O, G	XVC6B35SK
			R, O, G, B	R, O, G, B	XVC6B45SK
			R, O, G, B, C	R, O, G, B, C	XVC6B55SK
Accessories for support tube mounting					
Description	Diameter mm	Minimum height to be added mm			Reference
Metal fixing plate for XVC6B• and XVC6B•5S	100	30			XVCZ02
Metal fixing plate for XVC6B• K and XVC6B•5SK	81	21.6			XVCZ12

(1) Signaling colours: R: Red, G: Green, O: Orange, B: Blue, C: Clear. The colours are listed in the same order as the mounting order of the illuminated units (from top to bottom).

(2) Flashing function can be simply selected/programmed by wiring.

Illuminated units for incandescent bulbs or LEDs

Description	Light source (to be ordered separately)	Colour	Reference
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Illuminated units with steady light signalling

Illuminated units	Incandescent bulb 7W max. or LED	Green	XVBC33
		Red	XVBC34
		Orange	XVBC35
		Blue	XVBC36
		Clear	XVBC37
		Yellow	XVBC38

Illuminated units with integral flashing light signalling

Illuminated units	Incandescent bulb 7W max. ~ 24V ≈ 24...48V or LED	Green	XVBC4B3	
		Red	XVBC4B4	
		Orange	XVBC4B5	
		Blue	XVBC4B6	
		Clear	XVBC4B7	
		Yellow	XVBC4B8	
		Incandescent bulb 7W max. ~ 48...230V or LED	Green	XVBC4M3
			Red	XVBC4M4
	Orange		XVBC4M5	
	Blue		XVBC4M6	
	Clear		XVBC4M7	
	Yellow		XVBC4M8	

Illuminated units with integral LED

Description	Voltage	Colour	with steady light	with flashing light	
			Reference	Reference	
Illuminated units with integral LED	≈ 24V	Green	XVBC2B3	XVBC5B3	
		Red	XVBC2B4	XVBC5B4	
		Orange	XVBC2B5	XVBC5B5	
		Blue	XVBC2B6	XVBC5B6	
		Clear	XVBC2B7	XVBC5B7	
		Yellow	XVBC2B8	XVBC5B8	
		~ 120V	Green	XVBC2G3	XVBC5G3
			Red	XVBC2G4	XVBC5G4
	Orange		XVBC2G5	XVBC5G5	
	Blue		XVBC2G6	XVBC5G6	
	Clear		XVBC2G7	XVBC5G7	
	Yellow		XVBC2G8	XVBC5G8	
	~ 230V		Green	XVBC2M3	XVBC5M3
			Red	XVBC2M4	XVBC5M4
		Orange	XVBC2M5	XVBC5M5	
		Blue	XVBC2M6	XVBC5M6	
Clear		XVBC2M7	XVBC5M7		
Yellow		XVBC2M8	XVBC5M8		

(1) To order an illuminated unit with integral LED pre-fitted with light diffuser XVBCZ18 (\$XX), add the letter "D" to the end of the reference. Example XVBC2B3D.



XVBC3



XVBC4



XVBC2



XVBC5

Protected
LED

Illuminated units with integral "flash" discharge tube



Description	Light source	Colour	with 5 Joule "flash" discharge tube	with 10 Joule "flash" discharge tube	
			Reference	Reference	
Illuminated units with integral LED Protected LED	≈ 24V	Green	XVBC6B3	XVBC8B3	
		Red	XVBC6B4	XVBC8B4	
		Orange	XVBC6B5	XVBC8B5	
		Blue	XVBC6B6	XVBC8B6	
		Clear	XVBC6B7	XVBC8B7	
		Yellow	XVBC6B8	XVBC8B8	
		~ 120V	Green	XVBC6G3	XVBC8G3
			Red	XVBC6G4	XVBC8G4
	Orange		XVBC6G5	XVBC8G5	
	Blue		XVBC6G6	XVBC8G6	
	Clear		XVBC6G7	XVBC8G7	
	Yellow		XVBC6G8	XVBC8G8	
	~ 230V		Green	XVBC6M3	XVBC8M3
			Red	XVBC6M4	XVBC8M4
		Orange	XVBC6M5	XVBC8M5	
		Blue	XVBC6M6	XVBC8M6	
Clear		XVBC6M7	XVBC8M7		
Yellow		XVBC6M8	XVBC8M8		

Audible units



Description	Characteristics	Reference
Buzzer, 90dB at 1 m	≈ 12...48V	XVBC9B
Adjustable: - 70 or 90 dB - continuous or inte tone using microswitch	~ 120...230V	XVBC9M

Base units (for direct or tube fixing)



Description	For use with	Type	Reference
Base unit + cover with bottom or side cable entry	Banks without "flash" discharge tube unit	Standard	XVBC21
Base unit only with bottom or side cable entry	Banks with "flash" discharge tube unit	Standard	XVBC07
Base unit + cover with side cable entry	All types of bank	AS-Interface	XVBC21A
Base unit + cover with bottom entry, pre-cabled (length 1m) and fitted with M12 end connector	All types of bank	AS-Interface	XVBC21B

Accessories specific to indicator banks XVBC C

Description	Application	Unit reference
Cover only	For use with XVBC2, XVBC3, XVBC4 XVBC5 and XVBC9	XVBC081
Set of 6 coloured markers	For identification of the position of units in the event of dismantling the bank	XVBC22
Set of 5 legend holders	For identification of stacked units on base unit	XVBC23
Sheet of 85 legends	For use with base unit legend holder XVBC C23	XVBCY1
Sheet of 52 legends	For identification of stacked units, used on locking ring	XVBCY2
Adaptor for side entry through base unit	With 13P cable gland	XVBC14

Signaling solutions

Harmony XVBC Modular tower lights

Ø 70 mm, for customer assembly

2



Description	Height under base unit (mm)	Colour	Reference
Fixing bases comprising Ø 25 mm aluminium support tube glued into a black plastic fixing plate	80	Black aluminium	XVBZ02
		Aluminium	XVBZ02A
	380	Black aluminium	XVBZ03
		Aluminium	XVBZ03A
	780	Black aluminium	XVBZ04
		Aluminium	XVBZ04A

Description	For use with	Material	Reference
Support tube concealment cover	Support tubes XVB Z02, XVB Z02A	ABS	XVBC020
	Support tubes XVB Z03, XVB Z03A	ABS	XVBC030
	Support tubes XVB Z04, XVB Z04A	ABS	XVBC040
Fixing plate for use on horizontal support	Ø 25 mm aluminium support tube	Plastic	XVBZ01



Fixing plate for use on vertical support	Base unit (direct mounting), fixing plate XVB Z01 or fixing bases XVB Z0.	Zamak	XVBC12
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Description	Characteristics		Sold in lot of	Unit reference
Incandescent bulbs BA 15d base fitting	12 V	7 W	10	DL1BEJ
	24 V	6.5 W	10	DL1BEB
	48 V	6 W	10	DL1BEE
	120 V	7 W	10	DL1BEG
	230 V	7 W	10	DL1BEM



LEDs BA 15d base fitting	Voltage	Colour	Quantity			
			Per lot	Reference		
~ 24V		Green	1	DL1BDB3		
		Red	1	DL1BDB4		
		Orange	1	DL1BDB5		
		Blue	1	DL1BDB6		
		Yellow	1	DL1BDB8		
		~ 120V		Green	1	DL1BDG3
				Red	1	DL1BDG4
				Orange	1	DL1BDG5
Blue	1			DL1BDG6		
~ 230V		Yellow	1	DL1BDG8		
		Green	1	DL1BDM3		
		Red	1	DL1BDM4		
		Orange	1	DL1BDM5		
		Blue	1	DL1BDM6		
		Yellow	1	DL1BDM8		



Flashing LEDs BA 15d base fitting	Voltage	Colour	Quantity	
			Per lot	Reference
~ 24V		Green	1	DL1BKB3
		Red	1	DL1BKB4
		Orange	1	DL1BKB5
		Blue	1	DL1BKB6
		Yellow	1	DL1BKB8
~ 120V		Green	1	DL1BKG3
		Red	1	DL1BKG4
		Orange	1	DL1BKG5
		Blue	1	DL1BKG6
		Yellow	1	DL1BKG8
~ 230V		Green	1	DL1BKM3
		Red	1	DL1BKM4
		Orange	1	DL1BKM5
		Blue	1	DL1BKM6
		Yellow	1	DL1BKM8



Beacons for customer assembly



XVD-L3



XVD-L4B

Description	Light source, to be ordered separately		Colour	Reference
With steady light signalling				
Beacon	incandescent bulb	250 V max	Green	XVDL33
comprising:	10W max.		Red	XVDL34
1 illuminated unit	or LED		Orange	XVDL35
1 base unit			Blue	XVDL36
			Clear	XVDL37
			Yellow	XVDL38
With integral flashing light signalling				
Beacon	incandescent bulb	24 Vac	Green	XVDL4B3
comprising:	10W max.	24...48 Vdc	Red	XVDL4B4
1 illuminated unit	or LED		Orange	XVDL4B5
1 base unit			Blue	XVDL4B6
			Clear	XVDL4B7
			Yellow	XVDL4B8
	incandescent bulb	48...230 Vac	Green	XVDL4M3
	10W max.		Red	XVDL4M4
	or LED		Orange	XVDL4M5
			Blue	XVDL4M6
			Clear	XVDL4M7
			Yellow	XVDL4M8

Indicator banks for customer assembly of 1 to 5 signalling units

With steady light signalling				
Illuminated units	incandescent bulb	250 V max	Green	XVDC33
	10W max.		Red	XVDC34
	or LED		Orange	XVDC35
			Blue	XVDC36
			Clear	XVDC37
			Yellow	XVDC38
With integral flashing light signalling				
Illuminated units	incandescent bulb	24 Vac	Green	XVDC4B3
	10W max.	24...48 Vdc	Red	XVDC4B4
	or LED		Orange	XVDC4B5
			Blue	XVDC4B6
			Clear	XVDC4B7
			Yellow	XVDC4B8
		48...230 Vac	Green	XVDC4M3
			Red	XVDC4M4
			Orange	XVDC4M5
			Blue	XVDC4M6
			Clear	XVDC4M7
			Yellow	XVDC4M8



XVD-C4

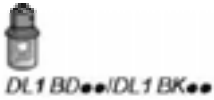


XVD-C9



XVD-C07

Audible signalling units				
Description	(V)			Reference
Buzzer, 90 dB at 1 m	12...48 Vac/dc			XVDC9B
Adjustable (75 or 90dB)				
continuous or intermittent tone, using microswitch	120...230 Vac			XVDC9M
Base units for direct or tube fixing				
Description	For use with	Type		Reference
Base unit + cover	Banks without "flash"	Standard		XVDC21
with bottom or side cable entry	discharge tube unit			
Base unit only	Banks with "flash"	Standard		XVDC07
with bottom or side cable entry	discharge tube			
Screw for assembling signalling units on base unit	Banks without "flash"	1 unit		XVDC03
	discharge tube unit	2 units		XVDC04
		3 units		XVDC05
		4 units		XVDC06
		5 units		XVDC08



Description	Height under base unit (mm)	Colour	Reference
Fixing bases comprising Ø 25 mm aluminium support tube glued into a black plastic fixing plate	80	Black aluminium	XVBZ02
		Aluminium	XVBZ02A
	380	Black aluminium	XVBZ03
		Aluminium	XVBZ03A
	780	Black aluminium	XVBZ04
		Aluminium	XVBZ04A






Description	For use with	Material	Reference
Fixing plate for use on horizontal support	Ø 25 mm aluminium support tube	Plastic	XVDC02
Fixing plate for use on vertical support	Base unit (direct mounting), fixing plate XVB Z01 or fixing bases XVB Z0.	Zamak	XVBC12

Description	Characteristics		Sold in lot of	Unit reference
Incandescent bulbs BA 15d base fitting 10W	12 V	7 W	10	DL1BLJ
	24 V	6.5 W	10	DL1BLB
	48 V	6 W	10	DL1BLE
	120 V	7 W	10	DL1BLG
	230 V	7 W	10	DL1BLM

LEDs BA 15d base fitting	Voltage	Colour	Quantity	Unit reference
≈ 24V		Green	1	DL1BDB3
		Red	1	DL1BDB4
		Orange	1	DL1BDB5
		Blue	1	DL1BDB6
		Yellow	1	DL1BDB8
~ 120V		Green	1	DL1BDG3
		Red	1	DL1BDG4
		Orange	1	DL1BDG5
		Blue	1	DL1BDG6
		Yellow	1	DL1BDG8
~ 230V		Green	1	DL1BDM3
		Red	1	DL1BDM4
		Orange	1	DL1BDM5
		Blue	1	DL1BDM6
		Yellow	1	DL1BDM8

Flashing LEDs BA 15d base fitting	Voltage	Colour	Quantity	Unit reference
≈ 24V		Green	1	DL1BKB3
		Red	1	DL1BKB4
		Orange	1	DL1BKB5
		Blue	1	DL1BKB6
		Yellow	1	DL1BKB8
~ 120V		Green	1	DL1BKG3
		Red	1	DL1BKG4
		Orange	1	DL1BKG5
		Blue	1	DL1BKG6
		Yellow	1	DL1BKG8
~ 230V		Green	1	DL1BKM3
		Red	1	DL1BKM4
		Orange	1	DL1BKM5
		Blue	1	DL1BKM6
		Yellow	1	DL1BKM8

Complete, pre-wired rotating mirror beacons

	Diameter mm	Sound option	IP degree of protection	Voltage V	Colour	Reference						
 XVR 08***	Ø 84	Without buzzer	IP 23 (IP 65 With accessories)	~ 12	Red	XVR08J04						
					Orange	XVR08J05						
					Green	XVR08J03						
					Blue	XVR08J06						
					Red	XVR08B04						
					Orange	XVR08B05						
				~ 24	Green	XVR08B03						
					Blue	XVR08B06						
					 XVR 10***	Ø 106	Without buzzer	IP 23 (IP 55 With accessories)	~ 12	Red	XVR10J04	
										Orange	XVR10J05	
										Green	XVR10J03	
										Blue	XVR10J06	
Red	XVR10B04											
Orange	XVR10B05											
~ 24	Green	XVR10B03										
	Blue	XVR10B06										
	 XVR 12***	Ø 120	Without buzzer	IP 23					~ 12	Red	XVR12J04	
										Orange	XVR12J05	
										Green	XVR12J03	
										Blue	XVR12J06	
Red					XVR12B04							
Orange					XVR12B05							
~ 24					Green	XVR12B03						
					Blue	XVR12B06						
					 XVR 12S***	Ø 120	With buzzer	IP 23	~ 12	Red	XVR12J04S	
										Orange	XVR12J05S	
										Green	XVR12J03S	
										Blue	XVR12J06S	
Red	XVR12B04S											
Orange	XVR12B05S											
~ 24	Green	XVR12B03S										
	Blue	XVR12B06S										
	 XVR 13***	Ø 130	Without buzzer	IP 23 Resistant to vibration					≡ 12	Red	XVR13J04	
										Orange	XVR13J05	
										≡ 24	Red	XVR13B04
											Orange	XVR13B05
~ 120					Red	XVR13G04L						
					Orange	XVR13G05L						
					~ 230	Red	XVR13M04L					
						Orange	XVR13M05L					

Accessories for rotating mirrors

Description	Diameter mm	Height mm	Reference
Reflecting prism	84	–	XVRZR1
	106	–	XVRZR2
	120/130	–	XVRZR3
Rubber base for increasing the IP degree	84	–	XVRZ081
	106	–	XVRZ082
Metal angle bracket for mounting on horizontal support	84, 106, 120	–	XVCZ23
Metal fixing plate with aluminium expansion tube for mounting on horizontal support	106, 120	300	XVCZ13



XVS 14BMW

Description	Voltage V	Colour	Reference
Multisound siren 105 dB, 43 tones	12/24	White	XVS14BMW
	120 VAC	White	XVS14GMW
	120 - 230 VAC	White	XVS14MMW
Electronic alarms 90 dB, 16 tones Panel Mount DIN72	≈ 12 /24	PNP, Black	XVS72BMBP
		PNP, White	XVS72BMWP
		PNP, White	XVS72BMBN
		NPN, White	XVS72BMWN



XVS 72EM

Pendant control stations

Double insulated, type XAC-A

For control circuits

Empty enclosures and separate components

Empty enclosures



Description	Number of ways	Reference
Enclosure comprising:	2	XACA02
- the enclosure,	3 (1)	XACA03
- internal mounting plate,	4	XACA04
- cable sleeve for Ø 8 to 26mm cable,	5 (1)	XACA05
- internal cable clamp,	6	XACA06
- suspension ring,	8	XACA08
- cable tie (for tightening sleeve onto cable).	12	XACA12

Contact blocks for front mounting

Description	Application	Function	Reference
Single block,	Single	N/O	ZB2BE101
spring return	speed	N/C	ZB2BE102
slow break		N/C + N/O + N/O simultaneous (2)	XENG1491
	2 speed	N/C + N/O + N/O staggered (2)	XENG1191

Isolating switch,slow break,for front mounting



For mounting in enclosure	Application	Function	Reference
XACA03 (frontal cut-out)	"Emergency stop"	N/C + N/C + N/C with positive opening operation	XENT1192
XACA,A06, A08 (frontal or base cut-out)			

Contact blocks for base mounting



Description	Function	Reference
Spring return	N/O	XACS101
slow break (4)	N/C	XACS102
	N/O + N/O	XACS103
	N/C + N/C	XACS104
	N/C + N/O	XACS105

Pilot light bodies for front mounting



Description	Supply voltage	Reference
Direct supply	<=400V	ZB2BV006
Bulb not included (5)		
Direct supply,through resistor	230V	ZB2BV007
Incandescent BA 9s base fitting 130 V bulb supplied		

(1) Enclosures with 3 cut-outs XACA03 and 5 cut-outs XACA05 cannot be fitted with a mounting adaptor for base mounted units.

(2) Only for use with XACA9 III operators.

(3) Not suitable for use with the following operating heads: ZA2BB,ZA2BD,ZA2BG and ZA2BS.

(4) Not suitable for use with 3-position operating heads ZA2-BD and ZA2BG or for mounting in enclosure XACA039 and XACA03.

(5) Bulb types for use with direct supply:BA9s base fitting incandescent bulb $U \leq 130$ V or neon bulb $110V \leq U \leq 400V$; maximum power 2.6W, maximum Ø 11mm, maximum length 28mm.

Pendant control stations

Double insulated, type XAC-A

For control circuits

Separate components

Operating heads for front mounting



Description	Colour	Sold in lot of	Reference
Booted operators, complete	White	10	XACA9411
	Black	10	XACA9412
	Green	10	XACA9413
	Red	10	XACA9414
	Yellow	10	XACA9415
	Blue	10	XACA9416
	Brown	10	XACA9419

Operating heads for front or base mounting



Description	Colour	Type	Reference
Mushroom head, trigger action, latching Turn to release (Emergency stop)	Red	Ø 30mm	ZA2BS834
		Ø 40mm	ZA2BS844
Selector switches, standard handle (Not to be used with XENGIIII contact blocks)	Black	2 position stay put	ZA2BD2
		3 position stay put (1)	ZA2BD3
Key switches (Ronis key n° 455) Key withdrawal in left and right hand positions	-	2 position stay put	ZA2BG4
		3 position stay put (1)	ZA2BG5
Wobblesticks (2) Operates in all directions for "Fast stop" function	Black	-	ZA2BB2
	Red	-	ZA2BB4

Pilot light heads



Description	Colour	Reference
For use with incandescent bulbs		
Lens cap with fixing bezel	White	ZA2BV01
	Green	ZA2BV03
	Red	ZA2BV04
	Yellow	ZA2BV05
	Blue	ZA2BV06
	Clear	ZA2BV07
	For use with neon bulbs	
Lens cap with fixing bezel	Green	ZA2BV033
	Red	ZA2BV043
	Yellow	ZA2BV053
	Clear	ZA2BV073

(1) Only suitable for front mounting

(2) Base mounting recommended

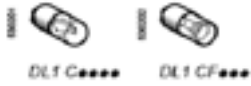
Pendant control stations

Double insulated, type XAC-A

For control circuits

Bulbs, complementary accessories, tools and legend plates

Bulbs (Sold in lots of 10)



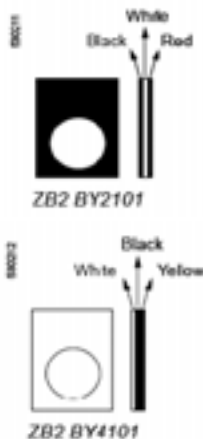
Description	Voltage	Sold in lots of	Reference
Incandescent	6V	10	DL1CB006
BA 9s base fitting	12V	10	DL1CE012
Maximum power : 2.6W	24V	10	DL1CE024
Maximum Ø: 11mm	48V	10	DL1CE048
Maximum length: 28mm	130V	10	DL1CE130
Neon	110V	10	DL1CF110
BA 9s base fitting	230V	10	DL1CF220
Maximum power : 2.6W	400V	10	DL1CF380
Maximum Ø: 11mm			
Maximum length: 28mm			

Complementary accessories, tools



Description	Reference
Protective cable sleeve	
For cable Ø 8 to 22mm	XACA950
For cable Ø 8 to 26mm	XACA960
Mechanical interlock for 2 operators	XACA009
with fixing screws	
Blanking plug	ZB2S23
With seal and fixing nut	
Adaptor for self-support cable type BBAP	XACB961
Mounted with protective sleeve for cable Ø 8 to 26mm	
Lower support ting	XACA971
-	
Protective guards for base mounted units	XACA982
For selector switch (std. Handle)	
or mushroom head pushbutton	
For key switch or key release latching mushroom head pushbutton	XACA983
Bulb extractor	XBFX13
For BA 9s base fitting bulbs	

Legend plates 30x40mm with symbols conforming to NF E 52-124



Text	Reference	Price(S\$)	Text	Reference
"Start" functions: white characters on black background.				
"Stop" functions: white characters on red background.				
Blank				
Black or red background	ZB2BY2101		White or yellow background	ZB2BY4101
With standard English texts			With special text (to be specified when ordering)	
For pushbuttons			2 lines maximum, 11 characters per line	
Start	ZB2BY2303		White characters on black background	ZB2BY2002
Stop	ZB2BY2304		Background	
Forward	ZB2BY2305		White characters on red background	ZB2BY2004
Reverse	ZB2BY2306		Background	
Up	ZB2BY2307		Black characters on white background	ZB2BY4001
Down	ZB2BY2308		Background	
Right	ZB2BY2309		Black characters on yellow background	ZB2BY4005
Left	ZB2BY2310		Background	
On	ZB2BY2311			
Off	ZB2BY2312			
Power on	ZB2BY2326			
Slow	ZB2BY2327			
Fast	ZB2BY2328			
For selector switches				
Off-On	ZB2BY2367			

Operator dialogue terminals

Small panels with touch screen

Magelis STO, STU

Monochrome touch screen terminals

3.4" screen



HMI STO 511

Type of screen	Communication	Application memory capacity	Display	Number of Ethernet ports	Reference
STN Green, orange, red	1 RS232C/RS485 1 USB Type A 1 USB Type B	16 MB	Back-lit green, orange, red (200x80 pixels)	-	HMISTO511
STN White, pink, red	1 RS232C/RS485 1 USB Type A 1 USB Type B	16 MB	Back-lit white, pink, red (200x80 pixels)	-	HMISTO512

Colour touch screen terminals

3.5" and 5.7" screen



HMI STU 655

Type of screen	Communication	Application memory capacity	Display	Screen	Reference
TFT	1 RS232C/RS485 1 Ethernet 1 USB Type A 1 USB Type B	16 MB	65,536 colour	3.5" 5.7"	HMISTU655 HMISTU855

Separate components

Designation	Description/ function	Compatible with	Reference
Protective sheets	5 peel-off sheets for protecting the screen	HMISTO511	HMIZS60
		HMISTO512	HMIZS61
		HMISTU655	HMIZS61
USB clip	Holds the USB A type connection in place	HMISTO511	HMIZSCLP1
		HMISTO512	HMIZSCLP1
		HMISTU855	HMIZS62
USB clip	Holds the USB mini-B type connection in place	HMISTO511	HMIZSCLP3
		HMISTO512	HMIZSCLP3

Replacement parts

Designation	Description/ function	Compatible with	Reference
Seal	Dust and damp proofs the connection between the front and rear modules of the HMI STO 51	HMISTO511 HMISTO512	HMIZS50

Vijeo designer software

Description	Reference
Software for developing and running an application for XBTG & XBTGT on 1 PC. Supplied without cable.	VJDSNDTGSV61M
Software for developing and running an application for XBTG & XBTGT on 1 PC. Supplied with a USB cable for XBTGT2xxx and above (XBTZG935)	VJDSUDTGAV61M

Operator dialogue terminals

Small panel with keypad

Magelis XBT N

Magelis small panels



XBT N200



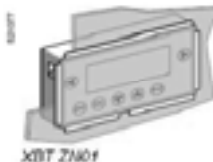
XBT N400/N410/N400



XBT N401

Downloadable exchange protocol	Compatible PLCs	Supply voltage	Display	Reference
Terminal with 2 lines of 20 characters (with alphanumeric screen)				
Uni-TE, Modbus	Twido, Nano, TSX Micro, Premium	5 Vdc via PLC terminal port	Back-lit green LCD	XBTN200
Terminal with 4 lignes of 20 characters (with matrix screen)				
Uni-TE, Modbus	Twido, Nano, TSX Micro, Premium	5 Vdc via PLC terminal port	Back-lit green LCD (122 x 32 pixels)	XBTN400
	Twido (1), Nano, Micro, Premium, TSX series 7, Momentum, Quantum	24 Vdc external supply	Back-lit green LCD (122 x 32 pixels)	XBTN410
	Other Modus slave equipment		Back-lit green , orange and red LCD (2) (122 x 32 pixels)	XBTN401
Modbus	TeSys model U motor starters (3) Altivar drives	24 Vdc external supply	Back-lit green LCD (122 x 32 pixels)	XBTNU400

Accessories (4)



XBT ZN01



XBT ZN02

Description	Description	For used with	Reference
Accessory for flush mounting	Kit for applications requiring a higher degree of protection or customisation of the console, using a flat metal strip (not included)	All XBT N	XBTZN01
Protective sheets	10 peel off sheets	All XBT N	XBTZN02
Sheets of changeable legends	10 sheets of 6 legends	XBTN200/400 XBTN401 XBTNU400	XBLYN00 XBLYN01
Mechanical adaptator for XBT H substitution	From XBT H0•2•1/H0•1010 to XBT N410 From XBT H811050 to XBT N400		XBTZNCO

Cables and connection accessories (5)



XBT Z9780

Description	Compatibility	Type of connector	Physical link	Protocol	Length	Reference
Cable for Twido, Nano, TSX Micro and Premium PLCs	XBT N•00	RJ45-Mini-DIN	RS485	Modbus, Uni-TE	2.5m	XBTZ9780
Adaptator cable	XBT N200 XBT N400 (6)	RJ45-RJ45	RS232C RS485	Modbus, Uni-TE	0.1 m	XBTZN999
Serial printer cable	XBT N401	Mini-DIN (display unit side)-25way-SUB-	RS232C	ASCII	2.5 m	XBTZ926

(1) Connection via integrated port or optional serial port on the Twido programmable controller.

(2) Also available with 4 signalling LEDs.

(3) Factory preloaded application for monitoring, diagnostics and adjustment of 1 to 8 TeSys model U motor starters.

(4) For other accessories, see page 2-34

(5) For other cables and connection accessories, see page 2-35

(6) Adaptator cable supplied with XBT N200/N400 new version. The XBT ZN999 adaptator is used with the XBT N200/N400 new version and the XBT Z978 cable (replace by XBT Z9780)or with the XBT N200/N400 old version and the new XBT Z9780 cable.

Operator dialogue terminals

Small panel with keypad

Magelis XBT R/ RT

2

Magelis small panels



XBT R400



XBT R411



XBT RT500



XBT RT511

Downloadable exchange protocol	Compatible PLCs	Supply voltage	Screen type	Reference
Terminals with 4 lines of 20 characters (matrix screen)				
Uni-TE, Modbus	Twido (1), Nano, TSX Micro, Premium	5 Vdc via PLC terminal port	Green Back-lit LCD (122 x 32 pixels),	XBTR400
	Twido (1), Nano, TSX Micro, Premium, TSX series 7, Momentum, Quantum	24 Vdc external supply	Green Back-lit LCD (122 x 32 pixels),	XBTR410
	Other Modus slave equipment		Green, orange or red back-lit LCD (122 x 32 pixels), (2)	XBTR411
Terminals with 10 lines of 33 characters (matrix screen)				
Uni-TE, Modbus	Twido (1), Nano, TSX Micro, Premium, Modicon M340	5 Vdc via PLC terminal port	Back-lit green LCD (198 x 80 pixels),	XBTRT500
	Twido (1), TSX Micro, Premium, Modicon M340 Quantum	24 Vdc external supply	Green, orange or red back-lit LCD (198 x 80 pixels),	XBTRT511

Accessories (3)



XBT ZR01



XBT ZR02

Description	Description	For used with	Reference
Accessory for flush mounting	Kit for applications requiring a higher degree of protection or customisation of the console, using a flat metal strip (not included)	AllXBTR/RT	XBTZR01
Protective sheets	10 peel off sheets	AllXBTR/RT	XBTZR02
Sheets of changeable legends	10 sheets of 6 legends	XBTR400/410	XBLYR00
	Re-usable labels	XBTR411	XBLYR01
Mechanical adaptor for XBT P substitution	From XBT P01•010/P02•010 to XBT R410		XBTZRC0
	From XBT P02•110 to XBT R411		

Description	Compatibility	Type of connector	Physical link	Protocol	Length	Reference
Download adapter	XBTRT500	RJ45/RJ45	RS485	Modbus	0.2m	XBZRT999

(1) Connection via integrated port or optional serial port on the Twido controller.

(2) With 16 LEDs indicator lights.

Vijeo designer lite software

Description	Reference
Single License: Software version V1.3 for developing and implementing an application for XBTN/R/RT on 1 PC. Supplied without cable	VJDSNDTMSV13M
Single license, Matrix XBT download USB cable: Software version V1.3 for developing and implementing an application for XBTN/R/RT on 1 PC. Supplied with a USB cable for XBTN/R/RT (XBTZ925+ TSXCUSB485)	VJDSUDTMSV13M

Operator dialogue terminals

Small panel

Separate components for Magelis XBT N/R/RT
and Magelis STO/STU

Accessories

Type	Compatibility	Sold in lots of	Reference
External 5V adapter (1)	XBT N200/N400 XBT R400 XBT RT500	1	XBTZRTPW
Spring clips (spare parts)	XBT N/ R/ RT	12	XBTZ3002
Power supply connector	XBT N/R	10	XBTZ3004
	HMI STO	5	HMIZSPWO
	HMI STU	5	XBTZGPWS1

Connection to PCs and printers

Use	Compatibility	Length	Connection peripheral side	Reference
RS 232C PC link	XBT N401/N410/NU400 XBT R410/R411	2.5 m	9-way male SUB-D	XBTZ915
	XBT N200/N400/R400	2.5 m	9-way male SUB-D and mini-DIN (PS/2)	XBTZ945
PC USB connection cable USB port (2)	XBT N/R /RT	–	USB type A Male	TSXCUSB485
	HMI STO/STU	2.5 m	USB type A Male	XBTZG935
XBT adaptor for USB cable	XBT N/R /RT	2 m	Set of 2 cables RJ45/RJ45 RJ45/SUB-D 25	XBTZ925
Serial printer cable	XBT N/R	2.5 m	25-way female SUB-D	XBTZ926
USB device extension cable	HMI STO/STU	2 m	Dust and damp proof USB type mini-B male	HMIZSUSBB

Connecting cables for Magelis terminals

Description	Type of connector	Physical link	Protocol	Length	Reference
Direct connection of XBT N/R/RT (XBT N200/N400/R400/RT500/RT511) and HMI STO/STU terminals to Schneider Electric PLCs					
Twido, Namor, TSX Micro and Premium PLCs	Mini-DIN	RS485	Modbus, Uni-TE	2.5m	XBTZ9780
Modicon M340	RJ45	RS485	Modbus,	2.5m	XBTZ9980
Direct connection of XBT N/R/RT (XBT N410/N401/R410/R411) to Schneider Electric PLCs					
Twido, Namor, TSX Micro and Premium PLCs	Mini-DIN 8-pin terminal port	RS485	Modbus and Uni-TE (V1/V2)	2.5m	XBTZ968
				5m	XBTZ9681
				2.5m (5)	XBTZ9680
Modicon Momentum M1 (Port 1)	RJ45	RS232	Modbus	2.5m	XBTZ9711
Modicon M340	RJ45	RS485	Modbus	2.5m	XBTZ938

(1) Use 5 V dc power supply: ABL8MEM05040.

(2) Adaptor XBTZ925 to be used with cable.

(3) Discount code 28

(4) Elbowed SUB-D connector.

Relays

Zelio Relays - Electromechanical plug-in relays

RSB interface relays and accessories	3-1
RXM miniature relays and accessories	3-2
RUM universal relays and accessories	3-3
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Zelio Control - Control and measurement relays

RM17T 3-phase monitoring relays	3-5
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Zelio Time - Timing relays

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Zelio Logic - Smart relays

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Power supplies

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Interface relays



RSB 1A120JD + RZM 031FPD + RSZ E1S35M



RSB 1A160BD + RSZ E1S48M



RSB 2A080BD + RSZ E1S48M



RSZ R215

Control circuit voltage	Sold in lots of	Number and type of contacts - Thermal current (Ith)			
		1 C/O -12 A	1 C/O -16 A	2 C/O -8 A	
V		Unit reference (1)	Unit reference (1)	Unit reference (1)	
d.c.	6	10	RSB1A120RD	RSB1A160RD	RSB2A080RD
	12	10	RSB1A120JD	RSB1A160JD	RSB2A080JD
	24	10	RSB1A120BD	RSB1A160BD	RSB2A080BD
	48	10	RSB1A120ED	RSB1A160ED	RSB2A080ED
	60	10	RSB1A120ND	RSB1A160ND	RSB2A080ND
	110	10	RSB1A120FD	RSB1A160FD	RSB2A080FD
a.c.	24	10	RSB1A120B7	RSB1A160B7	RSB2A080B7
	48	10	RSB1A120E7	RSB1A160E7	RSB2A080E7
	120	10	RSB1A120F7	RSB1A160F7	RSB2A080F7
	220	10	RSB1A120M7	RSB1A160M7	RSB2A080M7
	230	10	RSB1A120P7	RSB1A160P7	RSB2A080P7
	240	10	RSB1A120U7	RSB1A160U7	RSB2A080U7

Sockets - 12 A, 300 V ac

Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference (1)
Separate	Connector	RSB 1A120●●	10	RSZE1S35M
	RSB 1A160●●(2)		10	RSZE1S48M
	RSB 2A080●●			

Protection modules

Description	For use with	Voltage (V)	Sold in lots of	Unit reference (1)
Diode	All sockets	d.c. 6...230	20	RZM040W
RC circuit	All sockets	a.c. 24...60	10	RZM041BN7
		a.c. 110...240	10	RZM041FU7
Diode + green LED	All sockets	a.c./d.c. 6...24	10	RZM031RB
		a.c./d.c. 24...60	10	RZM031BN
		a.c./d.c. 110...230	10	RZM031FPD
Varistor + green LED	All sockets	d.c. or a.c. 6...24	10	RZM021RB
		d.c. or a.c. 24...60	10	RZM021BN
		d.c. or a.c. 110...230	10	RZM021FP

Accessories

Description	For use with	Sold in lots of	Unit reference (1)
Plastic maintaining clamp	All sockets	10	RSZR215
Legend		10	RSZL300

(1) To order a relay complete with socket (sold in lots of 20): add suffix S to the references selected above.

Example: RSB2A080RD + RSZE1S48M becomes RSB2A080RDS. Add price accordingly.

(2) When using the relay with socket RSZ E1S48M, terminals must be linked. See connection schemes on catalogue page.

Miniature relays without LED (sold in lots of 10)



Control circuit voltage	Number and type of contacts - Thermal current (Ith)			
	2 C/O - 12 A	3 C/O - 10 A	4 C/O - 6 A	
V	Unit reference	Unit reference	Unit reference	
d.c.	12	RXM2AB1JD	RXM3AB1JD	RXM4AB1JD
	24	RXM2AB1BD	RXM3AB1BD	RXM4AB1BD
	48	RXM2AB1ED	RXM3AB1ED	RXM4AB1ED
	110	RXM2AB1FD	RXM3AB1FD	RXM4AB1FD
	220	-	-	RXM4AB1MD
a.c.	24	RXM2AB1B7	RXM3AB1B7	RXM4AB1B7
	48	RXM2AB1E7	RXM3AB1E7	RXM4AB1E7
	120	RXM2AB1F7	RXM3AB1F7	RXM4AB1F7
	230	RXM2AB1P7	RXM3AB1P7	RXM4AB1P7
	240	-	-	RXM4AB1U7

Miniature relays with LED (sold in lots of 10)

d.c.	12	RXM2AB2JD	RXM3AB2JD	RXM4AB2JD
	24	RXM2AB2BD	RXM3AB2BD	RXM4AB2BD
	48	RXM2AB2ED	RXM3AB2ED	RXM4AB2ED
	110	RXM2AB2FD	RXM3AB2FD	RXM4AB2FD
	125	-	-	RXM4AB2GD
a.c.	24	RXM2AB2B7	RXM3AB2B7	RXM4AB2B7
	48	RXM2AB2E7	RXM3AB2E7	RXM4AB2E7
	120	RXM2AB2F7	RXM3AB2F7	RXM4AB2F7
	230	RXM2AB2P7	RXM3AB2P7	RXM4AB2P7

Sockets

Contact terminal arrangement	Connection	Thermal current Ith	Relay type	Sold in lots of	Unit reference
Mixed	Screw clamp terminals	10A	RXM 2●●●●(1) RXM 4●●●●	10	RXZE2M114
	Connector	10A	RXM 2●●●●(1) RXM 4●●●●	10	RXZE2M114M
Separate	Connector	12A	RXM 2●●●●	10	RXZE2S108M
		10A	RXM 3●●●●	10	RXZE2S111M
		10A	RXM 4●●●●	10	RXZE2S114M

Protection modules

Description	Voltage V	For use with	Sold in lots of	Unit reference
Diode	d.c. 6...250	All sockets	20	RXM040W
RC circuit	a.c. 24...60	All sockets	20	RXM041BN7
	a.c. 110...240	All sockets	20	RXM041FU7
Varistor	a.c./d.c. 6...250	All sockets	20	RXM021RB
	a.c./d.c. 24...60	All sockets	20	RXM021BN
	a.c./d.c. 110...240	All sockets	20	RXM021FP

Accessories

Description	For use with	Sold in lots of	Unit reference
Metal maintaining clamp	All sockets	10	(3) RXZ400
Plastic maintaining clamp	All sockets	100	(3) RXZR335
Bus jumper, 2-pole (Ith: 5 A)	All sockets with separate contacts	100	RXZS2
Mounting adapter for DIN rails (2)	All relays	20	RXZE2DA
Mounting adapter with fixing lugs for panel	All relays	20	RXZE2FA
Clip-in legends	All relays (sheet of 108 legends)	10	RXZL520
	All sockets except RXZ E2M114	100	(3) RXZL420

(1) When mounting relay RXM 2●●●● on socket RXZ E2M●●●●, the thermal current must not exceed 10 A.

(2) Test button becomes inaccessible.

(3) Price is for pack (of 10 or 100).

Relays for standard applications, without LED (sold in lots of 10)



Pins	Control circuit voltage V	Number and type of contacts - Thermal current (lth)			
		2 C/O - 10 A	3 C/O - 10 A		Unit reference
Cylindrical	d.c.	12	RUMC2AB1JD	RUMC3AB1JD	
		24	RUMC2AB1BD	RUMC3AB1BD	
		48	RUMC2AB1ED	RUMC3AB1ED	
		60	–	RUMC3AB1ND	
		110	RUMC2AB1FD	RUMC3AB1FD	
		125	–	RUMC3AB1GD	
		220	–	RUMC3AB1MD	
	a.c.	24	RUMC2AB1B7	RUMC3AB1B7	
		48	RUMC2AB1E7	RUMC3AB1E7	
		120	RUMC2AB1F7	RUMC3AB1F7	
		230	RUMC2AB1P7	RUMC3AB1P7	

Relays for standard applications, with LED (sold in lots of 10)



Cylindrical	d.c.	12	RUMC2AB2JD	RUMC3AB2JD	
		24	RUMC2AB2BD	RUMC3AB2BD	
		48	RUMC2AB2ED	RUMC3AB2ED	
		60	–	RUMC3AB2ND	
		110	RUMC2AB2FD	RUMC3AB2FD	
		125	–	RUMC3AB2GD	
		a.c.	24	RUMC2AB2B7	RUMC3AB2B7
	48		RUMC2AB2E7	RUMC3AB2E7	
	120		RUMC2AB2F7	RUMC3AB2F7	
	230		RUMC2AB2P7	RUMC3AB2P7	



Sockets				
Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference
Mixed	Connector	RUM C2	10	RUZC2M
		RUM C3	10	RUZC3M
Separate	Connector	RUM C2	10	RUZSC2M
		RUM C3	10	RUZSC3M
		RUM F2	10	RUZSF3M
		RUM F3	10	RUZSF3M

Timer module				
Description	For use with	Voltage V	Reference	
Multifunction	All sockets	d.c. or a.c. 24...240	RUW101MW	

Accessories				
Description	For use with	Sold in lots of	Unit reference	
Metal maintaining clamp	All sockets	1	RUZC200	
Bus jumper, 2-pole (lth : 5 A)	All sockets with separate contacts	10	(1)	RUZS2
Clip-in legends	All relays (sheet of 108 legends)	10	RXZL520	
	All sockets with separate contacts	10	(1)	RUZL420

(1) Price is for pack of 10



Power relays without LED (sold in lots of 10)



Control circuit voltage	Number and type of contacts - Thermal current (Ith)	Number and type of contacts - Thermal current (Ith)			
		1 C/O - 15 A	2 C/O - 15 A	3 C/O - 15 A	4 C/O - 15 A
V	Unit reference	Unit reference	Unit reference	Unit reference	
d.c.	12	RPM11JD	RPM21JD	RPM31JD	RPM41JD
	24	RPM11BD	RPM21BD	RPM31BD	RPM41BD
	48	RPM11ED	RPM21ED	RPM31ED	RPM41ED
	110	RPM11FD	RPM21FD	RPM31FD	RPM41FD
a.c.	24	RPM11B7	RPM21B7	RPM31B7	RPM41B7
	48	RPM11E7	RPM21E7	RPM31E7	RPM41E7
	120	RPM11F7	RPM21F7	RPM31F7	RPM41F7
	230	RPM11P7	RPM21P7	RPM31P7	RPM41P7

Power relays with LED (sold in lots of 10)



d.c.	12	RPM12JD	RPM22JD	RPM32JD	RPM42JD
	24	RPM12BD	RPM22BD	RPM32BD	RPM42BD
	48	RPM12ED	RPM22ED	RPM32ED	RPM42ED
	110	RPM12FD	RPM22FD	RPM32FD	RPM42FD
a.c.	24	RPM12B7	RPM22B7	RPM32B7	RPM42B7
	48	RPM12E7	RPM22E7	RPM32E7	RPM42E7
	120	RPM12F7	RPM22F7	RPM32F7	RPM42F7
	230	RPM12P7	RPM22P7	RPM32P7	RPM42P7

Sockets

Contact terminal arrangement	Connection	Relay type	Sold in lots of	Unit reference
Mixed	Screw clamp terminals	RPM 1●●●	10	RPZF1
		RPM 2●●●	10	RPZF2
		RPM 3●●●	10	RPZF3
		RPM 4●●●	10	RPZF4

Protection modules

Description	Voltage V	Socket type	Sold in lots of	Unit reference
Diode	d.c. 6...250	RPZF1	20	RXM040W
		RPZF2		
		RPZF3	10	RUW240BD
		RPZF4		



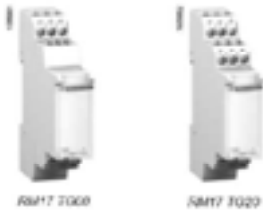
Relays

3-phase monitoring relays

3-phase supply control relays

RM17 TG measurement and control relays for 3-phase supplies monitor :

- Correct sequencing of phases L1, L2 and L3 as well as the total loss of one or more of these phases.



Function	Rated 3-phase supply voltage V	Output	Reference
<ul style="list-style-type: none"> ■ Phase sequence ■ Phase failure 	208...480 a.c.	1 C/O 5 A	RM17TG00
	208...440 a.c.	2 C/O 5A	RM17TG20

Multifunction 3-phase supply control relays

RM17 TT, RM17 TA, RM17 TU and RM17 TE multifunction control relays monitor the following on 3-phase supplies:

	RM17 TT	RM17 TA	RM17 TU	RM17 TE	RM35 TF
Sequence of phases L1, L2 and L3.					
Phase failure with regeneration					
Asymmetry					
Undervoltage					
Overtoltage and undervoltage					

	Function performed
	Function not performed



Function	Rated 3-phase supply voltage V	Output	Reference
<ul style="list-style-type: none"> ■ Phase sequence ■ Phase failure 	208...480 a.c.	1 C/O 5 A	RM17TT00
<ul style="list-style-type: none"> ■ Phase sequence ■ Phase failure ■ Asymmetry 	208...480 a.c.	1 C/O 5 A	RM17TA00
<ul style="list-style-type: none"> ■ Phase sequence ■ Phase failure ■ Undervoltage 	208...480 a.c.	1 C/O 5 A	RM17TU00
<ul style="list-style-type: none"> ■ Phase sequence ■ Phase failure ■ Asymmetry ■ Undervoltage and overvoltage in window mode 	208...480 a.c.	1 C/O 5 A	RM17TE00
<ul style="list-style-type: none"> ■ Phase sequence ■ Phase failure ■ Asymmetry ■ Undervoltage and overvoltage in window mode 	220...480 a.c.	2 C/O 5 A	RM35TF30

Relays

3-phase monitoring relays

Voltage measurement and control relays

Voltage measurement and control relays RM35UB330, RM17UB310 and RM35UB3N30 monitor the following, on 3-phase supplies:

	RM35UB330	RM17UB310	RM35UB3N30
Failure of one or more phases,			
Absence of neutral			
Overvoltage and undervoltage			
Voltage between phases	220...480V	208...480V	
Voltage between phases and neutral.			120...277V

■	Function performed
□	Function not performed

Function	Rated 3-phase supply voltage	Output	Reference
■ Overvoltage and undervoltage between phases	220...480 a.c. (phase-phase)	1 C/O +1C/O 1 per threshold 5A	RM35UB330
	208...480 a.c. (phase-phase)	1 C/O 5 A	RM17UB310
■ Overvoltage and undervoltage between phases and neutral	120...277 a.c. (phase-neutral)	1 C/O +1C/O 1 per threshold	RM35UB3N30
	■ Absence of neutral	5A	



RM17 UB310



RM35 UB330



RM35 UB3N30

3

Relays

Level/ Speed monitoring relays

Level control relays



Level control relays RM35 LM33MW and RM35LV14MW control one or two levels, with fill or empty function:

- RM35 LM33MW: control by resistive level probe
- RM35LV14MW: control by discrete sensor.

Function	Supply voltage	Output	Reference
V			
Detection by resistive probes	24...240 V ac/dc	2 C/O 5A	RM35LM33MW
Detection by discrete sensors	24...240 V ac/dc	1 C/O 5A	RM35LV14MW

Speed control relay

Speed control relay RM35 S0MW monitors:

- Underspeed:
 - without memory,
 - with memory,
 - with inhibition by external contact S2.
- Overspeed:
 - without memory,
 - with memory,
 - with inhibition by external contact S2.

Speed control relay RM35 S0MW measures via:

- A 3-wire PNP or NPN proximity sensor input,
- A Namur proximity sensor input,
- A 0-30 V voltage input,
- A volt-free contact input.



RM35 S0MW

Function	Supply voltage	Measurement Input	Output	Reference
V				
■ Underspeed	24...240	■ 3-wire PNP or NPN proximity sensor ■ Namur proximity sensor, ■ 0-30 V voltage, ■ Volt-free contact.	1 C/O 5A	RM35S0MW
■ Overspeed	a.c./d.c.			

Relays

Voltage monitoring relays

Multifunction voltage control relays

Multifunction voltage control relays RM35 UA1• MW monitor both a.c. and d.c. voltages.

- Automatic dc or ac recognition,
- Measurement ranges from 0.05 V to 600 V,
- Selection between overvoltage and undervoltage,
- Measurement as true rms value,
- Selectable memory function.



Function	Ranges controlled	Supply voltage	Output	Reference
	V	V		
■ Overvoltage or undervoltage	0.05...5	24...240 V ac/dc	2 C/O 5A	RM35UA11MW
	1...100	24...240 V ac/dc	2 C/O 5A	RM35UA12MW
	15...600	24...240 V ac/dc	2 C/O 5A	RM35UA13MW

Single-phase and d.c. voltage measurement and control relays

Single-phase and d.c. voltage measurement and control relays RM17UAS and RM17UBE monitor the following:

	RM17	UAS14	UAS15	UAS16	UBE15	UBE16
Overvoltage						
Undervoltage						
Overvoltage and undervoltage (window mode)						
Nominal voltages (V)		12V dc	110...240V ac/dc	24...48V ac/dc	110...240V ac/dc	24...48V ac/dc

	Function performed
	Function not performed



Function	Ranges controlled	Nominal voltage	Output	Reference
	V	V		
■ Overvoltage or undervoltage	9...15 V dc	12 V dc	1 C/O 5A	RM17UAS14
	20...80 V ac/dc	24...48 V ac/dc	1 C/O 5A	RM17UAS16
	65...260 V ac/dc	110...240 V ac/dc	1 C/O 5A	RM17UAS15
■ Overvoltage and undervoltage in window mode	20...80 V ac/dc	24...48 V ac/dc	1 C/O 5A	RM17UBE16
	65...260 V ac/dc	110...240 V ac/dc	1 C/O 5A	RM17UBE15

Current monitoring relays



The control relay RM17 JC00MW is designed to monitor a.c. currents.

- Integrated current transformer,
- Measurement range 2...20 A,
- Choice of action on the output relay.

Function	Supply	Measurement range	Output	Reference
	V	A		
■ Overcurrent	24...240 V ac/dc	2...20	1 C/O 5A	RM17JC00MW

Multifunction current monitoring relays



Multifunction current control relays RM35 JA3MW monitor both a.c. and d.c. currents.

- Automatic a.c. or d.c. recognition,
- Measurement ranges from 2 mA to 15 A,
- Selection between overcurrent and undercurrent,
- Measurement as true rms value,
- Selectable memory function.

Function	Range controlled	Supply	Output	Reference
		V		
■ Overcurrent or overvoltage	2...500mA	24...240 V ac/dc	2 C/O 5A	RM35JA31MW
	0.15...15A	24...240 V ac/dc	2 C/O 5A	RM35JA32MW

Frequency monitoring relay



RM35 HZ1FM

Frequency control relay RM35 HZ monitors frequency variations on 50 or 60 Hz a.c. supplies:

- Over-frequency and under-frequency with two independent relay outputs.
- Selectable memory function.

Function	Range controlled	Supply voltage	Output	Reference
	Hz	V		
Over-frequency and under-frequency 50 or 60 Hz	40...60 Hz (50 Hz) / 50...70 Hz (60 Hz)	120...277 ac	1 C/O + 1 C/O 5A	RM35HZ21FM

Lift motor room temperature monitoring



RM35ATL0MW
RM35ATR5MW



RM35ATW5MW

Measurement and control relays RM35 ATL0MW, RM35ATR5MW and RM35ATW5MW are designed for monitoring the temperature in elevator machine rooms, in compliance with directive EN81.

- PT 100 input,
- Adjustable control around 5 °C and 40 °C,
- Independent adjustment of high and low thresholds,
- Possibility of integrated phase control,

Function	Supply voltage V	3-phase control V	Output	Reference
<ul style="list-style-type: none"> ■ Over-temperature: 34...46 °C ■ Under-temperature: - 1...11 °C 	24...240 a.c./d.c.	-	1 C/O 5A	RM35ATL0MW
		-	2 N/O 5A	RM35ATR5MW
<ul style="list-style-type: none"> ■ Over-temperature: 34...46 °C ■ Under-temperature: - 1...11 °C ■ Phase sequence ■ Phase failure 	24...240 a.c./d.c.	208...480 a.c.	2 N/O 5A	RM35ATW5MW

Pump protection current monitor + 3 phase monitor

Measurement and control relay RM35 BA10 is used for control and monitoring of 3-phase and single-phase pumps. It monitors:

- The sequence of phases L1, L2 and L3.
- The absence of one or more phases,
- Undercurrent for protection against running empty,
- Overcurrent for protection against overload.



RM35 BA10

Function	Current range controlled A	Supply voltage V	Output	Reference
3-phase: <ul style="list-style-type: none"> ■ Phase sequence ■ Phase failure ■ Overcurrent and undercurrent control 	1...10	<ul style="list-style-type: none"> ■ 208...480 a.c. ■ 230 a.c. 	1 C/O 5A	RM35BA10
Single-phase: <ul style="list-style-type: none"> ■ Overcurrent and undercurrent control 		single-phase		

Motor protection winding temperature monitor + 3 phase monitor

Motor temperature measurement and control relays RM35TM50MW and RM35TM250MW monitor the following, on 3-phase supplies: correct sequencing of phases L1, L2 and L3, phase failure and motor temperature via PTC probes (with or without memory).



RM35 TM50MW



RM35 TM250MW

Function	Supply voltage V	3-phase supply voltage V	Output	Reference
<ul style="list-style-type: none"> ■ Phase sequence ■ Phase failure ■ Motor temperature via PTC probe 	24...240 a.c./d.c.	208...480 a.c.	2 N/O 5 A	RM35TM50MW
<ul style="list-style-type: none"> ■ Phase sequence ■ Phase failure ■ Motor temperature via PTC probe ■ Selection (with or without memory) ■ "Test/Reset" button 	24...240 a.c./d.c.	208...480 a.c.	2 N/O 5 A	RM35TM250MW

3

Rotational direction and presence of phases



RM4-TG20

Time delay sec	Rated mains supply voltage V	Control	Width mm	Output relay	Reference
Rotational direction and presence of phases					
None	220...440 50/60Hz		22.5	2 C/O	RM4TG20
Rotational direction and presence of phases + undervoltage					
None	200...240 50/60Hz	Undervoltage 160...220	22.5	2 C/O	RM4TU01
	380...440 50/60Hz	Undervoltage 300...430	22.5	2 C/O	RM4TU02

Rotational direction and presence of phases + overvoltage and undervoltage



RM4-TR33

Adjustable time delay sec	Rated mains supply voltage V	Control threshold V	Width mm	Output relay	Reference
Relays with fixed voltage thresholds					
0.1...10	220 50/60Hz	Undervoltage 198 Oversvoltage 242	22.5	2 C/O	RM4TR33
	400 50/60Hz	Undervoltage 360 Oversvoltage 440	22.5	2 C/O	RM4TR34
Relays with adjustable voltage thresholds					
0.1...10	220...240 50/60Hz	Undervoltage 160...220 Oversvoltage 220...300	22.5	2 C/O	RM4TR31
	380...440 50/60Hz	Undervoltage 300...430 Oversvoltage 420...580	22.5	2 C/O	RM4TR32

Rotational direction and presence of phases + asymmetry



RM4-TA01

Time delay on de-energisation sec	Rated mains supply voltage V	Control threshold %	Width mm	Output relay	Reference
Fixed					
0.5	200...240 50/60Hz	Asymmetry 5...15	22.5	1 C/O	RM4TA01
	380...440 50/60Hz	Asymmetry 5...15	22.5	1 C/O	RM4TA02
Adjustable					
0.1...10	200...240 50/60Hz	Asymmetry 5...15	22.5	2 C/O	RM4TA31
	380...440 50/60Hz	Asymmetry 5...15	22.5	2 C/O	RM4TA32

Relays

Current and voltage measurement relays

Current measurement relays: overcurrent detection



Time delay	Current to be measured depending on connection	Width	Output relay	Supply voltage	Reference
sec	V AC or DC	mm		V	
None	3...30mA	22.5	1 C/O	110...130Vac	RM4JA01F
	10...100mA			220...240Vac	RM4JA01M
	0.1...1A	24Vac		RM4JA01B	

Current measurement relays: overcurrent or undercurrent detection



Adjustable time delay	Current to be measured depending on connection	Width	Output relay	Supply voltage	Reference
sec	V AC or DC	mm		V	
0.05...30	3...30mA	22.5	2 C/O	110...130Vac	RM4JA31F
	10...100mA			220...240Vac	RM4JA31M
	0.1...1A			24...240Vac/dc	RM4JA31MW
	0.3...1.5A	45		110...130Vac	RM4JA32F
	1...5A	220...240Vac		RM4JA32M	
	3...15A	24...240Vac/dc		RM4JA32MW	

Voltage measurement relays: overvoltage detection



Time delay	Voltage to be measured depending on connection	Width	Output relay	Supply voltage	Reference
sec	V AC or DC	mm		V	
None	0.05...0.5	22.5	1 C/O	110...130Vac	RM4UA01F
				220...240Vac	RM4UA01M
				24Vac	RM4UA01B
	1...10	22.5		110...130Vac	RM4UA02F
				220...240Vac	RM4UA02M
				24Vac	RM4UA02B
	30...300	22.5		110...130Vac	RM4UA03F
				220...240Vac	RM4UA03M
				24Vac	RM4UA03B

Voltage measurement relays: overvoltage or undervoltage detection



Adjustable time delay	Voltage to be measured depending on connection	Width	Output relay	Supply voltage	Reference
sec	V AC or DC	mm		V	
0.05...30	0.05...0.5	22.5	2 C/O	110...130Vac	RM4UA31F
				220...240Vac	RM4UA31M
				24...240Vac/dc	RM4UA31MW
	1...10	22.5		110...130Vac	RM4UA32F
				220...240Vac	RM4UA32M
				24...240Vac/dc	RM4UA32MW
	30...300	22.5		110...130Vac	RM4UA33F
				220...240Vac	RM4UA33M
				24...240Vac/dc	RM4UA33MW

Voltage measurement relays with adjustable thresholds: over and undervoltage



RM4-UB

Adjustable time delay	Rated mains supply voltage	Width	Output relay	Control threshold	Reference
sec	V	mm		V	
0.1...10	100...200 50/60Hz	22.5	2 C/O	Undervoltage 80...120 Overvoltage 160...220	RM4UB34
		22.5		Undervoltage 160...220 Overvoltage 220...300	RM4UB35

Relays

Liquid level control relays

Liquid level control relays



RM4-LG01

Time delay	Sensitivity scale	Supply voltage	Width	Output relay	Reference
sec	K ohm	V	mm		
None	5...100	110...130Vac	22.5	1 C/O	RM4LG01F
		220...240Vac			RM4LG01M
		24Vac			RM4LG01B
Adjustable 0.1...10 s	0.25...5 2.5...50 25...500	110...130Vac	22.5	2 C/O	RM4LA32F
		220...240Vac			RM4LA32M
		24...240Vac/dc			RM4LA32MW

Zelio Time - timing relays

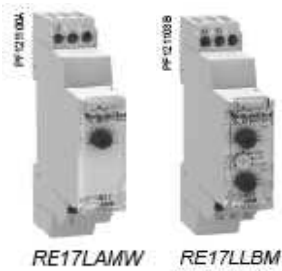
Modular relays with solid state or relay output, width 17.5 mm

New!

Modular relays with solid state output 0.7 A

Solid state output

- Multifunction, dual function or single function
- Multi-range (7 selectable ranges)
- Multivoltage
- Solid state output: 0.7 A
- Screw terminals



Functions	Time range	Function	Supply voltages	Reference
Single function	1 s,	A	24V... 240V ac/dc	RE17LAMW
	10 s,			
	1 min,	H	24V... 240V ac	RE17LHBM
	10 min,			
	1 h,	C	24V... 240V ac	RE17LCBM
Dual function	10 h,			
	100 h			
	1 s,	L,	24V... 240V ac	RE17LLBM
	10 s,	Li		
	1 min,			
Multifunction	10 min,			
	1 h,			
	10 h,			
	100 h			
	1 s,	A, At,	24V... 240V ac	RE17LMBM
	10 s,	B,		
	1 min,	C,		
	10 min,	H, Ht,		
1 h,	D, Di,			
10 h,	Ac, Bw			
100 h				

Modular relays with relay output, 1 C/O contact

Relay output, 1 C/O contact

- Dual function or single function
- Multi-range (7 selectable ranges)
- Multivoltage
- 1 relay output: 8 A
- Screw terminals
- State indication by 1 LED
- Option of supplying a load in parallel
- 3-wire sensor control option



Functions	Time range	Function	Supply voltages	Reference
Single function	1 s,	B	24V dc	RE17RBMU
	10 s,		24V... 240V ac	
	1 min,	C	24V dc	RE17RCMU
	10 min,		24V... 240V ac	
	1 h,			
Dual function	10 h,			
	100 h			
	1 s,	A,	24V dc	RE17RAMU
	10 s,	At	24V... 240V ac	
	1 min,	H,	24V dc	RE17RHMU
	10 min,	Ht	24V... 240V ac	
	1 h,	L,	24V dc	RE17RLMU
Multifunction	10 h,	Lt	24V... 240V ac	
	100 h		12V ac/dc	RE17RLJU
	1 s,	A, At,	12V ac/dc	RE17RMJU
	10 s,	B,		
	1 min,	C,	24V dc	RE17RMMU
Multifunction	10 min,	H, Ht,	24V... 240V ac	
	1 h,	D, Di,	12V... 240V ac/dc	RE17RMMW
	10 h,	Ac, Bw		RE17RMMWS
Multifunction	100 h			
		Ad, Ah,	24V dc	RE17RMXMU
		N,	24V... 240V ac	
		O,		
		P, Pt,		
		T, Tt,		
		W		
Multifunction	1 s,	A, At,	24V dc	RE17RMEMU
	10 s,	B,	24V... 240V ac	
	1 min,	C,		
	10 min,	H, Ht,		
	1 h,	D, Di,		
10 h,				

Timing relays

Industrial single or multifunction relays
relay output, width 22.5mm

Relay output, On-delay and Off-delay relays, universal



RE7-M

Supply voltages	Functions (3)	Relay output	Reference
Symmetrical relays: On and Off delay times are equal.			
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	On-delay and Off-delay relay External control possible for: ■ partial stop of time delay ■ adjustment of time delay (1) Start control via external contact only	1 C/O	RE7MA11BU
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	On-delay and Off-delay relay Start control via external contact only	2 C/O (2)	RE7MA13BU
Asymmetrical relays: On and Off delay times are adjusted separately.			
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	On-delay and Off-delay relay External control possible for: ■ partial stop of time delay ■ adjustment of time delay (1) Start control via external contact only	1 C/O	RE7MV11BU

Relay output, On-delay relays, universal



RE7-T

Supply voltages	Functions (3)	Relay output	Reference
d.c. or a.c. 24V a.c. 110...240V	On-delay relay	1 C/O	RE7TL11BU
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	On-delay relay External control possible for: ■ start of time relay ■ partial stop of time delay ■ adjustment of time delay (1)	1 C/O	RE7TM11BU
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	On-delay relay Remote control possible for: ■ adjustment of time delay (1)	2 C/O (2)	RE7TP13BU

Relay output, Off-delay relays, universal



RE7-R

Supply voltages	Functions (3)	Relay output	Reference
On de-energisation, adjustable from 0.05s to 10 min in 7 ranges (3)			
d.c. or a.c. 24V...240V	Off-delay relay	1 C/O	RE7RB11MW
d.c. or a.c. 24V...240V	Off-delay relay Remote control possible for: ■ adjustment of time delay (1)	2 C/O	RE7RB13MW
On opening of external control contact, adjustable from 0.05s to 300 h in 10 ranges (3)			
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	Off-delay relay External control possible for: ■ partial stop of time delay ■ adjustment of time delay (1)	1 C/O	RE7RA11BU
On opening of low level external control contact, adjustable from 0.05s to 300 h in 10 ranges (3)			
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	Off-delay relay External control possible for: ■ partial stop of time delay ■ adjustment of time delay (1)	1 C/O	RE7RM11BU
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	Off-delay relay	2 C/O (2)	RE7RL13BU

(1) By external potentiometer, to be ordered separately. If external potentiometer is fitted, the internal potentiometer is automatically disconnected.

(2) A switch on the front face of the relay allows the second changeover contact to be used in instantaneous mode.

(3) Any other technical information see product catalogue.

Timing relays

Industrial single or multifunction relays
relay output, width 22.5mm

Relay output, Pulse on energisation relays, universal



RE7-P

Supply voltages	Functions (4)	Relay output	Reference
Start on energisation			
d.c. or a.c. 24V a.c. 110...240V	Pulse on energisation relay	1 C/O	RE7PE11BU
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	Pulse on energisation relay External control possible for: ■ adjustment of time delay (1)	2 C/O (2)	RE7PP13BU
Start on opening of external control contact			
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	Pulse on energisation relay External control possible for: ■ partial stop of time delay ■ adjustment of time delay (1)	1 C/O	RE7PM11BU
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	Pulse on energisation relay	2 C/O (2)	RE7PD13BU

Relay output, Flashing relays, universal



RE7-C

Supply voltages	Functions (4)	Relay output	Reference
Symmetrical relays with start during OFF period			
d.c. or a.c. 24V a.c. 110...240V	Flashing relay	1 C/O	RE7CL11BU
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	Flashing relay External control possible for: ■ adjustment of time delay (1)	2 C/O (2)	RE7CP13BU
Asymmetrical relay with separate adjustment of On-delay and Off-delay			
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	Flashing relay External control possible for: ■ start period ■ adjustment of time delay (1) ■ partial stop	1 C/O	RE7CV11BU

Relay output, Timing relays for star-delta starters (3), universal



RE7-Y

Supply voltages	Functions (4)	Relay output	Reference
Time delay adjustable from 0.05s to 300h in 10 ranges (4)			
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	with double On-delay	2 C/O	RE7YA12BU
d.c. or a.c. 24V d.c. or a.c. 42...48V a.c. 110...240V	with contact for switching to star connection	2 C/O with common point	RE7YR12BU

(1) By external potentiometer, to be ordered separately. If external potentiometer is fitted, the internal potentiometer is automatically disconnected.

(2) A switch on the front face of the relay allows the second changeover contact to be used in instantaneous mode.

(3) Adjustable time delay for operation in star connection and fixed (50ms) for switching from star to delta connection to ensure sufficient breaking time.

(4) Any other technical information see product catalogue.

Timing relays

Industrial single or multifunction relays
relay output, width 22.5mm

Relay output, Multifunction relays, universal



RE7-M

Supply voltages	Functions (4)	Relay output	Reference
6 function relay (4)			
d.c. or a.c. 24V	On-delay relay	1 C/O	RE7ML11BU
d.c. or a.c. 42...48V	Off-delay relay		
a.c. 110...240V	Pulse on energisation relay <ul style="list-style-type: none"> ■ start on energisation ■ start on opening of remote control contact Flashing relay with start during the OFF period Flashing relay with start during the ON period External control possible for: <ul style="list-style-type: none"> ■ start of time delay ■ partial stop of time delay ■ adjustment of time relay (1) 		
8 function relay (4)			
d.c. or a.c. 24V	As for 6 function relay (3) +	2 C/O (2)	RE7MY13BU
a.c. 110...240V	Relay for star-delta starting <ul style="list-style-type: none"> ■ with double On-delay timing ■ with contact for switching to star connection 		
d.c. or a.c. 24...240V	As for 6 function relay (3) +	2 C/O (2)	RE7MY13MW
	Relay for star-delta starting <ul style="list-style-type: none"> ■ with double On-delay timing ■ with contact for switching to star connection 		

(1) By external potentiometer, to be ordered separately. If external potentiometer is fitted, the internal potentiometer is automatically disconnected.

(2) A switch on the front face of the relay allows the second changeover contact to be used in instantaneous mode.

(3) Except control of partial stop of time delay for RE7MY13BU

(4) Any other technical information see product catalogue.

Timing relays

Industrial relays, solid state output
width 22.5mm

Solid state output



RE9-TA

Supply voltages	Functions (2)	Timing range (1)	Reference
a.c. or d.c. 24...240V	On-delay	0.1...10 s	RE9TA11MW
		0.3...30s	RE9TA31MW
		3...300 s	RE9TA21MW
		40s ...60 min	RE9TA51MW
a.c. 24...240V	Off-delay	0.1...10 s	RE9RA11MW7
		0.3...30s	RE9RA31MW7
		3...300 s	RE9RA21MW7
		40s ...60 min	RE9RA51MW7

Solid state output, multifunction timing relays



RE9-MS

Supply voltages	Functions (2)	Timing range (1)	Reference
a.c. or d.c. 24...240V	<ul style="list-style-type: none"> ■ On-delay, ■ Pulse on energisation, ■ Flashing. 	3...300 s	RE9MS21MW
a.c. 24...240V		and 0.1...10 s	
a.c. 24...240V	<ul style="list-style-type: none"> - Start on energisation of the load - Start on de-energisation of the load 		

(1) For easier adjustment, it is preferable to set the time delay between the maximum value in the range and one tenth of this value.

(2) Any other technical information see product catalogue.

Timing relays

Industrial single-function relays, optimum relay output, width 22.5mm

On-delay relays (start on energisation)



RE8-TA

Supply voltages	Composition	Pre-packet quantity	Timing range (1)	Reference
a.c./d.c. 24V	1 C/O	10	0.1 s...3 s	RE8TA61BUTQ
a.c. 110...240V			0.1 s...10 s	RE8TA11BUTQ
			0.3 s...30 s	RE8TA31BUTQ
			3 s...300 s	RE8TA21BUTQ
			20 s...30 min	RE8TA41BUTQ
		1	0.1 s...10 s	RE8TA11BU
			0.3 s...30 s	RE8TA31BU
			3 s...300 s	RE8TA21BU

Off-delay relays

Supply voltages	Composition	Pre-packet quantity	Timing range (1)	Reference
Control contact				
a.c./d.c. 24V	1 C/O	10	0.1 s...10 s	RE8RA11BTQ
			0.3 s...30 s	RE8RA31BTQ
			3 s...300 s	RE8RA21BTQ
		1	0.1 s...10 s	RE8RA11B
			3 s...300 s	RE8RA21B
a.c. 110...240V	1 C/O	10	0.1 s...10 s	RE8RA11FUTQ
			0.3 s...30 s	RE8RA31FUTQ
			3 s...300 s	RE8RA21FUTQ
			20 s...30 min	RE8RA41FUTQ
		1	0.1 s...10 s	RE8RA11FU
			3 s...300 s	RE8RA21FU

Self-powered

a.c./d.c. 24V	1 C/O	1	0.05 s...0.5 s	RE8RB51BU
a.c. 110...240V			0.1 s...10 s	RE8RB11BU
			0.3 s...30 s	RE8RB31BU

Flashing relays

a.c./d.c. 24V	1 C/O	1	0.1 s...10 s	RE8CL11BU
a.c. 110...240V				

(1) For easier adjustment, it is preferable to set the time delay between the maximum value in the range and one tenth of this value.

Example: RE8TA11BU timing range 0.1 s ... 10 s, recommended use 1 s ... 10 s.

Any other technical information see product catalogue.

Timing relays

Industrial single-function relays, optimum relay output, width 22.5mm

Pulse on energisation relays



RE8-PE

Supply voltages	Composition	Timing range (1)	Batch reference
On energisation			
a.c./d.c. 24V	1 C/O	0.1 s...10 s	RE8PE11BU
a.c. 110...240V		0.3 s...30 s	RE8PE31BU
		3 s...300 s	RE8PE21BU
By control contact			
a.c./d.c. 24V	1 C/O	0.1 s...10 s	RE8PD11B
		0.3 s...30 s	RE8PD31B
		3 s...300 s	RE8PD21B
a.c. 110...240V	1 C/O	0.1 s...10 s	RE8PD11FU
		0.3 s...30 s	RE8PD31FU
		3 s...300 s	RE8PD21FU
On de-energisation			
a.c./d.c. 24V	1 C/O	0.05 s...1 s	RE8PT01BU
a.c. 110...240V			

Timing relays for star-delta starters

Supply voltages	Composition	Timing range (1)	Batch reference
with contact for switching to star connection (2)			
a.c./d.c. 24V	1 C/O	0.1 s...10 s	RE8YG11BU
a.c. 110...240V		0.3 s...30 s	RE8YG31BU
		3 s...300 s	RE8YG21BU
with double On-delay period			
a.c./d.c. 24V	1 N/O + 1 N/C	0.3 s...30 s	RE8YA32B
a.c. 110...240V	1 N/O + 1 N/C	0.3 s...30 s	RE8YA32FU
a.c. 380...415V	1 N/O + 1 N/C	0.3 s...30 s	RE8YA32Q

(1) For easier adjustment, it is preferable to set the time delay between the maximum value in the range and one tenth of this value.

Example: RE8PE11BU timing range 0.1 s ... 10 s, recommended use 1 s ... 10 s.

(2) Correct operation of the star-delta starter is only possible if the wiring scheme strictly complied as per our catalogue. Any other technical information see product catalogue.

Timing relays

Miniature plug-in relays, relay output

Relay output, 2 and 4 C/O contacts

- Miniature and plug-in (21 x 27 mm)
- Function A : on-delay
- 7 timing ranges: 0.1 s to 100 h
- Excellent immunity to interference
- Power on and relay energised indication by 2 LEDs



Timing ranges	7 switchable ranges	0.1 s...1 s - 1 s...10 s - 0.1 min...1 min - 1 min...10 min - 0.1 h...1 h - 1 h...10 h - 10 h...100 h	
Relay output		4 timed C/O contacts	2 timed C/O contacts
Rated current	a.c. 5 A	Reference	Reference
Voltages	d.c. 12 V	REXL4TMJD	REXL2TMJD
	d.c. 24 V (1)	REXL4TMBD	REXL2TMBD
	a.c. 24 V 50/60 Hz (1)	REXL4TMB7	REXL2TMB7
	a.c. 120 V 50/60 Hz	REXL4TMF7	REXL2TMF7
	a.c. 230 V 50/60 Hz	REXL4TMP7	REXL2TMP7
Sockets (2) with mixed contact terminals (3)	With screw clamp terminals (5)	RXZE2M114	RXZE2M114
	With connector (5)	RXZE2M114M	RXZE2M114M
Sockets (2) with separate contact terminals (4)	With connector (6)	RXZE2S114M	RXZE2S108M

(1) For c 48 V supply, additional resistor 560 Ω 2 W / c 24 V.

For a 48 V supply, additional resistor 390 Ω 4 W / a 24 V.

(2) These products are sold in lots of 10.

(3) The inputs are mixed with the relay's supply terminals, with the outputs being located on the opposite side of the socket.

(4) The inputs and outputs are separated from the relay supply terminals.

(5) Thermal current I_{th}: 10 A

(6) Thermal current I_{th}: 12 A

Smart relays

Compact, SR2

Compact smart relays with display



Number of I/O	Discrete inputs	Of which 0-10V analogue inputs	Relay outputs	Transistor outputs	Clock	Reference
Supply 12Vdc						
12	8	4	4	0	Yes	SR2B121JD
20	12	6	8	0	Yes	SR2B201JD
Supply 24Vdc						
10	6	0	4	0	No (1)	SR2A101BD
12	8	4	4	0	Yes	SR2B121BD
	8	4	0	4	Yes	SR2B122BD
20	12	2	8	0	No (1)	SR2A201BD
	12	6	8	0	Yes	SR2B201BD
	12	6	0	8	Yes	SR2B202BD
Supply 24Vac						
12	8	0	4	0	Yes	SR2B121B
20	12	0	8	0	Yes	SR2B201B
Supply 100...240Vac						
10	6	0	4	0	No (1)	SR2A101FU
12	8	0	4	0	Yes	SR2B121FU
20	12	0	8	0	No (1)	SR2A201FU
	12	0	8	0	Yes	SR2B201FU

Compact smart relays without display



Supply 24Vdc						
10	6	0	4	0	No (1)	SR2D101BD
12	8	4	4	0	Yes	SR2E121BD
20	12	2	8	0	No (1)	SR2D201BD
	12	6	8	0	Yes	SR2E201BD
Supply 24Vac						
12	8	0	4	0	Yes	SR2E121B
20	12	0	8	0	Yes	SR2E201B
Supply 100...240Vac						
10	6	0	4	0	No (1)	SR2D101FU
12	8	0	4	0	Yes	SR2E121FU
20	12	0	8	0	No (1)	SR2D201FU
	12	0	8	0	Yes	SR2E201FU

Compact "Discovery" packs



Number	Pack contents	Reference
Supply 24Vdc		
12	A SR2B121BD modular smart relay, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR2PACKBD
20	A SR2B201BD modular smart relay, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR2PACK2BD
Supply 100...240Vac		
12	A SR2B121FU modular smart relay, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR2PACKFU
20	A SR2B201FU modular smart relay, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR2PACK2FU

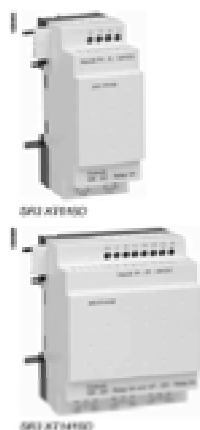
(1) With NO clock: Programming on smart relay in LADDER language only.

Modular smart relays with display



Number of I/O	Discrete inputs	Of which 0-10V analogue inputs	Relay outputs	Transistor outputs	Clock	Reference
Supply 24Vdc						
10	6	4	4	0	Yes	SR3B101BD
	6	4	0	4	Yes	SR3B102BD
26	16	6	10 (1)	0	Yes	SR3B261BD
	16	6	0	10	Yes	SR3B262BD
Supply 24Vac						
10	6	0	4	0	Yes	SR3B101B
26	16	0	10 (1)	0	Yes	SR3B261B
Supply 100...240Vac						
10	6	0	4	0	Yes	SR3B101FU
26	16	0	10 (1)	0	Yes	SR3B261FU

Discrete I/O extension modules (2)



Number of I/O	Discrete inputs	Of which 0-10V analogue inputs	Relay outputs	Reference
Supply 24Vdc (for smart relays SR3B●●●BD)				
6	4		2	SR3XT61BD
10	6		4	SR3XT101BD
14	8		6	SR3XT141BD
Supply 24Vac (for smart relays SR3B●●●B)				
6	4		2	SR3XT61B
10	6		4	SR3XT101B
14	8		6	SR3XT141B
Supply 100...240Vac (for smart relays SR3B●●●FU)				
6	4		2	SR3XT61FU
10	6		4	SR3XT101FU
14	8		6	SR3XT141FU

Communication module (2)

For use on	Supply voltage	Reference
Modbus network	24V dc	SR3MBU01BD

Modular "Discovery" packs



Number	Pack contents	Reference
Supply 24Vdc		
10	A SR3B101BD modular smart relay, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR3PACKBD
26	A SR3B261BD modular smart relay, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR3PACK2BD
Supply 100...240Vac		
10	A SR3B101FU modular smart relay, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR3PACKFU
26	A SR3B261FU modular smart relay, a connecting cable and "Zelio Soft 2" programming software supplied in CD-Rom	SR3PACK2FU

(1) Including 8 outputs at maximum current of 8 A and 2 outputs at maximum current of 5 A.

(2) Power supply to the I/O extension and communication modules is via the modular smart relays.

Note: The smart relay and its associated extensions must have an identical voltage.

Zelio Soft 2 software for PC



Description	Reference
"Zelio Soft 2" for PC multi-language programming software supplied on CD-Rom (1), compatible with Window 95, 98, NT, 2000, XP and ME	SR2SFT01

Connection accessories

Connecting cable	Connection between the PC (SUB-D, 9-way connector) and the Smart relay, length: 3m	SR2CBL01
	Connection between the PC (USB connector) and the Smart relay. PC compatible with Windows 2000 and XP length: 3m	SR2USB01
Interface	For additional of USB port (for use with cable SR2CBL01) length: 1.8m	SR2CBL06

Memory cartridges



SR2 MEM01

Description	Reference	
EEPROM memory cartridges	For use with firmware (software embedded in the smart relay) version ≤ 2.4	SR2MEM01
	For use with firmware (software embedded in the smart relay) version ≥ 3.0	SR2MEM02

Modem communication interface



SR2 COM01



SR2 MOD02

Description	For use with	Nominal voltage	Reference
Modem communication interface (including cable SR2 CBL07)	SR● B●●●● SR2 E●●●●	12...24Vdc	SR2COM01 (1)
Communication interface	For direct link of SR2/SR3 to XBTN401/XBTR411/XBTR511 only. Compatible with Zelio Soft V1.3 and above only		SR2CBL08
GSM Modem Type quad band 900/1800 MHz, 850/1900 MHz including: ● a supply cable (length 1.5 m), ● an antenna with cable (length 2.5 m), ● fixing on 5 rail (assembled with the GSM Modem) ● two lugs for plate mounting		12...24Vdc	SR2MOD02

(1) Can only be used with "Zelio Soft 2" software version ≥ 3.1 .

Regulated switch mode with automatic reset: Modular range



ABL 8ME-M05040P12020/240T2



ABL 8MEM24003/24006



ABL 7RM24025

Input voltage	Secondary			Reset	Reference
	Output voltage	Nominal power	Nominal current		
Single-phase (N-L1) or 2-phase (L1-L2) connection					
100...240 V ac	5 V dc	20 W	4 A	Automatic	ABL8MEM05040
-15%, + 10%	12 V dc	25 W	2 A	Automatic	ABL8MEM12020
50/60 Hz	24 V dc	7 W	0.3 A	Automatic	ABL8MEM24003
		15 W	0.6 A	Automatic	ABL8MEM24006
		30 W	1.2 A	Automatic	ABL8MEM24012
		60 W	2.5 A	Automatic	ABL7RM24025

Regulated switch mode: Optimums range

Input voltage	Secondary			Reset	Reference
	Output voltage	Nominal power	Nominal current		
Single-phase (N-L1) or phase-to-phase (L1-L2) connection					
100...240 V ac	24 V dc	70 W	3 A	Automatic	ABL8REM24030
-15%, + 10%		120 W	5 A	Automatic	ABL8REM24050
50/60 Hz					

Regulated switch mode with automatic or manual reset: Universal range



ABL 8RPS24030



ABL 8RPM24200



ABL 8RPS24200

Input voltage	Secondary			Reset	Reference
	Output voltage	Nominal power	Nominal current		
Single-phase (N-L1) or phase-to-phase (L1-L2) connection					
100...120 V	24...28.8 V	70 W	3 A	Automatic	ABL8RPS24030
200...500 V ac	dc	120 W	5 A	Automatic	ABL8RPS24050
-15%, + 10%		240 W	10 A	Automatic	ABL8RPS24100
50/60 Hz					
100...120 V	24...28.8 V	480 W	20 A	Automatic	ABL8RPM24200
200...240 V ac	dc				
-15%, + 10%					
50/60 Hz					
3-phase connection (L1-L2-L3)					
380...500 V ac	24...28.8 V	480 W	20 A	Automatic	ABL8WPS24200
± 10%	dc	960 W	40 A	Automatic	ABL8WPS24400
50/60 Hz					

Power supplies

Modular, Optimum, Universal

Phaseo ABL7, ABL8

Function modules for continuity of service



ABL8BUF24400



ABL8BBU24200



ABL8RED24400

Function	Use	Description	Reference
Continuity after a power outage	Holding time 100ms at 40A and 2s at 1A	Buffer module	ABL8BUF24400
	Holding time 9 min at 40A...2hrs at 1A(depending on use with a battery check module-battery unit and load)	Battery back-up module 20A output current	ABL8BBU24200
		Battery back-up module 40Aoutputcurrent	ABL8BBU24400
	Battery module (2)	3.2Ah	ABL8BPK24A03
7Ah		ABL8BPK24A07	
12Ah		ABL8BPK24A12	
Continuity after amal function	Paralleling and redundancy of the power supply to ensure uninterrupted operation of the application excluding AC line failures and application overloads	Redundancy module	ABL8RED24400
Discriminating downstream protection	Electronic protection(1...10A overload & short-circuit) with 4 output terminals from a Universal range Phaseo power supply	Protection module with 2-pole breaking (4)(3)	ABL8PRP24100

Converters DC/AC (for use with Universal range of Phaseo power supplies)

Primary(5)	Secondary		Reference
	Input voltage	Output voltage	
24Vdc	2.2A	5...6.5Vdc	6A ABL8DCC05060
-9%,+24%	1.7A	7...15Vc	2A ABL8DCC12020

Separate and replacement parts

Designation	Description	Composition	Reference
Fuse assemblies	For ABL8PR●24100 discriminating Protection modules	4x3A, 4x7.5A and 4x 15A	ABL8FUS01
	For ABL8BKP24A●● Battery	4x20A and 6x30A (2)	ABL8FUS02
Cables	Connection cable between ABL8BBU and PC for updating the software	RS2323m	SR2CBL01
		USB3m	SR2USB01
EEPROM memory	Backup and duplication of ABL8BBU parameters		SR2MEM02

(1)For table of compatibility of battery check module-battery unit with holding time depending on the load, see catalogue.

(2)Supplied with 20 or 30A fuse depending on the model.

(3)Supplied with four 15A fuses.

(4) Local reset via pushbutton or automatic reset one limination of the fault and diagnostic relay.

(5) Voltage from a 24V dc Universal range Phaseo power supply.

3

ABL1REM single-phase regulated switch mode power supplies



ABL 1REM24025

Mains input voltage 47...63 Hz	Output voltage	Rated power	Rated current	Automatic protection reset	Complies with standard EN 61000-3-2	Reference
V	V d.c.	W	A			
AC 100...240 (1)	12	60	5	auto	no	ABL1REM12050
Single phase						
wide range	24	60	2.5	auto	no	ABL1REM24025
		100	4.2	auto	no	ABL1REM24042
AC 100...120/ 200...240 (2)	24	150	6.2	auto/man	no	ABL1REM24062
Single phase		240	10	auto/man	no	ABL1REM24100

ABL1RPM single-phase regulated switch mode power supplies



ABL 1RPM24042



ABL 1RPM24062



ABL 1RPM24100

Mains input voltage 47...63 Hz	Output voltage	Rated power	Rated current	Automatic protection reset	Complies with standard EN 61000-3-2	Reference
V	V d.c.	W	A			
AC 100...240 (1)	12	100	8.3	auto	yes	ABL1RPM12083
Single phase						
wide range	24	100	4.2	auto	yes	ABL1RPM24042
AC 100...120/ 200...240 (2)	24	150	6.2	auto	yes	ABL1RPM24062
Single phase		240	10	auto	yes	ABL1RPM24100

(1) Compatible input voltage 120...370 Vdc not indicated on the product.

(2) Compatible input voltage 180...370 Vdc not indicated on the product.

Connections

Connections

Terminal blocks

AB1VV passthrough, screw technology terminal blocks	4-1
AB1TP protective earth, screw technology terminal blocks	4-5
AB1ET double deck, screw technology terminal blocks	4-7
AB1 marking accessories	4-8

Insulated cable ends

DZ5C insulated cable ends	4-9
AR1 marking accessories for insulated cable ends	4-10
Accessories for fitting markers	4-10

Terminal blocks

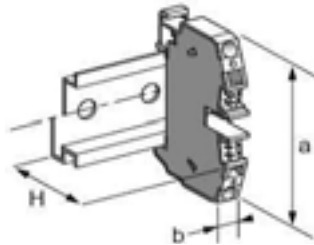
Screw technology

Passthrough

Clip-on mounting on 35 mm rails

Nominal c.s.a.

2.5 mm²



AB1 VV235U

Dimensions in mm	Parameter	Value
1	Length	a 40
	Width	b 5
	Height with AM1 ED	56
	Height with AM1 D	48.5
	Height with DZ5 MB	53

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 to 2.5
Flexible cable with cable end	0.5 to 1.5
Solid cable	0.5 to 4

Nominal electrical values

IEC/EN 60947-7-1 (1)	800 V / 8 kV / 3 - 24 A
UL	22 - 12 AWG, 600 V, 20 A
CSA	24 - 12 AWG, 600 V, 25 A
UTE, category C	~ 500 V, 500 V
VDE, group C	~ 750 V, 900 V, 26 A

Terminal blocks

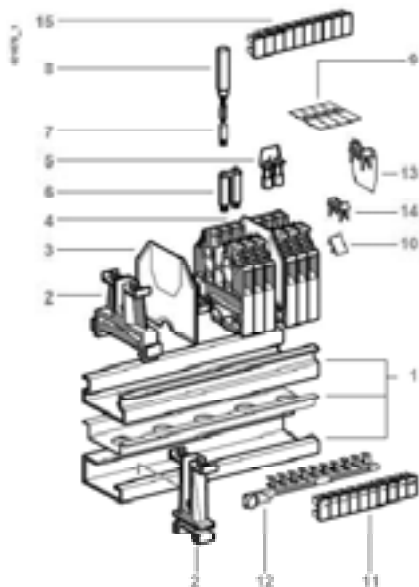
	No. points	Sold in lot of	Unit reference	\$\$
Grey	-	100	AB1VV235U	
Blue	-	100	AB1VV235UBL	
Orange	-	100	AB1VV235UGE	

Accessories (Dimensions in mm)

2	Plastic end stop	Width 7.5 on	-	100	AB1AB7P32
		Width 8 on or	-	100	AB1AB8P35
2	Metal end stop	Width 8 on or	-	100	AB1AB8M35
3	End plate (thickness 1.5)	Grey	-	50	AB1AC24
		Blue	-	50	AB1AC24BL
4	Partition plate (thickness 1.5)	Grey	-	50	AB1AS24
5	Commoning link with screws	Non insulated	80	10	AB1AL2
		Insulated (2)	2	10	AB1ALN22
			10	10	AB1ALN210
6	Pivoting commoning link for 2 blocks (1)		2	50	AB1BL2
7	Socket for test plug		-	50	AB1A2 (Ø 2.3 mm)
8	Test plug		-	50	AB1AT1 (red)
9	"Danger" live terminals cover		4	100	AB1CS2
10/12	Marking accessories		See page 4-8		
13	Yellow partition plate		1	100	AB1CJ2
14/15	Yellow prot. cover	Single point	1	100	AB1CA2

(1) Where pivoting commoning links are used, the voltage rating is reduced to 380 V or 400/6 kV/3.

(2) Depending on the size of the terminal block, other commoning links between 2 to 12 points are available (please consult your Regional Sales Office).



4

Clip-on mounting on 35 mm rails

4 mm²



AB1 VV435U***

40
6
56
48.5
53

0.5 to 4


0.5 to 2.5


0.5 to 6

800 V / 8 kV / 3 - 32 A

22 - 10 AWG, 600 V, 30 A

20 - 10 AWG, 600 V, 40 A

~ 500 V,  500 V

~ 750 V,  900 V, 34 A

6 mm²



AB1 VV635U**

46
8
61
53.5
58

0.5 to 6


0.5 to 6

0.5 to 10

800 V / 8 kV / 3 - 41 A

22 - 8 AWG, 600 V, 50 A

20 - 8 AWG, 600 V, 45 A

~ 500 V,  500 V

~ 750 V,  900 V, 44 A

10 mm²



AB1 VVN1035U**

51
10
62.5
55
59.5

0.5 to 10


0.5 to 10.

6 to 16

800 V / 8 kV / 3 - 57 A

16 - 6 AWG, 600 V, 65 A

16 - 6 AWG, 600 V, 70 A

~ 500 V,  500 V

~ 750 V,  900 V, 63 A

Terminal blocks

No. points	Sold in lot of	Unit reference
-	100	AB1VV435U
-	100	AB1VV435UBL
-	100	AB1VV435UGE

No. points	Sold in lot of	Unit reference
-	100	AB1VV635U
-	100	AB1VV635UBL
-	100	AB1VV635UGE

No. points	Sold in lot of	Unit reference
-	50	AB1VVN1035U
-	50	AB1VVN1035UBL

Accessories (Dimensions in mm)

-	100	AB1AB7P32
-	100	AB1AB8P35
-	100	AB1AB8M35
-	50	AB1AC24
-	50	AB1AC24BL

-	100	AB1AB7P32
-	100	AB1AB8P35
-	100	AB1AB8M35
-	50	AB1AC6
-	50	AB1AC6BL

-	100	AB1AB7P32
-	100	AB1AB8P35
-	100	AB1AB8M35
-	10	AB1ACN10
-	10	AB1ACN10BL

-	50	AB1AS24
---	----	----------------

-	50	AB1AS6
---	----	---------------

-	10	AB1ASN10
---	----	-----------------

70	10	AB1AL4
2	10	AB1ALN42
10	10	AB1ALN410
2	50	AB1BL4
-	50	AB1A4 (Ø 2.3 mm)
-	50	AB1AT1 (red)

40	10	AB1AL6
2	10	AB1ALN62
10	10	AB1ALN610
2	50	AB1BL6
-	50	AB1A6 (Ø 4 mm)
-	50	AB1AT2 (black)

40	10	AB1ALN10
2	10	AB1ALN102
10	10	AB1ALN1010
2	50	AB1BL16
-	50	AB1A10 (Ø 4 mm)
-	50	AB1AT2 (black)

See page 4-8

1	100	AB1CJ4
1	100	AB1CA4

See page 4-8

1	100	AB1CJ6
1	100	AB1CA6

See page 4-8

1	100	AB1CJN10
1	100	AB1CA10

Terminal blocks

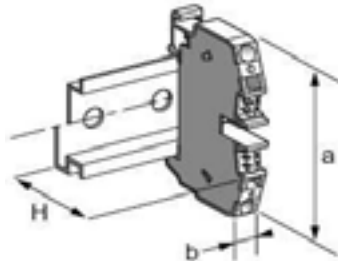
Screw technology

Passthrough

Clip-on mounting on 35 mm rails

Nominal c.s.a.

16 mm²



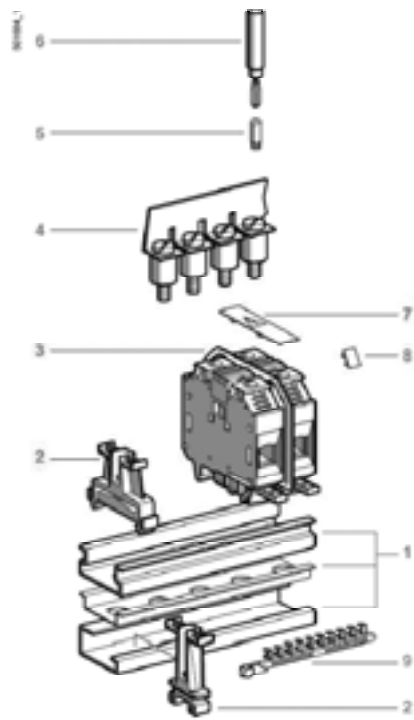
AB1 VVN1635U

Dimensions in mm	Length	a	57.5
	Width	b	12
	Height with AM1 ED		65
	Height with AM1 D		57.5
	Height with DZ5 MB		62
Cabling c.s.a. in mm ²			
	Flexible cable without cable end		4 to 16
	Flexible cable with cable end		4 to 16
	Solid cable		10 to 25
Nominal electrical values			
	IEC/EN 60947-7-1 (1)		800 V / 8 kV / 3 - 76 A
	UL		12 - 4 AWG, 600 V, 85 A
	CSA		14 - 4 AWG, 600 V, 95 A
	UTE, category C		~ 500 V, 500 V
	VDE, group C		~ 750 V, 900 V, 85 A

Terminal blocks			
No. points	Sold in lot of	Unit reference	
	50	AB1VVN1635U	

Accessories (Dimensions in mm)			
2	Plastic end stop	Width 7.5 on	- 100 AB1AB7P32
		Width 8 on	- 100 AB1AB8P35
2	Metal end stop	Width 8 on	- 100 AB1AB8M35
	End plate (thickness 1.5)	Grey	- 10 AB1ACN16
3	Partition plate (thickness 1.5)	Grey (thickness 2.0)	- 10 AB1ASN16
		Grey (thickness 3.0)	- - -
4	Commoning link with screws	Non insulated	30 10 AB1ALN16
		Insulated (1)	10 10 AB1ALN1610
5	Socket for test plug (Ø 4 mm)		- 50 AB1A16
6	Test plug (black)		- 50 AB1AT2
7	"Danger" live terminals cover		4 10 AB1CSN16
8/9	Marking accessories		See page 4-9
	Yellow partition plate		1 10 AB1CJN16
	Yellow protective cover		1 100 AB1CA16

(1) Depending on the size of the terminal block, other commoning links between 2 to 12 points are available (please consult our Sales Office).



4

Clip-on mounting on 35 mm rails

35 mm²





AB1 VVN3535U

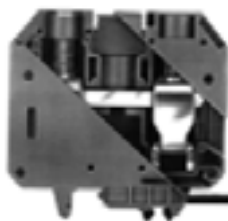
63
16
75.1
67.6
69

10 to 35

10 to 35
10 to 50

800 V / 8 kV / 3 - 125 A
10 - 2 AWG, 600 V, 95 A
12 - 2 AWG, 600 V, 110 A
~ 500 V,  500 V
~ 750 V,  900 V, 138 A

70 mm²





AB1 VVN7035U

75.2
24
88.7
81.2
82.7

10 to 70

10 to 70
16 to 95

800 V / 8 kV / 3 - 192 A
6 - 2/0 AWG, 600 V, 175 A
6 - 2/0 AWG, 600 V, 170 A
~ 500 V,  500 V
~ 750 V,  900 V, 213 A

150 mm²





AB1 VVN15035U

91.7
28
106.1
98.6
100.1

35 to 150

35 to 150
35 to 185

800 V / 8 kV / 3 - 309 A
2/0 AWG - 350 kcmil, 600 V, 335 A
2/0 AWG - 300 kcmil, 600 V, 300 A
~ 500 V,  500 V
~ 750 V,  900 V, 344 A

Terminal blocks

No. points	Sold in lot of	Unit reference
-	20	AB1VVN3535U

No. points	Sold in lot of	Unit reference
-	20	AB1VVN7035U

No. points	Sold in lot of	Unit reference
-	10	AB1VVN15035U

Accessories (Dimensions in mm)

-	100	AB1AB7P32
-	100	AB1AB8P35
-	100	AB1AB8M35

-	100	AB1AB7P32
-	100	AB1AB8P35
-	100	AB1AB8M35

-	100	AB1AB7P32
-	100	AB1AB8P35
-	100	AB1AB8M35

-	10	AB1ASN35
---	----	----------

-	-	-
-	10	AB1ASN70

-	-	-
-	-	-

20	10	AB1ALN35
----	----	----------

2	10	AB1ALN702
---	----	-----------

2	10	AB1ALN1502
---	----	------------

-	20	AB1A35
-	50	AB1AT2

4	10	AB1CSN35
---	----	----------

See page 4-9

4	10	AB1CSN70
---	----	----------

See page 4-9

4	10	AB1CSN150
---	----	-----------

See page 4-9

1	50	AB1CA35
---	----	---------

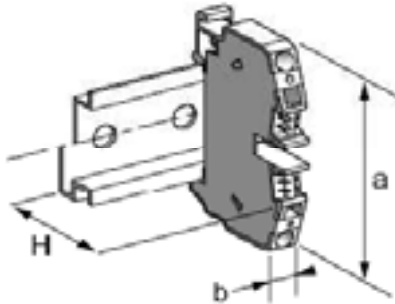
Terminal blocks

Screw technology

Protective earth

Clip-on mounting on 35 mm rails

Nominal c.s.a.



4 mm²



AB1 TP435U

6 mm²



AB1 TP635U

Dimensions in mm

Length	a	51	54
Width	b	6	8
Height with AM1 ED		56	61
Height with AM1 D		48.5	53.5
Height with DZ5 MB		53	58

Cabling c.s.a. in mm²

Flexible cable without cable end	0.5 to 4	0.5 to 6
Flexible cable with cable end	0.5 to 2.5	0.5 to 6
Solid cable	0.5 to 6	0.5 to 10

Nominal electrical values

IEC/EN 60947-7-2	800 V / 8 kV / 3 - 32 A	800 V / 8 kV / 3 - 41 A
UL	22 - 10 AWG, 600 V	22 - 8 AWG, 600 V
CSA	20 - 10 AWG, 600 V	24 - 8 AWG, 600 V
VDE, group C	~ 750 V, 900 V, 35 A	~ 750 V, 900 V, 46 A

Terminal blocks

Grey/yellow

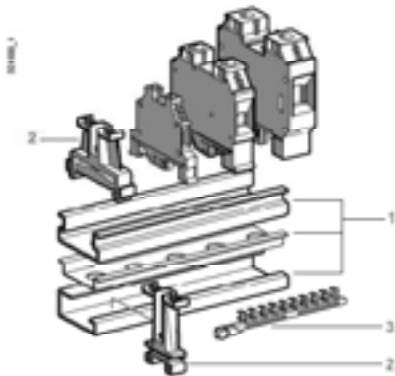
No. points	Sold in lot of	Unit reference
-	100	AB1TP435U

No. points	Sold in lot of	Unit reference
-	100	AB1TP635U

Accessories (Dimensions in mm)

2 Plastic end stop	Width 7.5 on	-	100	AB1AB7P32	-	100	AB1AB7P32
2 Metal end stop	Width 8 on	-	100	AB1AB8P35	-	100	AB1AB8P35
3 Marking accessories	Width 8 on	-	100	AB1AB8M35	-	100	AB1AB8M35

See page 4-8



Clip-on mounting on 35 mm rails

10 mm²



AB1 TP1035U

54
10
62.5
55
59.5

2.5 to 10

2.5 to 10
6 to 16

800 V / 8 kV / 3 - 57 A
16 - 6 AWG, 600 V
16 - 6 AWG, 600 V
~ 750 V, 900 V, 63 A

No. points	Sold in lot of	Unit reference
-	50	AB1TP1035U

-	100	AB1AB7P32
-	100	AB1AB8P35
-	100	AB1AB8M35

16 mm²



AB1 TP1635U

57.5
12
65
57.5
62

4 to 16

4 to 16
10 to 25

800 V / 8 kV / 3 - 76A
12 - 4 AWG, 600 V
14 - 4 AWG, 600 V
~ 750 V, 900 V, 85 A

No. points	Sold in lot of	Unit reference
-	50	AB1TP1635U

-	100	AB1AB7P32
-	100	AB1AB8P35
-	100	AB1AB8M35

35 mm²



AB1 TP3535U

63
16
75.1
67.6
69

10 to 35

10 to 35
10 to 50

800 V / 8 kV / 3 - 125 A
10 - 2 AWG, 600 V
10 - 2 AWG, 600 V
~ 750 V, 900 V, 138 A

No. points	Sold in lot of	Unit reference
-	20	AB1TP3535U

-	100	AB1AB7P32
-	100	AB1AB8P35
-	100	AB1AB8M35

See page 4-8

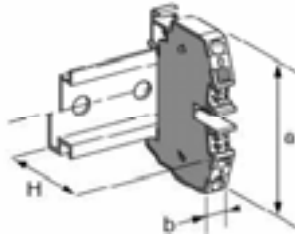
Terminal blocks

Screw technology

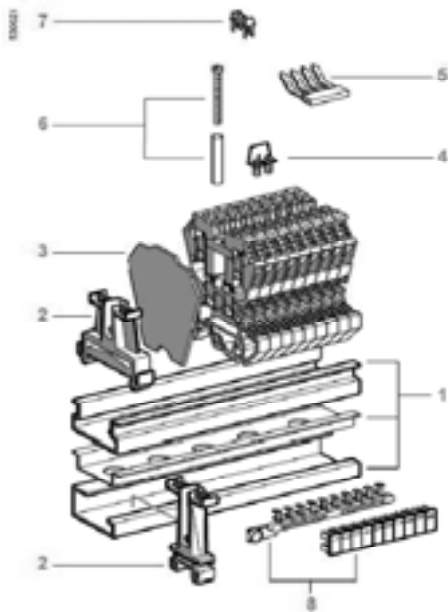
Double deck




Clip-on mounting on 35 mm rails

Nominal c.s.a.



4 mm²


AB1 ET435U








Dimensions in mm	Length	a	61.6
	Width	b	6
Height with AM1 ED●		70.5	
Height with AM1 D●●		63	
Height with DZ5 MB●		67.5	

Cabling c.s.a. in mm ²	
Flexible cable without cable end	0.5 to 4
Flexible cable with cable end	0.5 to 2.5
Solid cable	0.5 to 4

Nominal electrical values	
IEC/EN 60947-7-1	400 V / 6 kV / 3 - 32A
UL	22 - 10 AWG , 300 V, 20 A
CSA	20 - 12 AWG , 300 V, 10 A
UTE, category C	~ 400 V,  250 V
VDE, group C	~ 380 V,  450 V, 34 A

Terminal blocks		No.	Sold in	Unit
		points	lot of	reference
2 I, 2 O	 Grey	2	100	AB1ET435U

Accessories (Dimensions in mm)				
2 Plastic end stop	Width 7.5 on 	-	100	AB1AB7P32
	Width 8 on  or 	-	100	AB1AB8P35
2 Metal end stop	Width 8 on  or 	-	100	AB1AB8M35
3 End plate	Grey (thickness 1.5)	-	50	AB1TE
4 Commoning link with screws	2-pole (non insulated)	2	50	AB1BE2
	70-pole (non insulated)	30	10	AB1BE
5 Commoning link	Lower, 2 poles	2	100	AB1CC42INFRO
	Lower, 6 poles	6	100	AB1CC46INFRO
	Upper, 2 poles	2	100	AB1CC42SUPRO
	Upper, 6 poles	6	100	AB1CC46SUPRO
6 Commoning link between 2 decks		-	50	AB1L2ET
7 Commoning link cover	Single point	1	100	AB1CA4
8 Marking accessories		See page 4-8		

Terminal blocks

Marking accessories (1)

Strips of clip-in markers (2), (3)

10 identical numbers (or symbols)

AB1 R●●



Sold in lots of 25 identical strips

Marking	Reference of 10 number tag strip
---------	----------------------------------

Blank	AB1RV
1	AB1R1
2	AB1R2
3	AB1R3
4	AB1R4
5	AB1R5
6	AB1R6
7	AB1R7
8	AB1R8
9	AB1R9
0	AB1R0
+	AB1R12
-	AB1R13

10 numbers 0 to 9

AB1 R11



Sold in lots of 25 identical strips

Marking	Reference of 10 number tag strip
---------	----------------------------------

0...9	AB1R11
-------	---------------

10 identical capital letters

AB1 G●



Sold in lots of 25 identical strips

Marking	Reference of 10 number tag strip
---------	----------------------------------

A	AB1GA
B	AB1GB
C	AB1GC
D	AB1GD
E	AB1GE
F	AB1GF
G	AB1GG
H	AB1GH
I	AB1GI
J	AB1GJ
K	AB1GK
L	AB1GL
M	AB1GM

AB1 G●



Sold in lots of 25 identical strips

Marking	Reference of 10 number tag strip
---------	----------------------------------

N	AB1GN
O	AB1GO
P	AB1GP
Q	AB1GQ
R	AB1GR
S	AB1GS
T	AB1GT
U	AB1GU
V	AB1GV
W	AB1GW
X	AB1GX
Y	AB1GY
Z	AB1GZ

Marking components

Holder for 6 markers

AB1 SR6



Sold in lots of 200

Unit reference

Holder for	AB1SR6
up to 6	
AB1R or	
G markers	

Blank clip-on marker

AB1 SA●



Sold in lots of 500

Size mm	Unit reference
---------	----------------

4.5 x 8.3	AB1SA1
4.5 x 14	AB1SA2
4.5 x 19	AB1SA3

Clip-on marker with earth symbol (4)

AB1 RT



Sold in lots of 500

Size mm	Unit reference
---------	----------------

4.5 x 8.3	AB1RT
-----------	--------------

Marker holder

Marker holder for screw fixing to any type of support

AR1SB2



Sold in lots of 100

Size mm	Unit reference
---------	----------------

20 x 20	AR1SB2
---------	---------------

Adhesive marker holder for fixing to any type of support

AR1SB3



Sold in lots of 50

Size mm	Unit reference
---------	----------------

20 x 10	AR1SB3
---------	---------------

(1) For terminal blocks type AB1 or DB6, but can also be used with other Schneider Electric products such as thermal-magnetic circuit-breakers, modular contactors, model D and E range contactors, etc.

(2) Mounting possibilities: each side of the terminal block can be fitted with 4 markers (each 1 number or letter) or, alternatively, 6 AB1 R or G markers (see above), by using holder AB1 SR6.

(3) Dimensions of clip-in markers on the strips: 4.5 mm x 2.7 mm.

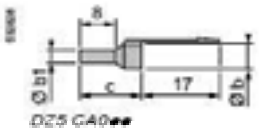
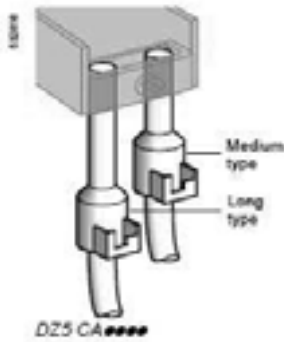
(4) Black on white background.

(5) Price is for lot size.

Insulated cable ends

Conforming to standard NF C 63-023

Marking accessories



Single conductor markable cable ends (Packed in "strings" of bags)

Conductor c.s.a.	Colour	Type		Dimensions				Sold in lots of	Unit reference
				Ø b	Ø b1	c	c1		
mm2	AWG			mm	mm	mm	mm		
0.25	26	Yellow	Medium	2.2	1.2	13	-	1000	DZ5CA002
0.34	24	Green	Medium	2.2	1.2	13	-	1000	DZ5CA003
0.5	22	White	Medium	3	1.4	13	-	1000	(1) DZ5CA005
0.75	20	Blue	Medium	3.1	1.6	13	-	1000	(1) DZ5CA007
1	18	Red	Medium	3.4	1.8	13.5	-	1000	(1) DZ5CA010
1.5	16	Black	Medium	4	2.1	13.5	-	1000	(1) DZ5CA015
2.5	14	Grey	Medium	4.6	2.7	14.5	-	1000	(1) DZ5CA025

Single conductor markable cable ends (Packed in "strings" of bags)

Conductor c.s.a.	Colour	Type		Dimensions				Sold in lots of	Unit reference
				Ø b	Ø b1	c	c1		
mm2	AWG			mm	mm	mm	mm		
4	12	Orange	Medium	5.5	3.3	17.3	9.8	1000	(1) DZ5CA042
			Long	5.5	3.3	25.5	17.5	1000	(1) DZ5CA043
6	10	Green	Medium	7	3.95	20	11.5	100	DZ5CA062
			Long	7	3.95	26	17.5	100	DZ5CA063
10	8	Brown	Medium	8.4	4.95	21.5	12	100	DZ5CA102
			Long	8.4	4.95	27	17.5	100	DZ5CA103
16	6	White	Medium	8.8	6.35	23.5	12	100	DZ5CA162
			Long	8.8	6.35	29	17.5	100	DZ5CA163
25	4	Black	Medium	12	8.15	30	17.5	100	DZ5CA253
35	2	Red	Medium	13.5	9	30	16	20	DZ5CA352
			Long	13.5	9	39	25	20	DZ5CA353
50	0	Blue	Medium	15.7	11	36	20	20	DZ5CA502
			Long	15.7	11	41	25	20	DZ5CA503

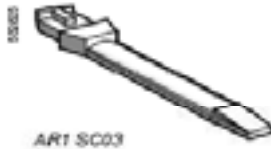
(1) UL certified products

Insulated cable ends

Conforming to standard NF C 63-023

Marking accessories

unit price (excl. GST in Singapore Dollars)



Marking accessories for insulated, markable cable ends

Description	Sold in lots of	Unit reference
Clip-on marker tag (1) (for cables 1 to 1.5 mm ²)	100	AR1SC02
Clip-in marker tag holder (1) (for single conductor cable ends DZ5 CApppp, see page opposite)	100	AR1SC03
Wallets of 200 markers	Letters	1 lot (3) AR1MB01
for DZ5 CA cable ends or clip-on marker tags (2)		1 card (4) AR1MB01●

Accessories for fitting markers

Description	Application	Reference
Marker holder	Comprises 10 empty compartments which can each hold 100 AR1 MA01 or AR1 MB01 markers	AT1PS1
Tool for quick positioning of	On cable end tags	AT1PA1

AR1 Mp01 markers

- (1) For rapid clip-on mounting of up to 7 markers AR1 M●●●.
- (2) Each lot also comprises 400 earth markers (200 green and 200 yellow), 200 + symbols, 200 – symbols and 1 marker positioning tool.
- (3) A to Z (200 of each).
- (4) Complete the reference by replacing the dot with the required letter. Each lot includes a card of 200 yellow markers with black letters.

Detection

Photo-electric sensors

OsiSense XU	
Design 18, plastic & metal	5-1
Miniature design	5-4
Compact design	5-6
OsiSense XU, accessories	5-10

Inductive proximity sensors

OsiSense XS	
General purpose, cylindrical flush mountable	5-12
General purpose, flat format flush and non flush mountable	5-17
Plastic, cylindrical, non flush mountable	5-20
Metal, cylindrical, flush and non flush mountable	5-22
Miniature, cylindrical flush and not flush mountable	5-24
OsiSense XS, application	
Cylindrical, flush mountable and non flush mountable	5-25
OsiSense XS, accessories	5-26

Limit switches

OsiSense XC, standard	
Miniature design, metal	5-27 to 28
Miniature design, metal, variable composition	5-29 to 30
Compact design, metal & plastic	5-32 to 36
Compact design, metal & plastic, variable composition	5-37 to 39
Compact design, metal & plastic, with reset	5-40 to 42
Classic format	5-44
Industrial format EN 50041	5-45
OsiSense XC, basic	
Miniature design, plastic	5-31
Compact design, plastic	5-43
OsiSense XC, special	5-46

Sensors for pressure control

OsiSense XM, electromechanical pressure switches	
Fixed differential, for detection of a single threshold	5-47
Adjustable differential, for regulation between 2 thresholds	5-48 to 49
For control circuits	5-50
Adjustable differential, for regulation between 2 thresholds, IP54	5-51

Machine cabling accessories

OsiSense XZ	
Pre-wired connectors, Ø8 mm and M8	5-52
Pre-wired connectors, M12	5-53
Pre-wired connectors, 1/2" 20UNF and 7/8" 16UN	5-54

Photo-electric sensors

OsiSense XU, single mode function

Design 18, plastic

Three-wire DC, solid-state output

unit price (excl. GST in Singapore Dollars)



XUD ●A●NM12



XUB ●A●NL2



XUB ●A●WM12



XUB ●A●WL2



XUZ C50

Connector				
Sensing distance (Sn) m	Function	Output	Line of sight	Reference
Diffuse system				
0.1 m	NO (Object detection)	PNP	Along case axis	XUB4APANM12
		NPN	90°to case axis	XUB4APAWM12
	NC	PNP	Along case axis	XUB4ANANM12
			90°to case axis	XUB4ANAWM12
		NPN	Along case axis	XUB4APBNM12
			90°to case axis	XUB4APBWM12
0.6 m	NO (Object detection)	PNP	Along case axis	XUB5APANM12
		NPN	90°to case axis	XUB5APAWM12
	NC	PNP	Along case axis	XUB5ANANM12
			90°to case axis	XUB5ANAWM12
		NPN	Along case axis	XUB5APBNM12
			90°to case axis	XUB5APBWM12
Diffuse system with adjustable sensitivity				
2 m	NO (Object detection)	PNP	Along case axis	XUB9APANM12
		NPN	90°to case axis	XUB9APAWM12
	NC	PNP	Along case axis	XUB9ANANM12
			90°to case axis	XUB9ANAWM12
		NPN	Along case axis	XUB9APBNM12
			90°to case axis	XUB9APBWM12
Polarised Reflex system (1)				
4 m	NO (Object detection)	PNP	Along case axis	XUB1APANM12
		NPN	90°to case axis	XUB1APAWM12
	NC	PNP	Along case axis	XUB1ANANM12
			90°to case axis	XUB1ANAWM12
		NPN	Along case axis	XUB1APBNM12
			90°to case axis	XUB1APBWM12
Reflex system (1)				
15 transmitter	NO (Object detection)	PNP	Along case axis	XUB2APANM12R
		NPN	90°to case axis	XUB2APAWM12R
	NC	PNP	Along case axis	XUB2ANANM12R
			90°to case axis	XUB2ANAWM12R
		NPN	Along case axis	XUB2APBNM12R
			90°to case axis	XUB2APBWM12R
Reflector (50 x 50mm)				
				XUZC50
<i>(1) Need to order reflector as complete system, but not necessary for replacement sensor.</i>				
Thru-beam system (2)				
15 transmitter				
	-	-	Along case axis	XUB2AKSNM12T
			90°to case axis	XUB2AKSWM12T
15 receiver				
NO (Object detection)	PNP	Along case axis	XUB2APANM12R	
		90°to case axis	XUB2APAWM12R	
NC	PNP	Along case axis	XUB2ANANM12R	
		90°to case axis	XUB2ANAWM12R	
	NPN	Along case axis	XUB2APBNM12R	
		90°to case axis	XUB2APBWM12R	
<i>(2) It is necessary to order transmitter and receiver as complete system</i>				

Fixing accessories

See page 5-3

Pre-cable

For a pre-cable sensor, **replace M12 with L2** for a 2m cable, **same price as M12**, or replace **M12 by L5** for a 5m cable with **an added price of \$11.00**

Example: XUB1APANM12 becomes XUB1APANL2 for a 2m cable and XUB1APANL5 for a 5m cable.

Photo-electric sensors

OsiSense XU, single mode function

Design 18, metal

Three-wire DC, solid-state output

unit price (excl. GST in Singapore Dollars)



XUB ●B●●NM12



XUB ●B●●NL2



XUB ●B●●WM12



XUB ●B●●WL2



XUZ C50

Connector					
Sensing distance (Sn) m	Function	Output	Line of sight	Reference	
Diffuse system					
0.1	NO (Object detection)	PNP	Along case axis	XUB4BPANM12	
			90° to case axis	XUB4BPAWM12	
	NPN	Along case axis	XUB4BNANM12		
		90° to case axis	XUB4BNAWM12		
	NC	PNP	Along case axis	XUB4BPBNM12	
			90° to case axis	XUB4BPBWM12	
	NPN	Along case axis	XUB4BNBNM12		
			90° to case axis	XUB4BNBWM12	
Diffuse system with adjustable sensitivity					
0.6	NO (Object detection)	PNP	Along case axis	XUB5BPANM12	
			90° to case axis	XUB5BPAWM12	
	NPN	Along case axis	XUB5BNANM12		
		90° to case axis	XUB5BNAWM12		
	NC	PNP	Along case axis	XUB5BPBNM12	
			90° to case axis	XUB5BPBWM12	
	NPN	Along case axis	XUB5BNBNM12		
			90° to case axis	XUB5BNBWM12	
Polarised Reflex system (1)					
2	NO (Object detection)	PNP	Along case axis	XUB9BPANM12	
			90° to case axis	XUB9BPAWM12	
	NPN	Along case axis	XUB9BNANM12		
		90° to case axis	XUB9BNAWM12		
	NC	PNP	Along case axis	XUB9BPBNM12	
			90° to case axis	XUB9BPBWM12	
	NPN	Along case axis	XUB9BNBNM12		
			90° to case axis	XUB9BNBWM12	
Reflex system (1)					
4	NO (Object detection)	PNP	Along case axis	XUB1BPANM12	
			90° to case axis	XUB1BPAWM12	
	NPN	Along case axis	XUB1BNANM12		
		90° to case axis	XUB1BNAWM12		
	NC	PNP	Along case axis	XUB1BPBNM12	
			90° to case axis	XUB1BPBWM12	
	NPN	Along case axis	XUB1BNBNM12		
			90° to case axis	XUB1BNBWM12	
Reflector (50 x 50mm)				XUZC50	
<i>(1) Need to order reflector as complete system, but not necessary for replacement sensor.</i>					
Thru-beam system (2)					
15 transmitter		-	-	Along case axis	XUB2BKSNM12T
				90° to case axis	XUB2BKSWM12T
15 receiver	NO (Object detection)	PNP	Along case axis	XUB2BPANM12R	
			90° to case axis	XUB2BPAWM12R	
	NPN	Along case axis	XUB2BNANM12R		
		90° to case axis	XUB2BNAWM12R		
	NC	PNP	Along case axis	XUB2BPBNM12R	
			90° to case axis	XUB2BPBWM12R	
	NPN	Along case axis	XUB2BNBNM12R		
			90° to case axis	XUB2BNBWM12R	

(2) It is necessary to order transmitter and receiver as complete system

Fixing accessories

See page 5-3

Pre-cable

For a pre-cable sensor, **replace M12 by L2** for a 2m cable, **same price as M12**,

or replace **M12 by L5** for a 5m cable with **an added price of \$11.00**

Example: XUB4BPANM12 becomes XUB4BPANL2 for a 2m cable and XUB4BPANL5 for a 5m cable.

Photo-electric sensors

OsiSense XU multimode

Design 18, metal or plastic

Three-wire DC, solid-state output

unit price (excl. GST in Singapore Dollars)



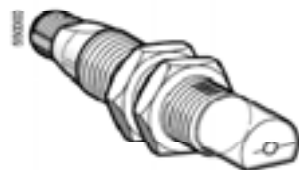
XUB 0...NL2



XUB 0...WL2



XUB 0...NM12



XUB 0...WM12



XUZ C50



XUZ B2003



XUZ A118



XUZ A218



XUZ 2001



XUZ 2003

Ø 18, Metal

Sensing distance (Sn) m	Function	Output	Line of sight	Reference
Pre-cable (1)				
0...15 depending on whether accessories are used	NO or NC, using Osiconcept	PNP	Along case axis	XUB0BPSNL2
			90° to case axis	XUB0BPSWL2
	NPN	Along case axis	XUB0BNSNL2	
		90° to case axis	XUB0BNSWL2	
M12 connector				
0...15 depending on whether accessories are used	NO or NC, using Osiconcept	PNP	Along case axis	XUB0BPSNM12
			90° to case axis	XUB0BPSWM12
	NPN	Along case axis	XUB0BNSNM12	
		90° to case axis	XUB0BNSWM12	
Accessories				
Description	Type	Connection	Line of sight	Reference
Transmitter for Thru-beam	-	Pre-cabled (2m) (1)	Along case axis	XUB0BKSNL2T
			90° to case axis	XUB0BKSWL2T
		M12 connector	Along case axis	XUB0BKSNM12T
			90° to case axis	XUB0BKSWM12T
Reflector 50 x 50 mm				XUZC50

Ø 18, Plastic

Sensing distance (Sn) m	Function	Output	Line of sight	Reference
Pre-cable (1)				
0...15 depending on whether accessories are used	NO or NC, using Osiconcept	PNP	Along case axis	XUB0APSNL2
			90° to case axis	XUB0APSWL2
	NPN	Along case axis	XUB0ANSNL2	
		90° to case axis	XUB0ANSWL2	
M12 connector				
0...15 depending on whether accessories are used	NO or NC, using Osiconcept	PNP	Along case axis	XUB0APSNM12
			90° to case axis	XUB0APSWM12
	NPN	Along case axis	XUB0ANSNM12	
		90° to case axis	XUB0ANSWM12	
Accessories				
Description		Connection (1)	Line of sight	Reference
Thru-beam transmitter	-	Pre-cabled (2m)	Along case axis	XUB0AKSNL2T
			90° to case axis	XUB0AKSWL2T
		M12 connector	Along case axis	XUB0AKSNM12T
			90° to case axis	XUB0AKSWM12T
Reflector 50 x 50 mm		-	-	XUZC50
Fixing accessories				
Description				Reference
3D fixing kit for use on M12 rod for XUB or XUZC50				XUZB2003
M12 rod				XUZ2001
Support for M12 rod				XUZ2003
Metal bracket				XUZA118
Mounting bracket adjustable with ball-joint				XUZA218

(1) For an output with a 5 m long cable, replace L2 by L5 with an added price of S\$11.00

Example XUB0BPSNL2 becomes XUB0BPSNL5.

5

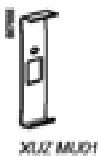
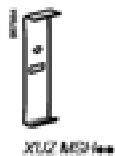
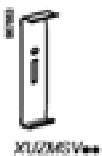
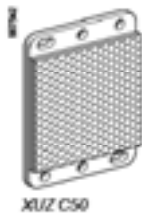
Photo-electric sensors

OsiSense XU, general purpose, single mode function

Miniature design, plastic

Three-wire DC, solid-state output, NO/NC configuration switch

Unit price (excl. GST) in Singapore Dollars



Sensing distance Sn (mm)	Function	Output	Connection	Reference
Diffuse system with adjustable sensitivity				
1 m	NO/NC configuration switch	PNP	Pre-cabled (L = 2 m)	XUM5APCNL2
			M8 connector	XUM5APCNM8
	NPN	Pre-cabled (L = 2 m)	XUM5ANCNL2	
		M8 connector	XUM5ANCNM8	

Polarised reflex system with adjustable sensitivity				
5 m with reflector XUZ C50	NO/NC configuration switch	PNP	Pre-cabled (L = 2 m)	XUM9APCNL2
			M8 connector	XUM9APCNM8
2 m with reflector XUZ C08	NO/NC configuration switch	NPN	Pre-cabled (L = 2 m)	XUM9ANCNL2
			M8 connector	XUM9ANCNM8

Reflectors				
Universal reflector 50 x 50 mm	-	-	-	XUZC50
Lateral reflector 8.6 x 29.5 mm	-	-	-	XUZC08

Thru-beam system (transmitter + receiver) with adjustable sensitivity				
15 m	NO/NC configuration switch	PNP	Pre-cabled (L = 2 m)	XUM2APCNL2
			M8 connector	XUM2APCNM8
	NPN	Pre-cabled (L = 2 m)	XUM2ANCNL2	
		M8 connector	XUM2ANCNM8	

Transmitter only				
15 m			Pre-cabled (L = 2 m)	XUM2AKCNL2T
			M8 connector	XUM2AKCNM8T

Receiver only				
15 m	NO/NC configuration switch	PNP	M8 connector	XUM2APCNM8R
		NPN	M8 connector	XUM2ANCNM8R

Accessories for thru-beam system					
Description	Dimensions mm		Sensing distance m	Reference	
Vertical diaphragm	0.5 x 6.4		1.2	XUZMSV05	
	1 x 6.4		3	XUZMSV10	
	Sold in lots of 2	1.5 x 6.4		4	XUZMSV15
		2 x 6.4		5	XUZMSV20
Horizontal diaphragm	0.5 x 6.4		1.2	XUZMSH05	
	1 x 6.4		3	XUZMSH10	
	Sold in lots of 2	1.5 x 6.4		4	XUZMSH15
		2 x 6.4		5	XUZMSH20
Anti-interference filter	-		7	XUZMU01	
Sold in lots of 4					

Fixing accessories	
Description	Reference
Base mounting fixing bracket	XUZAM01
Side mounting fixing bracket	XUZAM04
Vertical fixing bracket with protective cover (1)	XUZAM02
Horizontal fixing bracket with protective cover (1)	XUZAM03

(1) For pre-cable version.

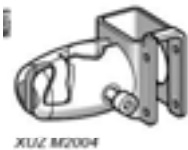
Photo-electric sensors

OsiSense XU, general purpose

Multimode function, Miniature design

Three-wire DC, solid-state output

unit price (excl. GST in Singapore Dollars)



Miniature design, d.c. supply

Sensing distance (Sn) m	Function	Output	Connection (1)	Reference
0 to 10 depending on whether accessories are used	NO or NC, using Osiconcept programming	PNP	Pre-cabled (2m) M8 connector	XUM0APSAL2 XUM0APSAM8
		NPN	Pre-cabled (2m) M8 connector	XUM0ANSAL2 XUM0ANSAM8

Accessories

Description	Connection (1)	Reference
Transmitter for Thru-beam	Pre-cabled (2m) M8 connector	XUM0AKSAL2T XUM0AKSAM8T
Reflector 50 x 50 mm		XUZC50

Fixing accessories

Description	Reference
3D fixing kit for use on M12 rod for XUM or XUZC50	XUZM2003
3D fixing kit for use on M12 rod and with protective cover for XUM	XUZM2004
M12 rod	XUZ2001
Support for M12 rod	XUZ2003
Mounting bracket	XUZA50

(1) For an output with a 5m long cable, replace L2 by L5 with an added price of S\$11.00
Example XUM0APSAL2 becomes XUM0APSAL5.

Photo-electric sensors

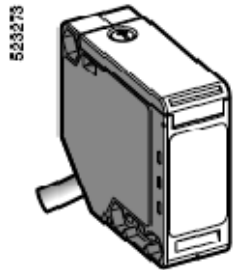
OsiSense XU, general purpose, single mode function

Compact design, 50 x 50

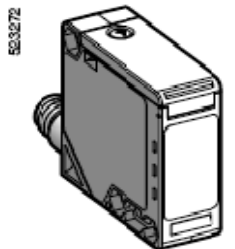
Five-wire AC or DC, 1 CO relay output.

Three-wire DC, solid-state output

unit price (excl. GST in Singapore Dollars)



XUK 5A...L2



XUK 9A...M12



XUZ CS0

Sensing distance (Sn) m	Function	Output	Connection (1)	Reference	
Diffuse system with adjustable sensitivity					
DC					
1	NO (Object detection)	PNP	Pre-cabled (2m) M12	XUK5APANL2 XUK5APANM12	
		NPN	Pre-cabled (2m) M12	XUK5ANANL2 XUK5ANANM12	
	NC	PNP	Pre-cabled (2m) M12	XUK5APBNL2 XUK5APBNM12	
		NPN	Pre-cabled (2m) M12	XUK5ANBNL2 XUK5ANBNM12	
	AC or DC				
	1	NO + NC	relay	Pre-cabled (2m)	XUK5ARCNL2
Polarised Reflex system (2)					
DC					
5	NO (Object detection)	PNP	Pre-cabled (2m) M12	XUK9APANL2 XUK9APANM12	
		NPN	Pre-cabled (2m) M12	XUK9ANANL2 XUK9ANANM12	
	NC	PNP	Pre-cabled (2m) M12	XUK9APBNL2 XUK9APBNM12	
		NPN	Pre-cabled (2m) M12	XUK9ANBNL2 XUK9ANBNM12	
	AC or DC				
	4	NO + NC	relay	Pre-cabled (2m)	XUK9ARCNL2
Reflex system (2)					
DC					
9	NO (Object detection)	PNP	Pre-cabled (2m) M12	XUK1APANL2 XUK1APANM12	
		NPN	Pre-cabled (2m) M12	XUK1ANANL2 XUK1ANANM12	
	NC	PNP	Pre-cabled (2m) M12	XUK1APBNL2 XUK1APBNM12	
		NPN	Pre-cabled (2m) M12	XUK1ANBNL2 XUK1ANBNM12	
	AC or DC				
	7	NO + NC	relay	Pre-cabled (2m)	XUK1ARCNL2
Reflector (50 x 50mm)				XUZC50	
<i>(2) Need to order reflector as complete system, but not necessary for replacement sensor.</i>					
Thru-beam system (3)					
DC					
30 Transmitter	-	-	Pre-cabled (2m) M12	XUK2AKSNL2T XUK2AKSNM12T	
30 Receiver	NO (Object detection)	PNP	Pre-cabled (2m) M12	XUK2APANL2R XUK2APANM12R	
		NPN	Pre-cabled (2m) M12	XUK2ANANL2R XUK2ANANM12R	
	NC	PNP	Pre-cabled (2m) M12	XUK2APBNL2R XUK2APBNM12R	
		NPN	Pre-cabled (2m) M12	XUK2ANBNL2R XUK2ANBNM12R	
	AC or DC				
	20 Transmitter	-	-	Pre-cabled (2m)	XUK2ARCNL2T
20 Receiver	NO + NC	relay	Pre-cabled (2m)	XUK2ARCNL2R	
<i>(3) It is necessary to order transmitter and receiver as complete system</i>					

Fixing accessories

See page 5-7

(1) For a 5m long cable, replace L2 to L5; for a 10m long cable, replace L2 by L10.

Example: **XUK1APANL2** becomes **XUK1APANL5** or **XUK1APANL10**

Replace L2 by L5 with an added price of **S\$10.80** and L2 to L10 with an added price of **S\$22.70**

Photo-electric sensors

OsiSense XU, general purpose, multimode function

Compact design 50 x 50

5-wire AC or DC, 1 CO relay output



XUK 0AKSAL2



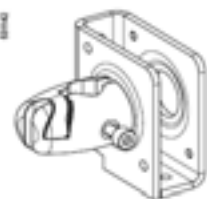
XUK 0AKSAM12



XUZ C50



XUZ K2003



XUZ K2004



XUZA51



XUZ 2001



XUZ 2003

Compact design 50 x 50

DC

Sensing distance (Sn) m	Function	Output	Connection (1) (2m)	Reference
0...30 depending on whether accessories are used	NO or NC, using Osiconcept programming	PNP/NPN	Pre-cabled M12 connector	XUK0AKSAL2 XUK0AKSAM12

Accessories

Description	Connection (1) (2m)	Reference
Transmitter for Thru-beam	Pre-cabled M12 connector	XUK0AKSAL2T XUK0AKSAM12T

Reflector (50 x 50mm)

AC or DC

Sensing distance (Sn) m	Function	Output	Connection (1) (2m)	Reference
0...30 depending on whether accessories are used	NO or NC, using Osiconcept programming	Time delayed relay	Pre-cabled (2m)	XUK0ARCTL2

Accessories

Description	Connection (2m)	Reference
Transmitter for Thru-beam	Pre-cabled (2m)	XUK0ARCTL2T
Reflector (50 x 50mm)		XUZC50

Fixing accessories

Description	Reference
3D fixing kit for use on M12 rod for XUK or XUZC50	XUZK2003
3D fixing kit for use on M12 rod, and with protective cover for XUK	XUZK2004

3D fixing kit

for use on M12 rod for XUK or XUZC50

3D fixing kit

for use on M12 rod, and
with protective cover for XUK

M12 rod

XUZ2001

Support for M12 rod

XUZ2003

Mounting bracket

XUZA51

(1) For a 10 m long cable, replace L2 by L10 with an added price of \$522.70

Example: XUK0AKSAL2 becomes XUK0AKSAL10.

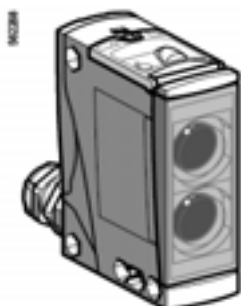
Photo-electric sensors

OsiSense XU, general purpose, single mode function

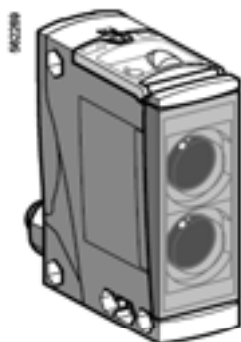
Compact design

Five-wire AC or DC, 1 CO relay output

Three-wire DC, solid-state output



XUX A...T16



XUX M...M12



XUZ C50

Sensing distance (Sn) m	Function	Output	Connection	Reference	
Diffuse system					
DC					
2.1	NO (Object detection)	PNP	Screw terminals (1) M12 connector	XUX5APANT16 XUX5APANM12	
		NPN	Screw terminals (1) M12 connector	XUX5ANANT16 XUX5ANANM12	
	NC	PNP	Screw terminals (1) M12 connector	XUX5APBNT16 XUX5APBNM12	
		NPN	Screw terminals (1) M12 connector	XUX5ANBNT16 XUX5ANBNM12	
	AC or DC				
	2.1	NO + NC	relay	Screw terminals (1)	XUX5ARCNT16
Polarised Reflex system (2)					
DC					
	NO (Object detection)	PNP	Screw terminals (1) M12 connector	XUX9APANT16 XUX9APANM12	
		NPN	Screw terminals (1) M12 connector	XUX9ANANT16 XUX9ANANM12	
	NC	PNP	Screw terminals (1) M12 connector	XUX9APBNT16 XUX9APBNM12	
		NPN	Screw terminals (1) M12 connector	XUX9ANBNT16 XUX9ANBNM12	
	AC or DC				
	11	NO + NC	relay	Screw terminals (1)	XUX9ARCNT16
Reflex system (2)					
DC					
14	NO (Object detection)	PNP	Screw terminals (1) M12 connector	XUX1APANT16 XUX1APANM12	
		NPN	Screw terminals (1) M12 connector	XUX1ANANT16 XUX1ANANM12	
	NC	PNP	Screw terminals (1) M12 connector	XUX1APBNT16 XUX1APBNM12	
		NPN	Screw terminals (1) M12 connector	XUX1ANBNT16 XUX1ANBNM12	
	AC or DC				
	14	NO + NC	relay	Screw terminals (1)	XUX1ARCNT16
Reflector (50 x 50mm)					
XUZC50					
<i>(2) Need to order reflector as complete system, but not necessary for replacement sensor.</i>					
Thru-beam system (3)					
DC					
40 Transmitter	-	-	Screw terminals (1) M12 connector	XUX0AKSAT16T XUX0AKSAM12T	
40 Receiver	NO (Object detection)	PNP	Screw terminals (1) M12 connector	XUX2APANT16R XUX2APANM12R	
		NPN	Screw terminals (1) M12 connector	XUX2ANANT16R XUX2ANANM12R	
	NC	PNP	Screw terminals (1) M12 connector	XUX2APBNT16R XUX2APBNM12R	
		NPN	Screw terminals (1) M12 connector	XUX2ANBNT16R XUX2ANBNM12R	
	AC or DC				
	40 Transmitter			Screw terminals (1)	XUX0ARCTT16T
40 Receiver	NO + NC	relay	Screw terminals (1)	XUX2ARCNT16R	
<i>(3) It is necessary to order transmitter and receiver as complete system</i>					

Fixing accessories

See page 5-9

(1) ISO 16 cable gland, capacity Ø7 to 10mm cable

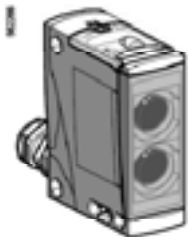
Photo-electric sensors

OsiSense XU, general purpose, multimode function

Compact design

Five-wire AC or DC, 1 CO relay output

Three-wire DC, solid-state output



XUX 0ARCTT16



XUX 0AKSAM12

Compact design

Sensing distance (Sn) m	Function	Output	Connection	Reference
DC				
0...40 depending on whether accessories are used	NO or NC, using Osiconcept programming	PNP/NPN	Screw terminals (1) M12	XUX0AKSAT16
				XUX0AKSAM12
Accessories				
Description			Connection	Reference
Transmitter for Thru-beam function			Screw terminals (1) M12	XUX0AKSAT16T
				XUX0AKSAM12T
Reflector (50 x 50mm)			-	XUZC50



XUZ X2003



XUZ C50



XUZ X2004



XUZ 2001



XUZ X2000



XUZ X2001



XUZ 2003

Sensing distance (Sn) m	Function	Output	Connection	Reference
AC or DC				
0...40 depending on whether accessories are used	NO or NC, using Osiconcept programming	Time delayed relay	Screw terminals (1)	XUX0ARCTT16
				XUX0ARCTT16T
Reflector (50 x 50mm)			-	XUZC50
Fixing accessories				
Description			Connection	Reference
3D fixing kit				
for use on M12 rod for XUX or XUZC50				XUZ X2003
for use on M12 rod and with protective cover for XUX				XUZ X2004
M12 rod				XUZ2001
Support for M12 rod				XUZ2003
Mounting bracket				XUZ X2000
Adaptor				
for ISO 16 - 1/2" NPT				XUZ X2001
for ISO 16 - ISO 20				XUZ X2002

(1) ISO 16 cable gland, capacity Ø7 to 10mm cable



XUZ B2003



XUZ M2003



XUZ K2003



XUZ X2003



XUZ M2004



XUZ K2004



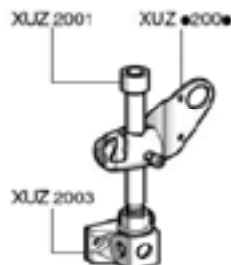
XUZ X2004



XUZ 2003



XUZ 2001



3D fixing kit example



XUZ A118



XUZ A50



XUZ A51



XUZ X2000



XUZ A218



XUZ A318



XSA Z100



XSZ B100



XUZ B2005

3D fixing kit (1)

Description	Use for sensor type	Reference
Ball-joint brackets for mounting on M12 rod	XUB or XUZC50	XUZB2003
	XUM or XUZC50	XUZM2003
	XUK or XUZC50	XUZK2003
	XUX or XUZC50	XUZX2003
Ball-joint brackets with protective cover for mounting on M12 rod	XUM	XUZM2004
	XUK	XUZK2004
	XUX	XUZX2004
Support dor M12 rod		XUZ2003
M12 rod (adjustment possible over complete height)		XUZ2001

(1) To obtain a 3D fixing kit, order:

- the support for rod **XUZ2003**

- the M12 rod **XUZ2001**

- Ball-joint mounted fixing bracket **XUZ 200**

Fixing accessories

Description	Use for sensor type	Reference	
Metal mounting brackets	XUB	XUZA118	
	XUM	XUZA50	
	XUK	XUZA51	
	XUX	XUZX2000	
Plastic mounting bracket with adjustable ball-joint	XUI (Ø 18 mm)	XUZA218	
Precision mounting bracket with micrometric adjustment	XU2 (Ø 18 mm) with laser transmission	XUZA318	
Plastic fixing clamps with locking screw	XUA (Ø 18 mm)	XSAZ108	
	XUI (Ø 18 mm)	With lug	XSAZ118
		With indexing pin	XSZB118
		With 24.1 mm ctrs	XUZB2005
Glass fibre optics XUFS0810		XSAZ145	
Fibre optics XUFS2510		XSAZ155	
Fibre optics XUFS0210		XSAZ185	
Set of 2 metal nuts	XUI (Ø 18 mm)	XSZE118	
Set of 2 stainless steel nuts	XUI (Ø 18 mm)	XSZE318	



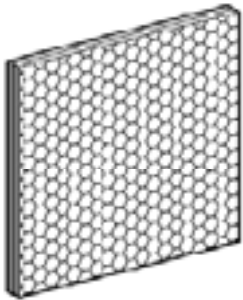
XUZ C22



XUZ C50



XUZ C24



XUZ C100



XUJ Z01



XUZ X2001



XUR Z01



XUR Z02

Reflectors

Description	Dimensions (mm)	Reference
Standard reflectors	Ø 16	XUZC16
	Ø 21	XUZC21
	Ø 31	XUZC31
	Ø 39	XUZC39
	Ø 80	XUZC80
Universal reflector (without blind zone)	50 x 50	XUZC50
Reflector for near sensing distances	24 x 21	XUZC24
Reflector for long sensing distances	100 x 100	XUZC100

Protection covers

Description	Use for	Reference
Potionmeter	XUJ sensors	XUJZ01
Protective cover		

Cabling accessories

Description		Reference
Adaptor	ISO 16 - 1/2" NPT	XUZX2001
	ISO 16 - ISO 20	XUZX2002

Lenses

Description	Use for	Reference
Lens for spot enlargement	XUR sensors	XURZ01
Lens accessory for spot reduction	XUR sensors	XURZ02

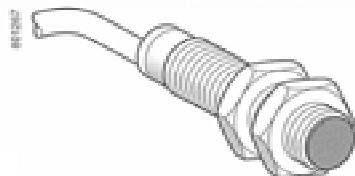
Inductive proximity sensors

OsiSense XS, general purpose

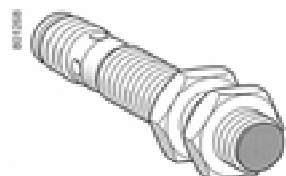
Cylindrical, standard range, flush mountable

2-wire DC, 3-wire DC with solid-state output

Sensors, 3-wire d.c. 12-24 V, short case model



XS5 ●●B1●●L2



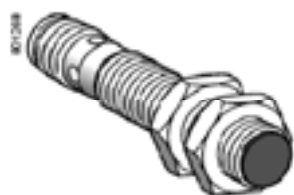
XS5 ●●B1●●M12

Sensing distance (Sn) mm	Function	Output	Connection (1)	Reference	
Ø8, threaded M8 x 1					
1.5	NO	PNP	Pre-cable (L=2m) M8 connector	XS508B1PAL2 XS508B1PAM8	
		NPN	Pre-cable (L=2m) M8 connector	XS508B1NAL2 XS508B1NAM8	
	NC	PNP	Pre-cable (L=2m) M8 connector	XS508B1PBL2 XS508B1PBM8	
		NPN	Pre-cable (L=2m) M8 connector	XS508B1NBL2 XS508B1NBM8	
	Ø12, threaded M12 x 1				
	2	NO	PNP	Pre-cable (L=2m) M12 connector	XS512B1PAL2 XS512B1PAM12
NPN			Pre-cable (L=2m) M12 connector	XS512B1NAL2 XS512B1NAM12	
NC		PNP	Pre-cable (L=2m) M12 connector	XS512B1PBL2 XS512B1PBM12	
		NPN	Pre-cable (L=2m) M12 connector	XS512B1NBL2 XS512B1NBM12	
Ø18, threaded M18 x 1					
5		NO	PNP	Pre-cable (L=2m) M12 connector	XS518B1PAL2 XS518B1PAM12
	NPN		Pre-cable (L=2m) M12 connector	XS518B1NAL2 XS518B1NAM12	
	NC	PNP	Pre-cable (L=2m) M12 connector	XS518B1PBL2 XS518B1PBM12	
		NPN	Pre-cable (L=2m) M12 connector	XS518B1NBL2 XS518B1NBM12	
	Ø30, threaded M30 x 1.5				
	10	NO	PNP	Pre-cable (L=2m) M12 connector	XS530B1PAL2 XS530B1PAM12
NPN			Pre-cable (L=2m) M12 connector	XS530B1NAL2 XS530B1NAM12	
NC		PNP	Pre-cable (L=2m) M12 connector	XS530B1PBL2 XS530B1PBM12	
		NPN	Pre-cable (L=2m) M12 connector	XS530B1NBL2 XS530B1NBM12	

Sensors, 2-wire d.c. 12-48 V, long case model



XS5 ●●B1●●L2



XS5●●B1●●M12

Sensing distance (Sn) mm	Function	Output	Connection (1)	Reference
Ø8, threaded M8 x 1				
1.5	NO		Pre-cable (L=2m) M12 connector	XS508B1DAL2 XS508B1DAM12
		NC	Pre-cable (L=2m) M12 connector	XS508B1DBL2 XS508B1DBM12
	Ø12, threaded M12 x 1			
2	NO		Pre-cable (L=2m) M12 connector	XS512B1DAL2 XS512B1DAM12
		NC	Pre-cable (L=2m) M12 connector	XS512B1DBL2 XS512B1DBM12
	Ø18, threaded M18 x 1			
5	NO		Pre-cable (L=2m) M12 connector	XS518B1DAL2 XS518B1DAM12
		NC	Pre-cable (L=2m) M12 connector	XS518B1DBL2 XS518B1DBM12
	Ø30, threaded M30 x 1.5			
10	NO		Pre-cable (L=2m) M12 connector	XS530B1DAL2 XS530B1DAM12
		NC	Pre-cable (L=2m) M12 connector	XS530B1DBL2 XS530B1DBM12

(1) For an output with a 5m long cable, replace L2 by L5 with an added price of \$S11.00
 For an output with 10m long cable, replace L2 by L10 with an added price of \$S22.70
 Example: XS5 08B1PAL2 becomes XS5 08B1PAL5 with a 5 m long cable.

Inductive proximity sensors

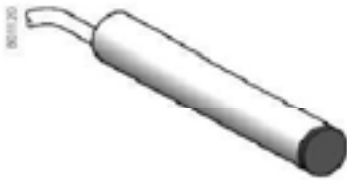
OsiSense XS, general purpose

Cylindrical, increased range, flush mountable

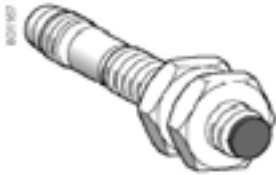
Three-wire DC, solid-state output

Sensors, 3-wire d.c. 12-24 V, short case model

Sensing distance Sn (mm)	Function	Output	Connection	Reference
Ø 6.5, plain				
2.5	NO	PNP	Pre-cabled (L = 2 m)	XS106B3PAL2
			Pre-cabled (L = 5 m)	XS106B3PAL5
			M8 connector	XS106B3PAM8
			M12 connector	XS106B3PAM12
	NPN	PNP	Pre-cabled (L = 2 m)	XS106B3NAL2
			Pre-cabled (L = 5 m)	XS106B3NAL5
			M8 connector	XS106B3NAM8
			M12 connector	XS106B3NAM12
	NC	PNP	Pre-cabled (L = 2 m)	XS106B3PBL2
			Pre-cabled (L = 5 m)	XS106B3PBL5
			M8 connector	XS106B3PBM8
			M12 connector	XS106B3PBM12
Ø 8, threaded M8 x 1				
2.5	NO	PNP	Pre-cabled (L = 2 m)	XS108B3PAL2
			Pre-cabled (L = 5 m)	XS108B3PAL5
			M8 connector	XS108B3PAM8
			M12 connector	XS108B3PAM12
	NPN	PNP	Pre-cabled (L = 2 m)	XS108B3NAL2
			Pre-cabled (L = 5 m)	XS108B3NAL5
			M8 connector	XS108B3NAM8
			M12 connector	XS108B3NAM12
	NC	PNP	Pre-cabled (L = 2 m)	XS108B3PBL2
			Pre-cabled (L = 5 m)	XS108B3PBL5
			M8 connector	XS108B3PBM8
			M12 connector	XS108B3PBM12
NPN	PNP	Pre-cabled (L = 2 m)	XS108B3NBL2	
		Pre-cabled (L = 5 m)	XS108B3NBL5	
		M8 connector	XS108B3NBM8	
		M12 connector	XS108B3NBM12	
Ø 12, threaded M12 x 1				
4	NO	PNP	Pre-cabled (L = 2 m)	XS112B3PAL2
			Pre-cabled (L = 5 m)	XS112B3PAL5
			M12 connector	XS112B3PAM12
			M12 connector	XS112B3PAM12
	NPN	PNP	Pre-cabled (L = 2 m)	XS112B3NAL2
			Pre-cabled (L = 5 m)	XS112B3NAL5
			M12 connector	XS112B3NAM12
			M12 connector	XS112B3NAM12
	NC	PNP	Pre-cabled (L = 2 m)	XS112B3PBL2
			Pre-cabled (L = 5 m)	XS112B3PBL5
			M12 connector	XS112B3PBM12
			M12 connector	XS112B3PBM12
NPN	PNP	Pre-cabled (L = 2 m)	XS112B3NBL2	
		Pre-cabled (L = 5 m)	XS112B3NBL5	
		M12 connector	XS112B3NBM12	
		M12 connector	XS112B3NBM12	



XS1 06B3●●L2



XS1 08B3●●M8



XS1 12B3●●L2

Inductive proximity sensors

OsiSense XS, general purpose

Cylindrical, increased range, flush mountable

Three-wire DC, solid-state output

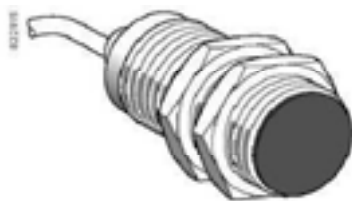
Sensors, 3-wire d.c. 12-24 V, short case model (continued)



XS1 18B3...M12



XS1 18B3...L2



XS1 30B3...L2



XSZ B f...

Sensing distance Sn (mm)	Function	Output	Connection	Reference
Ø 18, threaded M18 x 1				
8	NO	PNP	Pre-cabled (L = 2 m) (1)	XS118B3PAL2
			Pre-cabled (L = 5 m) (1)	XS118B3PAL5
			M12 connector	XS118B3PAM12
		NPN	Pre-cabled (L = 2 m) (1)	XS118B3NAL2
			Pre-cabled (L = 5 m) (1)	XS118B3NAL5
			M12 connector	XS118B3NAM12
	NC	PNP	Pre-cabled (L = 2 m) (1)	XS118B3PBL2
			Pre-cabled (L = 5 m) (1)	XS118B3PBL5
			M12 connector	XS118B3PBM12
		NPN	Pre-cabled (L = 2 m) (1)	XS118B3NBL2
			Pre-cabled (L = 5 m) (1)	XS118B3NBL5
			M12 connector	XS118B3NBM12
Ø 30, threaded M30 x 1.5				
15	NO	PNP	Pre-cabled (L = 2 m) (1)	XS130B3PAL2
			Pre-cabled (L = 5 m) (1)	XS130B3PAL5
			M12 connector	XS130B3PAM12
		NPN	Pre-cabled (L = 2 m) (1)	XS130B3NAL2
			Pre-cabled (L = 5 m) (1)	XS130B3NAL5
			M12 connector	XS130B3NAM12
	NC	PNP	Pre-cabled (L = 2 m) (1)	XS130B3PBL2
			Pre-cabled (L = 5 m) (1)	XS130B3PBL5
			M12 connector	XS130B3PBM12
		NPN	Pre-cabled (L = 2 m) (1)	XS130B3NBL2
			Pre-cabled (L = 5 m) (1)	XS130B3NBL5
			M12 connector	XS130B3NBM12
Accessories				
Description				Reference
Fixing clamps			Ø 6.5, plain	XSZB165
			Ø 8, threaded M8 x 1	XSZB108
			Ø 12, threaded M12 x 1	XSZB112
			Ø 18, threaded M18 x 1	XSZB118
			Ø 30, threaded M30 x 1.5	XSZB130

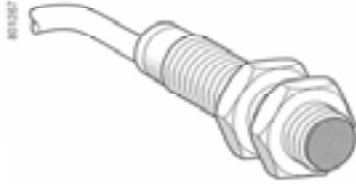
Inductive proximity sensors

OsiSense XS, general purpose

Cylindrical, increased range, flush mountable

Three-wire DC, solid-state output

Sensors, 3-wire, d.c. 12-48 V, long case model



XS6 00B100L2



XS6 00B100M12

Sensing distance (Sn) mm	Function	Output	Connection (1)	Reference
Ø8, threaded M8 x 1				
2.5	NO	PNP	Pre-cable (L=2m)	XS608B1PAL2
			M12 connector	XS608B1PAM12
	NPN	PNP	Pre-cable (L=2m)	XS608B1NAL2
			M12 connector	XS608B1NAM12
	NC	PNP	Pre-cable (L=2m)	XS608B1PBL2
			M12 connector	XS608B1PBM12
NPN	PNP	Pre-cable (L=2m)	XS608B1NBL2	
		M12 connector	XS608B1NBM12	
Ø12, threaded M12 x 1				
4	NO	PNP	Pre-cable (L=2m)	XS612B1PAL2
			M12 connector	XS612B1PAM12
	NPN	PNP	Pre-cable (L=2m)	XS612B1NAL2
			M12 connector	XS612B1NAM12
	NC	PNP	Pre-cable (L=2m)	XS612B1PBL2
			M12 connector	XS612B1PBM12
NPN	PNP	Pre-cable (L=2m)	XS612B1NBL2	
		M12 connector	XS612B1NBM12	
Ø18, threaded M18 x 1				
8	NO	PNP	Pre-cable (L=2m)	XS618B1PAL2
			M12 connector	XS618B1PAM12
	NPN	PNP	Pre-cable (L=2m)	XS618B1NAL2
			M12 connector	XS618B1NAM12
	NC	PNP	Pre-cable (L=2m)	XS618B1PBL2
			M12 connector	XS618B1PBM12
NPN	PNP	Pre-cable (L=2m)	XS618B1NBL2	
		M12 connector	XS618B1NBM12	
Ø30, threaded M30 x 1				
15	NO	PNP	Pre-cable (L=2m)	XS630B1PAL2
			M12 connector	XS630B1PAM12
	NPN	PNP	Pre-cable (L=2m)	XS630B1NAL2
			M12 connector	XS630B1NAM12
	NC	PNP	Pre-cable (L=2m)	XS630B1PBL2
			M12 connector	XS630B1PBM12
NPN	PNP	Pre-cable (L=2m)	XS630B1NBL2	
		M12 connector	XS630B1NBM12	
Accessories				
Description			Reference	
Fixing clamps			Ø8	XSZB108
			Ø12	XSZB112
			Ø18	XSZB118
			Ø30	XSZB130



XSZ Base

(1) For an output with a 5m long cable, replace L2 by L5 with an added price of \$S\$11.00
 For an output with 10m long cable, replace L2 by L10 with an added price of \$S\$22.70
 Example: XS6 08B1PAL2 becomes XS6 08B1PAL5 with a 5 m long cable.

Inductive proximity sensors

OsiSense XS, general purpose

Cylindrical, increased range, flush mountable

Two-wire AC or DC

Sensors, 2-wire a.c. or d.c. 24-240 V, long case model



XS6 ●●B1M●L2



XS6 ●●B1●●U20



XSZ 0000

Sensing distance (Sn) mm	Function	Output	Connection (1)	Reference
Ø12, threaded M12 x 1				
4	NO		Pre-cable (L=2m)	XS612B1MAL2
			1/2" - 20 UNF connector	XS612B1MAU20
	NC		Pre-cable (L=2m)	XS612B1MBL2
			1/2" - 20 UNF connector	XS612B1MBU20
Ø18, threaded M18 x 1				
8	NO		Pre-cable (L=2m)	XS618B1MAL2
			1/2" - 20 UNF connector	XS618B1MAU20
	NC		Pre-cable (L=2m)	XS618B1MBL2
			1/2" - 20 UNF connector	XS618B1MBU20
Ø30, threaded M30 x 1				
15	NO		Pre-cable (L=2m)	XS630B1MAL2
			1/2" - 20 UNF connector	XS630B1MAU20
	NC		Pre-cable (L=2m)	XS630B1MBL2
			1/2" - 20 UNF connector	XS630B1MBU20

Accessories

Description	Reference	
Fixing clamps	Ø8	XSZB108
	Ø12	XSZB112
	Ø18	XSZB118
	Ø30	XSZB130

(1) For an output with a 5m long cable, replace L2 by L5 with an added price of \$S11.00

For an output with 10m long cable, replace L2 by L10 with an added price of \$S22.70

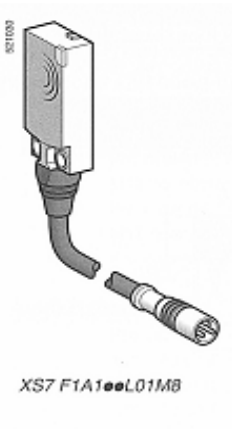
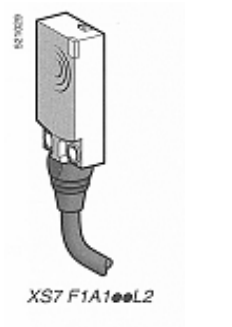
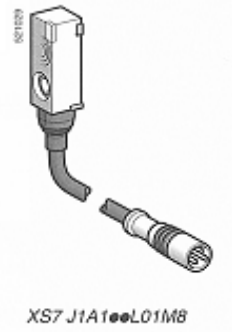
Example: XS6 12B1MAL2 becomes XS6 12B1MAL5 with a 5 m long cable.

Inductive proximity sensors

OsiSense XS, general purpose, standard range

Flat format, flush mountable

Two-wire DC. Three-wire DC, solid-state output



Sensing distance (Sn) mm	Function	Output	Connection (2)	Reference
Flat, 8 x 22 x 8 mm format (1)				
Three-wire d.c.				
2.5	NO	PNP	Pre-cabled (2m)	XS7J1A1PAL2
			0.15m flying lead with M8 connector	XS7J1A1PAL01M8
	NPN	PNP	Pre-cabled (2m)	XS7J1A1NAL2
			0.15m flying lead with M8 connector	XS7J1A1NAL01M8
	NC	PNP	Pre-cabled (2m)	XS7J1A1PBL2
			0.15m flying lead with M8 connector	XS7J1A1PBL01M8
NPN	PNP	Pre-cabled (2m)	XS7J1A1NBL2	
		0.15m flying lead with M8 connector	XS7J1A1NBL01M8	
Two-wire d.c.				
2.5	NO		Pre-cabled (2m)	XS7J1A1DAL2
			0.15m flying lead with M8 connector	XS7J1A1DAL01M8
NC			Pre-cabled (2m)	XS7J1A1DBL2
			0.15m flying lead with M8 connector	XS7J1A1DBL01M8

Flat, 5 x 32 x 8 mm format (1)				
Three-wire d.c.				
5	NO	PNP	Pre-cabled (2m)	XS7F1A1PAL2
			0.15m flying lead with M8 connector	XS7F1A1PAL01M8
	NPN	PNP	Pre-cabled (2m)	XS7F1A1NAL2
			0.15m flying lead with M8 connector	XS7F1A1NAL01M8
	NC	PNP	Pre-cabled (2m)	XS7F1A1PBL2
			0.15m flying lead with M8 connector	XS7F1A1PBL01M8
NPN	PNP	Pre-cabled (2m)	XS7F1A1NBL2	
		0.15m flying lead with M8 connector	XS7F1A1NBL01M8	
Two-wire d.c.				
5	NO		Pre-cabled (2m)	XS7F1A1DAL2
			0.15m flying lead with M8 connector	XS7F1A1DAL01M8
NC			Pre-cabled (2m)	XS7F1A1DBL2
			0.15m flying lead with M8 connector	XS7F1A1DBL01M8

(1) The sensors **XS7J** include a basic fixing clamp with screw.

(2) For an output with a 5m long cable, replace **L2** by **L5** with an added price of **\$S\$11.00**

For a 10m long cable, replace **L2** with **L10** with an added price of **\$S\$22.70**

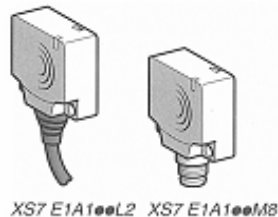
Example: **XS7J1A1PAL2** becomes **XS7J1A1PAL5** with a 5 m long cable.

Inductive proximity sensors

OsiSense XS, general purpose, standard range

Flat format, flush mountable

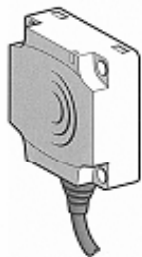
Two-wire DC. Three-wire DC, solid-state output



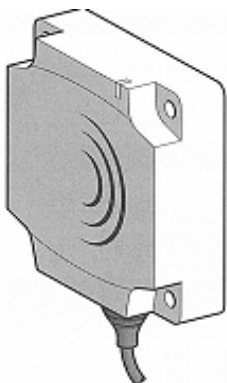
XS7 E1A1eL2 XS7 E1A1eM8



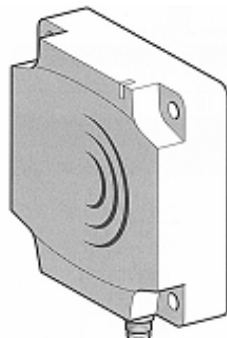
XS7 e1A1eL0eM12



XS7 C1A1eL2



XS7 D1A1eL2



XS7 D1A1eM12

Sensing distance (Sn) mm	Function	Output	Connection (1)	Reference
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Flat, form E, 26 x 26 x 13 mm

Three-wire d.c.

10	NO	PNP	Pre-cable (L=2m)	XS7E1A1PAL2
			M8 connector	XS7E1A1PAM8
			Remote M12 connector	XS7E1A1PAL01M12
	NPN	PNP	Pre-cable (L=2m)	XS7E1A1NAL2
			M8 connector	XS7E1A1NAM8
			Remote M12 connector	XS7E1A1NAL01M12
NC	PNP	PNP	Pre-cable (L=2m)	XS7E1A1PBL2
			M8 connector	XS7E1A1PBM8
			Remote M12 connector	XS7E1A1PBL01M12
	NPN	NPN	Pre-cable (L=2m)	XS7E1A1NBL2
			M8 connector	XS7E1A1NBM8
			Remote M12 connector	XS7E1A1NBL01M12

Two-wire d.c.

10	NO	NO	Pre-cable (L=2m)	XS7E1A1DAL2
			M8 connector	XS7E1A1DAM8
			Remote M12 connector	XS7E1A1DAL01M12
	NC	NC	Pre-cable (L=2m)	XS7E1A1DBL2
			M8 connector	XS7E1A1DBM8
			Remote M12 connector	XS7E1A1DBL01M12

Flat, form C 40 x 40 x 15 mm

Three-wire d.c.

15	NO	PNP	Pre-cable (L=2m)	XS7C1A1PAL2
			M8 connector	XS7C1A1PAM8
			Remote M12 connector	XS7C1A1PAL01M12
	NPN	NPN	Pre-cable (L=2m)	XS7C1A1NAL2
			M8 connector	XS7C1A1NAM8
			Remote M12 connector	XS7C1A1NAL01M12
NC	PNP	PNP	Pre-cable (L=2m)	XS7C1A1PBL2
			M8 connector	XS7C1A1PBM8
			Remote M12 connector	XS7C1A1PBL01M12
	NPN	NPN	Pre-cable (L=2m)	XS7C1A1NBL2
			M8 connector	XS7C1A1NBM8
			Remote M12 connector	XS7C1A1NBL01M12

Two-wire d.c.

15	NO	NO	Pre-cable (L=2m)	XS7C1A1DAL2
			M8 connector	XS7C1A1DAM8
			Remote M12 connector	XS7C1A1DAL01M12
	NC	NC	Pre-cable (L=2m)	XS7C1A1DBL2
			M8 connector	XS7C1A1DBM8
			Remote M12 connector	XS7C1A1DBL01M12

Flat, form D 80 x 80 x 26 mm

Three-wire d.c.

40	NO	PNP	Pre-cable (L=2m)	XS7D1A1PAL2
			M12 connector	XS7D1A1PAM12
			NPN	NPN
	M12 connector	XS7D1A1NAM12		
	NC	PNP		
			M12 connector	XS7D1A1PBM12
NPN			NPN	Pre-cable (L=2m)
	M12 connector	XS7D1A1NBM12		

Two-wire d.c.

40	NO	NO	Pre-cable (L=2m)	XS7D1A1DAL2
			M12 connector	XS7D1A1DAM12
			NC	NC
	M12 connector	XS7D1A1DBM12		

(1) For an output with a 5m long cable, replace L2 by L5 with an added price of \$S11.00

For a 10m long cable, replace L2 with L10 with an added price of \$S22.70

Example: XS7J1A1PAL2 becomes XS7J1A1PAL5 with a 5m long cable.

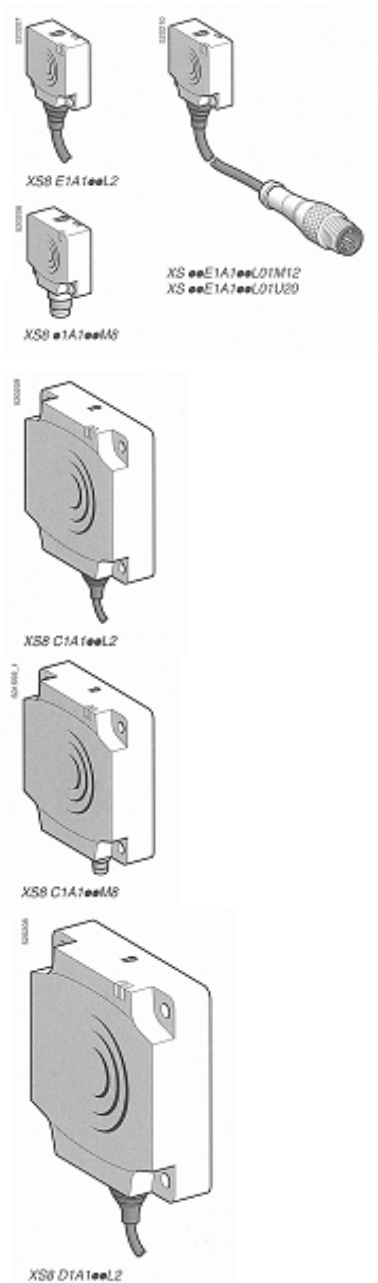
Inductive proximity sensors

OsiSense XS, general purpose with increased range

Flat, flush mountable/non flush mountable + teach mode (1)

Two-wire AC or DC

Three-wire DC, solid-state output



Sensing distance (Sn) mm	Function	Output	Connection	Reference		
Flat, 26 x 26 x 13 mm format						
Three-wire dc with overload and short-circuit protection						
15	NO	PNP	Pre-cabled (2m) (2)	XS8E1A1PAL2		
			M8 connector	XS8E1A1PAM8		
			Remote M12 connector	XS8E1A1PAL01M12		
	NPN	PNP	Pre-cabled (2m) (2)	XS8E1A1NAL2		
			M8 connector	XS8E1A1NAM8		
			Remote M12 connector	XS8E1A1NAL01M12		
NC	PNP	Pre-cabled (2m) (2)	XS8E1A1PBL2			
		M8 connector	XS8E1A1PBM8			
		Remote M12 connector	XS8E1A1PBL01M12			
	NPN	PNP	Pre-cabled (2m) (2)	XS8E1A1NBL2		
			M8 connector	XS8E1A1NBM8		
			Remote M12 connector	XS8E1A1NBL01M12		
Two-wire ac or dc unprotected (3)						
15	NO	-	Pre-cabled (2m) (2)	XS8E1A1MAL2		
			Remote 1/2" - 20UNF connector	XS8E1A1MAL01U20		
	NC	-	Pre-cabled (2m) (2)	XS8E1A1MBL2		
			Remote 1/2" - 20UNF connector	XS8E1A1MBL01U20		
Flat, 40 x 40 x 15 mm format						
Three-wire dc with overload and short-circuit protection						
25	NO	PNP	Pre-cabled (2m) (2)	XS8C1A1PAL2		
			M8 connector	XS8C1A1PAM8		
			Remote M12 connector	XS8C1A1PAL01M12		
			NPN	Pre-cabled (2m) (2)	XS8C1A1NAL2	
	NPN	PNP	M8 connector	XS8C1A1NAM8		
			Remote M12 connector	XS8C1A1NAL01M12		
			NC	PNP	Pre-cabled (2m) (2)	XS8C1A1PBL2
					M8 connector	XS8C1A1PBM8
	NPN	PNP		Remote M12 connector	XS8C1A1PBL01M12	
				Pre-cabled (2m) (2)	XS8C1A1NBL2	
	NC	PNP	M8 connector	XS8C1A1NBM8		
			Remote M12 connector	XS8C1A1NBL01M12		
Two-wire ac or dc unprotected (3)						
25			NO	-	Pre-cabled (2m) (2)	XS8C1A1MAL2
	Remote 1/2" - 20UNF connector	XS8C1A1MAL01U20				
	NC	-	Pre-cabled (2m) (2)	XS8C1A1MBL2		
			Remote 1/2" - 20UNF connector	XS8C1A1MBL01U20		
Flat, 80 x 80 x 26 mm format						
Three-wire dc with overload and short-circuit protection						
60	NO	PNP	Pre-cabled (2m) (2)	XS8D1A1PAL2		
			M12 connector	XS8D1A1PAM12		
			NPN	PNP	Pre-cabled (2m) (2)	XS8D1A1NAL2
					M12 connector	XS8D1A1NAM12
	NC	PNP			Pre-cabled (2m) (2)	XS8D1A1PBL2
					M12 connector	XS8D1A1PBM12
		NPN	PNP	Pre-cabled (2m) (2)	XS8D1A1NBL2	
				M12 connector	XS8D1A1NBM12	
	Two-wire ac or dc unprotected (3)					
	60	NO	-	Pre-cabled (2m) (2)	XS8D1A1MAL2	
				Remote 1/2" - 20UNF connector	XS8D1A1MAU20	
		NC	-	Pre-cabled (2m) (2)	XS8D1A1MBL2	
Remote 1/2" - 20UNF connector				XS8D1A1MBU20		

(1) For further information on flush or non flush mountable sensors using teach mode, see catalogue

(2) For an output with a 5m long cable, replace L2 by L5 with an added price of \$511.00

For a 10m long cable, replace L2 with L10 with an added price of \$522.70

Example: XS8E1A1PAL2 becomes XS8E1A1PAL5.

(3) It is essential to connect a 0.4A quick-blow fuse in series with the load.

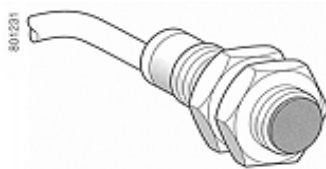
Inductive proximity sensors

OsiSense XS, general purpose

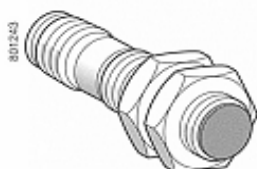
Plastic, cylindrical, non flush mountable

Two-wire AC or DC

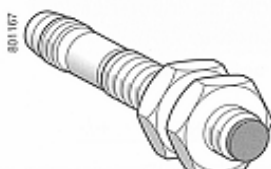
Three-wire DC, solid-state output



XS4 P●●●●340
XS4 P●●●●230



XS4 P●●●●340D
XS4 P●●●●230K



XS4 P08●●340S

Sensing distance (Sn) mm	Function	Output	Connection (1)	Reference
Ø8				
Three-wire 12...24V dc supply				
2.5	NO	PNP	Pre-cable (L=2m)	XS4P08PA340
			M8 connector	XS4P08PA340S
	NPN	PNP	Pre-cable (L=2m)	XS4P08NA340
			M8 connector	XS4P08NA340S
	NC	PNP	Pre-cable (L=2m)	XS4P08PB340
			M8 connector	XS4P08PB340S
NPN	PNP	Pre-cable (L=2m)	XS4P08NB340	
		M8 connector	XS4P08NB340S	
Two-wire a.c. or d.c. 24...240V supply, unprotected				
2.5	NO		Pre-cable (L=2m)	XS4P08MA230
			Connector 1/2"-20UNF	XS4P08MA230K
	NC		Pre-cable (L=2m)	XS4P08MB230
			Connector 1/2"-20UNF	XS4P08MB230K
Ø12				
Three-wire 12...24V dc supply				
4	NO	PNP	Pre-cable (L=2m)	XS4P12PA340
			M12 connector	XS4P12PA340D
	NPN	PNP	Pre-cable (L=2m)	XS4P12NA340
			M12 connector	XS4P12NA340D
	NC	PNP	Pre-cable (L=2m)	XS4P12PB340
			M12 connector	XS4P12PB340D
NPN	PNP	Pre-cable (L=2m)	XS4P12NB340	
		M12 connector	XS4P12NB340D	
Two-wire a.c. or d.c. 24...240V supply, unprotected				
4	NO		Pre-cable (L=2m)	XS4P12MA230
			Connector 1/2"-20UNF	XS4P12MA230K
	NC		Pre-cable (L=2m)	XS4P12MB230
			Connector 1/2"-20UNF	XS4P12MB230K
Ø18				
Three-wire 12...24V dc supply				
8	NO	PNP	Pre-cable (L=2m)	XS4P18PA340
			M12 connector	XS4P18PA340D
	NPN	PNP	Pre-cable (L=2m)	XS4P18NA340
			M12 connector	XS4P18NA340D
	NC	PNP	Pre-cable (L=2m)	XS4P18PB340
			M12 connector	XS4P18PB340D
NPN	PNP	Pre-cable (L=2m)	XS4P18NB340	
		M12 connector	XS4P18NB340D	
Two-wire a.c. or d.c. 24...240V supply, unprotected				
8	NO		Pre-cable (L=2m)	XS4P18MA230
			Connector 1/2"-20UNF	XS4P18MA230K
	NC		Pre-cable (L=2m)	XS4P18MB230
			Connector 1/2"-20UNF	XS4P18MB230K
Ø30				
Three-wire 12...24V dc supply				
15	NO	PNP	Pre-cable (L=2m)	XS4P30PA340
			M12 connector	XS4P30PA340D
	NPN	PNP	Pre-cable (L=2m)	XS4P30NA340
			M12 connector	XS4P30NA340D
	NC	PNP	Pre-cable (L=2m)	XS4P30PB340
			M12 connector	XS4P30PB340D
NPN	PNP	Pre-cable (L=2m)	XS4P30NB340	
		M12 connector	XS4P30NB340D	
Two-wire a.c. or d.c. 24...240V supply, unprotected				
15	NO		Pre-cable (L=2m)	XS4P30MA230
			Connector 1/2"-20UNF	XS4P30MA230K
	NC		Pre-cable (L=2m)	XS4P30MB230
			Connector 1/2"-20UNF	XS4P30MB230K

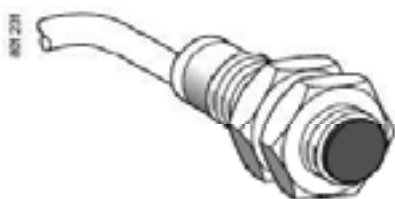
(1) For an output with a 5m long cable, **add L1 to the reference with an added price of \$S\$11.00**
 For an output with 10m long cable, **add L2 to the reference with an added price of \$S\$22.70**
 Example: XS4P08PA340 becomes XS4P08PA340L1 with 5m long cable.

Inductive proximity sensors

OsiSense XS, general purpose

Basic, plastic, cylindrical, non flush mountable

Three-wire DC, solid-state output



XS2 08AL00L2



XS2 08AL00M12

Sensing distance Sn (mm)	Function	Output	Connection	Reference
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Ø 8, threaded M8 x 1

Three-wire dc 12-24 V, non flush mountable

2.5	NO	PNP	Pre-cabled (L = 2 m) (1)	XS208ALPAL2
		NPN	Pre-cabled (L = 2 m) (1)	XS208ALNAL2
	NC	PNP	Pre-cabled (L = 2 m) (1)	XS208ALPBL2
		NPN	Pre-cabled (L = 2 m) (1)	XS208ALNBL2

Ø 12, threaded M12 x 1

Three-wire dc 12-24 V, non flush mountable

4	NO	PNP	Pre-cabled (L = 2 m) (2)	XS212ALPAL2
			M12 connector	XS212ALPAM12
		NPN	Pre-cabled (L = 2 m) (2)	XS212ALNAL2
			M12 connector	XS212ALNAM12
	NC	PNP	Pre-cabled (L = 2 m) (2)	XS212ALPBL2
			M12 connector	XS212ALPBM12
		NPN	Pre-cabled (L = 2 m) (2)	XS212ALNBL2
			M12 connector	XS212ALNBM12

Ø 18, threaded M18 x 1

Three-wire dc 12-24 V, non flush mountable

8	NO	PNP	Pre-cabled (L = 2 m) (2)	XS218ALPAL2
			M12 connector	XS218ALPAM12
		NPN	Pre-cabled (L = 2 m) (2)	XS218ALNAL2
			M12 connector	XS218ALNAM12
	NC	PNP	Pre-cabled (L = 2 m) (2)	XS218ALPBL2
			M12 connector	XS218ALPBM12
		NPN	Pre-cabled (L = 2 m) (2)	XS218ALNBL2
			M12 connector	XS218ALNBM12

Ø 30, threaded M30 x 1.5

Three-wire dc 12-24 V, non flush mountable

15	NO	PNP	Pre-cabled (L = 2 m) (2)	XS230ALPAL2
			M12 connector	XS230ALPAM12
		NPN	Pre-cabled (L = 2 m) (2)	XS230ALNAL2
			M12 connector	XS230ALNAM12
	NC	PNP	Pre-cabled (L = 2 m) (2)	XS230ALPBL2
			M12 connector	XS230ALPBM12
		NPN	Pre-cabled (L = 2 m) (2)	XS230ALNBL2
			M12 connector	XS230ALNBM12

Accessories

Description		Reference
Fixing clamps	Ø 8	XSZB108
	Ø 12	XSZB112
	Ø 18	XSZB118
	Ø 30	XSZB130

(1) For a 5 m long cable replace L2 by L5.

Example: XS2 08ALPAL2 becomes XS2 08ALPAL5 with a 5 m long cable.

(2) For a 5 m long cable replace L2 by L5; for a 10 m long cable replace L2 by L10.

Example: XS2 18ALPAL2 becomes XS2 18ALPAL5 with a 5 m long cable.

Consult our Sales office for quote.



XSZ B100

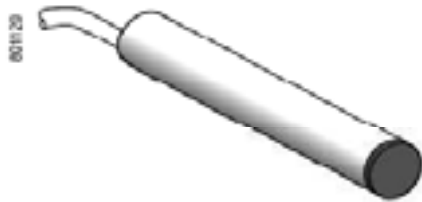
Inductive proximity sensors

OsiSense XS, general purpose

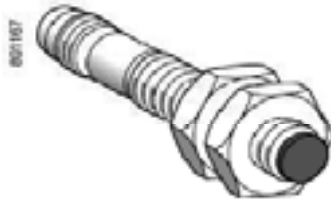
Basic, cylindrical, metal, flush and non flush mountable

Two-wire AC

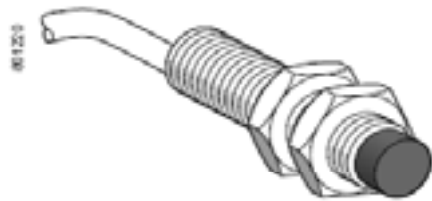
Three-wire DC, solid-state output



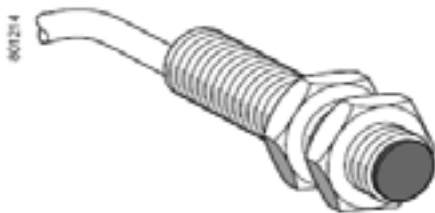
XS1 06BL...L2



XS1 08BL...M8



XS2 08BL...L2



XS1 12BL...L2



XS2 12BL...M12

Sensing distance Sn (mm)	Function	Output	Connection	Reference
Ø 6.5, plain				
Three-wire dc 12-24 V, flush mountable				
1.5	NO	PNP	Pre-cabled (L = 2 m) (1)	XS106BLPAL2
		NPN	Pre-cabled (L = 2 m) (1)	XS106BLNAL2
	NC	PNP	Pre-cabled (L = 2 m) (1)	XS106BLPBL2
		NPN	Pre-cabled (L = 2 m) (1)	XS106BLNBL2
Ø 8, threaded M8 x 1				
Three-wire dc 12-24 V, flush mountable				
1.5	NO	PNP	Pre-cabled (L = 2 m) (2)	XS108BLPAL2
			M8 connector	XS108BLPAM8
			M12 connector	XS108BLPAM12
		NPN	Pre-cabled (L = 2 m) (2)	XS108BLNAL2
			M8 connector	XS108BLNAM8
			M12 connector	XS108BLNAM12
	NC	PNP	Pre-cabled (L = 2 m) (2)	XS108BLPBL2
			M8 connector	XS108BLPBM8
			M12 connector	XS108BLPBM12
		NPN	Pre-cabled (L = 2 m) (2)	XS108BLNBL2
			M8 connector	XS108BLNBM8
			M12 connector	XS108BLNBM12
Three-wire dc 12-24 V, non flush mountable				
2.5	NO	PNP	Pre-cabled (L = 2 m) (2)	XS208BLPAL2
			M8 connector	XS208BLPAM8
			M12 connector	XS208BLPAM12
		NPN	Pre-cabled (L = 2 m) (2)	XS208BLNAL2
			M8 connector	XS208BLNAM8
			M12 connector	XS208BLNAM12
	NC	PNP	Pre-cabled (L = 2 m) (2)	XS208BLPBL2
			M8 connector	XS208BLPBM8
			M12 connector	XS208BLPBM12
		NPN	Pre-cabled (L = 2 m) (2)	XS208BLNBL2
			M8 connector	XS208BLNBM8
			M12 connector	XS208BLNBM12
Ø 12, threaded M12 x 1				
Three-wire dc 12-24 V, flush mountable				
2	NO	PNP	Pre-cabled (L = 2 m) (2)	XS112BLPAL2
			M12 connector	XS112BLPAM12
		NPN	Pre-cabled (L = 2 m) (2)	XS112BLNAL2
	M12 connector		XS112BLNAM12	
	NC	PNP	Pre-cabled (L = 2 m) (2)	XS112BLPBL2
			M12 connector	XS112BLPBM12
NPN		Pre-cabled (L = 2 m) (2)	XS112BLNBL2	
M12 connector	XS112BLNBM12			
Two-wire ac 24-240 V, flush mountable				
2	NO		Pre-cabled (L = 2 m) (2)	XS112BLFAL2
Three-wire dc 12-24 V, non flush mountable				
4	NO	PNP	Pre-cabled (L = 2 m) (2)	XS212BLPAL2
			M12 connector	XS212BLPAM12
			M12 connector	XS212BLNAM12
		NPN	Pre-cabled (L = 2 m) (2)	XS212BLNAL2
			M12 connector	XS212BLNAM12
			M12 connector	XS212BLNAM12
	NC	PNP	Pre-cabled (L = 2 m) (2)	XS212BLPBL2
			M12 connector	XS212BLPBM12
			M12 connector	XS212BLPBM12
		NPN	Pre-cabled (L = 2 m) (2)	XS212BLNBL2
			M12 connector	XS212BLNBL2
			M12 connector	XS212BLNBM12

(1) For a 5 m long cable replace L2 by L5. Consult our Sales office for quote.

Example: XS1 06BLPAL2 becomes XS1 06BLPAL5 with a 5 m long cable.

(2) For a 5 m long cable replace L2 by L5; for a 10 m long cable replace L2 by L10.

Example: XS1 12BLPAL2 becomes XS1 12BLPAL10 with a 10 m long cable.

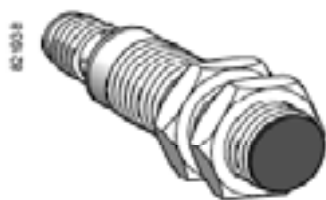
Inductive proximity sensors

OsiSense XS, general purpose

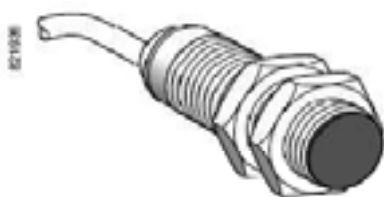
Basic, cylindrical, metal, flush and non flush mountable

Two-wire AC

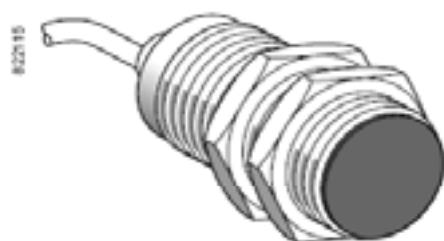
Three-wire DC, solid-state output



XS1 18BL...M12



XS1 18BL...L2



XS1 30BL...L2



XS2 30BL...L2



XSZ B1

Sensing distance Sn (mm)	Function	Output	Connection	Reference
Ø 18, threaded M18 x 1				
Three-wire dc 12-24 V, flush mountable				
5	NO	PNP	Pre-cabled (L = 2 m) (2)	XS118BLPAL2
			M12 connector	XS118BLPAM12
	NPN	PNP	Pre-cabled (L = 2 m) (2)	XS118BLNAL2
			M12 connector	XS118BLNAM12
	NC	PNP	Pre-cabled (L = 2 m) (2)	XS118BLPBL2
			M12 connector	XS118BLPBM12
NPN	PNP	Pre-cabled (L = 2 m) (2)	XS118BLNBL2	
		M12 connector	XS118BLNBM12	
Two-wire ac 24-240 V, flush mountable				
5	NO		Pre-cabled (L = 2 m) (2)	XS118BLFAL2
Three-wire dc 12-24 V, non flush mountable				
8	NO	PNP	Pre-cabled (L = 2 m) (2)	XS218BLPAL2
			M12 connector	XS218BLPAM12
	NPN	PNP	Pre-cabled (L = 2 m) (2)	XS218BLNAL2
			M12 connector	XS218BLNAM12
	NC	PNP	Pre-cabled (L = 2 m) (2)	XS218BLPBL2
			M12 connector	XS218BLPBM12
NPN	PNP	Pre-cabled (L = 2 m) (2)	XS218BLNBL2	
		M12 connector	XS218BLNBM12	
Ø 30, threaded M30 x 1.5				
Three-wire dc 12-24 V, flush mountable				
10	NO	PNP	Pre-cabled (L = 2 m) (2)	XS130BLPAL2
			M12 connector	XS130BLPAM12
	NPN	PNP	Pre-cabled (L = 2 m) (2)	XS130BLNAL2
			M12 connector	XS130BLNAM12
	NC	PNP	Pre-cabled (L = 2 m) (2)	XS130BLPBL2
			M12 connector	XS130BLPBM12
NPN	PNP	Pre-cabled (L = 2 m) (2)	XS130BLNBL2	
		M12 connector	XS130BLNBM12	
Two-wire ac 24-240 V, flush mountable				
10	NO		Pre-cabled (L = 2 m) (2)	XS130BLFAL2
Three-wire dc 12-24 V, non flush mountable				
15	NO	PNP	Pre-cabled (L = 2 m) (2)	XS230BLPAL2
			M12 connector	XS230BLPAM12
	NPN	PNP	Pre-cabled (L = 2 m) (2)	XS230BLNAL2
			M12 connector	XS230BLNAM12
	NC	PNP	Pre-cabled (L = 2 m) (2)	XS230BLPBL2
			M12 connector	XS230BLPBM12
NPN	PNP	Pre-cabled (L = 2 m) (2)	XS230BLNBL2	
		M12 connector	XS230BLNBM12	
Accessories				
Description			Reference	
Fixing clamps			Ø 6.5	XSZB165
			Ø 8	XSZB108
			Ø 12	XSZB112
			Ø 18	XSZB118
			Ø 30	XSZB130

(1) For a 5 m long cable replace L2 by L5; for a 10 m long cable replace L2 by L10.

Example: XS1 18BLPAL2 becomes XS1 18BLPAL5 with a 5 m long cable.

Consult our Sales office for quote.

Inductive proximity sensors

OsiSense XS, general purpose

Miniature, cylindrical, flush and non flush mountable

Three-wire DC, solid-state output



XS1 L04 310



XS1 N05 310



XS1 N05 311S



XS1 L04 310S



XS L06 340



XS L06 340S
XS L06 340D



XS L06 340D

Sensing distance (Sn) mm	Function	Output	Connection (1)	Reference
Ø 4 plain				
Flush mountable, brass case				
1 3 wires	NO	PNP	Pre-cable (L=2m)	XS1L04PA310
			M8 connector	XS1L04PA310S
	NPN		Pre-cable (L=2m)	XS1L04NA310
			M8 connector	XS1L04NA310S
	NC	PNP	Pre-cable (L=2m)	XS1L04PB310
			M8 connector	XS1L04PB310S
NPN		Pre-cable (L=2m)	XS1L04NB310	
		M8 connector	XS1L04NB310S	
Flush mountable, stainless steel case				
0.8 3 wires	NO	PNP	Pre-cable (L=2m)	XS1L04PA311
			M8 connector	XS1L04PA311S
	NPN		Pre-cable (L=2m)	XS1L04NA311
			M8 connector	XS1L04NA311S
	NC	PNP	Pre-cable (L=2m)	XS1L04PB311
NPN		Pre-cable (L=2m)	XS1L04NB311	
Ø 5, thread M5 x 0.5				
Flush mountable, brass case				
1 3 wires	NO	PNP	Pre-cable (L=2m)	XS1N05PA310
	NPN		Pre-cable (L=2m)	XS1N05NA310
NC	PNP	Pre-cable (L=2m)	XS1N05PB310	
NPN		Pre-cable (L=2m)	XS1N05NB310	
Flush mountable, stainless steel case				
0.8 3 wires	NO	PNP	Pre-cable (L=2m)	XS1N05PA311
			M8 connector	XS1N05PA311S
	NPN		Pre-cable (L=2m)	XS1N05NA311
			M8 connector	XS1N05NA311S
	NC	PNP	Pre-cable (L=2m)	XS1N05PB311
			M8 connector	XS1N05PB311S
	NPN		Pre-cable (L=2m)	XS1N05NB311
			M8 connector	XS1N05NB311S

(1) For an output with a 5m long cable, add L1 to the reference with an added price of S\$11.00
 For an output with a 10m long cable, add L2 to the reference with an added price of S\$22.70
 Example: XS1L04PA310 becomes XS1L04PA310L1 with 5m long cable.

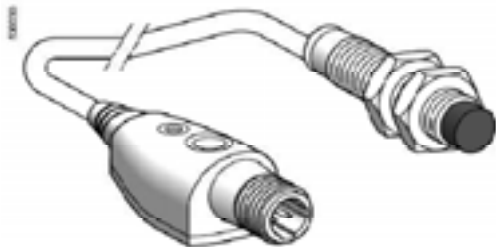
Inductive proximity sensors

OsiSense XS Application

Adjustable range sensors

Cylindrical, flush mountable and non flush mountable

Three-wire DC, solid-state output



XS6 ●●B2●●L01M12



XSZ BPM12

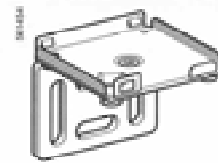


XSZ B●●●

Sensing distance (Sn) mm	Function	Output	Connection	Reference
Ø12, threaded M12 x 1				
5	NO	PNP	0.15m flying lead with M12 connector	XS612B2PAL01M12
		NPN	0.15m flying lead with M12 connector	XS612B2NAL01M12
	NC	PNP	0.15m flying lead with M12 connector	XS612B2PBL01M12
		NPN	0.15m flying lead with M12 connector	XS612B2NBL01M12
Ø18, threaded M18 x 1				
9	NO	PNP	0.15m flying lead with M12 connector	XS618B2PAL01M12
		NPN	0.15m flying lead with M12 connector	XS618B2NAL01M12
	NC	PNP	0.15m flying lead with M12 connector	XS618B2PBL01M12
		NPN	0.15m flying lead with M12 connector	XS618B2NBL01M12
Ø30, threaded M30 x 1.5				
18	NO	PNP	0.15m flying lead with M12 connector	XS630B2PAL01M12
		NPN	0.15m flying lead with M12 connector	XS630B2NAL01M12
	NC	PNP	0.15m flying lead with M12 connector	XS630B2PBL01M12
		NPN	0.15m flying lead with M12 connector	
Accessories				
Description				Reference
Remote control fixing clamp				XSZBPM12
Sensor fixing clamps			Ø12	XSZB112
			Ø18	XSZB118
			Ø30	XSZB130



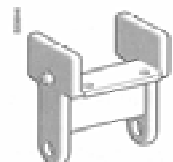
XSZ B00



XSZ D000



XSZ DC10



XSZ BE10



XSZ BD10

Mounting and fixing accessories

Description	For use with sensors	Reference
"Clip" mounting plate Mounting possible without "Clip" on tapped holes	XS●J	XSZBJ00
	XS●F	XSZBF00
	XS●E	XSZBE00
	XS●C	XSZBC00
"Clip" 90° mounting bracket Mounting possible without "Clip" on tapped holes	XS●J	XSZBJ90
	XS●F	XSZBF90
	XS●E	XSZBE90
	XS●C	XSZBC90
Replacement bracket	XS●E	XSZBE10
	Replace: XS7 T2, XS8 T2 and XSE	
	XS●C	XSZBC10
	Replace: XS7 T4, XS7 C40, XS8 T4, XS8 C40 and ZSC	
	XS●D (for XSD) (1)	XSZBD10

(1) Depth adjustment block for converting from 80 x 80 x 26 mm format to 80 x 80 x 40 mm format.
Also enables clipping onto 35 mm "omega" rail.

Limit switches

OsiSense XC Standard

Miniature design, metal, type XCM D

Pre-cabled



XCMD2110L1



XCMD2111L1



XCMD2102L1



XCMD2124L1



XCMD21F0L1



XCMD21G1L1



XCMD2115L1



XCMD2116L1



XCMD2117L1



XCMD2145L1



XCMD2125L1



XCMD21F2L1

Contacts	Type of head	Switch actuation	Type of operator	Reference
2-pole N/C+N/O snap action (1)	Plunger (fixing by the body)	On end	Metal end plunger	XCMD2110L1
			Metal end plunger with elastomer boot	XCMD2111L1
		By 30° cam	Steel roller plunger	XCMD2102L1
			Retractable steel roller lever plunger	XCMD2124L1
	Plunger (fixing by the body)	On end	Metal end plunger	XCMD2110L1
			Metal end plunger with elastomer boot	XCMD2111L1
		By 30° cam	M12 with steel roller plunger	XCMD21F2L1
	Rotary (fixing by the body)	By 30° cam	Thermoplastic roller lever	XCMD2115L1
			Steel roller lever	XCMD2116L1
			Roller lever with ball bearing mounted roller	XCMD2117L1
Variable length thermoplastic roller lever			XCMD2145L1	
Multi- directional	By any moving part	"Cat's whisker" (2)	XCMD2106L1	
2-pole N/C+N/O break before make, slow break (1)	Plunger (fixing by the body)	On end	Metal end plunger	XCMD2510L1
			Metal end plunger with elastomer boot	XCMD2511L1
		By 30° cam	Steel roller plunger	XCMD2502L1
			Retractable steel roller lever plunger	XCMD2524L1
	Plunger (fixing by the head)	On end	M12 with metal end plunger	XCMD25F0L1
			M16 with metal end plunger with elastomer boot	XCMD25G1L1
		By 30° cam	M12 with steel roller plunger	XCMD25F2L1
	Rotary (fixing by the body)	By 30° cam	Thermoplastic roller lever	XCMD2515L1
			Steel roller lever	XCMD2516L1
			Roller lever with ball bearing mounted roller	XCMD2517L1
Variable length thermoplastic roller lever			XCMD2545L1	
Multi- directional	By any moving part	"Cat's whisker" (2)	XCMD2506L1	

(1) N/C contact with positive opening operation

(2) Value taken with actuation by moving part at 100mm from the fixings.

Limit switches

OsiSense XC Standard

Miniature design, metal, type XCM D
Connector



XCMD2110M12



XCMD2111M12



XCMD2102M12



XCMD2124M12



XCMD21F0L1



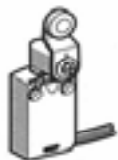
XCMD21G1L1



XCMD2115L1



XCMD2116L1



XCMD2117L1



XCMD2145L1



XCMD21F2L1

Contacts	Type of head	Switch actuation	Type of operator	Reference	
Single-pole C/O snap action with integral M12 4-pin connector	Plunger (fixing by the body)	On end	Metal end plunger	XCMD2110M12	
			Metal end plunger with elastomer boot	XCMD2111M12	
		By 30° cam	Steel roller plunger	XCMD2102M12	
			Retractable steel roller lever plunger	XCMD2124M12	
		Plunger (fixing by the head)	On end	M12 with metal end plunger	XCMD21F0M12
				M16 with metal end plunger with elastomer boot	XCMD21G1M12
	By 30° cam	M12 with steel roller plunger		XCMD21F2M12	
	Rotary (fixing by the body)	By 30° cam	Thermoplastic roller lever	XCMD2115M12	
			Steel roller lever	XCMD2116M12	
			Roller lever with ball bearing mounted roller	XCMD2117M12	
			Variable length thermoplastic roller lever	XCMD2145M12	
"Cat's whisker" (1)			XCMD2106M12		
2-pole N/C+N/O snap action with integral M12 5-pin connector	Plunger (fixing by the body)	On end	Metal end plunger	XCMD2110C12	
			Metal end plunger with elastomer boot	XCMD2111C12	
		By 30° cam	Steel roller plunger		XCMD2102C12
				Retractable steel roller lever plunger	XCMD2124C12
		Plunger (fixing by the head)	On end	M12 with metal end plunger	XCMD21F0C12
				M16 with metal end plunger with elastomer boot	XCMD21G1C12
	By 30° cam	M12 with steel roller plunger		XCMD21F2C12	
	Rotary (fixing by the body)	By 30° cam	Thermoplastic roller lever	XCMD2115C12	
			Steel roller lever	XCMD2116C12	
			Roller lever with ball bearing mounted roller	XCMD2117C12	
			Variable length thermoplastic roller lever	XCMD2145C12	
Multi-directional	By any moving part	"Cat's whisker" (1)	XCMD2106C12		

(1) Value taken with actuation by moving part at 100mm from the fixings.

Limit switches






OsiSense XC Standard

Miniature design, metal, type XCM D






Variable composition

Heads - common to miniature and compact bodies


Metal plunger and multi-directional heads

Description	Metal end plunger	Metal end plunger with protective elastomer boot	Steel roller plunger	Retractable steel roller lever plunger	Thermoplastic roller lever plunger, horizontal actuation
					
Reference	ZCE10	ZCE11	ZCE02	ZCE24	ZCE21

Metal rotary heads and levers

Description	Rotary head without lever, spring return, for actuation from LH or RH side	Thermoplastic roller lever, track: 24/31 mm (ZCMD) 29/36 mm (ZCD/P/T)	Steel roller lever, track: 24/31 mm (ZCMD) 29/36 mm (ZCD/P/T)	Thermoplastic roller lever, track: 16/39 mm (ZCMD) 21/44 mm (ZCD/P/T)	Steel roller lever, track: 16/39 mm (ZCMD) 21/44 mm (ZCD/P/T)
					
Reference	ZCE01	ZCY15	ZCY16	ZCY25	ZCY26

Bodies

Miniature	Bodies with contacts for use in conjunction with Pre-cable connections (see below)		
Type of contact	2-pole NO+NC Snap action	2-pole NC+NO Slow break	
Ref. of metal body	ZCMD21	ZCMD25	

Connection of miniature bodies















Specific pre-cabled connection components		
	for ZCMD21	for ZCMD25
Reference: L = 1 m	ZCMC21L1	ZCMC25L1

Limit switches (Cont.)

OsiSense XC Standard

Miniature design, metal, type XCM D

Variable composition

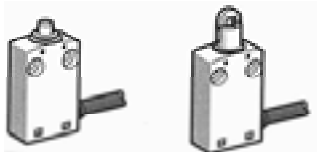
<p>Thermoplastic roller lever plunger, vertical actuation</p>  <p>ZCE27</p>	<p>M12 head metal end plunger</p>  <p>ZCEF0</p>	<p>M12 head steel roller plunger</p>  <p>ZCEF2</p>	<p>Spring rod</p>  <p>ZCE08</p>	<p>Spring rod with plastic end</p>  <p>ZCE07</p>	<p>"Cat's whisker"</p>  <p>ZCE06</p>
<p>Thermoplastic roller lever, track: 20/36 mm (ZCMD) 24/40 mm (ZCD/P/T)</p>  <p>ZCY18</p>	<p>Steel roller lever, track: 20/36 mm (ZCMD) 24/40 mm (ZCD/P/T)</p>  <p>ZCY19</p>	<p>Ceramic roller lever</p>  <p>ZCY22</p>	<p>Variable length thermoplastic roller lever</p>  <p>ZCY45</p>	<p>Round, glass fibre rod lever Ø 3 mm L=125 mm</p>  <p>ZCY55</p>	<p>Metal spring-rod lever</p>  <p>ZCY91</p>
<p>Bodies with integral connector, with snap action contact</p> 	<p>Pre-cable bodies with snap action contact</p> 				
<p>2-pole NC+NO Snap action Connector 5 pin</p> <p>ZCMD21C12</p>	<p>1-pole 1C/O Snap action Connector 4 pin</p> <p>ZCMD21M12</p>	<p>2-pole NO+NC Snap action cable L=1 m</p> <p>ZCMD21L1</p>	<p>4-pole NC+NC+NO+NO Snap action cable L=1 m</p> <p>ZCMD41L1</p>		

Limit switches

OsiSense XC Basic

Miniature design, plastic, type XCM N

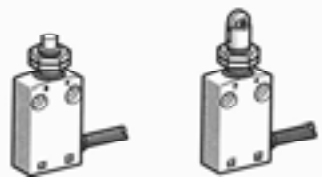
Pre-cabled



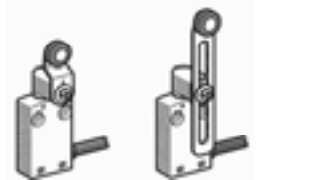
XCMN2110L1 XCMN2102L1



XCMN2103L1 XCMN2121L1



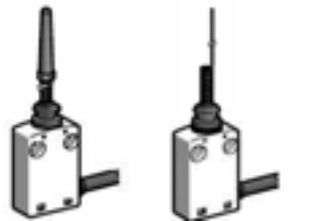
XCMN21F0L1 XCMN21F2L1



XCMN2115L1 XCMN2145L1



XCMN2159L1 XCMN21F3L1



XCMN2107L1 XCMN2106L1

Contacts	Type of head	Switch actuation	Type of operator	Reference	
2-pole N/C+N/O snap action	Plunger (fixing by the body) (1)	On end	Metal end plunger	XCMN2110L1	
		By 30° cam	Steel roller plunger for lateral cam approach	XCMN2102L1	
			Steel roller plunger for traverse cam approach	XCMN2103L1	
			Thermoplastic roller lever plunger, 1 direction of actuation	XCMN2121L1	
		Plunger (fixing by the head) (1)	On end	M12 with metal end plunger	XCMN21F0L1
			By 30° cam	M12 with steel roller plunger for lateral cam approach	XCMN21F2L1
M12 with steel roller plunger for traverse cam approach	XCMN21F3L1				
Rotary (fixing by the body) (1)	By 30° cam	Thermoplastic roller lever	XCMN2115L1		
		Variable length thermoplastic roller lever	XCMN2145L1		
	By any moving part	Round thermoplastic rod lever Ø 6mm (2)	XCMN2159L1		
Multi-directional	By any moving part	Spring lever with thermoplastic end (2)	XCMN2107L1		
		"Cat's whisker" (2)	XCMN2106L1		

(1) N/C contact with positive opening operation.

(2) Value taken with actuation by moving part at 100mm from the fixings.

Limit switches

OsiSense XC Standard

Compact design, plastic, type XCK P

Complete switches with 1 cable entry

Contacts	Type of head	Form EN50047	Switch actuation	Type of operator	Reference (1)
2-pole N/C+N/O snap action (XE2SP2151)	Plunger (fixing by the body) (2)	B	On end	Metal end plunger	XCKP2110P16
				Metal end plunger with elastomer boot	XCKP2111P16
		C	By 30° cam	Steel roller plunger	XCKP2102P16
		E	By 30° cam	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKP2121P16
				Thermoplastic roller lever plunger, vertical actuation in 1 direction	XCKP2127P16
				Thermoplastic roller lever plunger, horiz. or vert. actuation in 1 direction	XCKP2128P16
	Plunger (fixing by the head) (2)	-	On end	M18 with metal end plunger	XCKP21H0P16
			By 30° cam	M18 with steel end plunger	XCKP21H2P16
	Rotary (fixing by the body) (2)	A	By 30° cam	Thermoplastic roller lever	XCKP2118P16
				Variable length thermoplastic roller lever	XCKP2145P16
				Thermoplastic roller lever, Ø 50mm	XCKP2139P16
				Variable length thermoplastic roller lever, Ø 50mm	XCKP2149P16
	Multi-directional	-	By any moving part	"Cat's whisker" (3)	XCKP2106P16
2-pole N/C+N/O break before make, slow break (XE2NP2151)	Plunger (fixing by the body) (2)	B	On end	Metal end plunger	XCKP2510P16
				Metal end plunger with elastomer boot	XCKP2511P16
		C	By 30° cam	Steel roller plunger	XCKP2502P16
		E	By 30° cam	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKP2521P16
				Thermoplastic roller lever plunger, vertical actuation in 1 direction	XCKP2527P16
				Thermoplastic roller lever plunger, horiz. or vert. actuation in 1 direction	XCKP2528P16
	Plunger (fixing by the head) (2)	-	On end	M18 with metal end plunger	XCKP25H0P16
			By 30° cam	M18 with steel end plunger	XCKP25H2P16
	Rotary (fixing by the body) (2)	A	By 30° cam	Thermoplastic roller lever	XCKP2518P16
				Variable length thermoplastic roller lever	XCKP2545P16
				Thermoplastic roller lever, Ø 50mm	XCKP2539P16
				Variable length thermoplastic roller lever, Ø 50mm	XCKP2549P16
	Multi-directional	-	By any moving part	"Cat's whisker" (3)	XCKP2506P16

(1) For an entry tapped for a n° 11 cable gland, replace **P16** in the reference by **G11**.

Example: XCKP2110P16 becomes XCKP2110G11.

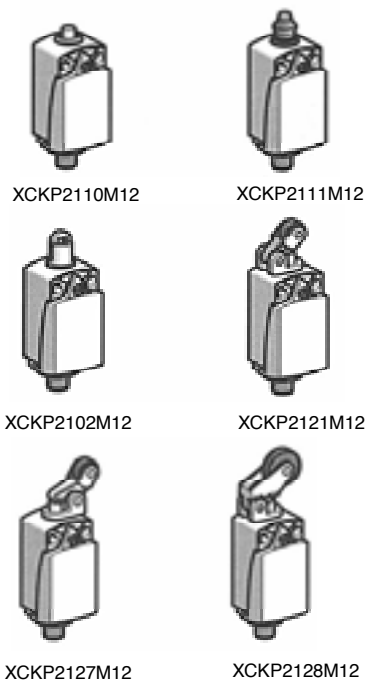
(2) N/C contact with positive opening operation

(3) Value taken with actuation by moving part at 100mm from the fixings.

Limit switches

OsiSense XC Standard

Compact design, plastic, type XCK P
M12 connector



Contacts	Type of head	Form EN 50047	Switch actuation	Type of operator	Reference
2-pole N/C+N/O snap action (XE2SP2151) (1)	Plunger (fixing by the body) (1)	B	On end	Metal end plunger	XCKP2110M12
				Metal end plunger with elastomer boot	XCKP2111M12
		C	By 30° cam	Steel roller plunger	XCKP2102M12
		E	By 30° cam	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKP2121M12
				Thermoplastic roller lever plunger, vertical actuation in 1 direction	XCKP2127M12
				Thermoplastic roller lever plunger, horiz. or vert. actuation in 1 direction	XCKP2128M12
	Plunger (fixing by the head) (1)	-	On end	M18 with metal end plunger	XCKP21H0M12
		-	By 30° cam	M18 with steel roller plunger	XCKP21H2M12
	Rotary (fixing by the body) (1)	A	By 30° cam	Thermoplastic roller lever	XCKP2118M12
				Variable length thermoplastic roller lever	XCKP2145M12
Thermoplastic roller lever, Ø 50mm				XCKP2139M12	
Variable length thermoplastic roller lever, Ø 50mm				XCKP2149M12	
Multi-directional	-	By any moving part	"Cat's whisker" (2)	XCKP2106M12	

(1) N/C contact with positive opening operation
(2) Value taken with actuation by moving part at 100mm from the fixings.

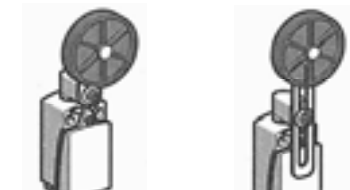
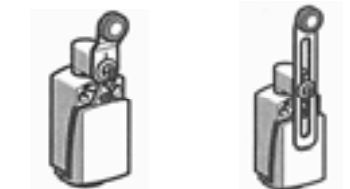
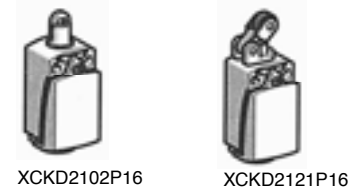
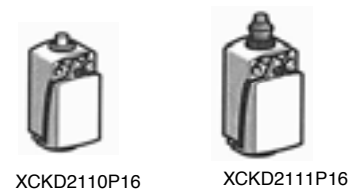
5

Limit switches

OsiSense XC Standard

Compact design, metal, type XCK D

Complete switches with 1 cable entry



Contacts	Type of head	Form EN50047	Switch actuation	Type of operator	Reference (1)	
2-pole N/C+N/O snap action (XE2SP2151)	Plunger (fixing by the body) (2)	B	On end	Metal end plunger	XCKD2110P16	
				Metal end plunger with elastomer boot	XCKD2111P16	
		C	By 30° cam	Steel roller plunger	XCKD2102P16	
			E	By 30° cam	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKD2121P16
					Thermoplastic roller lever plunger, vertical actuation in 1 direction	XCKD2127P16
					Thermoplastic roller lever plunger, horiz. or vert. actuation in 1 direction	XCKD2128P16
		Plunger (fixing by the head) (2)		On end	M18 with metal end plunger	XCKD21H0P16
			By 30° cam	M18 with steel end plunger	XCKD21H2P16	
		Rotary (fixing by the body) (2)	A	By 30° cam	Thermoplastic roller lever	XCKD2118P16
					Variable length thermoplastic roller lever	XCKD2145P16
				Thermoplastic roller lever, Ø 50mm	XCKD2139P16	
				Variable length thermoplastic roller lever Ø 50mm	XCKD2149P16	
	Multi-directional	-	By any moving part	"Cat's whisker" (3)	XCKD2106P16	
2-pole N/C+N/O break before slow break (XE2NP2151)	Plunger (fixing by the body)	B	On end	Metal end plunger	XCKD2510P16	
				Metal end plunger with elastomer boot	XCKD2511P16	
		C	By 30° cam	Steel roller plunger	XCKD2502P16	
			E	By 30° cam	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKD2521P16
					Thermoplastic roller lever plunger, vertical actuation in 1 direction	XCKD2527P16
					Thermoplastic roller lever plunger, horiz. or vert. actuation in 1 direction	XCKD2528P16
		Plunger (fixing by the head) (2)		On end	M18 with metal end plunger	XCKD25H0P16
			By 30° cam	M18 with steel end plunger	XCKD25H2P16	
		Rotary (fixing by the body) (2)	A	By 30° cam	Thermoplastic roller lever	XCKD2518P16
					Variable length thermoplastic roller lever	XCKD2545P16
				Thermoplastic roller lever, Ø 50mm	XCKD2539P16	
				Variable length thermoplastic roller lever Ø 50mm	XCKD2549P16	
	Multi-directional	-	By any moving part	"Cat's whisker" (3)	XCKD2506P16	

(1) For an entry tapped for a n° 11 cable gland, replace **P16** in the reference by **G11**..

Example: XCKD2110P16 becomes XCKD2110G11.

(2) N/C contact with positive opening operation

(3) Value taken with actuation by moving part at 100mm from the fixings.

Limit switches

OsiSense XC Standard

Compact design, metal, type XCK D
M12 connector



XCKD2110M12



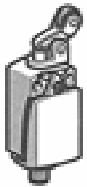
XCKD2111M12



XCKD2102M12



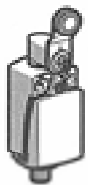
XCKD2121M12



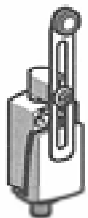
XCKD2127M12



XCKD2128M12



XCKD2118M12



XCKD2145M12



XCKD2139M12



XCKD2149M12



XCKD2106M12

Contacts	Type of head	Form EN 50047	Switch actuation	Type of operator	Reference	
2-pole N/C+N/O snap action (XE2SP2151)	Plunger (fixing by the body)	B	On end	Metal end plunger	XCKD2110M12	
				Metal end plunger with elastomer boot	XCKD2111M12	
				Steel roller plunger	XCKD2102M12	
	C	By 30° cam	E	By 30° cam	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKD2121M12
					Thermoplastic roller lever plunger, vertical actuation in 1 direction	XCKD2127M12
					Thermoplastic roller lever plunger, horiz. or vert. actuation in 1 direction	XCKD2128M12
					M18 with metal end plunger	XCKD21H0M12
	By 30° cam	M18 with steel roller plunger	XCKD21H2M12			
			Rotary (fixing by the body)	A	By 30° cam	Thermoplastic roller lever
	Variable length thermoplastic roller lever	XCKD2145M12				
Thermoplastic roller lever, Ø 50mm	XCKD2139M12					
Variable length thermoplastic roller lever Ø 50mm	XCKD2149M12					
Multi-directional	-	By any moving part	"Cat's whisker" (1)		XCKD2106M12	

(1) Value taken with actuation by moving part at 100mm from the fixings.

Limit switches

OsiSense XC Standard

Compact design, plastic, type XCK T

Complete switches with 2 cable entries



XCKT2110P16



XCKP2111P16



XCKT2102P16



XCKP2121P16



XCKT21H0P16



XCKP21H2P16



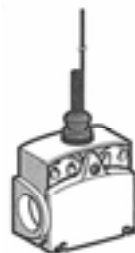
XCKT21H0P16



XCKP21H2P16



XCKT2106P16



XCKT2106P16

Contacts	Type of head	Form EN 50047	Switch actuation	Type of operator	Reference
2-pole N/C+N/O snap action (XE2SP3151)	Plunger (fixing by the body) (1)	B	On end	Metal end plunger	XCKT2110P16
				Metal end plunger with elastomer boot	XCKT2111P16
		C	By 30° cam	Steel roller plunger	XCKT2102P16
		E	By 30° cam	Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKT2121P16
Plunger (fixing by the head)	-		On end	M18 with metal end plunger	XCKT21H0P16
			By 30° cam	M18 with steel end plunger	XCKT21H2P16
Rotary (fixing by the body) (1)	A		By 30° cam	Thermoplastic roller lever	XCKT2118P16
				Variable length thermoplastic roller lever	XCKT2145P16
				Thermoplastic roller lever, Ø 50mm	XCKT2139P16
Multi-directional	-	-	By any moving part	"Cat's whisker" (2)	XCKT2106P16

(1) N/C contact with positive opening operation

(2) Value taken with actuation by moving part at 100mm from the fixings.






Limit switches

OsiSense XC Standard






Compact design, types XCK D, XCK P and XCK T
Variable composition

Heads - common for compact bodies


Metal plunger and multi-directional heads

Description	Metal end plunger	Metal end plunger with protective elastomer boot	Steel roller plunger	Retractable steel roller lever plunger	Thermoplastic roller lever plunger, horizontal actuation
					
Reference	ZCE10	ZCE11	ZCE02	ZCE24	ZCE21






Metal rotary heads and levers

Description	Rotary head without lever, spring return, for actuation from LH or RH side	Thermoplastic roller lever, track: 24/31 mm (ZCMD) 29/36 mm (ZCD/P/T)	Steel roller lever, track: 24/31 mm (ZCMD) 29/36 mm (ZCD/P/T)	Thermoplastic roller lever, track: 16/39 mm (ZCMD) 21/44 mm (ZCD/P/T)	Steel roller lever, track: 16/39 mm (ZCMD) 21/44 mm (ZCD/P/T)
					
Reference	ZCE01	ZCY15	ZCY16	ZCY25	ZCY26

Bodies

Compact	Bodies with contacts for use in conjunction with cable gland (see below)				
					
Type of contact	2-pole NO+NC Snap action	3-pole 2NC+NO Snap action	2-pole NC+NO Slow break	2-pole NC+NC Slow break	2-pole NO+NO Slow break
Ref. of metal body	ZCD21	ZCD39	ZCD25	ZCD27	ZCD28
Ref. plastic body	ZCP21	ZCP39	ZCP25	ZCP27	ZCP28

Connection of compact bodies







Interchangeable outlet for cable gland					
Description	For ISO M16 cable gland	For ISO M20 cable gland	For Pg 11 cable gland	For Pg 13.5 cable gland	For 1/2" NPT cable gland
Metal	ZCDEP16	ZCDEP20	ZCDEG11	ZCDEG13	ZCDEN12
Plastic	ZCPEP16	ZCPEP20	ZCPEG11	ZCPEG13	ZCPEN12









Limit switches (Cont.)




OsiSense XC Standard

Compact design, types XCK D, XCK P and XCK T

Variable composition

Thermoplastic roller lever plunger, vertical actuation	M18 head metal end plunger	M18 head steel roller plunger	Spring rod	Spring rod with plastic end	"Cat's whisker"
					
ZCE27	ZCEH0	ZCEH2	ZCE08	ZCE07	ZCE06

Thermoplastic roller lever, track: 20/36 mm (ZCMD) 24/40 mm (ZCD/P/T)	Steel roller lever, track: 20/36 mm (ZCMD) 24/40 mm (ZCD/P/T)	Ceramic roller lever	Variable length thermoplastic roller lever	Round, glass fibre rod lever Ø 3 mm L=125 mm	Metal spring-rod lever	Thermoplastic roller lever Ø 50 mm	Adjustable thermo-plastic roller lever Ø 50 mm
							
ZCY18	ZCY19	ZCY22	ZCY45	ZCY55	ZCY91	ZCY39	ZCY49

		Bodies with M12 connector, with contacts	
2-pole NC+NC Snap action	3-pole 2NC+NO Slow break	2-pole NC+NO - Snap action Connector 5-pin	Bodies with contacts with 2 cable entries ISO M16 x 1.5
ZCD29	ZCD37	ZCD21M12	
ZCP29	ZCP37	ZCP21M12	ZCT21P16
			ZCT25P16



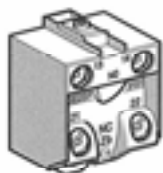
For PF 1/2 (G12) cable gland
ZCDEF12
ZCPEF12

Limit switches

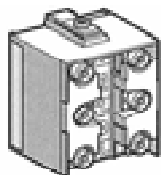
OsiSense XC Standard

Compact design, metal, type XCK D or plastic, types XCK P and XCK T

Adaptable sub-assemblies: contact blocks



XE2e21ee



XE3e21ee

Contact blocks with screw clamp terminals for XCKD and XCKP

Type of contacts	Positive operation (1)	Reference
2-pole		
N/C+N/O snap action	◆	XE2SP2151
N/C+N/C simultaneous, snap action	◆	XE2SP2141
N/C+N/O break before make, slow break	◆	XE2NP2151
N/O+N/C make before break, slow break	◆	XE2NP2161
N/C+N/C simultaneous, slow break	◆	XE2NP2141
N/O+N/O simultaneous, slow break		XE2NP2131
3-pole		
N/C+N/O+N/O snap action	◆	XE3SP2151
N/C+N/C+N/O snap action	◆	XE3SP2141
N/C+N/C+N/O break before make, slow break	◆	XE3NP2141
N/C+N/O+N/O break before make, slow break	◆	XE3NP2151

Contact blocks with screw clamp terminals for XCKT

Type of contacts	Positive operation (1)	Reference
2-pole		
N/C+N/O snap action	◆	XE2SP3151
N/C+N/O break before make, slow break	◆	XE2NP3151
N/O+N/C make before break, slow break	◆	XE2NP3161
N/C+N/C simultaneous, slow break	◆	XE2NP3141
N/O+N/O simultaneous, slow break		XE2NP3131












(1) ◆ : bodies with contacts assuring positive opening operation

Limit switches

OsiSense XC Standard

Compact design, plastic, with reset, type XCPR

Complete switches with 1 cable entry

Type of head	Plunger (fixing by the body)				Rotary (fixing by the body)	
						
Type of operator	Metal end plunger	Steel roller plunger	Thermoplastic roller lever plunger horizontal actuation in 1 direction	Thermoplastic roller lever plunger vertical actuation in 1 direction	Thermoplastic roller lever	Steel roller lever
References of complete switches with 1 ISO M20 x 1.5 cable entry						
2-pole N/C + N/O snap action (XE2S P2151)	XCPR2110P20	XCPR2102P20	XCPR2121P20	XCPR2127P20	XCPR2118P20	XCPR2119P20
2-pole N/C + N/O break before make slow break (XE2N P2151)	XCPR2510P20	XCPR2502P20	XCPR2521P20	XCPR2527P20	XCPR2518P20	XCPR2519P20
References of complete switches with 1 pg 13.5 cable entry						
2-pole N/C + N/O snap action (XE2S P2151)	XCPR2110G13	XCPR2102G13	XCPR2121G13	XCPR2127G13	XCPR2118G13	XCPR2119G13
2-pole N/C + N/O break before make slow break (XE2N P2151)	XCPR2510G13	XCPR2502G13	XCPR2521G13	XCPR2527G13	XCPR2518G13	XCPR2519G13
Characteristics						
Switch actuation	On end	By 30° cam				
Type of actuation						
Max. actuation speed	0.5m/s		1 m/s		1.5 m/s	
Min. force or torque						
For tripping	15N	12N	6N		0.1 N.m	
For positive opening	45N	36N	18N		0.25 N.m	
Cable entry	1 entry tapped M20 x 1.5mm for ISO cable gland, clamping capacity 7 to 13mm, or 1 entry tapped Pg 13.5 for cable gland, clamping capacity 9 to 12mm, or					

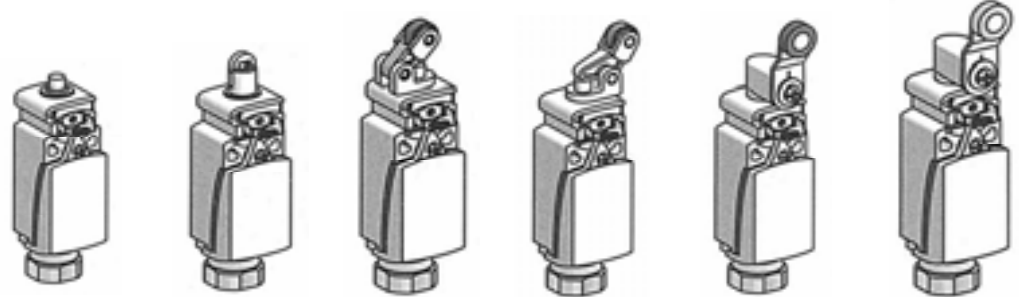
Limit switches

OsiSense XC Standard

Compact design, metal, with reset, type XCDR

Complete switches with 1 cable entry

Type of head	Plunger (fixing by the body)				Rotary (fixing by the body)	
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Type of operator	Metal end plunger	Steel roller plunger	Thermoplastic roller lever plunger horizontal actuation in 1 direction	Thermoplastic roller lever plunger vertical actuation in 1 direction	Thermoplastic roller lever	Steel roller lever
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References of complete switches with 1 ISO M20 x 1.5 cable entry

2-pole N/C + N/O snap action (XE2S P2151)	XCDR2110P20	XCDR2102P20	XCDR2121P20	XCDR2127P20	XCDR2118P20	XCDR2119P20
2-pole N/C + N/O break before make slow break (XE2N P2151)	XCDR2510P20	XCDR2502P20	XCDR2521P20	XCDR2527P20	XCDR2518P20	XCDR2519P20

References of complete switches with 1 pg 13.5 cable entry

2-pole N/C + N/O snap action (XE2S P2151)	XCDR2110G13	XCDR2102G13	XCDR2121G13	XCDR2127G13	XCDR2118G13	XCDR2119G13
2-pole N/C + N/O break before make slow break (XE2N P2151)	XCDR2510G13	XCDR2502G13	XCDR2521G13	XCDR2527G13	XCDR2518G13	XCDR2519G13

Characteristics

Switch actuation	On end	By 30° cam				
Type of actuation						
Max. actuation speed	0.5m/s		1 m/s		1.5 m/s	
Min. force or torque						
For tripping	15N	12N	6N	0.1 N.m		
For positive opening	45N	36N	18N	0.25 N.m		
Cable entry	1 entry tapped M20 x 1.5mm for ISO cable gland, clamping capacity 7 to 13mm, or 1 entry tapped Pg 13.5 for cable gland, clamping capacity 9 to 12mm, or					

5

Limit switches

OsiSense XC Standard

Compact design, plastic, with reset, type XCTR

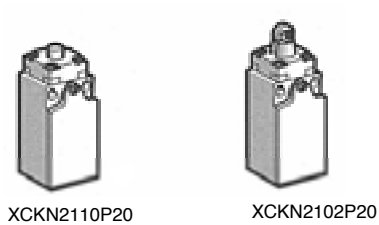
Complete switches with 2 cable entries

Type of head	Plunger (fixing by the body)			
Type of operator	Metal end plunger	Steel roller plunger	Thermoplastic roller lever	Thermoplastic roller lever plunger horizontal actuation in 1 direction
References of complete switches with 2 ISO M16 x 1.5 cable entries				
2-pole N/C + N/O snap action (XE2S P3151)	XCTR2110P16	XCTR2102P16	XCTR2118P16	XCTR2121P16
2-pole N/C + N/O break before make slow break (XE2N P3151)	XCTR2510P16	XCTR2502P16	XCTR2518P16	XCTR2521P16
References of complete switches with 2 pg 11 cable entries				
2-pole N/C + N/O snap action (XE2S P3151)	XCTR2110G11	XCTR2102G11	XCTR2118G11	XCTR2121G11
2-pole N/C + N/O break before make slow break (XE2N P3151)	XCTR2510G11	XCTR2502G11	XCTR2518G11	XCTR2521G11
Characteristics				
Switch actuation	On end	By 30° cam		
Type of actuation				
Max. actuation speed	0.5m/s		1.5 m/s	1 m/s
Min. force or torque				
For tripping	15N	12N	0.1 N.m	6N
For positive opening	45N	36N	0.25 N.m	18N
Cable entry	2 entries tapped M16 x 1.5mm for ISO cable gland, clamping capacity 4 to 8mm, or 2 entries tapped Pg 11 for cable gland, clamping capacity 7 to 10mm, or			

Limit switches

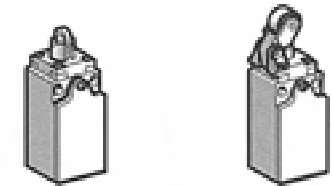
OsiSense XC Basic

Compact design, plastic, type XCK N
Complete switches with 1 cable entry



XCKN2110P20

XCKN2102P20



XCKN2103P20



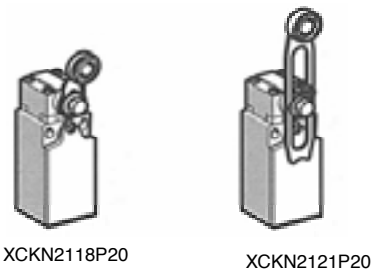
XCKN2127P20



Contacts	Type of head	Switch actuation	Type of operator	Reference
2-pole N/C+N/O snap action	Plunger (fixing by the body) (1)	On end	Metal end plunger	XCKN2110P20
		By 30° cam	Steel roller plunger for lateral cam approach	XCKN2102P20
			Steel roller plunger for traverse cam approach	XCKN2103P20
			Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKN2121P20
			Thermoplastic roller lever plunger, vertical actuation in 1 direction	XCKN2127P20
		Rotary (fixing by the body) (1)	By 30° cam	Thermoplastic roller lever
Variable length thermoplastic roller lever	XCKN2145P20			
Variable length thermoplastic roller lever Ø 50mm	XCKN2149P20			
Multi-directional	By any moving part	Spring lever	XCKN2108P20	
		"Cat's whisker" (2)	XCKN2106P20	

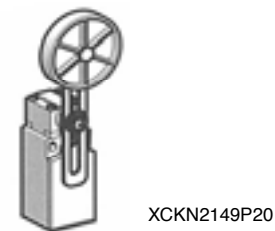
(1) N/C contact with positive opening operation.

(2) Value taken with actuation by moving part at 100mm from the fixings.

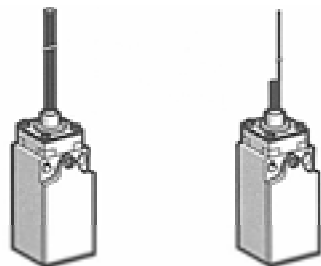


XCKN2118P20

XCKN2121P20



XCKN2149P20

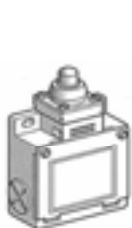


Limit switches

OsiSense XC Standard, Classic format

Metal, type XCK M, XCK L, XCK ML

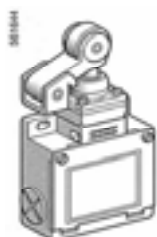
Complete switches with cable gland



XCKM
Metal end plunger



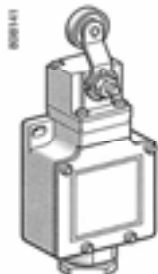
XCKL



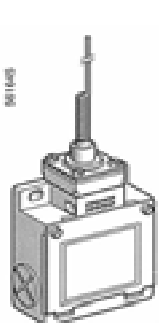
XCKM
Thermoplastic roller lever plunger,
horizontal actuation in 1 direction



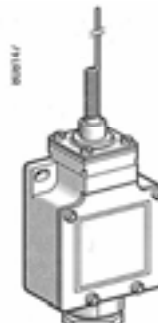
XCKM
Thermoplastic roller lever



XCKL



XCKM
"Cat's whisker"



XCKL

XCKM

Complete switches with 1 entry tapped for Pg 11 cable gland (*)

Contacts	Type of head	Switch actuation	Type of operator	Reference
2-pole N/C+N/O snap action (XE2SP2151)	Plunger (fixing by the body) (1)	On end By 30° cam	Metal end plunger	XCKM110
			Steel roller plunger	XCKM102
			Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKM121
	Rotary (1) (fixing by the body)	By 30° cam	Thermoplastic roller lever (2)	XCKM115
	Multi-direction (fixing by the body)	By any moving part	"Cat's whisker" (3)	XCKM106

(*) For 3 entries tapped ISO M20 x 1.5 cable entries, add suffix H29. Example XCKM110 becomes XCKM110H29. Price is the same.

XCKL

Complete switches incorporating cable gland

Contacts	Type of head	Switch actuation	Type of operator	Reference
2-pole N/C+N/O snap action (XE2SP2151)	Plunger (fixing by the body) (1)	On end By 30° cam	Metal end plunger	XCKL110
			Steel roller plunger	XCKL102
			Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKL121
	Rotary (1) (fixing by the body)	By 30° cam	Thermoplastic roller lever (2)	XCKL115
	Multi-direction (fixing by the body)	By any moving part	"Cat's whisker" (3)	XCKL106

XCKML 2 x 2-pole contacts

Complete switches with 3 entries tapped for Pg 13 cable gland (*)

Contacts	Type of head	Switch actuation	Type of operator	Reference
2 x 2-pole N/C+N/O snap action (XESP2151L) (1)	Plunger (fixing by the body)	On end By 30° cam	Metal end plunger	XCKML110
			Steel roller plunger	XCKML102
			Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKML121
	Rotary (1) (fixing by the body)	By 30° cam	Thermoplastic roller lever (2)	XCKML115
2 x 2-pole N/C+N/O break before make, slow break (XENP2151L) (1)	Plunger (fixing by the body)	On end By 30° cam	Metal end plunger	XCKML510
			Steel roller plunger	XCKML502
			Thermoplastic roller lever plunger, horizontal actuation in 1 direction	XCKML521
	Rotary (1) (fixing by the body)	By 30° cam	Thermoplastic roller lever (2)	XCKML515

(*) For 3 entries tapped ISO M20 x 1.5 cable entries, add suffix H29. Example XCKML110 becomes XCKML110H29. Price is the same.

(1) N/C contact with positive opening operation

(2) Adjustable throughout 360° in 5° steps, or in 90° steps by reversing the notched washer.

(3) Value taken with actuator operating at 100mm from the fixing.

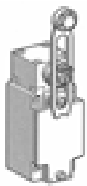
Limit switches

OsiSense XC Standard, Industrial format EN 50041

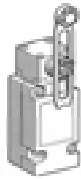
Plastic, double insulated, type XCK S. Metal, type XCK J

Conforming to CENELEC EN 50041

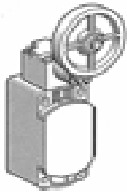
Complete switches with n° 13 cable entry



Fixed
Variable length thermoplastic roller lever



Plug-in



Elastomer roller lever, diameter 50mm



Fixed
Metal end plunger



Plug-in



Fixed
Steel end plunger



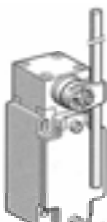
Plug-in



Fixed
Thermoplastic roller lever



Plug-in



Plastic, double insulated, type XCKS (*)

Contacts	Type of head	Form EN 50041	Switch actuation	Type of operator	Reference
2-pole N/C+N/O snap action (XE2SP2151)	Plunger	B	On end	Metal end plunger	(1) XCKS101
	(fixing by the body)	C	By 30° cam	Steel roller plunger	(1) XCKS102
	Rotary (fixing by the body)	A	By 30° cam	Thermoplastic roller lever (5)	(1) XCKS131
				Elastomer roller lever Ø 50mm (5)	XCKS139
				Variable length thermoplastic roller lever (5)	XCKS141
			Variable length elastomer roller lever, Ø 50mm (5)	XCKS149	
		D	By any moving part	Round thermoplastic rod lever Ø 6mm (3) (4)	XCKS159

Metal, type XCKJ (*)

Contacts	Type of head	Form EN 50041	Switch actuation	Type of operator	Reference
Fixed body					
2-pole N/C+N/O snap action (XE2SP2151)	Plunger	B	On end	Metal end plunger	(1) XCKJ161
	(fixing by the body)	C	By 30° cam	Steel roller plunger	(1) XCKJ167
	Rotary (fixing by the body) (2)	A	By 30° cam	Thermoplastic roller lever (3)	(1) XCKJ10511
				Steel roller lever (3)	(1) XCKJ10513
				Variable length thermoplastic roller lever (3)	XCKJ10541
		D	By any moving part	Round thermoplastic rod lever Ø 6mm (3) (4)	XCKJ10559
Plug-in body					
Single pole C/O snap action	Plunger	B	On end	Metal end plunger	XCKJ1161
	(fixing by the body)	C	By 30° cam	Steel roller plunger	XCKJ1167
	Rotary (fixing by the body)	A	By 30° cam	Thermoplastic roller lever (3)	XCKJ110511
				Steel roller lever (3)	XCKJ110513
				Variable length thermoplastic roller lever (3)	XCKJ110541
		D	By any moving part	Round thermoplastic rod lever Ø 6mm (3) (4)	XCKJ110559

(*) For 1 entry ISO M20 x 1.5 cable entries, add suffix H29. Example XCKJ110 becomes XCKJ110H29. Price is the same.

(*) For 1 entry ISO M20 x 1.5 cable entries, add suffix H29. Example XCKS101 becomes XCKS101H29. Price is the same.

(1) N/C contact with positive opening operation.

(2) Switches supplied for actuation from left AND right.

(3) Adjustable throughout 360° in 5° steps, or in 4 5° steps by reversing the lever mounting or clamp.

(4) Value taken with actuator operating at 100mm from the fixing.

(5) Adjustable throughout 360° in 5° steps, or in 9 0° steps by reversing the lever mounting.

Limit switches

OsiSense XC Special

For hoisting and material handling applications,
type XCR, complete switches with 1 cable entry
type XCK MR, complete switches with 3 cable entries



Metal rod



Thermoplastic roller lever



Large thermoplastic roller lever



Metal cross or "T"



XCR Z02



XCR Z05



XCR Z09



XCR Z15

XCR complete units with 1 cable entry

Contacts	Type of head	Type of operator	Max. displacement	Reference
2 x 2-pole 1 N/C+1 N/O snap action (XE2SP2151) (1)	Both	Rotary with spring return to off position	55° in each direction	Metal rod \varnothing 6mm XCRA11
	operates in each direction	Stay put	90° in each direction	Thermoplastic roller lever XCRA12
				Large thermoplastic roller lever XCRA15
				Metal crossed rod \varnothing 6mm XCRE18
1 contact operates in each direction	Rotary with spring return to off position	Stay put	55° in each direction	Metal rod \varnothing 6mm XCRB11
				Thermoplastic roller lever XCRB12
				Large thermoplastic roller lever XCRB15
				Metal "T" rod \varnothing 6mm XCRF17
2 x 2-pole 1 N/C+1 N/O break before make (XE2NP2151) slow break (1)	Both	Rotary with spring return to off position	55° in each direction	Metal rod \varnothing 6mm XCRA51
	operates in each direction	Stay put	90° in each direction	Thermoplastic roller lever XCRA52
				Large thermoplastic roller lever XCRA55
				Metal crossed rod \varnothing 6mm XCRE58
1 contact operates in each direction	Rotary with spring return to off position	Stay put	55° in each direction	Metal rod \varnothing 6mm XCRB51
				Thermoplastic roller lever XCRB52
				Large thermoplastic roller lever XCRB55
				Metal "T" rod \varnothing 6mm XCRF57

(1) N/C contact with positive opening operation.

Accessories and spare parts

Description	For switch	Type	Reference
Rod \varnothing 6mm	XCRA	L= 200 mm	XCRZ03
Roller lever thermoplastic roller	XCRA XCRB		XCRZ02
Large roller lever thermoplastic roller	XCRA XCRB		XCRZ05
Quick fixing/release bracket	XCRA, XCRB XCRE, XCRF		XCRZ09
Contact block (2 contact) with mounting plate	XCRA, XCRB XCRE, XCRF	2-pole N/C + N/O snap action 2-pole N/C + N/O break before make, snap action	XCRZ12 XCRZ15

XCK MR complete units with 3 cable entries

Contacts	Type of head	Type of operator	Reference
Switches with 3 cable entries ISO M20 x 1.5			
2 x 2-pole N/C+N/C staggered,, slow break (non interchangeable contacts)	Angular	with cruciform metal rods	XCKMR54D1H29
		with cruciform metal rods, reversed head	XCKMR54D2H29
Switches with 3 cable entries for N°13 cable gland			
2 x 2-pole N/C+N/C staggered,, slow break (non interchangeable contacts)	Angular	with cruciform metal rods	XCKMR54D1
		with cruciform metal rods, reversed head	XCKMR54D2

(1) N/C contact with positive opening operation.

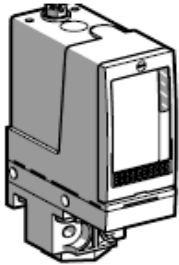
Electromechanical pressure switches

OsiSense XM, type XML

Size 2.5 bar (36.25 psi) to 35 bar (507.5 psi)

Fixed differential, for detection of a single threshold

Switches with 1 CO single-pole contact



**With setting scale, fluid connection G 1/4" BSP
1 entry tapped for n°13 cable gland**

Adjustable range of switching point (PH)	Natural differential (subtract from PH to give PB)	Maximum permissible pressure	Fluids controlled	Reference
bar (psi)	bar (psi)	bar (psi)		
0.15...2.5 (2.17...36.25)	0.13 (1.88) (1)	9 (130.5)	Hydraulic oils, fresh water, sea water, air, up to + 70 °C	XMLA002A2S11
			Hydraulic oils, fresh water, sea water, air, up to + 160 °C	XMLA002B2S11
			Corrosive fluids, up to + 160 °C	XMLA002C2S11
0.4...4 (5.8...58)	0.35 (5.07) (1)	9 (130.5)	Hydraulic oils, fresh water, sea water, air, up to + 70 °C	XMLA004A2S11
			Hydraulic oils, fresh water, sea water, air, up to + 160 °C	XMLA004B2S11
			Corrosive fluids, up to + 160 °C	XMLA004C2S11
0.6...10 (8.7...145)	0.5 (7.25) (2)	22.5 (326.25)	Hydraulic oils, fresh water, sea water, air, up to + 70 °C	XMLA010A2S11
			Hydraulic oils, fresh water, sea water, air, up to + 160 °C	XMLA010B2S11
			Corrosive fluids, up to + 160 °C	XMLA010C2S11
1...20 (14.5...290)	0.4 Low, 1 High (5.8 Low, 14.5 High) (3)	45 (652.5)	Hydraulic oils, fresh water, sea water, air, up to + 70 °C	XMLA020A2S11
			Hydraulic oils, fresh water, sea water, air, up to + 160 °C	XMLA020B2S11
			Corrosive fluids, up to + 160 °C	XMLA020C2S11
1.5...35 (21.75...507.5)	1.25 (18.12) (4)	80 (1160)	Hydraulic oils, fresh water, sea water, air, up to + 70 °C	XMLA035A2S11
			Hydraulic oils, fresh water, sea water, air, up to + 160 °C	XMLA035B2S11
			Corrosive fluids, up to + 160 °C	XMLA035C2S11
5...70 (72.5...1015)	3 Low, 7.5 High (43.5 Low, 108.75 High) (5)	160 (2320)	Hydraulic oils, up to +160 °C	XMLA070D2S11
			Fresh water, sea water, up to +160 °C	XMLA070E2S11
			Corrosive fluids, air, up to + 160 °C	XMLA070N2S11
10...160 (145...2320)	5.5 Low (5), 18 High (6) (79.75 Low, 261 high)	360 (5220)	Hydraulic oils, up to +160 °C	XMLA160D2S11
			Fresh water, sea water, up to +160 °C	XMLA160E2S11
			Corrosive fluids, air, up to + 160 °C	XMLA160N2S11
20...300 (290...4350)	16.5 Low (6) 35 High (7) (239.25 Low, 507.5 High)	675 (9787.5)	Hydraulic oils, up to +160 °C	XMLA300D2S11
			Fresh water, sea water, up to +160 °C	XMLA300E2S11
			Corrosive fluids, air, up to + 160 °C	XMLA300N2S11
30...500 (435...7250)	20 Low (7) 45 High (8) (290 Low, 652.5 High)	1125 (16 312.5)	Hydraulic oils, up to +160 °C	XMLA500D2S11
			Fresh water, sea water, up to +160 °C	XMLA500E2S11
			Corrosive fluids, air, up to + 160 °C	XMLA500N2S11

(1) Deviation of the differential at high and low setting points for switches of the same size: ± 0.03 bar (± 0.43 psi).

(2) Deviation of the differential at high and low setting points for switches of the same size: ± 0.05 bar (± 0.72 psi).

(3) Deviation of the differential at high setting points for switches of the same size: ±0.1 bar (±1.45psi).

Deviation of the differential at low setting points for switches of the same size: ±0.2 bar (±2.9psi).

(4) Deviation of the differential at high and low setting points for switches of the same size: ±0.25 bar (±3.62 psi).

(5) Deviation of the differential at high and low setting points for switches of the same size: ±1 bar (±14.5 psi).

(6) Deviation of the differential at high and low setting point for switches of the same size: ±3 bar (±43.5 psi).

(7) Deviation of the differential at high and low setting point for switches of the same size: ±6 bar (±87psi).

(8) Deviation of the differential at high setting point for switches of the same size: ±10 bar (±145 psi).

Electromechanical pressure switches

OsiSense XM, type XML

Size 2.5 bar (36.25 psi) to 35 bar (507.5 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 1 CO single-pole contact



With setting scale, fluid connection G 1/4 (female) 1 entry tapped for n°13 cable gland				
Adjustable range of switching point (PH)	Possible differential (subtract from PH to give PB)	Maximum permissible pressure	Fluids controlled	Reference
bar (psi)	bar (psi)	bar (psi)		
0.3...2.5 (4.35...36.25)	0.16 Low,	9 (130.5)	Hydraulic oils, fresh water, sea water, air, up to + 70 °C	XMLB002A2S11
	0.21 High		Hydraulic oils, fresh water, sea water, air, up to + 160 °C	XMLB002B2S11
	(2.32 Low, 3.04 High) (1)		Corrosive fluids, up to + 160 °C	XMLB002C2S11
0.25...4 (3.62...58)	0.2 Low (2)	9 (130.5)	Hydraulic oils, fresh water, sea water, air, up to + 70 °C	XMLB004A2S11
	0.25 High (3)		Hydraulic oils, fresh water, sea water, air, up to + 160 °C	XMLB004B2S11
	(2.9 Low, 3.62 High)		Corrosive fluids, up to + 160 °C	XMLB004C2S11
0.7...10 (10.15...145)	0.57 Low (4)	22.5 (326.25)	Hydraulic oils, fresh water, sea water, air, up to + 70 °C	XMLB010A2S11
	0.85 High (5)		Hydraulic oils, fresh water, sea water, air, up to + 160 °C	XMLB010B2S11
	(8.26 Low, 12.32 High)		Corrosive fluids, up to + 160 °C	XMLB010C2S11
1.3...20 (18.9...290)	1 Low (6)	45 (652.5)	Hydraulic oils, fresh water, sea water, air, up to + 70 °C	XMLB020A2S11
	1.6 High (6)		Hydraulic oils, fresh water, sea water, air, up to + 160 °C	XMLB020B2S11
	(14.5 Low, 23.2 High) (6)		Corrosive fluids, up to + 160 °C	XMLB020C2S11
3.5...35 (50.75...507.5)	1.7 Low (7)	80 (1160)	Hydraulic oils, fresh water, sea water, air, up to + 70 °C	XMLB035A2S11
	2.55 High (7)		Hydraulic oils, fresh water, sea water, air, up to + 160 °C	XMLB035B2S11
	(24.65 Low, 36.97 High) (7)		Corrosive fluids, up to + 160 °C	XMLB035C2S11

(1) Deviation of the differential at high and low setting points for switches of the same size:

- 0.03 bar, + 0.05 bar (- 0.43 psi, + 0.72 psi).

(2) Deviation of the differential at low setting point for switches of the same size: ± 0.01 bar (± 0.14 psi).

(3) Deviation of the differential at high setting point for switches of the same size:

- 0.03 bar, + 0.05 bar (- 0.43 psi, + 0.72 psi).

(4) Deviation of the differential at low setting point for switches of the same size: ± 0.05 bar (± 0.72 psi).

(5) Deviation of the differential at high setting point for switches of the same size:

- 0.1 bar, + 0.15 bar (- 1.45 psi, + 2.17 psi).

(6) Deviation of the differential at high and low setting points for switches of the same size: ±0.25bar (±3.63 psi).

(7) Deviation of the differential at high and low setting points for switches of the same size:

-0.5 bar, +0.7 bar (-7.25 psi, +10.15 psi).

Electromechanical pressure switches

OsiSense XM, type XML

Size 70 bar (1015 psi) to 500 bar (7250 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 1 CO single-pole contact



**With setting scale, fluid connection G 1/4 (female)
1 entry tapped for n°13 cable gland**

Adjustable range of switching point (PH)	Possible differential (subtract from PH to give PB)	Maximum permissible pressure	Fluids controlled	Reference
bar (psi)	bar (psi)	bar (psi)		
7...70 (101.5...1015)	4.7 Low (1),	160 (2320)	Hydraulic oils, up to +160 °C	XMLB070D2S11
	8.8 High (2)		Fresh water, sea water, up to +160 °C	XMLB070E2S11
	(68.15 Low, 127.6 High)		Corrosive fluids, air, up to + 160 °C	XMLB070N2S11
10...160 (145...2320)	9.3 Low (3),	360 (5220)	Hydraulic oils, up to +160 °C	XMLB160D2S11
	20.8 High (4)		Fresh water, sea water, up to +160 °C	XMLB160E2S11
	(134.85 Low, 301.6 High)		Corrosive fluids, air, up to + 160 °C	XMLB160N2S11
22...300 (319...4350)	19.4 Low (5),	675 (9787.5)	Hydraulic oils, up to +160 °C	XMLB300D2S11
	37 High (6)		Fresh water, sea water, up to +160 °C	XMLB300E2S11
	(281.3 Low, 536.5 High)		Corrosive fluids, air, up to + 160 °C	XMLB300N2S11
30...500 (435...7250)	23 Low (7),		Hydraulic oils, up to +160 °C	XMLB500D2S11
	52.6 High (8)		Fresh water, sea water, up to +160 °C	XMLB500E2S11
	(333.5 Low, 762.7 High)		Corrosive fluids, air, up to + 160 °C	XMLB500N2S11

(1) Deviation of the differential at low setting point for switches of the same size: -0.4bar, +0.7bar (-5.8psi, +10.15psi).

(2) Deviation of the differential at high setting point for switches of the same size: -0.6bar, +0.8bar (-8.7psi, +11.6psi).

(3) Deviation of the differential at low setting point for switches of the same size: -1.8bar, +1.5bar (-26.1psi, +21.75psi).

(4) Deviation of the differential at high setting point for switches of the same size: -1.9bar, +1.6bar (-27.55psi, +23.2psi).

(5) Deviation of the differential at low setting point for switches of the same size:

- 1.5 bar, + 1.7 bar (- 21.75 psi, + 24.65 psi).

(6) Deviation of the differential at high setting point for switches of the same size: - 1 bar, + 4 bar (- 14.5 psi, + 58 psi).

(7) Deviation of the differential at low setting point for switches of the same size: - 2.6 bar, + 3.8 bar (- 37.7 psi, + 55.1 psi).

(8) Deviation of the differential at high setting point for switches of the same size:

- 14.8 bar, + 11.2 bar (- 214.6 psi, + 162.4 psi).

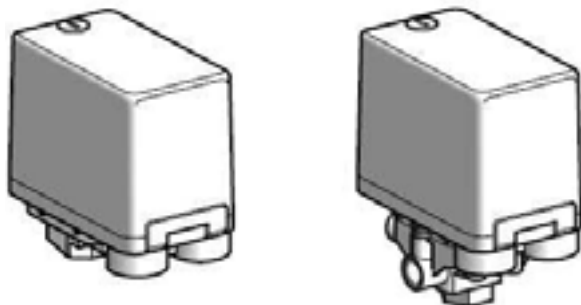
Electromechanical pressure switches

OsiSense XM

For control circuits, type XMX

Sizes 6 to 25 bar (87 to 362.5 psi)

Switches with 1 CO single-pole contact



Fluid connection G 1/4 (BSP female)				
2 entries tapped for n°13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)				
Adjustable range of switching point (PH)	Possible differential (subtract from PH to give PB)	Maximum permissible pressure	Fluids controlled	Reference
bar (psi)	bar (psi)	bar (psi)		
1...6 (14.5...87)	0.8 Low, 1.2 High (11.6 Low, 17.4 High)	13.5 (195.7)	Air, fresh water, sea water	XMxA06L2135
1.3...12 (18.85...174)	1 Low, 1.7 High (14.5 Low, 24.6 High)	27 (391.5)		XMxA12L2135
3.5...25 (50.75...362.5)	3.4 Low, 4.5 High (49.3 Low, 65.2 High)	56.25 (815.6)		XMxA25L2135

Fluid connection 4 xG 1/4 (BSP female)				
2 entries tapped for n°13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)				
Adjustable range of switching point (PH)	Possible differential (subtract from PH to give PB)	Maximum permissible pressure	Fluids controlled	Reference
bar (psi)	bar (psi)	bar (psi)		
1...6 (14.5...87)	0.8 Low, 1.2 High (11.6 Low, 17.4 High)	13.5 (195.7)	Air, fresh water, sea water	XMxA06L2435
1.3...12 (18.85...174)	1 Low, 1.7 High (14.5 Low, 24.6 High)	27 (391.5)		XMxA12L2435
3.5...25 (50.75...362.5)	3.4 Low, 4.5 High (49.3 Low, 65.2 High)	56.25 (815.6)		XMxA25L2435

Electromechanical pressure switches

OsiSense XM, Type XMP, IP 54

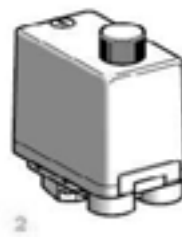
Size 6 bar (87 psi)

Adjustable differential, for regulation between 2 thresholds

Switches with 2-pole 2 NC or 3-pole 3 NC contact



1
Bare case



2
Case with On/Off knob

Fluid connection G 1/4 (BSP female)

2 entries tapped for n°13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)

Adjustable range of switching point (PH) bar (psi)	Possible differential (subtract from PH to give PB) bar (psi)	Switch	Case	Reference
Type of contact 2-pole 2 N/C				
1...6 (14.5...87)	0.8 Low, 1.2 High (11.6 Low, 17.4 High)	without	Bare case	XMPA06B2131
		decompression valve	Case with On/Off knob	XMPC06B2131
		with straight	Bare case	XMPD06B2131
		decompression valve, instant connection	Case with On/Off knob	XMPE06B2131
1.3...12 (18.85...174)	1 Low, 1.7 High (14.5 Low, 24.6 High)	without	Bare case	XMPA12B2131
		decompression valve	Case with On/Off knob	XMPC12B2131
		with straight	Bare case	XMPD12B2131
		decompression valve, instant connection	Case with On/Off knob	XMPE12B2131

Fluid connection G 3/8 (BSP female)

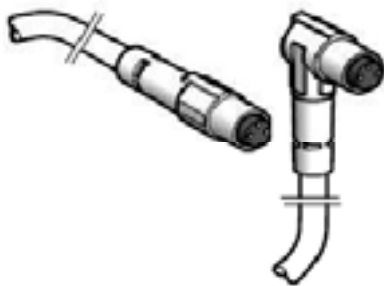
2 entries tapped for n°13 cable gland, conforming to NF C 68-300 (DIN Pg 13.5)

Adjustable range of switching point (PH) bar (psi)	Possible differential (subtract from PH to give PB) bar (psi)	Switch	Case	Reference
Type of contact 2-pole 2 N/C				
1...6 (14.5...87)	0.8 Low, 1.2 High (11.6 Low, 17.4 High)	without	Bare case	XMPA06B2242
		decompression valve	Case with On/Off knob	XMPC06B2242
		with straight	Bare case	XMPD06B2242
		decompression valve, instant connection	Case with On/Off knob	XMPE06B2242
1.3...12 (18.85...174)	1 Low, 1.7 High (14.5 Low, 24.6 High)	without	Bare case	XMPA12B2242
		decompression valve	Case with On/Off knob	XMPC12B2242
		with straight	Bare case	XMPD12B2242
		decompression valve, instant connection	Case with On/Off knob	XMPE12B2242
Type of contact 3-pole 3 N/C				
1...6 (14.5...87)	0.8 Low, 1.2 High (11.6 Low, 17.4 High)	without	Bare case	XMPA06C2242
		decompression valve	Case with On/Off knob	XMPC06C2242
		with straight	Bare case	XMPD06C2242
		decompression valve, instant connection	Case with On/Off knob	XMPE06C2242
1.3...12 (18.85...174)	1 Low, 1.7 High (14.5 Low, 24.6 High)	without	Bare case	XMPA12C2242
		decompression valve	Case with On/Off knob	XMPC12C2242
		with straight	Bare case	XMPD12C2242
		decompression valve, instant connection	Case with On/Off knob	XMPE12C2242

Machine cabling accessories

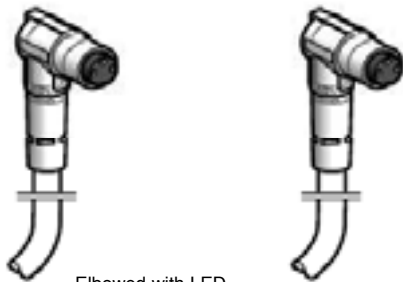
OsiSense XZ

Pre-wired connectors, Ø 8 mm and M8

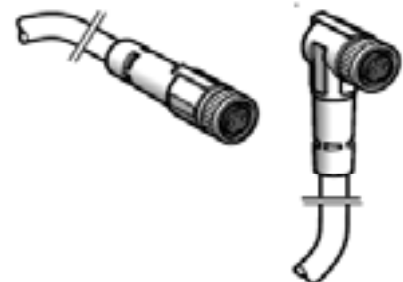


Straight

Elbowed

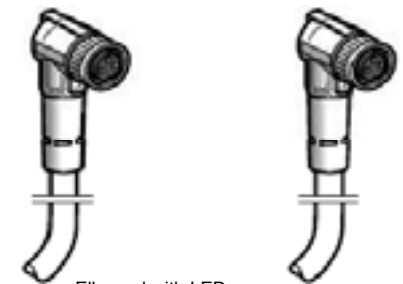


Elbowed with LED



Straight

Elbowed



Elbowed with LED

Clip (clip together connectors, without clamping ring.)

Female, Ø8 mm

Connector type	Nos. of contacts	LED signalling	Normal voltage (V)	Normal current (A)	PvR cable length (m)	Reference
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Cabling Ø4.2 mm cable, conductor c.s.a. : 3x 0.22 mm²

Straight	3	-	60Vac, 75Vdc	2	2	XZCP0166L2			
					5	XZCP0166L5			
					10	XZCP0166L10			
Elbowed	3	-	60Vac, 75Vdc	2	2	XZCP0266L2			
					5	XZCP0266L5			
					10	XZCP0266L10			
					2 PNP LEDs	10...30Vdc	2	2	XZCP0366L2
					5	XZCP0366L5			
					10	XZCP0366L10			
					2 NPN LEDs	10...30Vdc	2	2	XZCP0466L2
					5	XZCP0466L5			
					10	XZCP0466L10			

Screw threaded (metal clamping ring)

Female, M8

Connector type	Nos. of contacts	LED signalling	Normal voltage (V)	Normal current (A)	PvR cable length (m)	Reference
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Cabling Ø4.2 mm cable, conductor c.s.a. : 3x 0.22 mm²

Straight	3	-	60Vac, 75Vdc	2	2	XZCP0566L2			
					5	XZCP0566L5			
					10	XZCP0566L10			
Elbowed	3	-	60Vac, 75Vdc	2	2	XZCP0666L2			
					5	XZCP0666L5			
					10	XZCP0666L10			
					2 PNP LEDs	10...30Vdc	2	2	XZCP0766L2
					5	XZCP0766L5			
					10	XZCP0766L10			
					2 NPN LEDs	10...30Vdc	2	2	XZCP0866L2
					5	XZCP0866L5			
					10	XZCP0866L10			

Cabling Ø5 mm cable, conductor c.s.a. : 4x 0.34 mm²

Straight	4	-	60Vac, 75Vdc	4	2	XZCP0941L2
					5	XZCP0941L5
					10	XZCP0941L10
Elbowed	4	-	60Vac, 75Vdc	4	2	XZCP1041L2
					5	XZCP1041L5
					10	XZCP1041L10

Machine cabling accessories

OsiSense XZ

Pre-wired connectors, M12



XZCP2540L2



XZCP1340L2



XZCP1141L2



XZCP1169L2



XZCP1264L2



XZCP1541L05



XZCP1564L05

Stainless steel clamping ring

Female, M12

Connector type	Nos. of contacts	LED signalling	Normal voltage (V)	Normal current (A)	PvR cable length (m)	Reference
Cabling Ø5 mm cable, conductor c.s.a. : 3x 0.34 mm²						
Elbowed	3	2 PNP LEDs	10...30Vdc	4	2	XZCP2540L2
					5	XZCP2540L5
					10	XZCP2540L10

Metal clamping ring

Female, M12

Connector type	Nos. of contacts	LED signalling	Normal voltage (V)	Normal current (A)	PvR cable length (m)	Reference
Cabling Ø5 mm cable, conductor c.s.a. : 3x 0.34 mm²						
Elbowed	3	2 PNP LEDs	10...30Vdc	4	2	XZCP1340L2
					5	XZCP1340L5
					10	XZCP1340L10
					2	XZCP1440L2
					5	XZCP1440L5
					10	XZCP1440L10
Straight	4	-	250Vac, 300Vdc	4	2	XZCP1241L2
					5	XZCP1241L5
					10	XZCP1241L10
					2	XZCP1141L2
					5	XZCP1141L5
					10	XZCP1141L10
Cabling Ø5.8 mm cable, conductor c.s.a. : 3x 0.34 mm² + 1x 0.5 mm²						
Straight	4	-	250Vac, 300Vdc	4	2	XZCP1169L2
					5	XZCP1169L5
					10	XZCP1169L10
					2	XZCP1164L2
					5	XZCP1164L5
					10	XZCP1164L10
Elbowed	5	-	30Vac, 36Vdc	4	2	XZCP1264L2
					5	XZCP1264L5
					10	XZCP1264L10

Metal clamping ring

Male, M12

Connector type	Nos. of contacts	LED signalling	Normal voltage (V)	Normal current (A)	PvR cable length (m)	Reference
Cabling Ø5 mm cable, conductor c.s.a. : 4x 0.34 mm²						
Straight	4	-	250Vac, 300Vdc	4	0.5	XZCP1541L05
					1	XZCP1541L1
					2	XZCP1541L2
Cabling Ø5.8 mm cable, conductor c.s.a. : 4x 0.34 mm² + 1x 0.5 mm²						
Straight	5	-	30Vac, 36Vdc	4	0.5	XZCP1564L05
					1	XZCP1564L1
					2	XZCP1564L2

Machine cabling accessories

OsiSense XZ

Pre-wired connectors, 1/2"-20UNF and 7/8"-16UN



XZCP1865L2



XZCP1965L2

Metal clamping ring

Female, 1/2" 20UNF

Connector type	Nos. of contacts	Norminal voltage (V)	Norminal current (A)	PvR cable length (m)	Reference
Cabling Ø5 mm cable, conductor c.s.a. : 3x 0.34 mm²					
Straight	3	250Vac 300Vdc	4	2	XZCP1865L2
				5	XZCP1865L5
				10	XZCP1865L10
Elbowed	3	250Vac 300Vdc	4	2	XZCP1965L2
				5	XZCP1965L5
				10	XZCP1965L10

Plastic clamping ring

Female, 7/8" 16UN

Connector type	Nos. of contacts	Norminal voltage (V)	Norminal current (A)	PvR cable length (m)	Reference
Cabling Ø5 mm cable, conductor c.s.a. : 3x 0.5 mm²					
Straight	3	250Vac	6	2	XZCP1662L2
				5	XZCP1662L5
				10	XZCP1662L10
	3	250Vac	6	2	XZCP1670L2
				5	XZCP1670L5
				10	XZCP1670L10
Cabling Ø5.8 mm cable, conductor c.s.a. : 4x 0.34 mm² + 1 x 0.5 mm²					
Straight	5	250Vac	4	2	XZCP1764L2
				5	XZCP1764L5
				10	XZCP1764L10
Cabling Ø6.7 mm cable, conductor c.s.a. : 5x 0.5 mm²					
Straight	5	250Vac	4	2	XZCP1771L2
				5	XZCP1771L5
				10	XZCP1771L10



XZCP1662L2



XZCP1764L2

Machine Safety

Safety detection solutions

Guard switches

Metal, turret head, types XCS-A, XCS-B, XCS-C and XCS-E 6-1

Plastic, turret head, types XCS-PA, XCS-TA and XCS-TE 6-2

Plastic, double insulated, turret head, types XCS-PL, TL, PR and TR 6-3

Safety limit switches

Miniature design, metal, type XCSM 6-4

Safety dialogue solutions

Emergency stop trip wire switches

Emergency stop trip wire switches XY2C 6-5

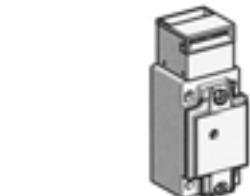
Safety detection solutions

Guard switches

Metal, turret head (1),

types XCS-A, XCS-B, XCS-C and XCS-E

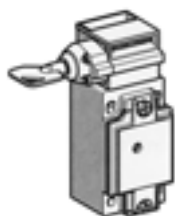
Cable entries tapped for Pg 13.5 (n°13) cable gland



XCS-A



XCS-B



XCS-C



XCS-E5



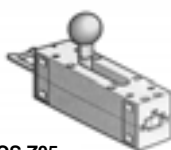
XCS-Z01



XCS-Z02



XCS Z03



XCS Z05

Cable entries tapped for Pg 13.5 (n°13) cable gland

Type of switch	Contacts	LED indication on opening of N/C contacts	Voltage (V)	Reference
Without locking of key ⊖	3-pole N/C + N/O + N/O (2 N/O staggered) slow break	Without	-	XCSA501
		1 orange LED	24/48 Vac/dc	XCSA511
	3-pole N/C + N/C + N/O (N/O staggered) slow break	Without	-	XCSA701
		1 orange LED	24/48 Vac/dc	XCSA711
With locking of key, manual unlocking by pushbutton	3-pole N/C + N/O + N/O (2 N/O staggered) slow break	Without	-	XCSB501
		1 orange LED	24/48 Vac/dc	XCSB511
	3-pole N/C + N/C + N/O (N/O staggered) slow break	Without	-	XCSB701
		1 orange LED	24/48 Vac/dc	XCSB711
With locking of key, manual unlocking by key operated ⊖	3-pole N/C + N/O + N/O (2 N/O staggered) slow break	Without	-	XCSC501
		1 orange LED	24/48 Vac/dc	XCSC511
	3-pole N/C + N/C + N/O (N/O staggered) slow break	Without	-	XCSC701
		1 orange LED	24/48 Vac/dc	XCSC711
With interlocking, locking by electromagnet ⊖	3-pole N/C + N/O + N/O (2 N/O staggered) slow break	Without	-	XCSC801
		1 orange LED	110/240 Vac	XCSC721
	3-pole N/C + N/C + N/O (N/O staggered) slow break	Without	-	XCSC801
		1 orange LED	110/240 Vac	XCSC721

Type of switch	Contacts	Supply voltage of electromagnet (50/60Hz)	Reference
With interlocking, locking by electromagnet ⊖	3-pole N/C + N/O + N/O (2 N/O staggered) slow break	24 Vac/dc	XCSE5311
		48 Vac/dc	XCSE5321
	3-pole N/C + N/C + N/O (N/O staggered) slow break	110/120 Vac/dc (2)	XCSE5331
		220/240 Vac/dc (2)	XCSE5341
3-pole N/C + N/C + N/O (N/O staggered) slow break	24 Vac/dc	24 Vac/dc	XCSE7311
		48 Vac/dc	XCSE7321
	48 Vac/dc	110/120 Vac/dc (2)	XCSE7331
		220/240 Vac/dc (2)	XCSE7341
3-pole N/C + N/C + N/C slow break	24 Vac/dc	24 Vac/dc	XCSE8311
		48 Vac/dc	XCSE8321
	48 Vac/dc	110/120 Vac/dc (2)	XCSE8331
		220/240 Vac/dc (2)	XCSE8341

Description

Cable entries tapped M20 x 1.5

Replace the last digit "1" with "2". Example: XCSA501 becomes XCSA502.

Decrease by 10%

Cable entries tapped 1/2" NPT

Replace the last digit "1" with "3". Example: XCSA501 becomes XCSA503.

Add 8%

References of operating keys

For limit switches	Description	Reference
XCS-A, B, C, E	Straight key	XC SZ01
	Wide key	XC SZ02
	Pivoting key	XC SZ03
	Latch for sliding doors	XC SZ05

⊖ N/C contact with positive opening operation

(1) Adjustable throughout 360° in 90° steps. Blank ing plug for operating head slot included with switch.

(2) For use on 110/120 Vdc or 220/240 Vdc, remove the LED indicator module.

Safety detection solutions

Guard switches

Plastic, turret head ⁽¹⁾,

types XCS PA, XCS TA and XCS TE

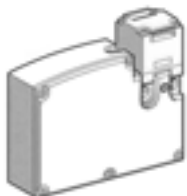
Cable entries tapped for Pg 11 (n°11) cable gland



XCS-PA



XCS-TA



XCS-Z91



XCS-Z11



XCS-Z12



XCS-Z113



XCS-Z15

Cable entries tapped for Pg 11 (n°11) cable gland

Type of switch	Contacts	Supply voltage of electromagnet 50/60Hz	Reference	
Without locking of operating key ⊖	2-pole N/C + N/O break before make slow break (2)	-	XCSPA591	
	2-pole N/O + N/C make before break slow break (2)	-	XCSPA691	
	2-pole N/C + N/C slow break (2)	-	XCSPA791	
	3-pole N/C + N/O + N/O - (2 N/O staggered) slow break (2)	-	XCSTA591	
	3-pole N/C + N/C + N/O - (N/O staggered) slow break (2)	-	XCSTA791	
	3-pole N/C + N/C + N/C - slow break (2)	-	XCSTA891	
	With interlocking, locking by electromagnet	2-pole N/C + N/O break before make slow break (2)	24 Vac/dc 120 Vac/dc 230 Vac/dc	XCSTE5311 XCSTE5331 XCSTE5341
		2-pole N/O + N/C make before break slow break (2)	24 Vac/dc 120 Vac/dc 230 Vac/dc	XCSTE6311 XCSTE6331 XCSTE6341
		2-pole N/C + N/C slow break (2)	24 Vac/dc 120 Vac/dc 230 Vac/dc	XCSTE7311 XCSTE7331 XCSTE7341

Description

Cable entries tapped M16 x 1.5

Replace the last digit 1 with 2. Example: XCSTE5311 becomes XCSTE5312.

Decrease by 10%

Cable entries tapped 1/2" NPT

Replace the last digit 1 with 3. Example: XCSTE5311 becomes XCSTE5313.

Add 5%

Accessories

Description	For use with limit switches	Type	Reference
Set of 10 blanking plug for operating head slot	XCS-PA, XCS-TA, XCS-TE		XCSZ28
Tool for forced opening of interlocking device	XCS-TE		XCSZ100
Padlocking device to prevent insertion of operating key, for up to 3 padlocks (padlocks not supplied)	XCS-PA, XCS-TA, XCS-TE		XCSZ91
Operating keys and guard retaining device	XCS-PA, XCS-TA, XCS-TE	Straight key	XCSZ11
		Key with wide fixing (3)	XCSZ12
		Pivoting key	XCSZ13
		Right-angled key	XCSZ14
		Guard retaining device (4)	XCSZ21

⊖ N/C contact with positive opening operation

(1) Adjustable throughout 360° in 90° steps. Blanking plug for operating head slot included with switch.

(2) Schematic diagrams shown represent the contact states whilst the operating key is inserted in the head of the switch.

(3) 2 key lengths, XCS-Z12: L = 40 mm, XCS-Z15: L = 29 mm.

(4) Only for use with XCS-PA and XCS-TA limit switches used in conjunction with operating keys XCS-Z12, XCS-Z13 and XCS-Z15.

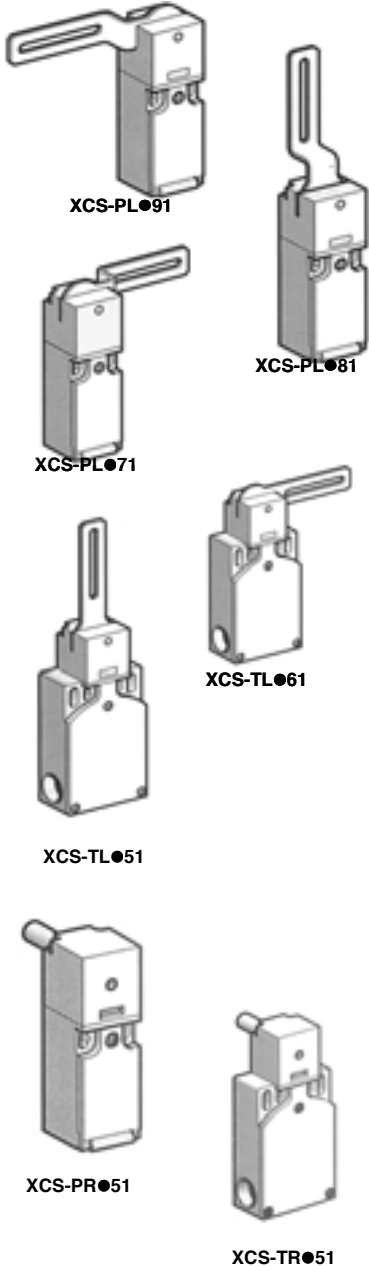
Safety detection solutions

Guard switches with lever or spindle operator

Plastic, double insulated, turret head (1),

types XCS PL, XCS TL, XCS PR and XCS TR

Cable entries tapped for Pg 11 (n°11) cable gland



Cable entries tapped for Pg 11 (n° 11) cable gland

Type	Contacts	Operator	Reference	
Elbowed lever ⊖ (flush with rear of switch)	2-pole N/C + N/O break before make slow break	To left	XCSP591	
		Centred	XCSP581	
		To right	XCSP571	
	2-pole N/C + N/C slow break	To left	XCSP791	
		Centred	XCSP781	
		To right	XCSP771	
	3-pole N/C + N/O + N/O (2 N/O staggered) slow break	To left	XCST591	
		Centred	XCST581	
		To right	XCST571	
	3-pole N/C + N/C + N/O (N/O staggered) slow break	To left	XCST791	
		Centred	XCST781	
		To right	XCST771	
3-pole N/C + N/C + N/C slow break	To left	XCST891		
	Centred	XCST881		
	To right	XCST871		
Straight lever ⊖	2-pole N/C + N/O break before make slow break	To right or to left	XCSP561	
		Centred	XCSP551	
		2-pole N/C + N/C slow break	To right or to left	XCSP761
	Centred		XCSP751	
	3-pole N/C + N/O + N/O (2 N/O staggered) slow break		To right or to left	XCST561
		Centred	XCST551	
		3-pole N/C + N/C + N/O (N/O staggered) slow break	To right or to left	XCST761
	Centred		XCST751	
	3-pole N/C + N/C + N/C slow break		To right or to left	XCST861
		Centred	XCST851	
		Spindle ⊖	2-pole N/C + N/O break before make slow break	Length 30 mm (2)
	2-pole N/C + N/C slow break			Length 30 mm (2)
3-pole N/C + N/O + N/O (2 N/O staggered) slow break				Length 30 mm (2)
			3-pole N/C + N/C + N/O (N/O staggered) slow break	Length 30 mm (2)
	3-pole N/C + N/C + N/C slow break			Length 30 mm (2)

Description

Cable entries tapped M16 x 1.5

Replace the last digit 1 with 2. Example: XCSPL591 becomes XCSPL592.

decrease by 30%

Cable entries tapped 1/2" NPT

Replace the last digit 1 with 3. Example: XCSPL591 becomes XCSPL593.

no change

⊖ N/C contact with positive opening operation

(1) Adjustable throughout 360° in 90° steps. Switches supplied with 2 additional self locking screws for positive fixing of the operating head.

(2) For switches with 80 mm spindle: replace the second reference digit 5 with a 6. Price add 2% from 30mm. Price add 2% from 30mm. E.g.: XCS-PR551 becomes XCS-PR561.

Safety detection solutions

Safety limit switches

Miniature design, metal, type XCS M

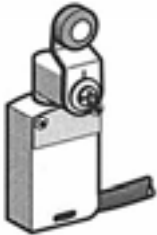
Pre-cabled



Metal end plunger



Roller plunger



Thermoplastic roller lever



Steel roller lever

Contacts (2)	Type of head	Switch actuation	Type of operator	Reference (1)
3-pole N/C+N/C+N/O snap action	Plunger (fixing by the body)	On end	Metal end plunger	XCSM3910L1
		By 30° cam	Roller plunger	XCSM3902L1
	Rotary (fixing by the body)	By 30° cam	Thermoplastic roller lever	XCSM3915L1
			Steel roller lever	XCSM3916L1
3-pole N/C+N/C+N/O break before make, slow break	Plunger (fixing by the body)	On end	Metal end plunger	XCSM3710L1
		By 30° cam	Roller plunger	XCSM3702L1
	Rotary (fixing by the body)	By 30° cam	Thermoplastic roller lever	XCSM3715L1
			Steel roller lever	XCSM3716L1
4-pole N/C+N/C+N/O+N/O snap action	Plunger (fixing by the body)	On end	Metal end plunger	XCSM4110L1
		By 30° cam	Roller plunger	XCSM4102L1
	Rotary (fixing by the body)	By 30° cam	Thermoplastic roller lever	XCSM4115L1
			Steel roller lever	XCSM4116L1



(1) For a 2m long cable, replace L1 to L2, **price adder S\$11.00.**

For a 5m long cable, replace L1 to L5, **price adder S\$ 22.60.**

(2) N/C contact with positive opening operation



Latching Emergency stops (cable and end spring not included unless otherwise stated)

Without pilot light (1)

Length of cable mm	Distance between cable supports	Reset	Type of contact		Cable anchor point	Reference	
							
≤ 15 m (3)	5 m	By booted pushbutton	1	1	N/C + N/O	RH side or LH side	XY2CH13250
		By mushroom head pushbutton	1	1	slow break		XY2CH13350
		By key operated pushbutton (key n°421) (2)	1	1			XY2CH13450
		By flush pushbutton	2	–	N/C + N/C	RH side or LH side	XY2CH13170
		By booted pushbutton	2	–	slow break		XY2CH13270
		By mushroom head pushbutton	2	–			XY2CH13370
≤ 50 m	5 m	By key operated pushbutton (key n°421) (2)	2	–			XY2CH13470
		By booted pushbutton	1	1	N/C + N/O	RH side	XY2CE1A250
			1	1	slow break	LH side	XY2CE2A250
			2	–	N/C + N/C	RH side	XY2CE1A270
			2	–	slow break	LH side	XY2CE2A270
		By key operated pushbutton (key n°421) (2)	1	1	N/C + N/O	RH side	XY2CE1A450
≤ 100 m	5 m		1	1	slow break	LH side	XY2CE2A450
			2	–	N/C + N/C	RH side	XY2CE1A470
			2	–	slow break	LH side	XY2CE2A470
		From inside enclosure	1	1	N/C + N/O	LH side	XY2CB10
			1	1	slow break	RH side	XY2CB20
			2	–	N/C + N/C	LH side	XY2CB104
≤ 2x100 m	5 m	From inside enclosure	2	–	slow break	RH side	XY2CB204
			1	1	N/C + N/O	RH & LH sides	XY2CB30
					slow break		
			2	–	N/C + N/C		XY2CB304



With pilot light

Length of cable mm	Distance between cable supports	Reset	Voltage	Type of contact		Cable anchor point	Reference	
								
■ Direct supply								
≤ 15 m	5 m	By booted pushbutton	24V	1	1	N/C + N/O	RH side or LH side	XY2CH13253
				2	–	N/C + N/C		XY2CH13273
≤ 50 m	5 m	By booted pushbutton	24V, 48V, 130V (bulb not included)	2	2	N/C + N/O	RH side	XY2CE1A296
				2	2	slow break	LH side	XY2CE2A296
				2	2		RH side	XY2CE1A297
				2	2		LH side	XY2CE2A297
≤ 100 m	5 m	From inside enclosure	24V	1	1	N/C + N/O	LH side	XY2CB11
						slow break	RH side	XY2CB21
				1	1		LH side	XY2CB12
≤ 2x100 m	5 m	From inside enclosure	48V	1	1		RH side	XY2CB22
				1	1	N/C + N/O	RH & LH sides	XY2CB31
				1	1	slow break		XY2CB32
■ Supply via integral transformer (5)								
≤ 100 m	5 m	From inside enclosure	220 V/6 V	1	1	N/C + N/O	LH side	XY2CB14
				1	1	slow break	RH side	XY2CB24
≤ 2x100 m	5 m	From inside enclosure	220 V/6 V	1	1		RH & LH sides	XY2CB34

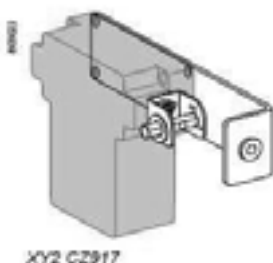
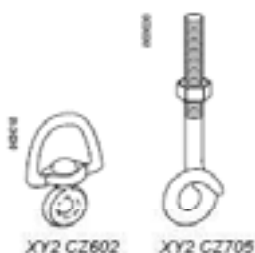
(1) These Emergency stops are also available fitted with a pilot light, see ordering forms for XY2 CH and XY2 CE trip wire switches on Machine Safety catalogue.

(2) Ø 30 spring return, mushroom head, key operated pushbutton. Locking and key withdrawal in the rest (unactuated) position.

(3) For ISO M20 threaded cable entry version, add the suffix H29 to the reference selected. Example: XY2 CH13250 becomes XY2 CH13250H29. Consult us for quotation.

(4) XY2 CZ702 end spring included for XY2 CB.

(5) DL1 CB006 bulb included.



Separate components

Description	For use with	Diameter mm	Length m	Reference
Galvanised cables with red sheath	XY2 CH, XY2 CE and XY2 CB	3.2	10.5	XY2CZ301
			15.5	XY2CZ3015
			25.5	XY2CZ302
			50.5	XY2CZ305
			100.5	XY2CZ310
	XY2 CH and XY2 CE	5	15.5	XY2CZ1015
			25.5	XY2CZ102
			50.5	XY2CZ105
			100.5	XY2CZ110

Description	Type	For use with	sold in lot of	Reference
Tensioner (included in mounting kit XY2 CZ917)	–	XY2 CE	1	XY2CZ203
Turnbuckles	M6 x 60 + locknut	All models except XY2 CH	1	XY2CZ402
	M8 x 70 + locknut	All models except XY2 CH	1	XY2CZ404
Cable grips	Single	Cable Ø 3 to 5 mm	10	XY2CZ503
	Double	Cable Ø 3 to 5 mm	10	XY2CZ513
	Clamp	Cable Ø 3.2 mm	10	XY2CZ523
Cable supports		Cable Ø 5 mm	10	XY2CZ524
	Fixed	All models	10	XY2CZ601
	Swivelling	All models	1	XY2CZ602
	Pulley support	XY2 CH and XY2 CE	1	XY2CZ705
Pulley		Cable Ø 5 mm max.	1	XY2CZ708
Cable end protectors		Cable Ø 3.2 mm	10	XY2CZ701
		Cable Ø 5 mm	10	XY2CZ704
End springs		XY2 CH	1	XY2CZ703
		XY2 CE and XY2 CB	1	XY2CZ702

Mounting kits

Description	For use with	Cable diameter mm	Length of cable m	Reference
Tensioner + bracket	XY2 CE	–	–	XY2CZ917
Kit comprising:	XY2 CH	3.2	10	XY2CZ9310
-1 galvanised cable, -1 cable grip XY2 CZ523 , -1 end spring XY2 CZ703			15	XY2CZ9315
Kit comprising:	XY2 CE	3.2	25	XY2CZ9325
-1 galvanised cable, -4 cable grips XY2 CZ523 , -1 turnbuckle XY2 CZ404 ,				
-1 cable support XY2 CZ601 , -3 cable end protectors XY2 CZ701 , -1 end spring XY2 CZ702	XY2 CE and XY2 CB	3.2	50	XY2CZ9350
Kit comprising:	XY2 CE	5	25	XY2CZ9525
-1 galvanised cable, -4 cable grips XY2 CZ524 , -1 turnbuckle XY2 CZ404 ,				
-1 cable support XY2 CZ601 , -3 cable end protectors XY2 CZ704 , -1 end spring XY2 CZ702	XY2 CE	5	50	XY2CZ9550

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