

SwitchLine Non-fusible Disconnect switches



SwitchLine

Non-fusible disconnect switches
16A – 3150A, 600V

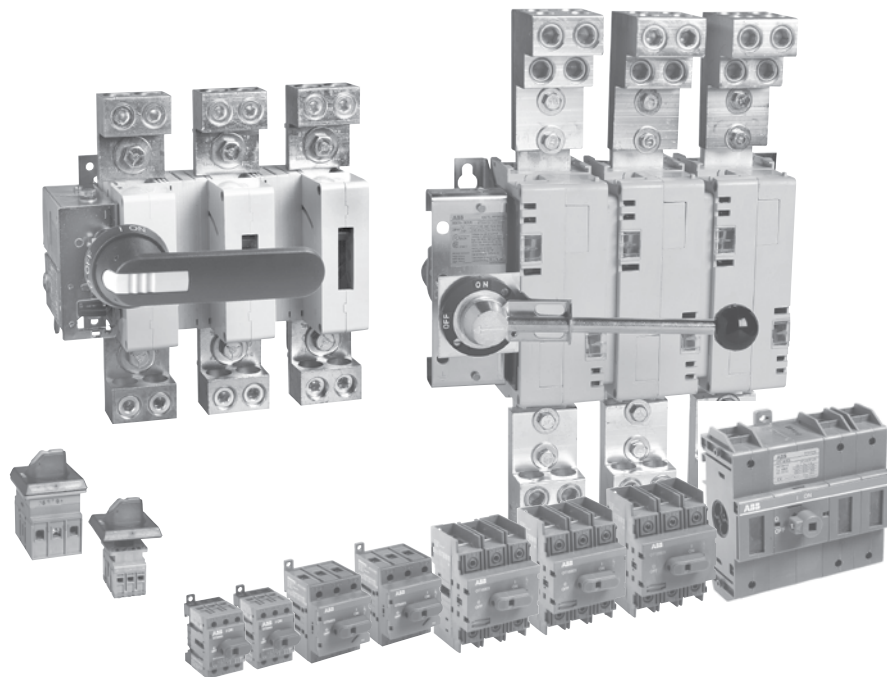


ABB SwitchLine includes 16 different amperage sizes from 16A to 3150A. The basic construction provides flexibility, safety, and high performance in an extremely compact size. ABB SwitchLine is a perfect choice for all switching applications from industrial motor control to construction safety switches.

General information

Selection guide

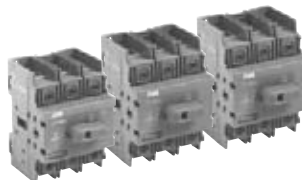
OT16E3 – OT160E3



OT16E3 OT25E3 OT32E3



OT45E3 OT63E3



OT30E3 OT60E3 OT100E3



OT160E3

Catalog number	3 pole	OT16E3	OT25E3	OT32E3	OT45E3	OT63E3	OT30E3	OT60E3	OT100E3	OT160E3
General purpose amp rating	A	16	25	40	60	80	30	60	100	125
Catalog reference	Page #	18.10	18.10	18.10	18.10	18.10	18.10	18.10	18.10	18.20
Approvals ①										
	2 pole	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	UL98
	3 pole	UL508	UL508	UL508	UL508	UL508	UL508	UL98	UL98	UL98
	4 pole	UL508	UL508	UL508	UL508	UL508	UL98	UL98	UL98	UL98
Technical ratings – UL, CSA ②										
Max operating voltage	V	600	600	600	600	600	600	600	600	600
Max horsepower rating										
Three phase										
240V	HP	5	7.5	10	15	20	10	20	30	40
480V	HP	10	15	20	30	40	20	40	50	75
600V	HP	10	20	25	30	40	30	40	50	100
Single phase										
120V	HP	1	1.5	2	2	2	2	3	5	7.5
240V	HP	2	3	5	5	5	5	7.5	15	20
Technical ratings – IEC ③										
Rated insulation and operational voltage, AC20 and DC20	V	750	750	750	750	750	750	750	750	750
Rated thermal current, I _n										
AC 20/DC 20 open	A	25	32	40	63	80	40	63	115	200
AC 20/DC 20 enclosed	A	25	32	40	63	80	40	63	115	160
AC 21A ≤500V	A	16	25	32	63	80	40	63	100	160
≤690V	A	16	25	32	63	80	40	63	100	160
Rated operational power AC23										
400/415V	kW	7.5	9	11	22	37	15	18.5	37	75
690V	kW	7.5	9	11	15	18.5	15	15	37	75
Physical characteristics										
Weight ③	3 pole lb	0.24	0.24	0.24	0.59	0.59	0.79	0.79	0.79	2.42
Dimension	3 pole H in	2.68	2.68	2.68	3.60	3.60	3.94	3.94	3.94	5.00
	W in	1.38	1.38	1.38	2.07	2.07	2.76	2.76	2.76	4.96
	D in	2.20	2.20	2.20	2.85	2.85	2.95	2.95	2.95	2.93
Accessories										
Terminal lug kit		Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral
Terminal shroud		•	•	•	•	•	•	•	•	—
Auxiliary contact		•	•	•	•	•	•	•	•	•
Handle UL/NEMA type										
Type 1, 3R, 12		•	•	•	•	•	•	•	•	•
Type 1, 3R, 4, 4X, 12		•	•	•	•	•	•	•	•	•
Handle type										
Selector		•	•	•	•	•	•	•	•	—
Pistol		•	•	•	•	•	•	•	•	•
Conversion kits										
6 pole		•	•	•	•	•	•	•	•	•
Transfer		•	•	•	•	•	•	•	•	•
Bypass		•	•	•	•	•	•	•	•	•
Mechanical interlock		•	•	•	•	•	•	•	•	•
Electrical interlock		—	—	—	—	—	—	—	—	—

• = Available
— = Not available

UL listed, CSA approved, IEC rated, CE marked

① UL listed switches are also CSA approved.

② For complete technical information please see page 18.38 – 18.70.

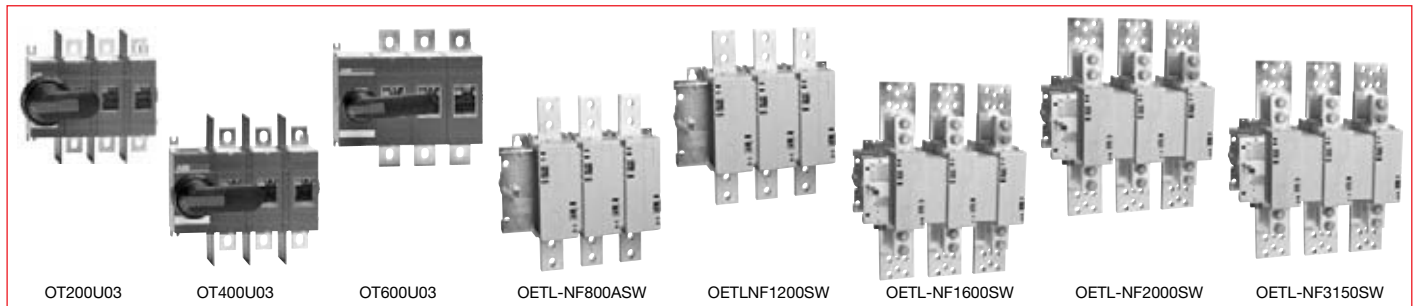
③ Switch only.

General information

Selection guide

OT200 – OT600 & OETL-NF800A – OETL-NF3150

Disconnect
switches
Non-fusible



Catalog number	3 pole	OT200U03	OT400U03	OT600U03	OETL-NF800A	OETL-NF1200	OETL-NF1600	OETL-NF2000	OETL-NF3150
General purpose amp rating	A	200	400	600	800	1200	1600	2000	3150
Catalog reference	Page #	18.23	18.26	18.26	18.26	18.30	18.30	18.30	18.30
Approvals ^①									
	2 pole	N/A	N/A	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	IEC
	3 pole	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	UL98 & IEC	IEC
	4 pole	IEC	UL98 & IEC	UL98 & IEC	IEC	IEC	IEC	IEC	IEC
Technical ratings – UL, CSA & IEC									
Max operating voltage	V	600	600	600	600	600	600	600	600
Max horsepower rating									
Three phase									
240V	HP	75	125	200	250	—	—	—	—
480V	HP	150	250	450	500	—	—	—	—
600V	HP	200	350	500	600	—	—	—	—
Single phase									
120V	HP	—	—	—	—	—	—	—	—
240V	HP	—	—	—	—	—	—	—	—
Technical ratings – IEC									
Rated insulation and operational voltage, AC20 and DC20	V	1000	1000	1000	1000	1000	1000	1000	1000
Rated thermal current, I _{th}									
AC 20/DC 20 open	A	250	400	800	1250	1600	2500	2500	3150
AC 20/DC 20 enclosed	A	250	400	800	1250	1600	2300	2300	2600
AC 21A ≤500V	A	250	400	800	1250	1600	2500 ^④	2500 ^④	3150 ^④
≤690V	A	250	400	800	1250	1600	2500 ^④	2500 ^④	3150 ^④
Rated operational power AC23									
400/415V	kW	132	220	400	400	400	400	400	400
690V	kW	240	355	800	—	—	—	—	—
Physical characteristics									
Weight ^③ 3 pole	lb	2.9	5.7	11.4	35.9	38.55	127.7	127.7	127.7
Dimension 3 pole									
H in		6.69	8.66	10	19.09	19.09	25.04	25.04	25.04
W in		6.67	8.7	10.64	14.29	14.29	18.43	18.43	18.43
D in		3.30	3.35	5.56	4.92	4.92	10.67	10.67	10.67
Accessories									
Terminal lug kit		OZXA-200	OZXA-400	OZXA-800	OZXA-30	OZXA-28	OZXA-28	OZXA-28/2	OZXA-28/2
Terminal shroud		•	•	•	•	•	—	—	—
Auxiliary contact		•	•	•	•	•	•	•	•
Handle UL/NEMA type									
Type 1, 3R, 12		•	•	•	•	•	•	•	•
Type 1, 3R, 4, 4X, 12		•	•	•	•	•	•	•	•
Handle type									
Selector		—	—	—	—	—	—	—	—
Pistol		•	•	•	•	•	•	•	•
Conversion kits									
6 pole		•	•	•	•	•	—	—	—
Transfer		•	•	•	•	•	—	—	—
Bypass		•	•	•	•	•	—	—	—
Mechanical interlock		•	•	•	•	•	•	•	•
Electrical interlock		•	•	•	•	•	•	•	•

S = Standard feature

• = Available

— = Not available

UL listed, CSA approved, IEC rated, CE marked

① UL listed switches are also CSA approved.

② For complete technical information please see page 18.38 – 18.70.

③ Switch only

④ IEC 947-3 Utilization Category B, Infrequent operation

General information



Versatility

ABB SwitchLine non-fusible disconnect switches are designed to offer maximum versatility in many ways.

Broad range

SwitchLine is seventeen amperage sizes from 16A – 3150A. All sizes are compact, heavy duty, 600V disconnect switches. Many sizes are available in 2, 3, 4, 6, and 8 pole configurations.

Compact size

The SwitchLine's compact dimensions allow panel size reduction in new applications or easily retrofit into space-sensitive existing installations.

International acceptance

UL listed, CSA approved, IEC rated, CE marked, and most other international standards.

UL98 (CSA 22.2 No.4) — UL File # E101914, CSA File #LR58077

For OT30, OT60, OT100, OT160, OT200, OT400, OT600, OETL-NF800 – OETL-NF2000 switches, OH_pistol grip handles

Suitable for use as motor disconnects or industrial control panel disconnects on service entrance equipment, panelboards, switchboards, industrial control equipment, motor control centers, etc. and are horsepower rated and ampere rated.

UL508 (CSA 22.2 No. 14) — UL File # E63822, CSA File #LR58247

For OT16 – OT63 switches, OH_selector handles

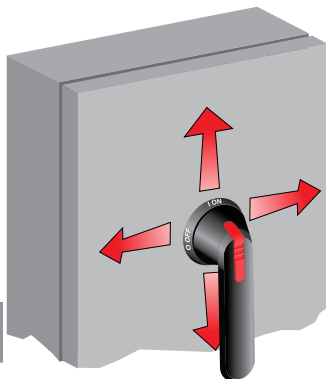
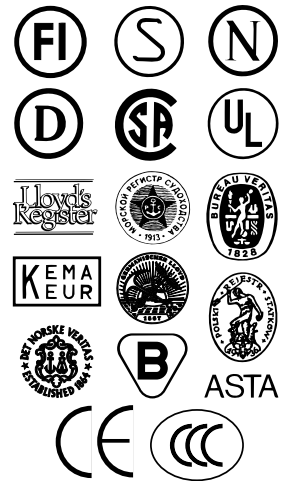
Suitable for use in equipment or machinery as motor controllers & motor disconnects and are horsepower and ampere rated.

IEC

Tested in accordance to IEC 947-1 and 3, IEC 664, IEC 269, and IEC 204

CE

Compliance with the European Machine Directive IEC 204 (EN 60204)



Rotary through the door installation

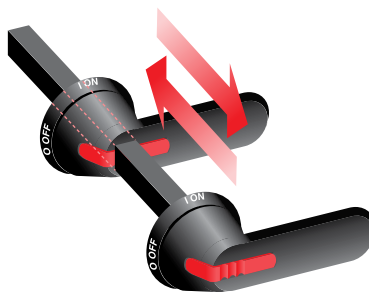
Installation options

Rotary through the door: available in all sizes, 16A – 3150A

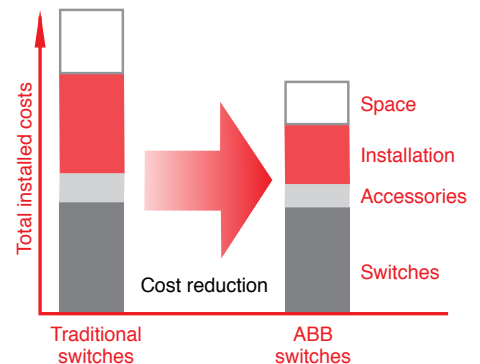
Flange: versions available in 30A, 60A, 100A, & 200A sizes

A rotary disconnect switch may be installed nearly anywhere in a control panel — mounting is not limited to the upper right hand corner of the panel.

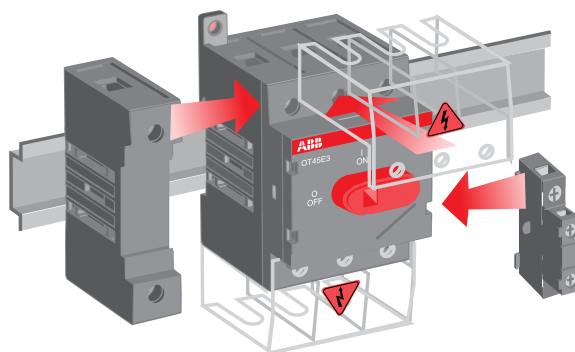
Mount the switch where it conveniently fits in your panel and simply install the handle on the door, in line with the switch. The switch and handle are mechanically linked through an easily adjusted shaft. This allows fast and easy installation into panels of different depths and layouts.



Easily adjusted shaft

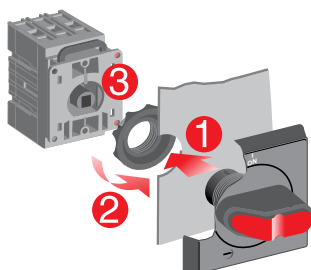


Lower installed costs



Broad range of accessories

- Handles — UL/NEMA type 1, 3R, 4, 4X, 12; IP54, 65, 66
- Auxiliary contacts available for every switch size
- Additional power poles
- Additional terminal poles (neutrals & grounds)
- Terminal shrouds
- 6 & 8 pole mechanisms
- Transfer mechanisms
- Bypass mechanisms
- Mechanical interlock mechanisms
- Electro-mechanical interlock mechanisms
- Motor operators

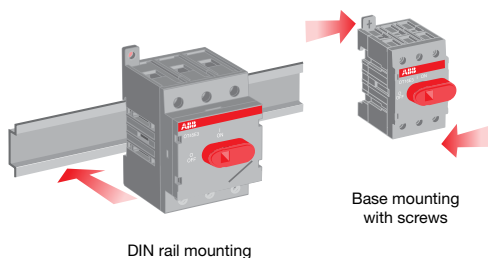


Door mounting

Mounting

SwitchLine disconnect switches offer several mounting possibilities:

- Door mounting on an enclosure door or sidewall, 16A – 125A
- DIN rail mounting, 16A – 125A
- Base mounting with screws, 16A – 3150A

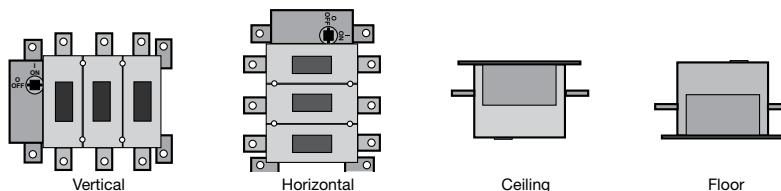


DIN rail mounting

Base mounting
with screws

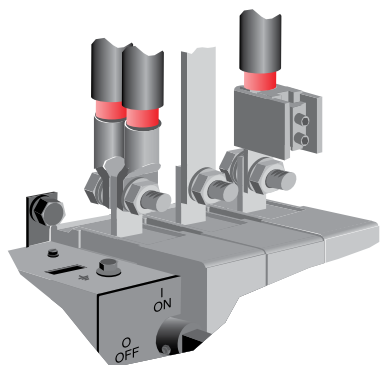
Mounting positions

SwitchLine disconnect switches may be mounted in any position:



Incoming power feeds

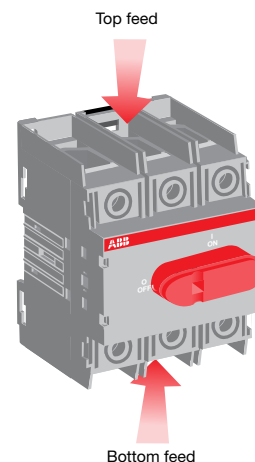
SwitchLine disconnect switches can be used equally well with either top or bottom incoming power feeds.



Terminal connections

Versatile connecting possibilities, 200A – 3150A:

- Ring tongue crimp on lugs
- Direct bus
- Terminal lugs



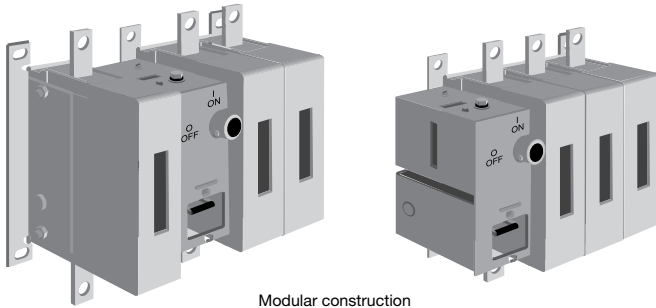
Top feed

Bottom feed

General information

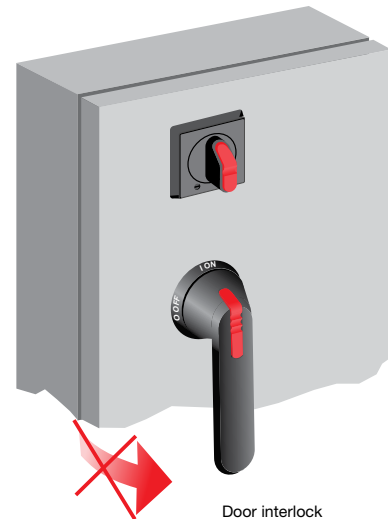
Modular construction ①

Modular switch construction allows the operating mechanism to be placed at either end of the switch or anywhere in-between, 125A – 3150A.



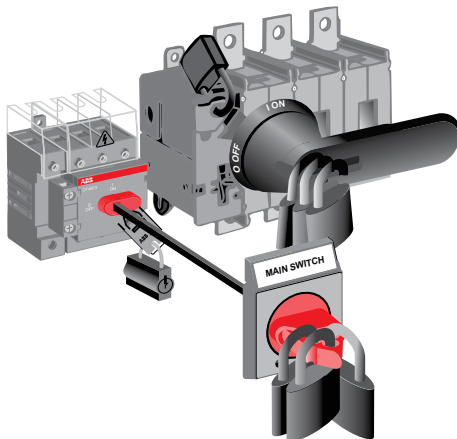
Finger proof

Dead-front construction plus terminal shrouds reduce the risk of touching live parts, improving the safety and reliability of the installation.



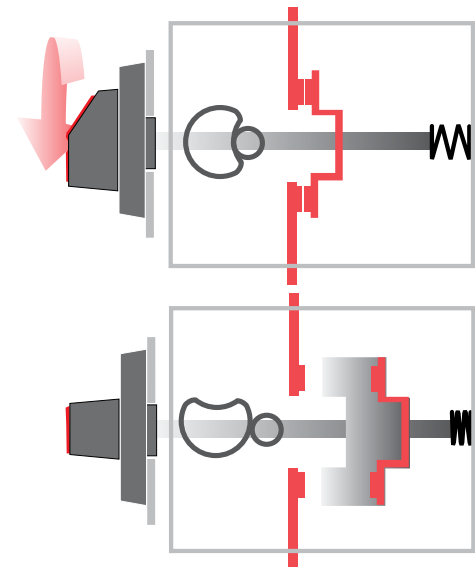
Door interlock

The handle and shaft provide a door interlock; the door can not be opened when the switch is in the “ON” position. NOTE: Some handles provide a method for qualified personnel to circumvent the door interlock. This is commonly referred to as a “defeater” mechanism.



Padlockable

Handles can be padlocked in the “OFF” position with up to three padlocks: Additionally, the switch mechanism can be directly padlocked in the “OFF” position when the door is open. NOTE: Some handles can be ordered with the ability to padlock in both the “ON” & “OFF” positions, please consult your ABB sales office.

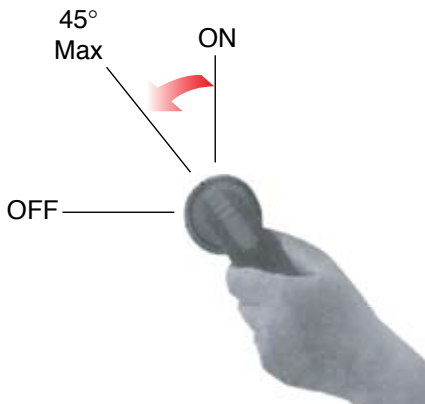


Positive opening operation

All switches operate according to the “positive opening operation” principle. This means the contacts are opened and closed by a driven mechanism, a solid moving bridge, not merely springs. This provides reliable position indication to the user; if the switch is in the “OFF” position, the contacts are open.

Positive opening operation

① Please consult ABB sales office for additional information.



Welded contact protection

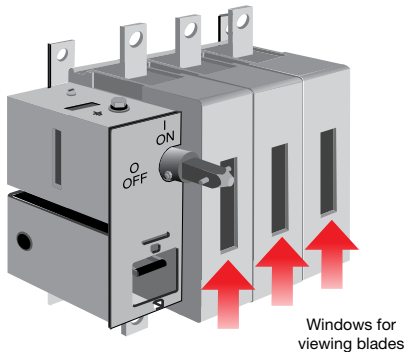
Positive opening operation safeguards users in case of welded contacts due to an overload or short circuit.

The switch can not reach the “OFF” position unless the contacts are truly open. If any or all of the contacts are welded shut, the switch mechanism will only allow the handle to operate a maximum of 45°. This safeguards personnel by:

- alerting them a problem has occurred
- maintaining the door interlock and
- not allowing a padlock to be inserted.

Clear position indication

All switches and handles have clear “ON” and “OFF” designations. Whether the door is open or closed, it is possible to simply look at the switch and determine if the switch is “ON” or “OFF”.



Visible blades

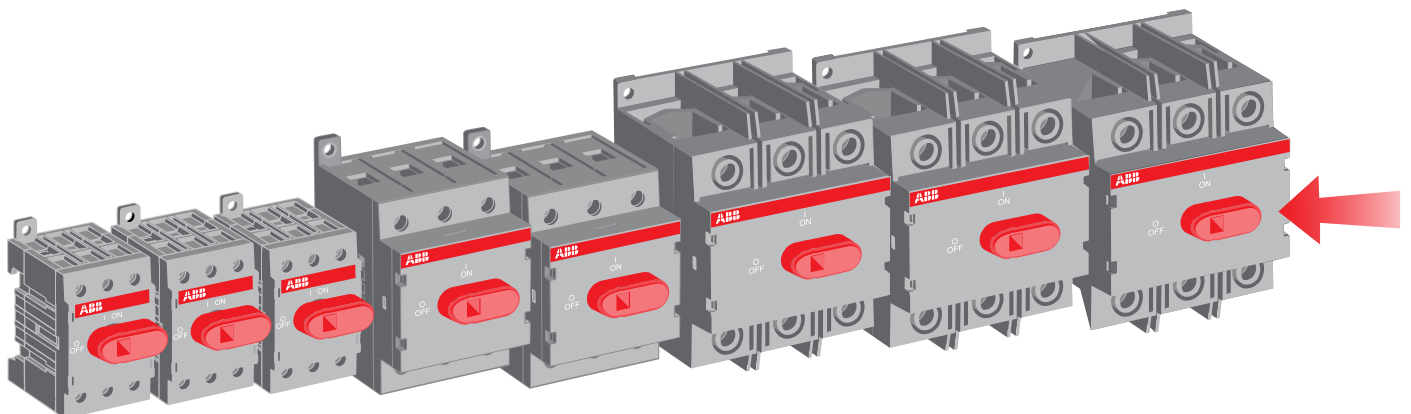
Visible blades offer additional safety from 125A — 1200A.

Track resistant material

Excellent track resistant material, CTI > 600V, IEC 112, reduces the risk of flashover between phases in even the most severe circumstances.

Constant control

The OT16E3 to OT100E3 provide the user with constant control over the power circuit. Whether the enclosure door is open or closed, qualified personnel have the ability to manually operate the switch. This is most meaningful when qualified personnel are working with the enclosure door open: In case of an emergency down-stream, the main three phase power can be disconnected immediately using the red, direct mounted handle.



Kits

16A – 3150A, 600V, 3 pole ①

Each kit includes:

- 1 three pole^① switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



Kit

handle

shaft^②

switch

terminal lug kit^③

Kits with base & DIN rail mounted switches and selector handles

UL general purpose amp rating	IEC AC21 amp rating	Maximum horsepower rating						Kit catalog number	List price	
		Single phase		Three phase						
		120V	240V	200V – 208V	240V	480V	600V			
UL 508	16	16	1	2	3	5	10	10	OT16B2A1-180	\$ 100
	25	25	1.5	3	7.5	7.5	15	20	OT25B2A1-180	106
	40	40	2	5	10	10	20	25	OT32B2A1-180	110
UL 98	60	63	2	5	15	15	30	30	OT45B2A1-180	134
	80	80	2	5	20	20	40	40	OT63B2A1-180	154
	30	40	2	5	10	10	20	30	OT30B2A1-180	184
	60	63	3	7.5	20	20	40	40	OT60B2A1-180	209
	100	115	5	15	25	30	50	50	OT100B2A1-180	234

Kits with base and/or DIN rail mounted switches and pistol handles

UL general purpose amp rating	IEC AC21 amp rating	Maximum horsepower rating						Kit catalog number	List price
		Single phase		Three phase					
		120V	240V	200V – 208V	240V	480V	600V		
UL 508	16	16	1	2	3	5	10	OT16B6-170	\$ 162
	25	25	1.5	3	7.5	7.5	15	OT25B6-170	168
	40	40	2	5	10	10	20	OT32B6-170	172
	60	63	2	5	15	15	30	OT45B6-170	196
UL 98	80	80	2	5	20	20	40	OT63B6-170	216
	30	40	2	5	10	10	20	OT30B6-170	246
	60	63	3	7.5	20	20	40	OT60B6-170	271
	100	115	5	15	25	30	50	OT100B6-170	296
	125	160	7.5	20	30	40	75	OT160B6-210	516
	200	250	—	—	60	75	150	OTK200B8-210	796
	400	630	—	—	100	125	250	OTK400B4-280	1736
	600	800	—	—	150	200	400	OTK600B4-280	2706
	800	1250	—	—	200	250	500	OT800B4-280	5066
	1200	1600	—	—	—	—	—	OT1200B4-280	7926
	1600	2500	—	—	—	—	—	OT1600M8-325	17,630
	2000	2500	—	—	—	—	—	OT2000M8-325	19,430
—	3150	—	—	—	—	—	OT3150M8-325	21,130	

Kits with door mounted switches

UL general purpose amp rating	IEC AC21 amp rating	Maximum horsepower rating						Kit catalog number	List price	
		Single phase		Three phase						
		120V	240V	200V – 208V	240V	480V	600V			
UL 508	16	16	1	2	3	5	10	10	OT16ET3S	\$ 98
	25	25	1.5	3	7.5	7.5	15	20	OT25ET3S	104
	40	40	2	5	10	10	20	25	OT32ET3S	108
	60	63	2	5	15	15	30	30	OT45ET3S	132
UL 98	80	80	2	5	20	20	40	40	OT63ET3S	152
	30	40	2	5	10	10	20	30	OT30ET3S	182
	60	63	3	7.5	20	20	40	40	OT60ET3S	207
	100	115	5	15	25	30	50	50	OT100ET3S	232
	30	40	2	5	10	10	20	30	OT30ET3P	254
	60	63	3	7.5	20	20	40	40	OT60ET3P	279
	100	115	5	15	25	30	50	50	OT100ET3P	304
	125	160	7.5	20	30	40	75	100	OT160ET3P	640

① Four poles are available — please reference accessories pages 18.12 & 18.21.

② Shaft is not required with door mounted switch, except OT160ET3.

③ 16A – 125A switches include standard integral terminal lugs.

④ Available as a kit using the standard base mount switch and a door mount bracket.

Kit components

16A – 3150A, 600V, 3 pole ①

Disconnect
switches
Non-fusible

Each kit includes:

- 1 three pole ① switch
- 1 handle
- 1 shaft
- 1 terminal lug kit ③



Kit

Kit components ② for base & DIN rail mounted switches with selector handles

Kit catalog number	Switch	Handle ④				Shaft			Terminal lugs		
	Catalog number	NEMA type	Marking	De-feat-able	Catalog number	Mounting depth ^⑤ (inches)	Length (inches/mm)	Catalog number	Wire size	Wire type	Catalog number
OT16B2A1-180	OT16E3	1,3R,12	O/I & Off/On	—	OHB2AJ1	7.4 – 8.1	7.1/180	OXS5X180	#18 – 8	Cu	Integral
OT25B2A1-180	OT25E3	1,3R,12	O/I & Off/On	—	OHB2AJ1	7.4 – 8.1	7.1/180	OXS5X180	#18 – 8	Cu	Integral
OT32B2A1-180	OT32E3	1,3R,12	O/I & Off/On	—	OHB2AJ1	7.4 – 8.1	7.1/180	OXS5X180	#18 – 8	Cu	Integral
OT45B2A1-180	OT45E3	1,3R,12	O/I & Off/On	—	OHB2AJ1	8.1 – 8.7	7.1/180	OXS5X180	#14 – 4	Cu	Integral
OT63B2A1-180	OT63E3	1,3R,12	O/I & Off/On	—	OHB2AJ1	8.1 – 8.7	7.1/180	OXS5X180	#14 – 4	Cu	Integral
OT30B2A1-180	OT30E3	1,3R,12	O/I & Off/On	—	OHB2AJ1	7.6 – 8.6	7.1/180	OXS5X180	#14 – 4	Cu	Integral
OT60B2A1-180	OT60E3	1,3R,12	O/I & Off/On	—	OHB2AJ1	7.6 – 8.6	7.1/180	OXS5X180	#14 – 4	Cu	Integral
OT100B2A1-180	OT100E3	1,3R,12	O/I & Off/On	—	OHB2AJ1	7.6 – 8.6	7.1/180	OXS5X180	#8 – 1/0	Cu	Integral

Kit components ② for base and/or DIN rail mounted switches with pistol handles

Kit catalog number	Switch	Handle ④				Shaft			Terminal lugs		
	Catalog number	NEMA type	Marking	De-feat-able	Catalog number	Mounting depth ^⑤ (inches)	Length (inches/mm)	Catalog number	Wire size	Wire type	Catalog number
OT16B6-170	OT16E3	1,3R,12	O/I & Off/On	Yes	OHB65J5	7.0 – 7.5	6.7/170	OSP5X170	#18 – 8	Cu	Integral
OT25B6-170	OT25E3	1,3R,12	O/I & Off/On	Yes	OHB65J5	7.0 – 7.5	6.7/170	OSP5X170	#18 – 8	Cu	Integral
OT32B6-170	OT32E3	1,3R,12	O/I & Off/On	Yes	OHB65J5	7.0 – 7.5	6.7/170	OSP5X170	#18 – 8	Cu	Integral
OT45B6-170	OT45E3	1,3R,12	O/I & Off/On	Yes	OHB65J5	7.7 – 8.1	6.7/170	OSP5X170	#14 – 4	Cu	Integral
OT63B6-170	OT63E3	1,3R,12	O/I & Off/On	Yes	OHB65J5	7.7 – 8.1	6.7/170	OSP5X170	#14 – 4	Cu	Integral
OT30B6-170	OT30E3	1,3R,12	O/I & Off/On	Yes	OHB65J5	7.2 – 8.2	6.7/170	OSP5X170	#14 – 4	Cu	Integral
OT60B6-170	OT60E3	1,3R,12	O/I & Off/On	Yes	OHB65J5	7.2 – 8.2	6.7/170	OSP5X170	#14 – 4	Cu	Integral
OT100B6-170	OT100E3	1,3R,12	O/I & Off/On	Yes	OHB65J5	7.2 – 8.2	6.7/170	OSP5X170	#8 – 1/0	Cu	Integral
OT160B6-210	OT160E3	1,3R,12	O/I & Off/On	Yes	OHB65J6	7.3 – 8.5	8.3/210	OSP6X210	#8 – 1/0	Cu	Integral
OTK200B8-210	OT200U03	1,3R,12	O/I & Off/On	Yes	OHB80J6	7.4 – 9.6	8.3/210	OSP6X210	#4 – 300 kcmil	Cu/Al	OZXA-200
OTK400B4-280	OT400U03	1,3R,12	O/I & Off/On	Yes	OHB145J12	10.2 – 13.4	11.0/280	OSP12X280	#2 – 600 kcmil	Cu/Al	OZXA-400
OTK600B4-280	OT600U03	1,3R,12	O/I & Off/On	Yes	OHB145J12	10.2 – 14.5	11.0/280	OSP12X280	(2)#2 – 600 kcmil	Cu/Al	OZXA-800
OT800B4-280	OETL-NF800ASW	1,3R,12	O/I & Off/On	Yes	OHB145J12	11.6 – 15.3	11.0/280	OSP12X280	(2)#2 – 600 kcmil	Cu/Al	OZXA-30
OT1200B4-280	OETL-NF1200SW	1,3R,12	O/I & Off/On	Yes	OHB145J12	11.6 – 15.3	11.0/280	OSP12X280	(4)#2 – 600 kcmil	Cu/Al	OZXA-28
OT1600M8-325	OETL-NF1600SW	1,3R,4,4X,12	Off/On	—	YASDA-8	13.4 – 23.1	12.8/325	OSP12X325	(4)#2 – 600 kcmil	Cu/Al	OZXA-28
OT2000M8-325	OETL-NF2000SW	1,3R,4,4X,12	Off/On	—	YASDA-8	13.4 – 23.1	12.8/325	OSP12X325	(8)#2 – 600 kcmil	Cu/Al	OZXA-28/2
OT3150M8-325	OETL-NF3150SW	1,3R,4,4X,12	Off/On	—	YASDA-8	13.4 – 23.1	12.8/325	OSP12X325	(8)#2 – 600 kcmil	Cu/Al	OZXA-28/2

Kit components ② for door mounted switches

Kit catalog number	Switch	Handle ④				Shaft			Terminal lugs		
	Catalog number	NEMA type	Marking	De- feat- able	Catalog number	Mounting depth (inches)	Length (inches/mm)	Catalog number	Wire size	Wire type	Catalog number
OT16ET3S	OT16ET3	1,3R,12	O/I & Off/On	—	OHB2PJ	No shaft required			#18 – 8	Cu	Integral
OT25ET3S	OT25ET3	1,3R,12	O/I & Off/On	—	OHB2PJ	No shaft required			#18 – 8	Cu	Integral
OT32ET3S	OT32ET3	1,3R,12	O/I & Off/On	—	OHB2PJ	No shaft required			#18 – 8	Cu	Integral
OT45ET3S	OT45ET3	1,3R,12	O/I & Off/On	—	OHB2RJ	No shaft required			#14 – 4	Cu	Integral
OT63ET3S	OT63ET3	1,3R,12	O/I & Off/On	—	OHB2RJ	No shaft required			#14 – 4	Cu	Integral
OT30ET3S	OT30ET3	1,3R,12	O/I & Off/On	—	OHB2RJ	No shaft required			#14 – 4	Cu	Integral
OT60ET3S	OT60ET3	1,3R,12	O/I & Off/On	—	OHB2RJ	No shaft required			#14 – 4	Cu	Integral
OT100ET3S	OT100ET3	1,3R,12	O/I & Off/On	—	OHB2RJ	No shaft required			#8 – 1/0	Cu	Integral
OT30ET3P	OT30ET3	1,3R,12	O/I & Off/On	—	OHB65J5	Includes OHZX6 adapter			#14 – 4	Cu	Integral
OT60ET3P	OT60ET3	1,3R,12	O/I & Off/On	—	OHB65J5	Includes OHZX6 adapter			#14 – 4	Cu	Integral
OT100ET3P	OT100ET3	1,3R,12	O/I & Off/On	—	OHB65J5	Includes OHZX6 adapter			#8 – 1/0	Cu	Integral
OT160ET3P	OT160ET3	1,3R,12	Off/On	—	OHB65J6	—	5.2/130	OMP6X130	#8 – 1/0	Cu	Integral

If other handles or shafts are desired, please order from the individual component pages 18.10, 18.11, 18.20, 18.23, 18.26, 18.30 and 18.31.

① Other pole configurations available; please see individual components.

② For more information please see individual components.

③ 16A – 125A switches include standard integral terminal lugs.

④ Handles are black and accept three padlocks. For other handles see individual components.

⑤ Mounting depth is the distance from the outside of door to the disconnect switch mounting plate. Shaft can be cut to desired length.

⑥ Consists of standard base mounted switch with door mount conversion bracket.

16A – 100A, Base & DIN rail mounted

For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft



OT63E3



OXS5X180



OHB2AJ1



OT16E3
OT25E3
OT32E3



OT30E3
OT60E3
OT100E3



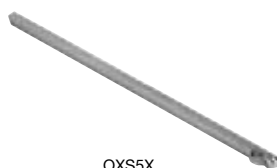
OHB1AH1



OHB3AH1



OHY2AJ



OXS5X_

16 – 100 Amp switches, 600V, 3 pole^①

UL general purpose amp rating	IEC AC21 amp rating	Maximum horsepower rating					Terminal lugs		Catalog number	List price
		Single phase		Three phase			Wire size	Wire type		
		120V	240V	240V	480V	600V				
UL 508	16	1	2	5	10	10	#18 – 8	Cu	OT16E3	\$ 66
	25	1.5	3	7.5	15	20	#18 – 8	Cu	OT25E3	72
	40	2	5	10	20	25	#18 – 8	Cu	OT32E3	76
UL 98	60	2	5	15	30	30	#14 – 4	Cu	OT45E3	100
	80	2	5	20	40	40	#14 – 4	Cu	OT63E3	120
	30	2	5	10	20	30	#14 – 4	Cu	OT30E3	150
	60	3	7.5	20	40	40	#14 – 4	Cu	OT60E3	175
	100	5	15	30	50	50	#8 – 1/0	Cu	OT100E3	200

Selector handles — for use with shafts □ .20 x .20" (□ 5x5mm)

UL/NEMA type	IEC type	Color	Defeat- able	Padlock- able	Weight (lbs)	Catalog number	List price
A	1	IP54	Black	—	0.09	OHB1AH1 ^②	\$ 22
	1	IP54	Red/Yel	—	0.09	OHY1AH1 ^②	22
1	IP54	Black	—	Yes	0.12	OHB3AH1 ^②	24
	IP54	Red/Yel	—	Yes	0.12	OHY3AH1 ^②	24
1,3R,12	IP65	Black	—	Yes	0.16	OHB2AJ1	28
	IP65	Red/Yel	—	Yes	0.16	OHY2AJ1	28
1,3R,12	IP65	Black	Yes	Yes	0.16	OHB2AJ	30
	IP65	Red/Yel	Yes	Yes	0.16	OHY2AJ	30

Shafts — for use with OH selector handles □ .20 x .20" (□ 5x5mm)

Shaft length inches/mm	Mounting depth ^③ in inches					Weight (lbs)	Catalog number	List price
	OT16E3 OT25E3 OT32E3		OT45E3 OT63E3		OT30E3 OT60E3 OT100E3			
	OH_1_ & OH_3_	OH_2_	OH_1_ & OH_3_	OH_2_	OH_2_			
3.3/85	4.2 – 5.0	3.6 – 4.3	4.9 – 5.6	4.4 – 5.0	3.9 – 4.9	0.04	OXS5X85	\$ 4
4.1/105	5.0 – 5.8	4.4 – 5.1	5.7 – 6.4	5.1 – 5.8	4.7 – 5.7	0.04	OXS5X105	4
4.7/120	5.6 – 6.4	5.0 – 5.8	6.3 – 7.0	5.7 – 6.4	5.3 – 6.3	0.05	OXS5X120	4
5.1/130	6.0 – 6.7	5.4 – 6.1	6.7 – 7.4	6.1 – 6.8	5.6 – 6.7	0.05	OXS5X130	6
7.1/180	7.1 – 8.7	7.4 – 8.1	8.6 – 9.4	8.1 – 8.7	7.6 – 8.6	0.08	OXS5X180	6
9.8/250	10.7 – 11.5	10.1 – 10.8	11.4 – 12.1	10.9 – 11.5	10.4 – 11.4	0.10	OXS5X250	12
13/330	13.8 – 14.6	13.3 – 14.0	14.6 – 15.3	14.0 – 14.7	13.5 – 14.5	0.14	OXS5X330	20

① A snap on fourth pole may be added — please reference accessories pg 18.12.

② Not suitable for use with OT30E3, OT60E3, OT100E3.

③ Mounting depth is the distance from the outside of door to the disconnect switch mounting plate. Shaft can be cut to desired length.

16A – 100A, Base & DIN rail mounted Handles & shafts

Disconnect
switches
Non-fusible



OHB_J5
OHB_L5



OHY_J5



OXP5X_



OXP5X_/45



CXBY68135



CXBY68306



CXBY68419/1



OTZS1



OHY7

Pistol handles — for use with shafts □ .20 x .20" (□ 5 x 5 mm)

UL/NEMA type	IEC type	Color	Marking	Length inches/mm	Defeatable	Padlockable	Weight (lbs.)	Catalog number	List price
1,3R,12	IP65	Black	O/I & Off/On	1.8/45	Yes	Yes	0.28	OHB45J5	\$ 70
1,3R,12	IP65	Red/Yel	O/I & Off/On	1.8/45	Yes	Yes	0.28	OHY45J5	70
1,3R,12	IP65	Black	O/I & Off/On	2.6/65	Yes	Yes	0.29	OHB65J5	80
1,3R,12	IP65	Red/Yel	O/I & Off/On	2.6/65	Yes	Yes	0.29	OHY65J5	80
1,3R,12,4,4X	IP66	Black	O/I & Off/On	2.6/65	Yes	Yes	0.29	OHB65L5	120
1,3R,12,4,4X	IP66	Red/Yel	O/I & Off/On	2.6/65	Yes	Yes	0.29	OHY65L5	120
1,3R,12,4,4X	IP66	Stainless Steel	O/I & Off/On	1.8/45	Yes	Yes	1.40	OHM45L5	700
				2.6/65			1.60	OHM65L5	700

Shafts — for use with pistol handles □ .20 x .20" (□ 5 x 5 mm)

Shaft length (inches/mm)	Mounting depth ^① (inches)			Weight (lbs.)	Catalog number	List price
	OT16E3 OT25E3 OT32E3	OT45E3 OT63E3	OT30E3 OT60E3 OT100E3			
5.9/150	6.2 – 6.7	6.9 – 7.4	6.4 – 7.4	0.07	OXP5X150	\$ 14
6.7/170	7.0 – 7.5	7.7 – 8.1	7.2 – 8.1	0.08	OXP5X170	16
10.4/265	10.7 – 11.3	11.4 – 11.9	10.9 – 11.9	0.12	OXP5X265	18
15.8/400	16.0 – 16.6	16.8 – 17.2	16.2 – 17.2	0.18	OXP5X400	30
19.7/500	20.0 – 20.5	20.7 – 21.1	20.1 – 21.1	0.23	OXP5X500	42

Twisted shafts — Rotates handle 45° □ .20 x .20" (□ 5 x 5 mm)

Shaft length (inches/mm)	Mounting depth ^① (inches)			Weight (lbs.)	Catalog number	List price
	OT16E3 OT25E3 OT32E3	OT45E3 OT63E3	OT30E3 OT60E3 OT100E3			
5.9/150	6.2 – 6.7	6.9 – 7.4	6.4 – 7.4	0.07	OXP5X150-45	\$ 14
6.7/170	7.0 – 7.5	7.7 – 8.1	7.2 – 8.1	0.08	OXP5X170-45	16
10.4/265	10.7 – 11.3	11.4 – 11.9	10.9 – 11.9	0.12	OXP5X265-45	18
15.8/400	16.0 – 16.6	16.8 – 17.2	16.2 – 17.2	0.18	OXP5X400-45	30
19.7/500	20.0 – 20.5	20.7 – 21.1	20.1 – 21.1	0.23	OXP5X500-45	42

Replacement knob — mounts directly to switch; no shaft necessary

UL/NEMA Type	Color	For use on:	Length (inches)	Padlockable	Catalog number	List price
1	Red	OT16, OT25, OT32	1.0	—	CXBY68135	\$ 8
1	Red	OT30, OT45 – OT100	1.4	—	CXBY68306	12
1	Red	OT30, OT45 – OT100	1.6	Yes ^②	CXBY68419/1	14
Metal collar		OT16 – OT100	—	—	OTZS1	13
Set screw		OT16 – OT100	—	—	FLSWM5XAX	2 ^③

Modular adapter cover — for OT16, OT25, OT32

Item	For use	Length (inches)	Padlockable (inches)	Catalog number	List price
Adapter cover	OT16, OT25 OT32	—	Yes	OHY7	\$ 28

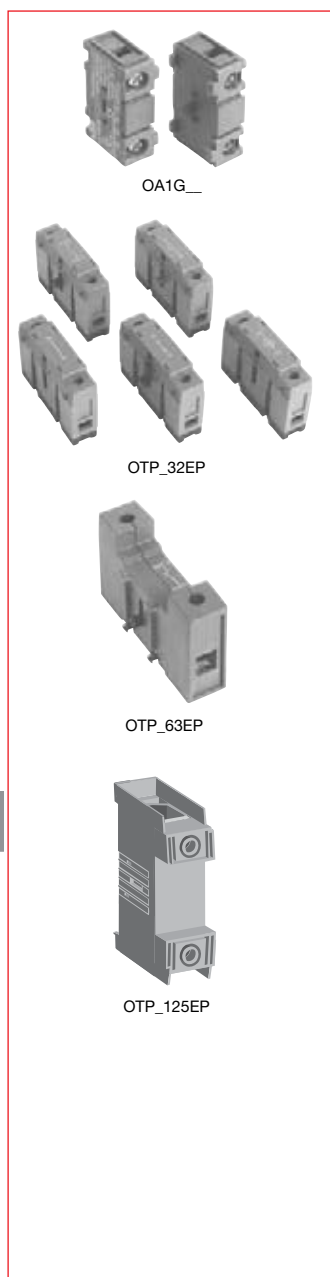
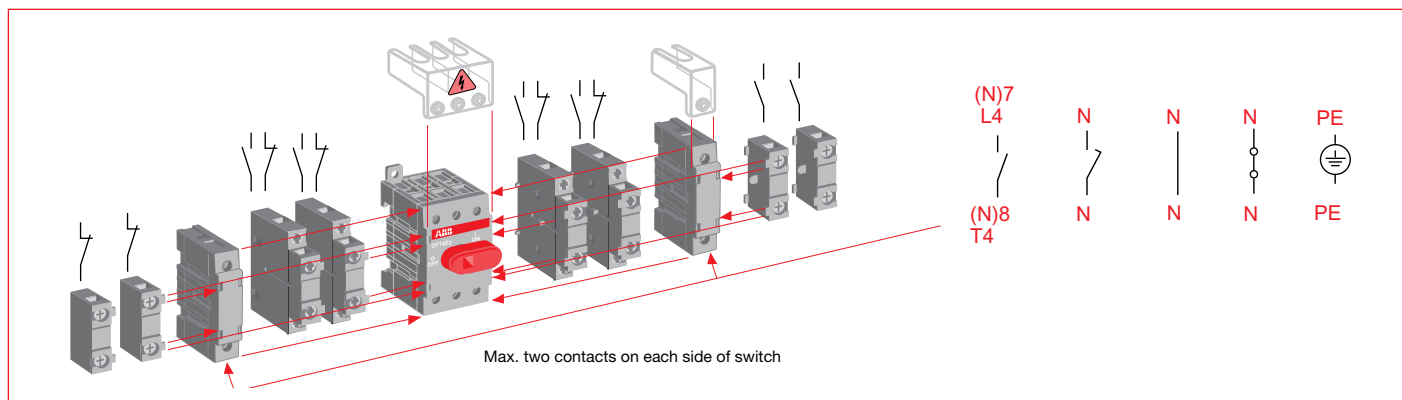
A padlock can be used with the adapter cover.

^① Mounting depth is the distance from the outside of door to the disconnect switch mounting plate. Shaft can be cut to desired length.

^② .1875" (3/16") diameter shackle required.

^③ Set screw FLSWM5XAX needed with replacement knobs CXBY_.

16A – 100A, Base & DIN rail mounted Accessories



Auxiliary contacts ① — snap-on mounting

Description	For use on:	Weight (lbs.)	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. mounts on right side of switch only	OT16 – OT100	0.07	10	600	OA1G10	\$ 20
1 N.O. mounts on left side of switch only	OT16E3C – OT100E3C	0.07	10	600	OA7G10	20
1 N.C. mounts on left side of switch only	OT16 – OT100	0.07	10	600	OA1G01	20
1 N.C. mounts on right side of switch only	OT16E3C – OT100E3C	0.07	10	600	OA3G01	20
1 N.O. & 1 N.C. mounts on left or right side of switch	OT16 – OT100	0.07	10	600	OA2G11	40

Power poles

- Only one power pole per switch
- Mounts on left or right side of switch

Description	For use on:	Weight (lbs.)	AC thermal amp rating	AC rated voltage	Catalog number	List price
(N)7 L4 Fourth pole ②	OT16, OT25, OT32	0.07	40	600	OTPS32EP	\$ 36
	OT45, OT63	0.13	80	600	OTPS63EP	44
	OT30, OT60	0.31	60	600	OTPS60EP	54
	OT100	0.31	100	600	OTPS125EP	54
N Late-break/early-make ②	OT16, OT25, OT32	0.07	40	600	OTPL32EP	36
	OT45, OT63	0.13	80	600	OTPL63EP	44
	OT30, OT60, OT100	0.31	100	600	OTPL125EP	54

Terminal poles

- Switch accepts one terminal pole per side
- Mounts on left or right side of switch

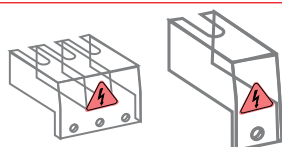
Description	For use on:	Weight (lbs.)	AC thermal amp rating	AC rated voltage	Catalog number	List price
Solid neutral ②	OT16, OT25, OT32	0.07	40	600	OTPN32EP	\$ 20
	OT45, OT63	0.13	80	600	OTPN63EP	36
	OT30, OT60, OT100	0.31	100	600	OTPN125EP	50
Detachable neutral ②	OT16, OT25, OT32	0.07	40	600	OTPD32EP	28
	OT45, OT63	0.13	80	600	OTPD63EP	36
	OT30, OT60	0.31	60	600	OTPD60EP	50
	OT100	0.31	100	600	OTPD125EP	54
Ground terminal ②	OT16, OT25, OT32	0.07	40	600	OTPE32EP	20
	OT45, OT63	0.13	80	600	OTPE63EP	36
	OT30, OT60, OT100	0.31	100	600	OTPE125EP	50

① UL File # E83510

② Switch accepts one power pole or one terminal pole per side. Only one power pole per switch.

16A – 100A, Base & DIN rail mounted Accessories

Disconnect
switches
Non-fusible



OTS32T3
OTS63T3
OTS125T3

OTS32T1
OTS63T1
OTS125T1



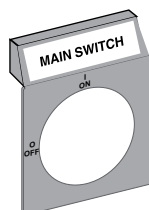
DS-SA1



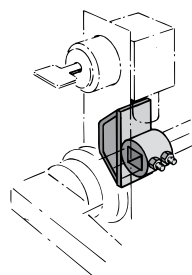
STL-ST



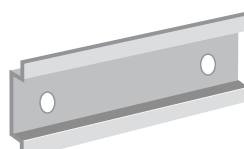
OP_2



OP_2EN1



OETL-ZW16



DIN RAIL

Terminal shrouds ① — snap on mounting for line or load side

Description	For use on:	Weight (lbs.)	Catalog number	List price
3 pole includes one shroud for line or load side	OT16, OT25, OT32	0.02	OTS32T3	\$ 8
	OT45, OT63	0.02	OTS63T3	12
	OT30, OT60, OT100	0.02	OTS125T3	20
4th pole includes one shroud for line or load side	OTP_32EP	0.02	OTS32T1	4
	OTP_63EP	0.02	OTS63T1	6
	OTP_125EP	0.02	OTS125T1	10

Padlocking adapter

Description	For use on:	Weight (lbs.)	Catalog number	List price
Adapter for one padlock with a max. 0.137" shackle	OT30, OT45 - OT100	0.02	DS-SA1	\$ 10
Padlock for DS-SA1	OT30, OT45 - OT100	0.22	DS-SA2	28
Adapter and padlock	OT30, OT45 - OT100	0.24	DS-SA3	38

Labelling accessories

Description	For use on:	Package quantity	Catalog number	List price
1 Pkg. of label carriers	OT30, OT45 – OT100	100 pieces	STL-ST	\$ 74
1 Pkg of blank description labels		315 pieces	ST-E	12

Legend plates for selector handles

Description	For use on:	Catalog number	List price
Blank plate	OH_1_ & OH_3_ OH_1_ & OH_3_	OPB1	\$ 6
		OPY1	6
	OH_2_ OH_2_	OPB2	8
		OPY2	8
Plate marked with: MAIN SWITCH	OH_1_ & OH_3_ OH_1_ & OH_3_	OPB1EN1	10
		OPY1EN1	10
	OH_2_ OH_2_	OPB2EN1	12
		OPY2EN1	12

Locking accessories

Description	For use on:	Weight (lbs.)	Catalog number	List price
Cam attachment for Kirk Key, Castell, Lowe & Fletcher and Ronis interlock. For adapting to the interlock system. The interlock is not included.	5, 6 & 8mm shafts	0.29	OETL-ZW16	\$ 190

DIN rail

Description	For use on:	Weight (lbs.)	Length inches/mm	Catalog number	List price
35mm DIN Rail	OT16 – OT100	2.96	39.4/1000	DIN RAIL	\$ 52

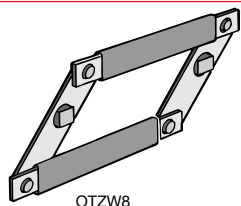
Shaft support

Description	For use on:	Weight (lbs.)	Catalog number	List price
Shaft support	OT16 – OT100	0.30	OETL-ZX58	\$ 14

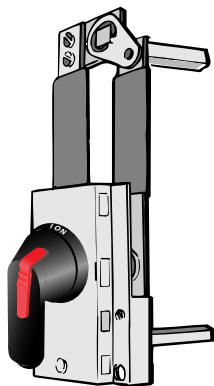
The shaft support is used for disconnects installed in deep enclosures.

① All disconnects are IP20 touch safe as standard. Terminal shrouds provide an additional level of protection.

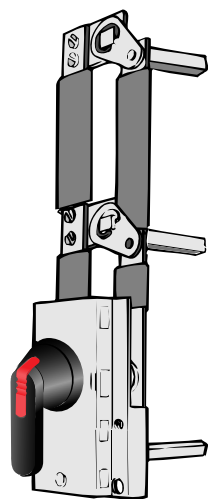
16A – 100A, Base & DIN rail mounted Accessories



OTZW8



OTZW6



OTZW17



OETL-ZW24

Conversion mechanisms

- For use with Base and DIN rail mounted switches only
- Switches are not included

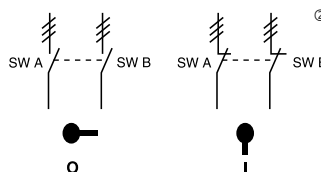
Description	For use on:	Weight (lbs.)	UL/NEMA type	Catalog number	List price
6 or 8 pole	OT16 – OT100	0.33	—	OTZW8	\$ 60
Transfer	OT16 – OT100	1.87	1,3R,12	OTZW6	240
Transfer	OT16 – OT100	1.87	1,3R, 4, 4X, 12	OTZW6X	280
Bypass	OT16 – OT100	1.54	1,3R,12	OTZW17	340
Bypass	OT16 – OT100	1.54	1,3R, 4, 4X, 12	OTZW17X	380
Mechanical interlock	OT16 – OT100	0.33	—	OETL-ZW24	80

6 or 8 pole — OTZW8

6 (8) pole mechanism allows two switches controlled by one handle to open or close simultaneously.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see page 18.10)
- One handle^① (see page 18.10 – 18.11)
- One shaft (see page 18.10 – 18.11)



	POS. O	POS. I
SW. A	O	X
SW. B	O	X

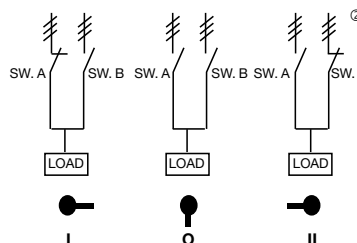
X = Closed
O = Open

Transfer — OTZW6, OTZW6X

Transfer mechanism manually transfers between two power sources using two switches and a center OFF position.

A 3-position handle is included:
OHB80J6E011 (UL Type 1, 3R & 12) or
OHB80L6E011 (UL Type 1, 3R, 4, 4X, 12)

- Shafts included. Equipment required for a complete installation:
- One conversion mechanism
 - Two disconnect switches (see page 18.10.)



	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

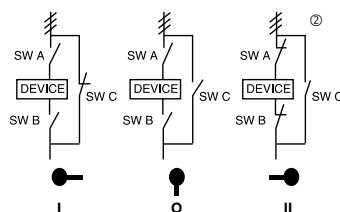
X = Closed
O = Open

Bypass — OTZW17, OTZW17X

Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass.

A 3-position handle is included:
OHB80J6E011 (UL Type 1, 3R & 12) or
OHB80L6E011 (UL Type 1, 3R, 4, 4X, 12)

- Shafts included. Equipment required for a complete installation:
- One conversion mechanism
 - Three disconnect switches (see page 18.10.)



	POS. I	POS. O	POS. II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

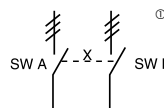
X = Closed
O = Open

Mechanical interlock — OETL-ZW24

Mechanical interlock mechanism prevents both switches from being in the ON position at the same time.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see page 18.10)
- Two handles (see page 18.10 – 18.11)
- Two shafts (see page 18.10 – 18.11)



	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

Drawing and mounting information found on pg 18.65

① OT16E3 – OT32E3 can use a selector or pistol handle. All other sizes must use a pistol handle.

② ≡ Three poles

16A – 100A, Base & DIN rail mounted 6 Pole switches

Disconnect
switches
Non-fusible

For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft



OT45E6



OXP6X210



OHY_J6



OT45E6



OHB_J6



OHY_J6



OXP5X_


16 – 100 Amp switches, 600V, 6 pole ①

UL general purpose amp rating	IEC AC21 amp rating	Maximum horsepower ratings					Terminal lugs		Shaft size (mm)	Catalog number	List price	
		Single phase		Three phase								
		120V	240V	240V	480V	600V	Wire size	Wire type				
UL 508	16	16	1	2	5	10	10	#18 – 8	Cu	5	OT16E6	\$ 192
	25	25	1.5	3	7.5	15	20				OT25E6	204
	40	40	2	5	10	20	25				OT32E6	212
UL 98	60	63	2	5	15	30	30	#14 – 4	Cu	6	OT45E6	260
	80	80	2	5	20	40	40				OT63E6	300
	30	40	2	5	10	20	30				#14 – 4	OT30E6
UL 98	60	63	3	7.5	20	40	40	#14 – 4	Cu	6	OT60E6	410
	100	115	5	15	30	50	50				#8 – 1/0	OT100E6

Pistol handles — 5 & 6mm, for use with 6-pole switches

UL/NEMA type	IEC type	Color	Length in/mm	Marking	Defeat- able	Padlock- able	Weight (lbs)	Shaft size (mm)	Catalog number	List price
5mm — for use with OT16, OT25 & OT32										
1, 3R, 12	IP65	Black Red/Yel	2.6/65	O/I & Off/On	Yes	Yes	0.29	5	OHB65J5 OHY65J5	\$ 80
1, 3R, 4, 4X, 12	IP66	Black Red/Yel	2.6/65	O/I & Off/On	Yes	Yes	0.29	5	OHB65L5 OHY65L5	120
1, 3R, 4, 4X, 12	IP66	Stainless Steel	2.6/65	O/I & Off/On	Yes	Yes	1.60	5	OHB65L5 OHY65L5	700
6mm — for use with OT45, OT63, OT30E6, OT60E6 & OT100E6										
1, 3R, 12	IP65	Black Red/Yel Black Red/Yel	2.6/65 2.6/65 3.1/80 3.1/80	O/I & Off/On	Yes	Yes	0.29 0.29 0.30 0.30	6	OHB65J6 OHY65J6 OHB80J6 OHY80J6	80 80 90 90
1, 3R, 4, 4X, 12	IP66	Black Red/Yel	3.1/80	O/I & Off/On	Yes	Yes	0.30	6	OHB80L6 OHY80L6	130 130
1, 3R, 4, 4X, 12	IP66	Stainless Steel	2.65/65	O/I & Off/On	Yes	Yes	1.60	6	OHB80L6 OHY80L6	750

Shafts — 5 & 6mm, for use with 6 pole switches



Shaft length (inches/mm)	Mounting depth ^② (inches)			Weight (lbs)	Shaft size (mm)	Catalog number	List price
	OT16E6 OT25E6 OT32E6	OT45E6 OT63E6	OT30E6 OT60E6 OT100E6				
5mm — for use with OT16, OT25 & OT32							
5.9/160	7.2	—	—	0.07	5	EXP5X150	\$ 14
6.7/170	8.0	—	—	0.08		EXP5X170	16
10.4/265	11.7	—	—	0.12		EXP5X265	18
15.8/400	17.0	—	—	0.18		EXP5X400	30
19.7/500	21.0	—	—	0.23		EXP5X500	42
6mm — for use with OT45, OT63, OT30E6, OT60E6 & OT100E6							
5.2/130	—	6.6	6.7	0.08	6	EXP6X130	12
5.9/150	—	7.4	7.5	0.09		EXP6X150	12
8.3/210	—	9.7	9.8	0.13		EXP6X210	16
11.4/290	—	12.9	13.0	0.18		EXP6X290	20
14.2/360	—	15.6	15.7	0.23		EXP6X360	24
16.9/430	—	18.4	18.5	0.27		EXP6X430	28

① A snap-on power pole may be added to build a 7 or 8 pole switch; please reference accessories, page 18.12.

② Mounting depth is the distance from the outside of door to the disconnect switch mounting surface. Shaft can be cut to desired length.

16A – 100A, Base & DIN rail mounted 3 Pole transfer switches

For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft



OT45E3C



OXPSX170



OHB_J5



OT45E3C



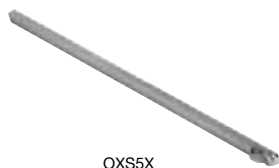
OHB2AJE011



OHB_J5



OHY_J5



OXSX_

16 – 100 Amp – 600V, 3 Pole transfer switches ①

UL general purpose amp rating	IEC AC21 amp rating	Maximum horsepower ratings					Terminal lugs		Shaft size (mm)	Catalog number	List price	
		Single phase		Three phase			Wire size	Wire type				
		120V	240V	240V	480V	600V						
UL 508	16	16	1	2	5	10	#18 – 8	Cu	5	OT16E3C	\$ 258	
	25	25	1.5	3	7.5	15				20	OT25E3C	270
	40	40	2	5	10	20				25	OT32E3C	288
UL 98	60	63	2	5	15	30	#14 – 4	Cu	5	OT45E3C	328	
	80	80	2	5	20	40				40	OT63E3C	368
	30	40	2	5	10	20	30	#14 – 4	Cu	5	OT30E3C	428
60	63	3	7.5	20	40	40	#14 – 4	OT60E3C			478	
100	115	5	15	30	50	50	#8 – 1/0	OT100E3C			514	

Selector handles — 5mm, for use with transfer switches; marked I/ON - O/OFF - II/ON

UL/NEMA type	IEC type	Color	Defeatable	Padlockable	Weight (lbs.)	Catalog number	List price
1, 3R, 12	IP65	Black Red/Yel	Yes	Yes	0.16	OHB2AJE011② OHY2AJE011②	\$ 40

Shafts for selector handles — 5mm, for use with transfer switches

Shaft length (inches/mm)	Mounting depth② (inches)			Weight (lbs)	Shaft size (mm)	Catalog number	List price
	OT16E3C OT25E3C OT32E3C	OT45E3C OT63E3C	OT30E3C OT60E3C OT100E3C				
3.3/85	3.6 - 4.3	4.4 - 5.0	3.9 - 4.9	0.04	5	OXS5X85	\$ 4
4.1/105	4.4 - 5.1	5.1 - 5.8	4.7 - 5.7	0.04		OXS5X105	4
4.7/120	5.0 - 5.8	5.7 - 6.4	5.3 - 6.3	0.05		OXS5X120	4
5.1/150	5.4 - 6.1	6.1 - 6.8	5.6 - 6.7	0.05		OXS5X150	6
7.1/180	7.4 - 8.1	8.1 - 8.7	7.6 - 8.6	0.08		OXS5X180	6
9.8/250	10.1 - 10.8	10.9 - 11.5	10.4 - 11.4	0.1		OXS5X250	12
13/330	13.3 - 14.0	14.0 - 14.7	13.5 - 14.5	0.14		OXS5X330	20

Pistol handles — 5mm, for use with transfer switches; marked I/ON - O/OFF - II/ON

UL/NEMA type	IEC type	Color	Length in/mm	Defeat- able	Padlock- able	Weight (lbs)	Shaft size (mm)	Catalog number	List price
1, 3R, 12	IP65	Black Red/Yel	2.6/65	Yes	Yes	0.29	5	OHB65J5E011 OHY65J5E011	\$ 90
1, 3R, 4, 4X, 12	IP66	Black Red/Yel	2.6/65	Yes	Yes	0.29	5	OHB65L5E011 OHY65L5E011	130

Shafts for pistol handles — 5mm, for use with transfer switches

Shaft length (inches/mm)	Mounting depth② (inches)			Weight (lbs)	Shaft size (mm)	Catalog number	List price
	OT16E3 OT25E3 OT32E3	OT45E3 OT63E3	OT30E3 OT60E3 OT100E3				
5.9/160	7.2	7.4	7.5	0.07	5	OXPSX150	\$ 14
6.7/170	8.0	8.2	8.3	0.08		OXPSX170	16
10.4/265	11.7	11.9	12.0	0.12		OXPSX265	18
15.8/400	17.0	17.2	17.3	0.18		OXPSX400	30
19.7/500	21.0	21.2	21.3	0.23		OXPSX500	42

① A snap on power pole may be added to build a 4 pole transfer switch; please reference accessories and auxiliary contact information on page 18.12.

② Not suitable for use with OT30E3C, OT60E3C, OT100E3C.

③ Mounting depth is the distance from the outside of door to the disconnect switch mounting plate. Shaft can be cut to desired length.

16A – 100A, Door mounted

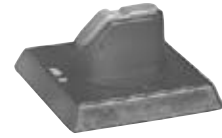
Disconnect
switches
Non-fusible

For a complete assembly,
please order one of each:

- 1 switch
- 1 handle



OT45ET3



OHB2RJ



OT16ET3
OT25ET3
OT32ET3



OHY1__



OHB3__



OHB2__



OHY2__

16 – 100 Amp switches, 600V, 3 pole^{①②}

UL general purpose amp rating	IEC AC21 amp rating	Maximum horsepower rating					Terminal lugs		Catalog number	List price
		Single phase		Three phase						
		120V	240V	240V	480V	600V	Wire size	Wire type		
UL 508	16	1	2	5	10	10	#18 – 8	Cu	OT16ET3	\$ 70
	25	1.5	3	7.5	15	20	#18 – 8	Cu	OT25ET3	76
	40	2	5	10	20	25	#18 – 8	Cu	OT32ET3	80
	60	63	2	5	15	30	#14 – 4	Cu	OT45ET3	104
	80	80	2	5	20	40	#14 – 4	Cu	OT63ET3	124
	30	40	2	5	10	20	#14 – 4	Cu	OT30ET3	154
UL 98	60	63	3	7.5	20	40	#14 – 4	Cu	OT60ET3	179
	100	115	5	15	30	50	#8 – 1/0	Cu	OT100ET3	204

Selector handles

UL/NEMA type	IEC type	Color	Defeat- able	Padlock- able	Weight (lbs)	Catalog number	List price
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All marked both O/I & Off/On

Snap-on mounting — for use on OT16, 25, 32ET3

1	IP54	Black	—	—	0.10	OHB1PH	\$ 22
1	IP54	Red/Yel	—	—	0.10	OHY1PH	22
1	IP54	Black	—	Yes	0.13	OHB3PH	24
1	IP54	Red/Yel	—	Yes	0.13	OHY3PH	24
1,3R,12	IP65	Black	—	Yes	0.17	OHB2PJ	28
1,3R,12	IP65	Red/Yel	—	Yes	0.17	OHY2PJ	28

Screw mounting — for use on OT16 – OT100. For OT30, OT60, OT100 use OH_2_ only

1	IP54	Black	—	—	0.11	OHB1RH	40
1	IP54	Red/Yel	—	—	0.11	OHY1RH	40
1	IP54	Black	—	Yes	0.14	OHB3RH	42
1	IP54	Red/Yel	—	Yes	0.14	OHY3RH	42
1,3R,12	IP65	Black	—	Yes	0.18	OHB2RJ	46
1,3R,12	IP65	Red/Yel	—	Yes	0.18	OHY2RJ	46

Door mounted switches do not provide door interlock

Pistol grip handle adapter

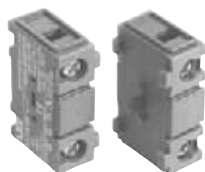
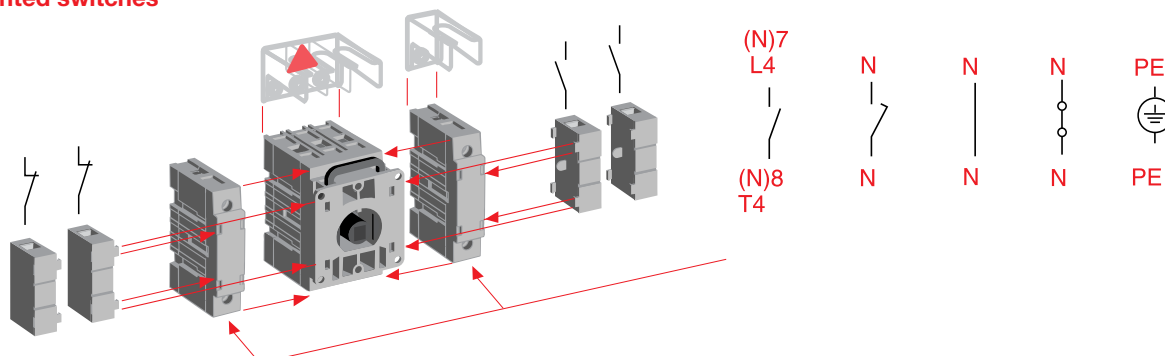
Description	For use on:	Weight (lbs)	Catalog number	List price
Adapter piece for pistol grip handle	OT30, OT60, OT100	0.18	OHZX6	\$ 20

Includes hardware and a shaft. For pistol grip handles.

① A snap on fourth pole may be added — please reference accessories pg 18.18.
② Door mounted switches do not require shafts.

16A – 100A, Door mounted Accessories

Door mounted switches



OA1G_



OTP_32ED



OTP_63ED

Auxiliary contacts ① — snap-on mounting

Description	For use on:	Weight (lbs)	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. mounts on righthand side of switch	OT16 – OT100	0.07	10	600	OA1G10	\$ 20
1 N.C. mounts on lefthand side of switch		0.07	10	600	OA1G01	20

Max. two contacts on each side of switch.

Power poles

- Only one power pole per switch
- Mounts on left or right side of switch

Description	For use on:	Weight (lbs)	AC thermal amp rating	AC rated voltage	Catalog number	List price
Fourth pole ②	OT16, OT25, OT32	0.07	40	600	OTPS32ED	\$ 36
	OT45, OT63	0.13	80	600	OTPS63ED	44
	OT30, OT60, OT100	0.20	100	600	OTPS125ED	54
Late-break/early-make ②	OT16, OT25, OT32	0.07	40	600	OTPL32ED	36
	OT45, OT63	0.13	80	600	OTPL63ED	44
	OT30, OT60, OT100	0.20	100	600	OTPL125ED	54

Terminal poles

- Switch accepts one terminal pole per side
- Mounts on left or right side of switch

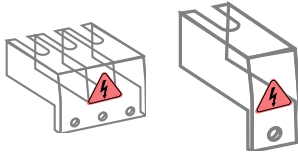
Description	For use on:	Weight (lbs)	AC thermal amp rating	AC rated voltage	Catalog number	List price
Solid neutral ②	OT16, OT25, OT32	0.07	40	600	OTPN32ED	\$ 20
	OT45, OT63	0.13	80	600	OTPN63ED	36
	OT30, OT60, OT100	0.20	100	600	OTPN125ED	50
Detachable neutral ②	OT16, OT25, OT32	0.07	40	600	OTPD32ED	28
	OT45, OT63	0.13	80	600	OTPD63ED	36
	OT30, OT60, OT100	0.20	100	600	OTPD125ED	50
Ground terminal ②	OT16, OT25, OT32	0.07	40	600	OTPE32ED	20
	OT45, OT63	0.13	80	600	OTPE63ED	36
	OT30, OT60, OT100	0.20	100	600	OTPE125ED	50

① UL File # E83510

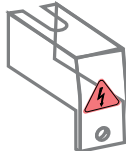
② Switch accepts one power pole or one terminal pole per side. Only one power pole per switch.

16A – 100A, Door mounted Accessories

Disconnect
switches
Non-fusible



OTS32T3
OTS63T3
OTS125T3



OTS32T1
OTS63T1
OTS125T1

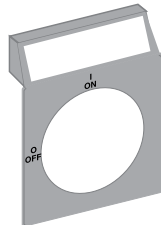
Terminal shrouds* — snap-on mounting for line or load side

Description	For use on:	Weight (lbs)	Catalog number	List price
3 pole includes one shroud for line or load side	OT16, OT25, OT32	0.02	OTS32T3	\$ 8
	OT45, OT63	0.02	OTS63T3	12
	OT30, OT60, OT100	0.02	OTS125T3	20
4th pole includes one shroud for line or load side	OTP_32ED	0.02	OTS32T1	4
	OTP_63ED	0.02	OTS63T1	6
	OTP_125ED	0.02	OTS125T1	10

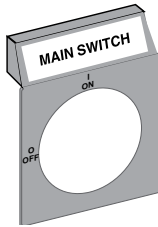
*All disconnects are IP20 touch safe as standard. Terminal shrouds provide an additional level of protection.

Legend plates for selector handles

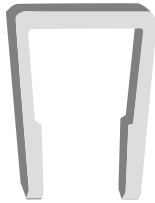
Description	For use on:	Catalog number	List price
Blank plate			
	Black	OPB1	\$ 6
	Yellow	OPY1	6
	Black	OPB2	8
Plate marked with: MAIN SWITCH	Yellow	OPY2	8
	Black	OPB1EN1	10
	Yellow	OPY1EN1	10
	Black	OPB2EN1	12
	Yellow	OPY2EN1	12



OP_



OP_EN1



CXBY68140

Locking clip (replacement part)

Description	For use on:	Catalog number	List price
Door mounted switch handle locking clip	OT16, OT25, OT32	CXBY68140	\$ 11

For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft



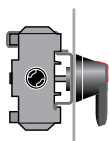
OT160E3



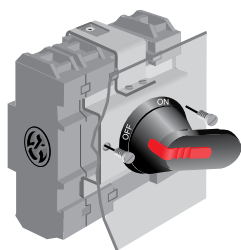
OXP6X210



OHB65J6



OT160ET3



OHB_J6



OHY_J6



OXP6X_



OXP6X_/45

125 Amp Base & DIN rail mounted switches^①, 600V

UL general purpose amp rating	IEC AC21 amp rating	Maximum horsepower rating			Terminal lugs		Catalog number	List price
		Three phase						
		240V	480V	600V	Wire size	Wire type		
2 pole							2 pole	
125	160	—	—	—	#8 – 1/0	Cu	OT160E2	\$ 380
3 pole							3 pole	
125	160	40	75	100	#8 – 1/0	Cu	OT160E3	420


125 Amp Door mounted switch^①, 600V, 3 pole

UL general purpose amp rating	IEC AC21 amp rating	Maximum horsepower rating			Terminal lugs		Catalog number	List price
		Three phase						
		240V	480V	600V	Wire size	Wire type		
125	160	30	75	100	#8 – 1/0	Cu	OT160ET3	\$ 548


Pistol handles — for use with □ .24 x .24" (□ 6 x 6 mm)

UL/NEMA type	IEC type	Color	Length in/mm	Marking	Defeat- able	Padlock- able	Weight (lbs)	Catalog number	List price
1, 3R, 12	IP65	Black	2.6/65	O/I & Off/On	Yes	Yes	0.29	OHB65J6	\$ 80
1, 3R, 12	IP65	Red/Yel	2.6/65	O/I & Off/On	Yes	Yes	0.29	OHY65J6	80
1, 3R, 12	IP65	Black	3.1/80	O/I & Off/On	Yes	Yes	0.30	OHB80J6	90
1, 3R, 12	IP65	Red/Yel	3.1/80	O/I & Off/On	Yes	Yes	0.30	OHY80J6	90
1, 3R, 4, 4X, 12	IP66	Black Red/Yel	3.1/80	O/I & Off/On	Yes	Yes	0.30	OHB80L6 OHY80L6	130
1, 3R, 4, 4X, 12	IP66	Stainless Steel	2.6/65	O/I & Off/On	Yes	Yes	1.60	OHB65L6	750

Shafts — for use with pistol handles □ .24 x .24" (□ 6 x 6 mm)

Shaft length inches/mm		Mounting depth ② in inches	Weight (lbs)	Catalog number	List price
5.2/130		4.3 – 6.0	0.08	OXP6X130	\$ 12
5.9/150		5.0 – 6.7	0.09	OXP6X150	12
8.3/210		7.4 – 9.1	0.13	OXP6X210	16
11.4/290		10.5 – 12.2	0.18	OXP6X290	20
14.2/360		13.3 – 15.0	0.23	OXP6X360	24
16.9/430		16.0 – 17.8	0.27	OXP6X430	28

Twisted shafts — Rotates handle 45° □ .24 x .24" (□ 6 x 6 mm)

Shaft length inches/mm		Mounting depth ② in inches	Weight (lbs)	Catalog number	List price
5.2/130		4.3 – 6.0	0.08	OXP6X130-45	\$ 12
8.3/210		7.4 – 9.1	0.13	OXP6X210-45	16
11.4/290		10.5 – 12.2	0.18	OXP6X290-45	20
14.2/360		13.3 – 15.0	0.23	OXP6X360-45	24

Direct mount handle

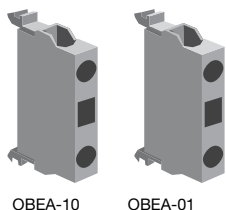
Item	Weight (lbs)	Catalog number	List price
Mounts directly on switch. No shaft necessary.	0.05	OHB13	\$ 22

① A snap on fourth pole may be added – please reference accessories page 18.21.

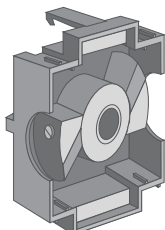
② Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

125A Accessories

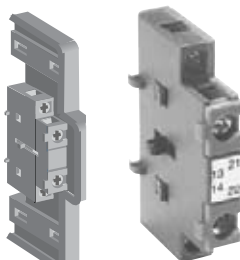
Disconnect
switches
Non-fusible



OBEA-10 OBEA-01



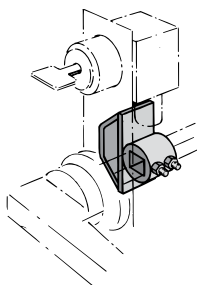
OEZNP1



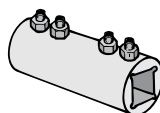
OAZX1 OA2G11



OTP_160EP



OETL-ZW16



OETL-ZX167
OETL-ZX95

Auxiliary contacts, top mounted

- Accepts four contacts maximum, mounting base always required

Description	For use with:	Weight (lbs)	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. 1 N.C.	OEZNP1 OT160	0.07	10 10	600 600	OBEA-10 OBEA-01	\$ 28 28
1 N.O. gold plated ^① 1 N.C. gold plated ^①	OEZNP1 OT160	0.07	10 10	600 600	OBEA-10AU OBEA-01AU	56 56
Mounting base – required for OBEA_	OBEA_	0.06	—	—	OEZNP1	20

Auxiliary contacts, side mounted

- Accepts four contacts maximum

Description	For use on:	Weight (lbs)	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. & 1 N.C.	OT160 OT160	0.07 0.06	10 —	600 —	OA2G11 OAZX1	\$ 40 20

Max. two contacts on each side of switch. One mounting base required for each side of switch

Numbering stickers ^②

Description	For use on:	Package qty.	Catalog number	List price
1 Pkg. of blank labels for OBEA-10, 1 N.O.	OT160	10	OBEA-ZX10	\$ 32
1 Pkg. of blank labels for OBEA-01, 1 N.C.	OT160	10	OBEA-ZX01	32

Power pole — for use with base or door mounted switch

- Only one power pole per switch
- Mounts on left or right side of switch

Description	For use on:	Weight (lbs)	AC thermal amp rating	AC rated voltage	Catalog number	List price
Fourth pole	OT160	0.66	125	600	OTPS160EP	\$ 100

Terminal poles — for use with base or door mounted switch

- Switch accepts one terminal pole per side
- Mounts on left or right side of switch

Description	For use on:	Weight (lbs)	AC thermal amp rating	AC rated voltage	Catalog number	List price
Detachable neutral mounts on side of switch or DIN rail	OT160	0.66	125	600	OTPN160EP	\$ 100
Ground terminal	OT160	0.66	125	600	OTPE160EP	100

Locking accessories

Description	For use on:	Weight (lbs)	Catalog number	List price
Cam attachment for Kirk Key, Castell, Lowe & Fletcher and Ronis interlock. For adapting to the interlock system The interlock is not included.	5, 6 & 8mm shafts	0.29	OETL-ZW16	\$ 190

Handle support bracket

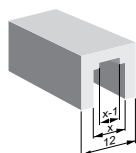
Description	For use on:	Weight (lbs)	Catalog number	List price
Allows pistol handle to be directly mounted to switch behind the door	OT160	0.33	OHZX5	\$ 24

Shaft extension couplers

Description	For use on:	Weight (lbs)	Catalog number	List price
Joins two shafts together for applications where extended length is required	for 6mm shafts	0.26	OESA-ZX167	\$ 56

^① Type _AU for low energy applications. The contacts are gold-plated. AC & DC ratings — Maximum: A600 & P600. Minimum: 12V, 1mA;
5V, 2mA
^② Required if several contact blocks are used in the same installation.

125A Accessories



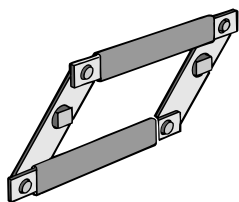
OETL-ZK19
(X = 6mm)



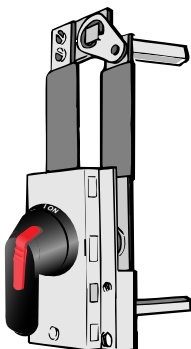
CXBY68005



OTZS2



OESA-ZW2



OESA-ZW1



OTZW10

Shaft adapter

Description	For use on:	Weight (lbs)	Catalog number	List price
Adapts one end of a 5 or 6mm shaft to 12mm Use with shaft extension coupler	5 & 6mm shafts	0.20	OETL-ZK19	\$ 40

Power pole interlock (replacement part)

Description	For use on:	Weight (lbs)	Catalog number	List price
Interlocks a power pole with an adjacent power pole	OT160	0.05	CXBY68005	\$ 12

Replacement collar (optional replacement for knob)

Description	For use on:	Weight (lbs)	Catalog number	List price
Red knob (like original) for locking shaft in place ** re-use original set screw **	OT160	0.05	CXBY68100	\$ 2
Metal collar replaces original red knob for locking shaft in place	OT160	0.05	OTZS2	13
Set screw	OT160	—	FLAKM5X10X	2

Conversion mechanisms

- For use with Base and Din rail mounted switches only
- Switches are not included

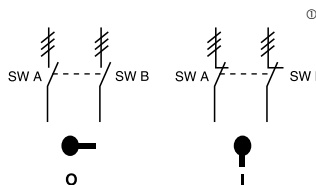
Description	For use on:	Weight (lbs.)	UL/NEMA type	Catalog number	List price
6 or 8 pole	OT160	1.52	—	OESA-ZW2	\$ 220
Transfer		2.20	Type 1,3R,12	OESA-ZW1	300
Transfer		2.20	Type 1,3R,4,4X,12	OESA-ZW1X	340
Mechanical interlock		0.55	—	OTZW10	100

6 or 8 pole — OESA-ZW2

6 (8) pole mechanism allows two switches controlled by one handle, to open or close simultaneously.

Equipment required for a complete installation:

- Includes OHB145J12 handle
- One conversion mechanism
- Two disconnect switches
- Two shafts (see page 18.20)



	POS. O	POS. I
SW. A	O	X
SW. B	O	X

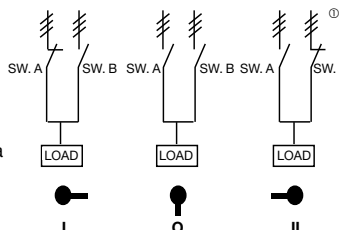
X = Closed
O = Open

Transfer — OESA-ZW1

Transfer mechanism manually transfers between two power sources using two switches and a center OFF position. A 3 position handle is included.

OHB80J6E011 (UL Type 1, 3R & 12) or OHB80L6E011 (UL Type 1, 3R, 4, 4X, 12) Shafts included. Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see page 18.20)



	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

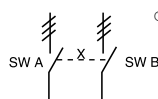
X = Closed
O = Open

Mechanical interlock — OTZW10

Mechanical interlock mechanism prevents both switches from being in the ON position at the same time.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see page 18.20)
- Two handles (see page 18.20)
- Two shafts (see page 18.20)



	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

Drawing and mounting information found on pg 18.66

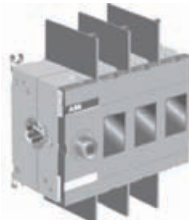
① ≡ Three poles

200A

Disconnect
switches
Non-fusible

For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



OT200U03



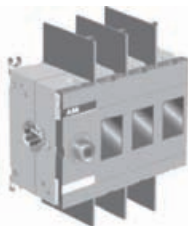
OXP6X210



OHB80J6



OZXA-200



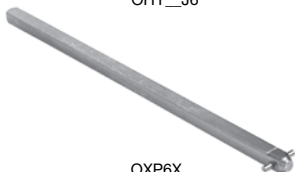
OT200U03



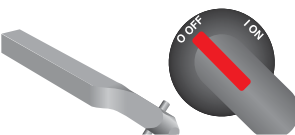
OHB__J6



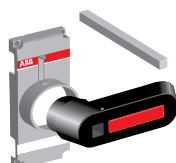
OHY__J6



OXP6X__



OXP6X360-45



OTV250EK

200 Amp switches, 600V

UL general purpose amp rating	IEC AC21 Amp rating	Maximum horsepower rating			Catalog number	List price
		Three phase				
		240V	480V	600V		
2 pole 200	250	75	150	200	OT200U02	\$ 560
3 pole 200					OT200U03 OT200U12 OT200U30	620
4 pole 200					OT200U04 OT200U13 OT200U22 OT200U40	780

Pistol handles — for use with shafts □ .24 x .24" (□ 6 x 6mm)

UL/NEMA type	IEC type	Color	Length mm	Marking	Defeat- able	Padlock- able	Weight (lbs)	Catalog number	List price
1,3R,12	IP65	Black	3.1/80	O/I & Off/On	Yes	Yes	0.30	OHB80J6	\$ 90
1,3R,12	IP65	Red/Yel	3.1/80	O/I & Off/On	Yes	Yes	0.30	OHY80J6	
1,3R,4,4X,12	IP66	Black Red/Yel	3.1/80	O/I & Off/On	Yes	Yes	0.30	OHB80L6 OHY80L6	130
1,3R,4,4X,12	IP66	Stainless Steel	2.6/65	O/I & Off/On	Yes	Yes	1.60	OHM65L6	750

Shafts for use with pistol grip handles □ .24 x .24" (□ 6 x 6mm)

Length in / mm	Mounting depth ① in inches OT200U	Weight lbs	Catalog number	List price
5.1 / 130	4.3 - 6.5	0.08	OXP6X130	\$ 12
5.9 / 150	5.0 - 7.2	0.10	OXP6X150	12
8.3 / 210	7.4 - 9.6	0.13	OXP6X210	16
11.4 / 290	10.5 - 12.7	0.18	OXP6X290	20
14.2 / 360	13.3 - 15.5	0.23	OXP6X360	24
16.9 / 430	16 - 18.2	0.28	OXP6X430	28

Twisted shafts — Rotates handle 45° □ .24 x .24" (□ 6 x 6mm)

Shaft length (inches/mm)	Mounting depth ① in inches OT200	Weight lbs	Catalog number	List price
5.2 / 130	4.29 - 6.85	0.08	OXP6X130-45	\$ 12
8.3 / 210	7.44 - 10.0	0.13	OXP6X210-45	16
11.4 / 290	10.59 - 13.15	0.18	OXP6X290-45	20
14.2 / 360	13.34 - 15.9	0.23	OXP6X360-45	24

Direct mount handle Test-OFF ON

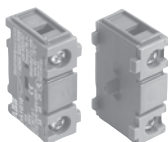
Item	Weight lbs	Catalog number	List price
Up to 3 padlocks in OFF-position. Includes shaft and mechanism	.22	OTV250EK OTVY250EK	\$ 105

① Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

200A Accessories



OZXA-200



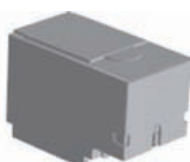
OA1G_



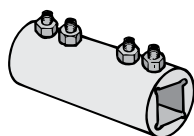
OEA28



OTS250G1L/3



OTS250G1S/3



OETL-ZX95

Terminal lug kits

For use on	Wire size	Wire type	Lugs /kit	Weight lbs.	Catalog number	List price
OT200_	#4 - 300kcmil	Cu /Al	6	.5	OZXA-200	\$ 80
	#4 - 300kcmil		3	0.25	OZXA-200/3	40
	(6) 14-6 AWG		3	0.25	OZXA-206T	200

Auxilliary contacts blocks

Mounting on the left side of the switch: Max 8 auxilliary contact blocks with the OEA28 module

Mounting under the mechanism cover: Max 4 auxilliary contact blocks

Function	Protection degree	Weight lbs	Catalog number	List price
1 NO 1 NC	IP20	0.07	OA1G10 OA3G01	\$ 20

Module for auxilliary contacts

Description	Weight lbs	Catalog number	List price
Screw mounting to the left side of the switch	0.1	OEA28	\$ 50

Terminal shrouds

Snap-on mounting, grey plastic, IP30. Transparent shrouds available on request.

Includes 3 shrouds for either line or load side

For use with:	Description	Number of poles	Weight lbs	Catalog number	List price
OT200_	Long type	3	0.20	OTS250G1L/3	\$ 50
	Short type	3	0.13	OTS250G1S/3	50
	Long type	4	0.26	OTS250G1L/4	65
	Short type	4	0.18	OTS250G1S/4	61

Shaft extension coupler

Description	For use on:	Weight (lbs.)	Catalog number	List price
Joins two shafts together for applications where extended length is required	6mm shafts	0.26	OESA-ZX167	\$ 56

Shaft adapter

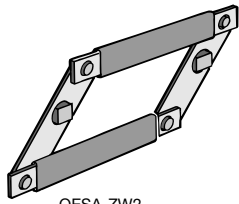
Description	For use on:	Weight (lbs.)	Catalog number	List price
Adapts one end of a 5 or 6mm shaft to a 12mm shaft. Use with shaft extension coupler.	5 or 6mm shafts	0.20	OETL-ZK19	\$ 40

Set screw (replacement part)

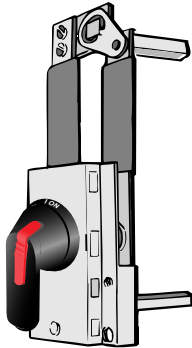
Description	For use on:	Weight (lbs.)	Catalog number	List price
Set screw	OT200	—	FLSWMSX6X	\$ 2

200A Accessories

Disconnect
switches
Non-fusible



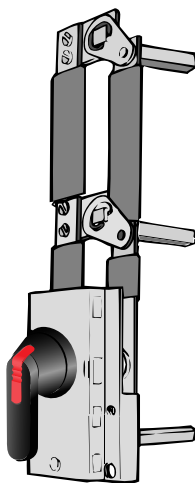
OESA-ZW2



OESA-ZW1



OTZW10



OTZW26

Conversion mechanisms

- For use with Base and Din rail mounted switches only
- Switches are not included

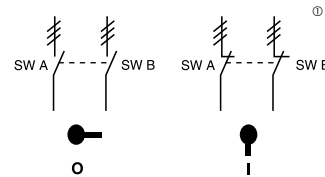
Description	For use on:	Weight (lbs.)	UL/NEMA type	Catalog number	List price
6 or 8 pole	OT200	1.52	—	OESA-ZW2	\$ 220
Transfer		2.20	Type 1,3R,12	OTZW25	790
Transfer		2.20	Type 1,3R,4,4X,12	OTZW25X	840
Mechanical interlock	OS200	0.55	—	OTZW10	100
Bypass		7.28	1, 3R, 12	OTZW26	950

6 or 8 pole — OESA-ZW2

6 (8) pole mechanism allows two switches controlled by one handle, to open or close simultaneously.

Equipment required for a complete installation:

- Includes OHB145J12 handle
- One conversion mechanism
- Two disconnect switches
- Two shafts (see page 18.23)



	POS. O	POS. I
SW. A	O	X
SW. B	O	X

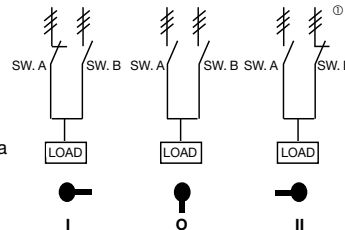
X = Closed
O = Open

Transfer — OTZW25, OTZW25X

Transfer mechanism manually transfers between two power sources using two switches and a center OFF position. A 3 position handle is included.

OHB80J6E011 (UL Type 1, 3R & 12) or OHB80L6E011 (UL Type 1, 3R, 4, 4X, 12) Shafts included. Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see page 18.23)



	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

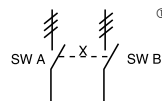
X = Closed
O = Open

Mechanical interlock — OTZW10

Mechanical interlock mechanism prevents both switches from being in the ON position at the same time.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see page 18.23)
- Two handles (see page 18.23)
- Two shafts (see page 18.23)



	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

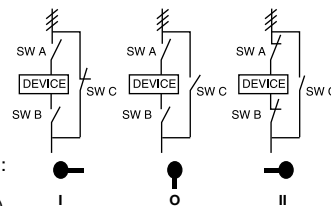
Bypass — OTZW26

Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass.

A 3-position handle is included: OHB-145J12E011 (Type 1,3R & 12) or OHB145L12E011 (Type 1, 3R, 4, 4X, 12) Shafts included.

Equipment required for a complete installation:

- One conversion mechanism
- Three disconnect switches (see page 18.23)



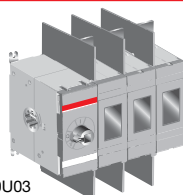
	POS. I	POS. O	POS. II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

X = Closed
O = Open

① ≡ Three poles

For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



OT400U03



OXP12X280



OHB145J12



OZXA-400

UL general purpose amp rating	IEC AC21 amp rating	Maximum horsepower rating			Catalog number	List price
		240V	480V	600V		
2 pole						
400	630	—	—	—	OT400U02	\$ 1280
600	800	—	—	—	OT600U02	2000
800	1250	—	—	—	OETL-NF800A2SW	2600
3 pole						
400	630	125	250	350	OT400U03	1420
400	630	125	250	350	OT400U30	1420
400	630	125	250	350	OT400U12	1420
600	800	200	400	500	OT600U03	2200
600	800	200	400	500	OT600U30	2200
600	800	200	400	500	OT600U12	2200
800	1250	250	500	600	OETL-NF800ASW	4200
4 pole						
400	630	125	250	350	OT400U04	1800
400	630	125	250	350	OT400U40	1800
400	630	125	250	350	OT400U22	1800
600	800	200	400	500	OT600U04	2800
600	800	200	400	500	OT600U22	2800
600	800	200	400	500	OT600U40	2800
—	1250	250	500	600	OETL-NF800A4SW	5200

Pistol handles — for use with shafts .47 x .47" (□ 12 x 12 mm)

UL/NEMA type	IEC type	Color	Length in/mm	Marking	Defeat- able	Padlock- able	Weight (lbs)	Catalog number	List price
1,3R,12	IP65	Blk	4.9/125	O/I & Off/On	Yes	Yes	0.39	OHB125J12	\$ 90
1,3R,12	IP65	R/Y	4.9/125				0.39	OHY125J12	90
1,3R,12	IP65	Blk	5.7/145				0.39	OHB145J12	90
1,3R,12	IP65	R/Y	5.7/145				0.39	OHY145J12	90
1,3R,12	IP65	Blk	6.9/175				0.41	OHB175J12	100
1,3R,12	IP65	R/Y	6.9/175				0.41	OHY175J12	100
1,3R,4,4X,12	IP66	Blk	5.7/145	O/I & Off/On	Yes	Yes	0.39	OHB145L12	130
1,3R,4,4X,12	IP66	R/Y	5.7/145				0.39	OHY145L12	130
1,3R,4,4X,12	IP66	Blk	6.9/175				0.41	OHB175L12	140
1,3R,4,4X,12	IP66	R/Y	6.9/175				0.41	OHY175L12	140
1,3R,4,4X,12	IP65	Metal	8.7/220	Off/On	—	Yes	1.50	YASDA-8	190
1,3R,4,4X,12	IP66	Stain- less	4.9/125	O/I & Off/On	Yes	Yes	1.70	OHM125L12	900
		Steel	6.9/175				1.80	OHM175L12	1100
			10.8/275				2.10	OHM275L12	1200

Shafts — for use with pistol handles .47 x .47" (□ 12 x 12 mm)

Shaft length inches/mm	Mounting depth ^① inches	Weight (lbs)	Catalog number	List price
11.0/280	10.2 – 14.5	0.77	OXP12X280	\$ 36
12.8/325	12.0 – 16.3	0.90	OXP12X325	40
15.6/395	14.8 – 19.1	1.10	OXP12X395	44
18.3/465	17.5 – 21.9	1.32	OXP12X465	48
21.1/535	20.3 – 24.6	1.54	OXP12X535	52

Twisted shafts — Rotates handle 45° .47 x .47" (□ 12 x 12 mm)

Shaft length inches/mm	Mounting depth ^① inches	Weight (lbs)	Catalog number	List price
11.0/280	10.2 – 14.5	0.77	OXP12X280-45	\$ 36
12.8/325	12.0 – 16.3	0.90	OXP12X325-45	40
18.3/465	17.5 – 21.9	1.32	OXP12X465-45	48

Direct mount handle

Item	Weight (lbs)	Catalog number	List price
Mounts on shaft.	.78	YASDA-33	\$ 150

① Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

Discount schedule H2: NF, 125A – 800A

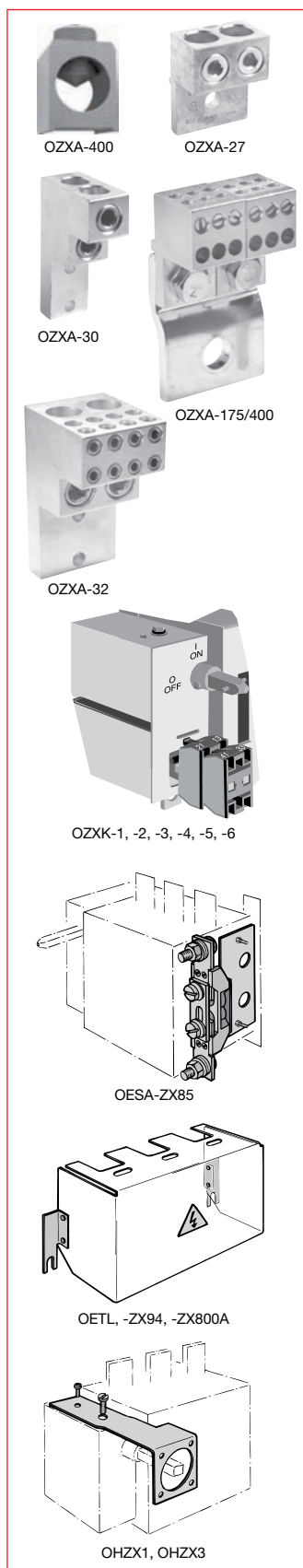
Discount schedule H6: Handles, shafts, accessories

Low Voltage Products & Systems

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400A – 800A Accessories

Disconnect
switches
Non-fusible



Terminal lug kits

For use on:	Wire size	Kit weight (lbs.)	Wire type	Terminal lugs per kit	Kit catalog number	List price
OT400	#2 – 600 kcmil	0.50	Cu/Al	6	OZXA-400	\$ 190
OT400	#2 – 600 kcmil	0.25		3	OZXA-400/3P	95
OT400	(2) #4 – 300 mcm	0.50		6	OZXA-402	210
OT400	(6) #14 – 6 AWG	0.50		3	OZXA-406	270
OT600	(2) #2 – 600 kcmil	0.50		6	OZXA-800	360
OT600	(2) #2 – 600 kcmil	0.50		3	OZXA-800/3	180
OETL-NF800A	(2) #2 – 600 kcmil	6.90		6	OZXA-30	740
OETL-NF800A	(2) #2 – 600 kcmil	3.45		3	OZXA-30/3P	370
OETL-NF800A ①	(8) 2/0 + (2)#2 600 kcmil	6.90		3	OZXA-32	600

Auxiliary contacts blocks

Mounting on the left side of the switch: Max 8 auxiliary contact blocks with the OEA28 module

Mounting under the mechanism cover: Max 4 auxiliary contact blocks

Function	For use on	Protection degree	Weight lbs	Catalog number	List price
1 NO 1 NC	OT400 – 600	IP20	0.07	OA1G10 OA3G01	\$ 20

Module for auxiliary contacts

Description	Weight lbs	Catalog number	List price
Screw mounting to the left side of the switch	0.1	OEA28	\$ 50

Auxiliary contacts ②

Description	For use on:	Weight (lbs)	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. + 1 N.C.	OETL-NF800A	0.20	10	600	OZXK-1	\$ 100
2 N.O. + 2 N.C.		0.26	10	600	OZXK-2	170
4 N.O. + 4 N.C.		0.40	10	600	OZXK-3	340
2 N.O.		0.18	10	600	OZXK-4	100
4 N.O.		0.25	10	600	OZXK-5	170
8 N.O.		0.40	10	600	OZXK-6	340

Terminal shrouds – OT400, OT600

Description	For use with:	Number of poles	Weight lbs	Catalog number	List price
3 Pole shrouds	OT400_	3	0.33	OTS403	\$ 113
	OT600_	3	0.33	OTS603	190

Terminal shrouds – OETL-NF800A

Description	For use on:	Weight (lbs)	Catalog number	List price
Includes one shroud for line or load side	OETL-NF800A	0.88	OETL-ZX800A	180

Direct mount handle – Test-OFF ON

Item	Weight lbs	Catalog number	List price
Up to 3 padlocks in OFF-position. Includes shaft and mechanism	.44	OTV400EK	\$ 130
		OTVY400EK	
		OTV800EK OTVY800EK	Consult factory

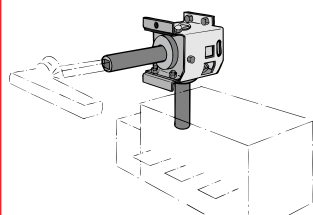
Handle support bracket

Description	For use on:	Weight (lbs)	Catalog number	List price
Allows handle to be directly mounted to switch behind the door	OETL-NF800A	0.88	OHZX3	\$ 30

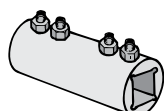
① A load side distribution lug eliminates the need to purchase, install and wire a separate distribution block.

② UL File E57057

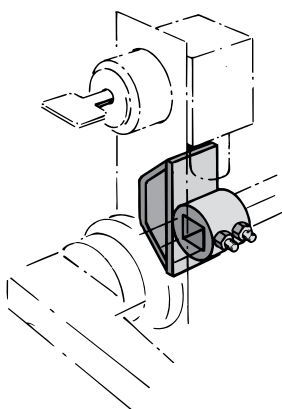
400A – 800A Accessories



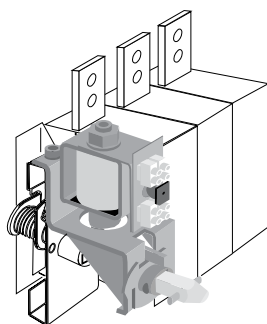
OETL-ZX108



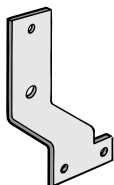
OETL-ZX95



OETL-ZW5



OETL-ZT80_



OETL-ZT100

90° angle kit

Description	For use on:	Weight (lbs)	Catalog number	List price
Converts switch mechanism from front operation to side operation	OT400, OT600 OETL-NF800A	4.63	OETL-ZX108	\$ 794

Shaft extension coupler

Description	For use on:	Weight (lbs)	Catalog number	List price
Joins two shafts together for applications where extended length is required	12mm shafts	0.26	OETL-ZX95	\$ 100

Locking accessories

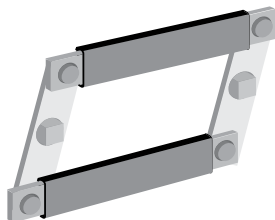
Description	For use on:	Weight (lbs)	Catalog number	List price
Cam attachment for Kirk Key, Castell, Lowe & Fletcher and Ronis interlock. For adapting to the interlock system. The interlock is not included.	12mm shafts	0.29	OETL-ZW5	\$ 190
Electrical interlock Closed circuit principle for interlocking the switch movement. When the coil circuit is dead, A-types cannot be operated to ON-position and L-types cannot be operated to ON- or OFF-position. Coil voltages 110VAC, 220VAC, 24VDC, 48VDC, 60 VDC, 110VDC, 220VDC, P = 15W U = 0.7 – 1.1 Un (U = coil voltage, Un = nominal voltage)	OT400 – 600 OETL-NF800A	2.42	OETL-ZT 80AΔ OETL-ZT 80LΔ	1280 1220



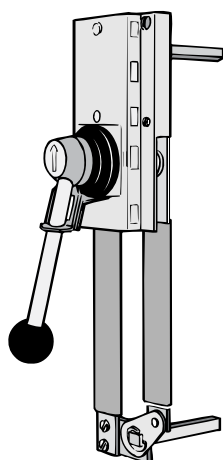
Δ – Coil voltage

400A – 800A Accessories

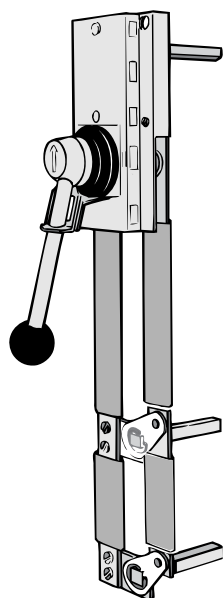
Disconnect
switches
Non-fusible



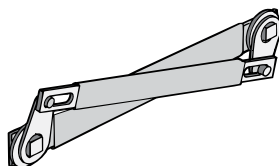
OETL-ZW9



OETL-ZW12



OETL-ZW13



OETL-ZW3, -ZW14, -ZW15

Conversion mechanisms

- Switches are not included

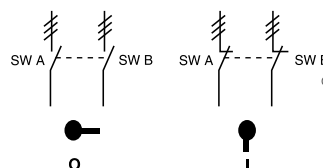
Description	For use on:	Weight (lbs)	UL/NEMA type	Catalog number	List price
6 or 8 pole Transfer Bypass	OT400 – 600	2.42	—	OETL-ZW9	\$ 260
		10.1	1,3R,4,4X,12	OETL-ZW12	560
		8.81	1,3R,4,4X,12	OETL-ZW13	560
Mechanical interlock	OETL-NF800A	1.26	—	OETL-ZW3	140
		1.15	—	OETL-ZW14	140
		2.64	—	OETL-ZW15	160

6 or 8 pole — OETL-ZW9

6 (8) pole mechanism allows two switches controlled by one handle to open or close simultaneously.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see page 18.26)
- One handle (see page 18.26)
- Two shafts (see page 18.26)



	POS.O	POS.I
SW. A	O	X
SW. B	O	X

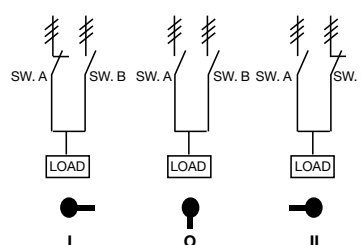
X = Closed
O = Open

Transfer — OETL-ZW12

Transfer mechanism manually transfers between two power sources using two switches and a center OFF position. A 3 position handle is included. YASDA-21 (UL Type 1, 3R, 4, 4X, 12). Shafts included.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see page 18.26)



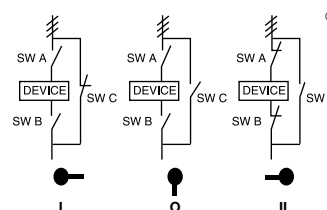
	POS. I	POS.O	POS.II
SW. A	X	O	O
SW. B	O	O	X

X = Closed
O = Open

Bypass — OETL-ZW13

Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass. A 3 position handle is included. YASDA-6 (UL Type 1, 3R, 4, 4X, 12). Shafts included.

- Equipment required for a complete installation:
- One conversion mechanism
 - Three disconnect switches (see page 18.26)



	POS. I	POS.O	POS.II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

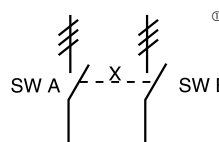
X = Closed
O = Open

Mechanical interlock — OETL-ZW3, OETL-ZW14, OETL-ZW15

Mechanical interlock mechanism prevents both switches from being in the ON position at the same time.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see page 18.26)
- Two shafts (see page 18.26)
- Two handles (see page 18.26)



	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

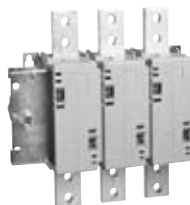
Drawing and mounting information found on pg 18.67 & 18.68

① ≡ Three poles

1200A – 3150A

For a complete assembly
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



OETL-NF1200ASW



OXP12X280



OHB175J12



OZXA-28

1200 – 3150 Amp switches, 600V

UL general purpose amp rating	IEC AC21 amp rating	Maximum horsepower rating	Catalog number	List price
2 pole			2 pole	
1200	1600	The US National Electric Code does not specify HP ratings for switches this large. Please select a switch based on 115% of application FLA. For example: a motor with an FLA of 800A would require a 1200A switch: 800A x 115% = 920A, the closest higher rated switch is 1200A.	OETL-NF12002SW	\$ 6200
1600	2500		OETL-NF16002SW	14,800
2000	2500		OETL-NF20002SW	15,500
—	3150		OETL-NF31502SW	17,000
3 pole			3 pole	
1200	1600		OETL-NF1200SW	6800
1600	2500		OETL-NF1600SW	16,400
2000	2500		OETL-NF2000SW	17,200
—	3150		OETL-NF3150SW	18,900
4 pole			4 pole	
—	1600		OETL-NF12004SW	8600
—	2500		OETL-NF16004SW	20,500
—	2500		OETL-NF20004SW	21,500
—	3150		OETL-NF31504SW	23,600



OETL-NF1600SW
OETL-NF2000SW
OETL-NF3150SW



OHB_J12



OHY_J12




YASDA-8

Pistol handles — for use with shaft □ .47 x .47" (□ 12 x 12mm)

UL/NEMA type	IEC type	Color	Length mm	Marking	Defeat- able	Padlock- able	Weight lbs	Catalog number	List price
For use with OETL-NF1200									
1,3R,12	IP65	Black	5.7/145	O/I & Off/On	Yes	Yes	0.39	OHB145J12	\$ 90
		Red/Yel	5.7/145				0.39	OHY145J12	90
		Black	6.9/175				0.41	OHB175J12	100
		Red/Yel	6.9/175				0.41	OHY175J12	100
1,3R,4,4X,12	IP66	Black	5.7/145	O/I & Off/On	Yes	Yes	0.39	OHB145L12	130
		Red/Yel	5.7/145				0.39	OHY145L12	130
		Black	6.9/175				0.41	OHB175L12	140
		Red/Yel	6.9/175				0.41	OHY175L12	140
1,3R,4,4X,12	IP65	Metal	8.7/220	Off/On	—	Yes	1.50	YASDA-8	190
1,3R,4,4X,12	IP66	Stainless steel	6.9/175 10.8/275	O/I & Off/On	Yes	Yes	1.80 2.10	OHM175L12 OHM275L12	1100 1200
For use with OETL-NF1600 – OETL-NF3150									
1,3R,4,4X,12	IP65	Metal	8.7/220	Off/On	—	Yes	1.50	YASDA-8	190
1,3R,4,4X,12	IP66	Stainless steel	6.9/175 10.8/275	O/I & Off/On	Yes	Yes	1.80 2.10	OHM175L12 OHM275L12	1100 1200

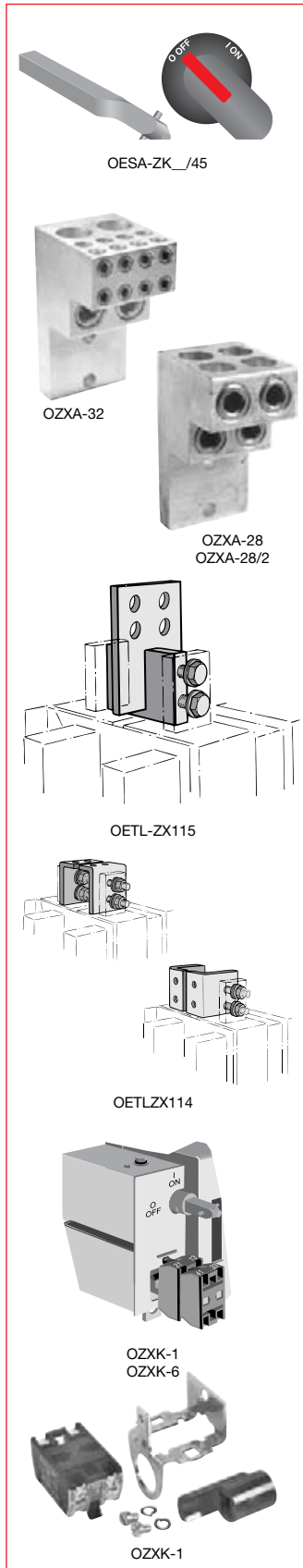
Shafts — for use with pistol handles □ .47 x .47" (□ 12 x 12 mm)

Shaft length inches/mm	 Mounting depth ^① inches	Weight (lbs)	Catalog number	List price
For use with OETL-NF1200				
11.0/280	11.6 – 15.3	0.77	OXP12X280	\$ 36
12.8/325	13.7 – 17.1	0.90	OXP12X325	40
15.6/397	16.2 – 19.9	1.10	OXP12X395	44
18.3/465	18.9 – 22.6	1.32	OXP12X465	48
21.1/535	21.7 – 25.4	1.54	OXP12X535	52
For use with OETL-NF1600 – OETL-NF3150				
12.8/325	13.7 – 17.1	0.90	OXP12X325	40
15.6/397	16.2 – 19.9	1.10	OXP12X395	44
18.3/465	18.9 – 22.6	1.32	OXP12X465	48
21.1/535	21.7 – 25.4	1.54	OXP12X535	52

① Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

1200A – 3150A Accessories

Disconnect
switches
Non-fusible



Twisted shafts – Rotates handle 45° □ .47 x .47" (□ 12 x 12 mm)

Shaft length inches/mm	Mounting depth ① in inches	Weight (lbs)	Catalog number	List price
For use with OETL-NF1200				
11.0/280	11.6 – 15.3	0.77	EXP12X280-45	\$ 36
12.8/325	13.7 – 17.1	0.90	EXP12X325-45	40
18.3/465	18.9 – 22.6	1.32	EXP12X465-45	48

For use with OETL-NF1600 – OETL-NF3150

12.8/325	16.2 – 19.9	0.90	EXP12X325-45	40
18.3/465	18.9 – 22.6	1.32	EXP12X465-45	48

Terminal lug kits

For use on:	Wire size	Kit weight (lbs.)	Wire type	Terminal lugs per kit	Kit catalog number	List price
OETL-NF1200 & OETL-NF1600	(4) #2 – 600 kcmil	10.44	Cu/Al	6	OZXA-28	\$ 1000
OETL-NF1200 & OETL-NF1600	(4) #2 – 600 kcmil	5.22	Cu/Al	3	OZXA-28/3P	500
OETL-NF1200 & OETL-NF1600②	(8) 2/0 + (2) #2 600kcmil	10.44	Cu/Al	3	OZXA-32	600
OETL-NF2000 & OETL-NF3150	(8) #2 – 600kcmil	20.88	Cu/Al	12	OZXA-28/2	2000

OZXA-32 Power distribution lugs eliminate the need to purchase a separate distribution block

Busbar connections

Description	For use on:	Weight (lbs)	Catalog number	List price
Vertical ③, back or edgewise mounting	OETL-NF1600 – OETL-NF3150	46.2 31.0	OETL-ZX115 OETL-ZX114	\$ 3920 2820

Auxiliary contacts

Description	For use on:	Weight (lbs)	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. + 1 N.C.	OETL-NF1200 – OETL-NF31500	0.20	10	600	OZXK-1	\$ 100
2 N.O. + 2 N.C.		0.26	10	600	OZXK-2	170
4 N.O. + 4 N.C.		0.40	10	600	OZXK-3	340
2 N.O.		.18	10	600	OZXK-4	100
4 N.O.		0.25	10	600	OZXK-5	170
8 N.O.		0.40	10	600	OZXK-6	340

Terminal shrouds

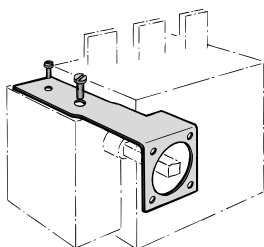
Description	For use on:	Weight (lbs)	Catalog number	List price
Includes one shroud for line or load side	OETL-NF1200	1.20	OETL-ZX119	\$ 220

Direct mount handle

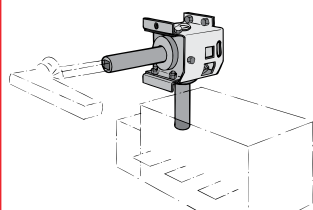
Item	Catalog number	List price
Mounts on shaft.	YASDA-34	\$ 180

① Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.
② A load side distribution lug eliminates the need to purchase, install and wire a separate distribution block.
③ Provided as standard with OETL-NF1600, OETL-NF2000 and OETL-NF3150.

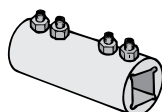
1200A – 3150A Accessories



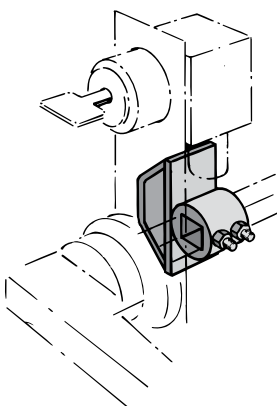
OHZX3



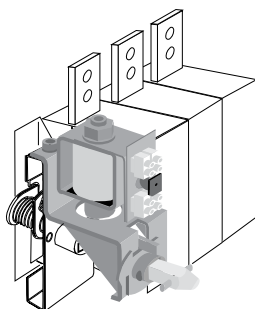
OETL-ZX108



OETL-ZX95



OETL-ZW5



OETL-ZT80

Handle support bracket

Description	For use on:	Weight (lbs)	Catalog number	List price
Allows handle to be directly mounted to switch behind the door	OETL-NF1200 – OETL-NF3150	0.88	OHZX3	\$ 30

90° angle kit

Description	For use on:	Weight (lbs)	Catalog number	List price
Converts switch mechanism from front operation to side operation	OETL-NF1200 – OETL-NF3150	4.63	OETL-ZX108	\$ 794

Shaft extension coupler

Description	For use on:	Weight (lbs)	Catalog number	List price
Joins two shafts together for applications where extended length is required	12mm shafts	0.26	OETL-ZX95	\$ 100

Locking accessories

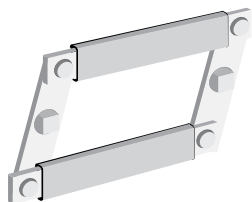
Description	For use on:	Weight (lbs)	Catalog number	List price
Cam attachment for Kirk Key, Castell, Lowe & Fletcher and Ronis interlock. For adapting to the interlock system. The interlock is not included.	12mm shafts	0.29	OETL-ZW5	\$ 190
Electrical interlock Closed circuit principle for interlocking the switch movement. When the coil circuit is dead, A-types cannot be operated to ON-position and L-types cannot be operated to ON- or OFF-position. Coil voltages 110VAC, 220VAC, 24VDC, 48VDC, 60 VDC, 110VDC, 220VDC, P = 15W $U = 0.7 - 1.1 U_n$ (U = coil voltage, U_n = nominal voltage)	OETL-NF1200 OETL-NF3150	2.42	OETL-ZT80A/ Δ OETL-ZT80L/ Δ	1280 1220



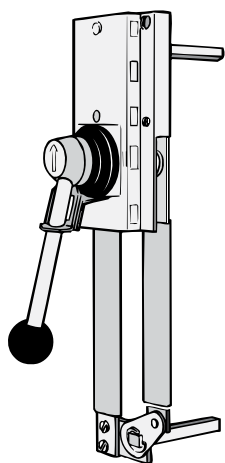
Δ = Coil voltage

1200A – 3150A Accessories

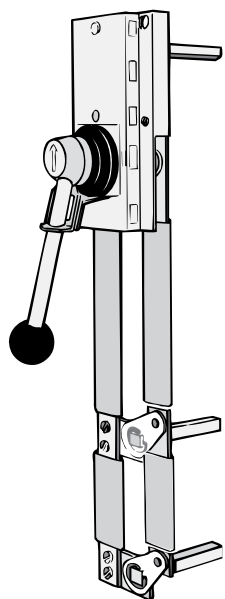
Disconnect
switches
Non-fusible



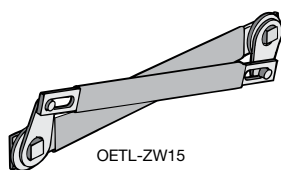
OETL-ZW9



OETL-ZW12



OETL-ZW13



OETL-ZW15

Conversion mechanisms

- Switches are not included

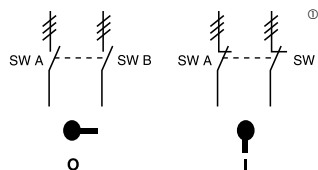
Description	For use on:	Weight (lbs)	UL/NEMA type	Catalog number	List price
6 or 8 pole Transfer Bypass	OETL-NF1200	2.42	—	OETL-ZW9	\$ 280
		10.1	1,3R,4,4X,12	OETL-ZW12	560
		8.81	1,3R,4,4X,12	OETL-ZW13	560
Mechanical interlock	OETL-NF1200 – OETL-NF3150	2.64	—	OETL-ZW15	160

6 or 8 pole — OETL-ZW9

6 (8) pole mechanism allows two switches controlled by one handle to open or close simultaneously.

Equipment required for a complete installation:

- One conversion mechanism.
- Two disconnect switches (see page 18.30)
- One handle (see page 18.30)
- Two shafts (see page 18.30)



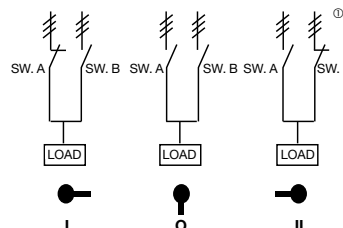
	POS. O	POS. I
SW. A	O	X
SW. B	O	X

X = Closed
O = Open

Transfer — OETL-ZW12

Transfer mechanism manually transfers between two power sources using two switches and a center OFF position. A 3 position handle is included. YASDA-21 (Type 1, 3R, 4, 4X, 12). Shafts included. Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see page 18.30)



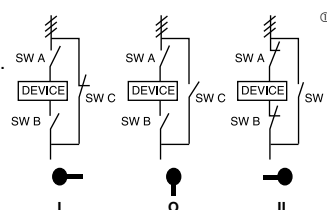
	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

X = Closed
O = Open

Bypass — OETL-ZW13

Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass. A 3 position handle is included. YASDA-6 (Type 1, 3R, 4, 4X, 12). Shafts included. Equipment required for a complete installation:

- One conversion mechanism
- Three disconnect switches (see page 18.30)



	POS. I	POS. O	POS. II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

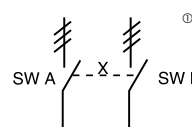
X = Closed
O = Open

Mechanical interlock — OETL-ZW15

Mechanical interlock mechanism prevents both switches from being in the "ON" position at the same time. Handles are not included.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see page 18.30)
- Two shafts (see page 18.30)
- Two handles (see page 18.30)



	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

Drawing and mounting information found on pg 18.67 & 18.68

① = Three poles

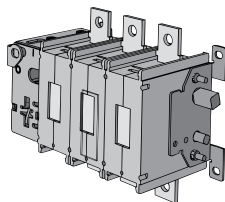
Other configurations

Side operated

30A – 800A ①②

For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



OETL-NF200A-S



OXP8X240



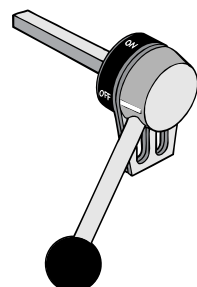
OHB80J8TE00S



OSNF30-S



OHY_J_



OETL-ZX74



OXP5X170
OXP8X240
OXP12X325



OZXA-24



OZXA-25



OZXA-26



OZXA-27

Side operated switches – 3 pole

UL general purpose amp rating	IEC AC21 amp rating	Maximum horsepower rating			Weight (lbs)	Catalog number	List Price
		Three phase					
		240V	480V	600V			
30	32	7.5	15	20	1.90	OSNF30-S	\$ 380
60	63	15	30	50	3.90	OSNF60-S	560
100	125	30	60	75	4.50	OSNF100-S	660
200	250	75	150	200	6.61	OETL-NF200A-S	780
400	630	125	250	350	13.66	OETL-NF400-S	1500
600	800	200	400	500	13.66	OETL-NF600A-S	2400

Handles

UL/NEMA type		Color	Length inches/mm	Marking	Defeat- able	Padlock- able	Weight (lbs)	Catalog number	List price
For use with OSNF30-S									
1, 12, 3R		Black	2.65/65	O/I & Off/On	Yes	Yes	0.29	OHB65J5	\$ 80
1, 12, 3R		Red/Yel	2.65/65	O/I & Off/On	Yes	Yes	0.29	OHY65J5	
For use with OSNF60-S – OSNF100-S									
1, 12, 3R		Black	3.1/80	O/I & Off/On	Yes	Yes	0.30	OHB80J6	80
1, 12, 3R		Red/Yel	3.1/80	O/I & Off/On	Yes	Yes	0.30	OHY80J6	
For use with OETL-NF200A-S									
1, 12, 3R		Black	3.1/80	O/I & Off/On	Yes	Yes	0.30	OHB80J8	80
1, 12, 3R		Red/Yel	3.1/80	O/I & Off/On	Yes	Yes	0.30	OHY80J8	
For use with OETL-400DM1 – OETL-NF600A-S									
1, 12, 3R		Black	4.9/145	O/I & Off/On	Yes	Yes	0.39	OHB145J12	80
1, 12, 3R		Red/Yel	4.9/145	O/I & Off/On	Yes	Yes	0.39	OHY145J12	80
1, 12, 3R		Metal	4.9/145	Off/On	Yes	Yes	1.50	OETL-ZX74	190

Shafts

For use with:	Length inches/mm	Description	Weight (lbs)	Catalog number	List price
OSNF30-S	6.7/170	.20 x .20" (5 x 5mm)	0.08	OXP5X170	\$ 16
OSNF60-S – OSNF100-S	8.3/210	.24 x .24" (6 x 6mm)	0.10	OXP6X210	16
OETL-NF175-S – OETL-NF200A-S	9.5/240	.31 x .31" (8 x 8mm)	0.26	OXP8X240	24
OETL-NF400-S – OETL-NF600A-S	12.8/325	.47 x .47" (12 x 12mm)	0.90	OXP12X325	40

Terminal lug kits

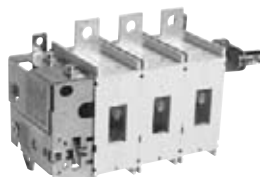
For use on:	Wire size	Weight	Wire type	Lugs per kit	Catalog number	List price
OSNF30-S	#18 – 8	—	Cu	—	Integral	—
OSNF60-S	#14 – 4	—	Cu	—	Integral	—
OSNF100-S	#14 – 2/0	0.43	Cu/Al	6	OZXA-24	\$ 24
OETL-NF200A-S	#6 – 300 kcmil	0.93	Cu/Al	6	OZXA-25	80
OETL-NF400-S	#2 – 600 kcmil	3.520	Cu/Al	6	OZXA-26	190
OETL-NF600A-S	(2) #2 – 600 kcmil	4.62	Cu/Al	6	OZXA-27	380

① Side operated switches available through 800A as IEC rated.
② Please consult factory for additional information.

Flange operated Shaft operated non-fusible 30A - 200A

Disconnect
switches
Non-fusible

For a complete assembly, please select one of each.



Switch



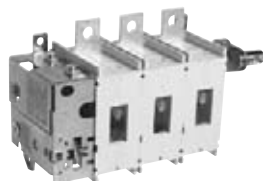
Handle



Shaft



Lug kit (as required)



OETL-NF200A-F



DSFHN-HS12



DSFHS-12

30A -200A Flange operated non fusible switches (Shaft) - 3 pole

UL general purpose amp rating	Maximum horsepower rating			Catalog number	List price
	Three phase				
	240V	480V	600V		
30	10	20	30	OT30E3-F	\$ 500
60	20	40	40	OT60E3-F	590
100	25	50	40	OT100E3-F	690

Flange handles for use with OT30_, OT60_, OT100_ and OETL-NF200_

UL/ NEMA type	Marking	Defeatable	Padlock- able	Catalog number	List price
1, 3R, 12	OFF/ON	Yes	Yes	DSFHN-HS12	\$ 156
4, 4X	OFF/ON	Yes	Yes	DSFHN-HS4	240

Shafts

For use with:	Maximum enclosure depth (inches)	Catalog number	List price
OT30_ - OT100_	16	OTFS-16	\$ 25
OT30_ - OT100_	24	OTFS-24	30

Flange operated fusible and non-fusible disconnect switches

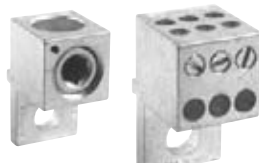
ABB's solution for complying with the new NFPA79 requirements is Flange Operated Fusible and Non-fusible Disconnect Switches.

New 2002 NFPA 79 changes requires main disconnecting means to be operable without the use of accessory tools or devices, independent of door position. This code also includes an interlocking provision to prevent the closing of disconnects while the enclosure door is open, unless an interlock is operated by a deliberate action.

The flange operated disconnect switches are available as ridged shaft or flexible cable operated versions. The cable operated version allows you to install the disconnect switch anywhere in the enclosure depending on the length of the cable. Cables are available in lengths up to 84 inches.

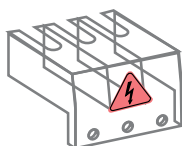
The designs are cost-effective NFPA 79 solutions offering quick and easy installation.

Flange operated Shaft operated non-fusible 30A - 200A

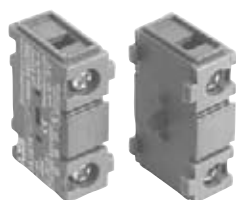


OZXA-25

OZXA-175



OTS125T3



OA1G_

Terminal lug kit and accessories

For use on:	Description	Wire size	Wire type	Qty.	Catalog number	List price
OT30E3-F	Lug	#14 - #4	Cu	--	Integral	--
OT60E3-F	Lug	#14 - #4	Cu	--	Integral	--
OT100E3-F	Lug	#8 - 1/0	Cu	--	Integral	--
OT30_ - OT100_	Shroud	Includes one shroud for line or load side		1	OTS125T3	20
OT30_ - OT100_	Aux. Contact	1 NO		1	OA1G10	20
		1 NC		1	OA1G01	20
		1 NO + 1 NC		1	OA2G11	40

Door hardware NEMA 12

Item	Catalog number	List price
Safety door latch, 2 point, door less than 40" high	KDH2R	\$ 200
Safety door latch, 3 point, door greater than 40" high	KDH3R	225

Discount schedule H1: NF16A - 100A

Discount schedule H2: NF125A - 800A

Discount schedule H6: Handles, shafts, accessories and lug kits

Discount schedule SH: Door hardware kits

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Flange operated Cable operated non-fusible 30A - 200A

Disconnect
switches
Non-fusible

For a complete assembly, please select one of each.



Switch



Handle



Cable



Lug kit (as required)



OT100E3



OHF1C12



OXC1L36-
OXC1L84

Non-fusible

UL general purpose amp rating	Maximum horsepower rating			Catalog number	List price
	Three phase				
	240V	480V	600V		
30	10	20	30	OT30E3	\$ 150
60	20	40	40	OT60E3	175
100	30	50	50	OT100E3	200
125	40	75	100	OT160E3	420
200	75	150	200	OT200U30	620

Flange handles - UL98; UL file #E101914

For use with:	Environmental rating	Catalog number	List price
OT30 - 160E3 OT200U30	NEMA 1, 3R, 12	OHF1C12	\$ 213
	NEMA 4, 4X	OHF1C4	243

Flexible Cables

For use with:	Cable length (inches)	Catalog number	List price
OT30 - OT160E3 OT200U30	36	OXC1L36	\$ 114
	48	OXC1L48	146
	60	OXC1L60	160
	72	OXC1L72	175
	84	OXC1L84	204

Operating Mechanisms

For use with:	Catalog number	List price
OT30 - 100E3 OT160E3 OT200U30	MKCS1	\$ 135
	MKCS3	162
	MKCS4	171

Terminal lug kits

For use with	Wire size	Wire type	Description	Lugs per kit	Catalog number	List price
OT30 - 60E3 OT100 - 160E3	#14 - 4	Cu	—	—	INTEGRAL	—
	#8 - 1/0	Cu	—	—	INTEGRAL	—
OT200U30	#4 - 300 Kcmil	Cu/Al	—	6	OZXA-200	\$ 80
	#4 - 300 Kcmil	Cu/Al	—	3	OZXA-200/3	40
	(6) #4-6 AWG	Cu/Al	Distribution lug	3	OZXA-206	200

Door hardware NEMA 12

Item	Catalog number	List price
Safety door latch, 2 point, door less than 40" high	KDH2R	\$ 200
Safety door latch, 3 point, door greater than 40" high	KDH3R	225

Discount schedule H2: NF125A - 800A
Discount schedule H6: Handles, shafts, accessories and lug kits
Discount schedule H3: NF1200A - 3150A
Discount schedule SH: Door hardware kits

Disconnect
switches
Non-fusible

Technical data

OT16E3 – OT160E3

UL & CSA

UL & CSA

Catalog number	3 pole	OT16E3	OT25E3	OT32E3	OT45E3	OT63E3	OT30E3	OT60E3	OT100E3	OT160E3
Approvals ^①	2 pole 3 pole 4 pole	N/A UL508 & IEC UL508 & IEC	N/A UL508 & IEC UL508 & IEC	N/A UL508 & IEC UL508 & IEC	N/A UL508 & IEC UL508 & IEC	N/A UL508 & IEC UL508 & IEC	N/A UL98 & IEC UL98 & IEC	N/A UL98 & IEC UL98 & IEC	N/A UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC
General purpose amp rating pf = 0.7 – 0.8	-40° to 40°C A	16	25	40	60	80	30	60	100	125
Max. operating voltage	V	600	600	600	600	600	600	600	600	600
Max. horsepower rating/motor FLA current, pf = 0.4 – 0.5 Three phase										
240V	HP/A	5/15.2	7.5/22.0	10/28.0	15/42.0	20/54.0	10/28.0	20/54.0	30/80.0	40/104.0
480V	HP/A	10/14.0	15/21.0	20/27.0	30/40.0	40/52.0	20/27.0	40/52.0	50/65.0	75/96.0
600V	HP/A	10/11.0	20/22.0	25/27.0	30/32.0	40/41.0	30/32.0	40/41.0	50/52.0	100/99.0
Single phase										
120V	HP/A	1/16	1.5/20	2/24	2/24.0	2/24.0	2/24.0	3/34.0	5/56.0	7.5/80
240V	HP/A	2/13.2	3/18.7	5/30.8	7.5/40.0	10/57.5	5/28.0	7.5/40.0	15/68.0	20/88.0
Short circuit rating with fuse										
Fuse type CC	kA	10	10	10	100	100	50	50	50	100
Fuse type J	kA	10	10	10	100	100	50	50	50	100
Fuse type T	kA	10	10	10	100	100	50	50	50	100
Fuse type RK1	kA	10	10	10	10	10	10	10	10	10
Fuse type RK5	kA	5	5	5	5	5	5	5	5	5
Fuse type L	kA	—	—	—	—	—	—	—	—	—
Fuse type H	kA	—	—	—	—	—	—	—	—	—
Maximum fuse size	A	30	60 ④	30	60 ④	100	150	60	150	200
3 cycle short circuit current withstand rating ⑤ kA		—	—	—	—	—	—	—	—	25
Endurances										
Min. Electrical endurance, pf = 0.75 – 0.80 operation cycles		6000	6000	6000	6000	6000	6000	6000	6000	6000
Min. Electrical endurance, pf = 0.40 – 0.50 operation cycles		1000	1000	1000	1000	1000	②	②	②	②
Mechanical endurance operations		20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	16,000
Physical characteristics										
Weight, switches 3 pole	lb	0.24	0.24	0.24	0.59	0.59	0.79	0.79	0.79	2.42
4 pole	lb	0.33	0.33	0.33	0.77	0.77	1.10	1.10	1.10	2.86
Dimension, switches 3 pole	H in	2.68	2.68	2.68	3.60	3.60	3.94	3.94	3.94	5.00
	W in	1.38	1.38	1.38	2.07	2.07	2.76	2.76	2.76	4.96
	D in	2.20	2.20	2.20	2.85	2.85	2.95	2.95	2.95	2.93
Shaft set screw tightening torque	lb. in.	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
Shaft size — square □	in	.20 x .20	.20 x .20	.20 x .20	.20 x .20	.20 x .20	.20 x .20	.20 x .20	.20 x .20	.24 x .24
	mm	5 x 5	5 x 5	5 x 5	5 x 5	5 x 5	5 x 5	5 x 5	5 x 5	6 x 6
Switch operating torque for rotary 3 pole switches	lb. in.	8.8	8.8	8.8	10.5	10.5	17.5	17.5	17.5	52.5
Terminal lug kits		Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required	Not required
Wire range	AWG	#18 – 8	#18 – 8	#18 – 8	#14 – 4	#14 – 4	#14 – 4	#14 – 4	#8 – 1/0	#8 – 1/0
Torque:										
Wire tightening	lb. in.	7	7	7	18	18	55	55	55	70
Lug mounting	lb. in.	Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral	Integral
Auxiliary contacts		OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OBEA_ _
NEMA ratings, AC		A600	A600	A600	A600	A600	A600	A600	A600	A600
AC rated voltage	VAC	600	600	600	600	600	600	600	600	600
AC thermal rated current	A	10	10	10	10	10	10	10	10	10
AC maximum volt-ampere making	VA	7200	7200	7200	7200	7200	7200	7200	7200	7200
AC maximum volt-ampere breaking	VA	720	720	720	720	720	720	720	720	720
NEMA ratings, DC		R300	R300	R300	R300	R300	R300	R300	R300	P600
DC rated voltage	VDC	300	300	300	300	300	300	300	300	600
DC thermal rated current	A	1	1	1	1	1	1	1	1	5
DC maximum make-break	VA	28	28	28	28	28	28	28	28	138
Torque: Wire tightening	lb. in	7	7	7	7	7	7	7	7	7
Wire range	AWG	#18 – 14	#18 – 14	#18 – 14	#18 – 14	#18 – 14	#18 – 14	#18 – 14	#18 – 14	#22 – 14

① UL Listed switches are also CSA Approved.

② UL98 overload test, 50 operations, pf 0.40 – 0.50 at 2x FLA.

③ Multi-tap lug available, please see pg. 18.24 and 18.27.

④ Fuse size 70A for RK5

⑤ When protected by any Listed fuse or Listed circuit breaker whose current rating does not exceed the maximum thermal current rating of the switch.

Technical data

OT200U03 – OETL-NF3150

UL & CSA

Disconnect
switches
Non-fusible

UL & CSA

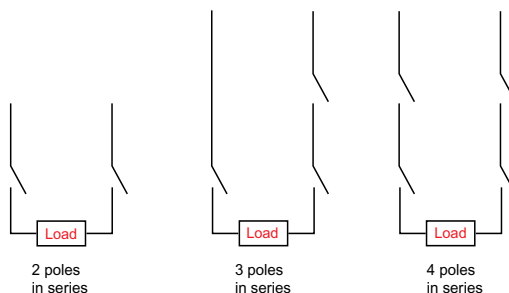
Catalog number	3 pole	OT200U03	OT400U03	OT600U03	OETL-NF800A	OETL-NF1200	OETL-NF1600	OETL-NF2000	OETL-NF3150 ⑤
Approvals ^①	2 pole 3 pole 4 pole	UL98 & IEC UL98 & IEC IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC IEC	UL98 & IEC UL98 & IEC IEC	UL98 & IEC UL98 & IEC IEC	UL98 & IEC UL98 & IEC IEC	IEC IEC IEC
General purpose amp rating pf = 0.7 – 0.8	-40° to 40°C A	200	400	600	800	1200	1600	2000	3150
Max. operating voltage	V	600	600	600	600	600	600	480	—
Max. horsepower rating/Max. motor FLA current, pf = 0.4 – 0.5 Three phase									
240V	HP/A	75/192.0	125/312.0	200/480.0	250/602.0	—	—	—	—
480V	HP/A	150/180.0	250/302.0	400/515	500/590.0	—	—	—	—
600V	HP/A	200/192.0	350/336.0	500/472.0	600/576	—	—	—	—
Single phase									
120V	HP/A	—	—	—	—	—	—	—	—
240V	HP/A	—	—	—	—	—	—	—	—
Short circuit rating with fuse									
Fuse type CC	kA	—	—	—	—	—	—	—	—
Fuse type J	kA	100	100	—/100	—	—	—	—	—
Fuse type T	kA	—	—	100/—	—	—	—	—	—
Fuse type RK1	kA	—	—	—	—	—	—	—	—
Fuse type RK5	kA	—	—	100	—	—	—	—	—
Fuse type L	kA	—	—	100/—	100	100	100	100	—
Fuse type H	kA	—	—	—/100	—	—	—	—	—
Maximum fuse size	A	350	600	600/800	1200	1200	2000	2000	—
3 cycle short circuit current withstand rating ⑥ kA		15	30	50	50	50	65	65	—
Endurances									
Min. Electrical endurance, pf = 0.75 – 0.80 operation cycles		6000	1000	1000	500	500	500	500	400
Min. Electrical endurance, pf = 0.40 – 0.50 operation cycles		②	②	②	②	②	②	②	②
Mechanical endurance operations		20,000	20,000	10,000	10,000	10,000	6000	6000	6000
Physical characteristics									
Weight, switches 3 pole lb		2.9	5.7	11.4	35.9	38.55	127.7	127.7	127.7
4 pole lb		3.5	6.8	14.3	45.15	49.56	149.7	149.7	149.7
Dimension, switches 3 pole H in		5.9	6.9	10	14.65	14.65	21.5	21.5	21.5
W in		6.7	8.7	10.64	14.25	14.25	18.11	18.11	18.11
D in		2.8	3.4	5.56	4.92	4.92	10.67	10.67	10.67
Shaft set screw tightening torque lb. in.		14-17.7	—	—	—	—	—	—	—
Shaft size — square □ in		.24 x .24	.47 x .47	.47 x .47	.47 x .47	.47 x .47	.47 x .47	.47 x .47	.47 x .47
mm		6 x 6	12 x 12	12 x 12	12 x 12	12 x 12	12 x 12	12 x 12	12 x 12
Switch operating torque for rotary 3 pole switches lb. in.		62	142	184	184	184	438	438	438
Terminal lug kits		OZXA-200	OZXA-400	OZXA-800	OZXA-30	OZXA-28	OZXA-28	OZXA-28/2	OZXA-28/2
Wire range AWG		#4-300kcmil ^③	#2-600kcmil ^③	(2)#2-600kcmil ^③	(2)#2-600kcmil ^③	(4)#2-600kcmil	(4)#2-600kcmil	(8)#2-600kcmil	(8)#2-600kcmil
Torque:									
Wire tightening lb. in.		200	375	375	375	375	375	375	375
Lug mounting lb. in.		72	240	240	230	230	230	230	230
Auxiliary contacts		OA_G_	OA_G_	OA_G_	OZK-__	OZK-__	OZK-__	OZK-__	OZK-__
NEMA ratings, AC		A600	A600	A600	A600	A600	A600	A600	A600
AC rated voltage VAC		600	600	600	600	600	600	600	600
AC thermal rated current A		10	10	10	10	10	10	10	10
AC maximum volt-ampere making VA		7200	7200	7200	7200	7200	7200	7200	7200
AC maximum volt-ampere breaking VA		720	720	720	720	720	720	720	720
NEMA ratings, DC		P600	P600	P600	P600	P600	P600	P600	P600
DC rated voltage VDC		600	600	600	600	600	600	600	600
DC thermal rated current A		5	5	5	5	5	5	5	5
DC maximum make-break VA		138	138	138	138	138	138	138	138
Torque: Wire tightening lb. in		7	7	7	7	7	7	7	7
Wire range AWG		#22 – #14	#22 – #14	#22 – #14	#22 – #14	#22 – #14	#22 – #14	#22 – #14	#22 – #14

18

- ① UL Listed switches are also CSA Approved.
 ② UL98 overload test, 50 operations, pf 0.40 – 0.50 at 2x FLA.
 ③ Multi-tap lug available, please see pg. 18.24 and 18.27.
 ④ Fuse size 70A for RK5
 ⑤ IEC rated only.
 ⑥ When protected by any Listed fuse or Listed circuit breaker whose current rating does not exceed the maximum thermal current rating of the switch.

Technical data OT16E3 – OT160E3 IEC

IEC										
Catalog number	3 pole	OT16E3	OT25E3	OT32E3	OT45E3	OT63E3	OT30E3	OT60E3	OT100E3	OT160E3
Rated insulation and operation voltage, AC20 and DC20	40°C V	750	750	750	750	750	750	750	750	750
Rated impulse withstand voltage	kV	8	8	8	8	8	8	8	8	12
Rated thermal current, I _{th}										
AC 20/DC 20	open ①	A	25	32	40	63	80	40	63	115
	40°C enclosed	A	25	32	40	63	80	40	63	115
	60°C enclosed	A	25	32	40	63	80	40	63	115
Rated operational currents										
AC 21A	≤500V	A	16	25	40	63	80	40	63	100
	≤690V	A	16	25	40	63	80	40	63	100
	≤1000V	A	—	—	—	—	—	—	—	—
AC 22A	≤500V	A	16	25	40	63	80	40	63	100
	≤690V	A	16	25	40	63	80	40	63	100
	≤1000V	A	—	—	—	—	—	—	—	—
AC 23A	≤415V	A	16	20	23	45	75	40	63	80
	≤500V	A	16	20	23	45	58	40	60	80
	≤690V	A	10	11	12	20	20	40	40	40
	≤1000V	A	—	—	—	—	—	—	—	—
Rated operational currents/poles in series										
DC21A	48V	A	16/1	25/1	32/1	45/1	63/1	40/1	63/1	100/1
	110V	A	16/2	25/2	32/2	45/2	63/2	40/2	63/2	100/2
	220V	A	16/3	25/3	32/3	45/4	63/4	40/4	63/4	100/4
	440V	A	16/4	25/6	32/6	③	③	③	③	③
	750V	A	16/8	25/8	32/8	③	③	③	③	③
DC22A	48V	A	16/1	25/1	32/1	45/1	63/1	40/1	63/1	100/1
	110V	A	16/2	25/2	32/2	45/2	63/2	40/2	63/2	100/2
	220V	A	16/3	25/3	32/4	45/4	63/4	40/4	63/4	100/4
	440V	A	16/6	25/8	③	③	③	③	③	③
	750V	A	16/8	25/8	③	③	③	③	③	③
DC23A	48V	A	16/1	25/1	32/1	45/1	63/1	40/1	63/1	100/1
	110V	A	16/2	25/2	32/2	45/2	63/2	40/2	63/2	100/2
	220V	A	16/4	25/4	32/4	45/4	63/4	40/4	63/4	100/4
	440V	A	10/4	③	③	③	③	③	③	③
	750V	A	16/8	③	③	③	③	③	③	③
Rated operational power										
AC23A	230V	kW	3	4	5.5	11	22	7.5	11	22
	400/415V	kW	7.5	9	11	22	37	15	18.5	37
	500V	kW	7.5	9	11	22	37	15	18.5	37
	690V	kW	7.5	9	11	15	18.5	15	15	37
Short-circuit current	kA	50	50	50	50	50	50	50	50	100
with back-up fuses of size	A	25	32	40	63	80	100	100	100	200



① The ambient air temperature does not exceed +40°C and its average over a period of 24 hours does not exceed +35°C according to IEC 947.
 ② IEC 947-3, utilization category B, infrequent operation.
 ③ Not available at time of printing, please consult factory.

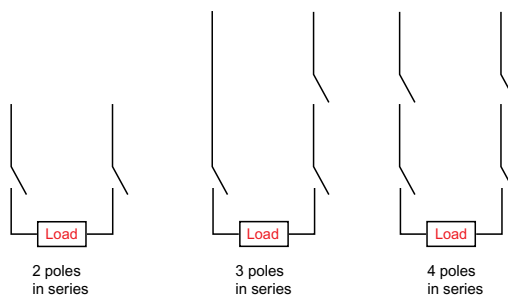
Technical data

OT200U03 – OETL-NF3150

IEC

Disconnect
switches
Non-fusible

IEC									
Catalog number	3 pole	OT200U03	OT400U03	OT600U03	OETL-NF800A	OETL-NF1200	OETL-NF1600	OETL-NF2000	OETL-NF3150
Rated insulation and operational voltage, AC20 and DC20	40°C V	1000	1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage	kV	12	12	12	8	8	8	8	8
Rated thermal current, I _{th}									
AC 20/DC 20	open ^① A	250	400	800	1250	1600	2500	3150	—
	40°C enclosed A	250	400	800	1250	1600	2300	2300	2600
	60°C enclosed A	—	—	—	1000	1250	1950	1950	2300
Rated operational currents									
AC 21A	≤500V A	250	400	800	1250	1600	2500^②	2500^②	3150^③
	≤690V A	250	400	800	1250	1600	2500 ^②	2500 ^②	3150 ^②
	≤1000V A	—	—	800	—	—	—	—	—
AC 22A	≤500V A	250	400	800	1250	1600	1600 ^②	1600 ^②	1600 ^②
	≤690V A	250	400	800	—	—	—	—	—
	≤1000V A	—	—	800	—	—	—	—	—
AC 23A	≤415V A	250	400	800	800	800	800 ^②	800 ^②	800 ^②
	≤500V A	250	400	800	800	800	800 ^②	800 ^②	800 ^②
	≤690V A	250	400	800	—	—	—	—	—
	≤1000V A	—	—	800	—	—	—	—	—
Rated operational currents/poles in series									
DC21A	48V A	250/1	630/2	800/2	1250/2	1600/2	2500/2	2500/2	3150/2
	110V A	250/2	630/2	800/2	1250/2	1600/2	2500/2	2500/2	3150/2
	220V A	250/2	630/2	800/2	1250/2	1600/2	2500/2	2500/2	3150/2
	440V A	250/3	630/3	800/3	1250/3	1600/3	2500/3	2500/3	3150/2
	750V A	250/4	—	—	—	—	—	—	—
DC22A	48V A	250/1	630/2	800/2	1250/2	1600/2	2500/2	2500/2	3150/2
	110V A	250/2	630/2	800/2	1250/2	1600/2	2500/2	2500/2	3150/2
	220V A	250/2	630/2	800/2	1250/2	1600/2	2500/2	2500/2	3150/2
	440V A	250/3	630/3	800/3	—	—	—	—	—
	750V A	250/4	—	—	—	—	—	—	—
DC23A	48V A	250/1	630/2	—	—	—	—	—	—
	110V A	250/2	630/2	—	—	—	—	—	—
	220V A	250/2	630/2	—	—	—	—	—	—
	440V A	250/3	—	—	—	—	—	—	—
	750V A	250/4	—	—	—	—	—	—	—
Rated operational power									
AC23A	230V kW	75	110	—	250	250	250	250	250
	400/415V kW	132/140	220/230	450	400	400	400	400	400
	500V kW	170	280	560	450	450	450	450	450
	690V kW	240	355	800	—	—	—	—	—
Short-circuit current	kA	100	100	100	50/50 ^④	50/50 ^④	50/63 ^④	50/63 ^④	50/63 ^④
with back-up fuses of size	A	400	800	800	—	—	—	—	—



- ① The ambient air temperature does not exceed +40°C and its average over a period of 24 hours does not exceed +35°C according to IEC 947.
- ② IEC 947-3, utilization category B, infrequent operation.
- ③ Not available at time of printing, please consult factory.
- ④ 690V / 500V

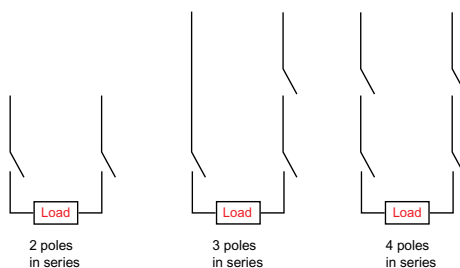
Technical data

OT16E3 – OT160E3

IEC

IEC

Catalog number			3 pole	OT16E3	OT25E3	OT32E3	OT45E3	OT63E3	OT30E3	OT60E3	OT100E3	OT160E3	
Rated short-circuit making capacity, prospective peak value, I _{cm}			kA	0.7	0.7	0.7	1.4	1.4	3.6	3.6	3.6	12	
Rated short time withstand current, RMS I ^{cw}			0.2s	—	—	—	—	—	—	—	—	7	
RMS I ^{cw}			1.0s	kA	0.5	0.5	0.5	1	1	2.5	2.5	4	
AC breaking capacity													
pf = 0.35			≤415V	A	128	160	184	240	304	320	504	640	1080
			≤500V	A	128	160	184	240	256	320	480	480	1000
			≤690V	A	80	88	96	160	160	320	320	320	640
DC breaking capacity/poles in series													
L/R = 15ms, 3 pole in series			≤48V	A	64/1	100/1	128/1	180/1	252/1	160/1	252/1	400/1	640/1
			≤110V	A	64/2	100/2	128/2	180/2	252/2	160/2	252/2	400/2	640/1
			≤220V	A	64/3	100/4	128/4	180/4	180/4	160/4	252/4	252/4	640/2
			≤440V	A	①	①	①	①	①	①	①	①	640/3
			≤750V	A	①	①	①	①	①	①	①	①	①
Physical characteristics													
Electrical endurance at rated operational current, pf = 0.65			operation cycles	3000	3000	3000	3000	3000	3000	3000	3000	1000	
Mechanical endurance			operations	20,000	20,000	20,000	20,000	20,000	20,000	20,000	20,000	16,000	
Weight			3 pole	kg	0.11	0.11	0.11	0.27	0.27	0.36	0.36	1.1	
			4 pole	kg	0.15	0.15	0.15	0.35	0.35	0.5	0.5	1.3	
Dimension			3 pole	H mm	68	68	68	91.5	91.5	100	100	127	
				W mm	35	35	35	52.5	52.5	70	70	126	
				D mm	56	56	56	72.5	72.5	75	75	74.5	
Power loss per pole			W	0.3	0.6	1	1.4	2.8	1	1.6	4	6.5	
Shaft size — square □			mm	5 X 5	5 x 5	5 x 5	5 x 5	5 x 5	5 x 5	5 x 5	5 x 5	6 x 6	
Switch operating torque for rotary 3 pole switches			Nm	1	1	1	1.2	1.2	2	2	2	6	
Suitable conductor cross section Cu			mm2	0.75 – 10	0.75 – 10	0.75 – 10	1.5 – 25	1.5 – 25	1.5 – 25	1.5 – 25	10 – 70	10 – 70	
Bolt size			—	—	—	—	—	—	—	—	—	—	
Auxiliary contacts				OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OA1G_ _	OBEA_ _	
Ratings according to IEC 947-5-1													
Rated voltage, U _i			VAC	690	690	690	690	690	690	690	690	690	
Thermal current, I th			A	16	16	16	16	16	16	16	16	10	
AC12/DC12 I ^e , A U ^e =120V			A	—	—	—	—	—	—	—	—	8/—	
			125V	A	—	—	—	—	—	—	—	—/1.1	
			240V	A	6 ②	6 ②	6 ②	6 ②	6 ②	6 ②	6 ②	6/—	
			250V	A	—	—	—	—	—	—	—	—/0.55	
			400V	A	4 ②	4 ②	4 ②	4 ②	4 ②	4 ②	4 ②	4/—	
			415V	A	—	—	—	—	—	—	—	4/—	
			440V	A	—	—	—	—	—	—	—	—/0.31	
			480V	A	—	—	—	—	—	—	—	3/—	
			500V	A	—	—	—	—	—	—	—	3/0.27	
			600V	A	—	—	—	—	—	—	—	—/0.2	
			690V	A	2 ②	2 ②	2 ②	2 ②	2 ②	2 ②	2 ②	2/—	



① Not available at time of printing, please consult factory.
② AC15, according to IEC947-5-1.

Technical data

OT200U03 – OETL-NF3150

IEC

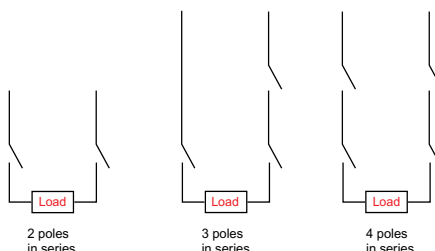
Disconnect
switches
Non-fusible

IEC

Catalog number	3 pole	OT200U03	OT400U03	OT600U03	OETL-NF800A	OETL-NF1200	OETL-NF1600	OETL-NF2000	OETL-NF3150
Rated short-circuit making capacity, prospective peak value, $I_{cm}500/690V$	kA	30	65	80	105	105	140/105	140/105	140/105
Rated short time withstand current,									
RMS I_{cw} 0.2s	kA	15	28	36	—	—	—	—	—
RMS I_{cw} 1.0s	kA	8	15	20	50 ②	50 ②	80 ②	80 ②	80 ②
AC breaking capacity									
pf = 0.35 ≤415V	A	2000	3200	5760	6400	6400	6400	6400	6400
≤500V	A	2000	3200	5600	6400	6400	6400	6400	6400
≤690V	A	2000	3200	5600	2500 ③	2500 ③	4800 ④	4800 ④	4800 ④
DC breaking capacity/poles in series									
L/R = 15ms, 3 pole in series									
48V	A	1000/2	①	①	①	①	①	①	①
110V	A	1000/2	①	①	①	①	①	①	①
220V	A	1000/2	1600/2	2000/2	1900/2	2600/2	2600/2	2600/2	2600/2
440V	A	1000/3	1600	2000/3	①	①	①	①	①
750V	A	1000/4	①	①	①	①	①	①	①
Physical characteristics									
Electrical endurance at rated operational current, pf = 0.65	operation cycles	1000	1000	1000	500	500	100 ⑤	100 ⑤	100 ⑤
Mechanical endurance	operations	20,000	16,000	10,000	10,000	10,000	6000	6000	6000
Weight	3 pole kg	1.2	2.2	5.2	16.3	17.5	37	37	37
	4 pole kg	1.6	2.6	6.5	20.5	22.5	47	47	47
Dimension	3 pole H mm	162	216	250	372	372	546	546	546
	W mm	219	260	266	363	363	468	468	468
	D mm	92.5	130	139	125	125	271	271	271
Power loss per one pole	W	6.5	10	40	40	67	90	90	140
Shaft size — square □	mm	6 x 6	12 x 12	12 x 12	12 x 12	12 x 12	12 x 12	12 x 12	12 x 12
Switch operating torque for rotary 3 pole switches	Nm	7	16	21	21	21	50	50	50
Suitable conductor cross section Cu	mm²	—	—	—	—	—	—	—	—
Bolt size		8 x 25	10 x 30	12 x 40	12 x 60	12 x 60	12 x 60	12 x 60	12 x 60
Auxiliary contacts		OA_G_	OA_G_	OA_G_	OZXK-__	OZXK-__	OZXK-__	OZXK-__	OZXK-__
Ratings according to IEC 947-5-1									
Rated voltage, U_i	VAC	690	690	690	690	690	690	690	690
Thermal rated current, I_n	A	16	16	10	10	10	10	10	10
AC12/DC12 I_n , A U_n = 120V	A	—	—	8/—	8/—	8/—	8/—	8/—	8/—
125V	A	—	—	—/1.1	—/1.1	—/1.1	—/1.1	—/1.1	—/1.1
240V	A	6/—	6/—	6/—	6/—	6/—	6/—	6/—	6/—
250V	A	—	—	—/0.55	—/0.55	—/0.55	—/0.55	—/0.55	—/0.55
400V	A	4/—	4/—	4/—	4/—	4/—	4/—	4/—	4/—
415V	A	—	—	4/—	4/—	4/—	4/—	4/—	4/—
440V	A	—	—	—/0.31	—/0.31	—/0.31	—/0.31	—/0.31	—/0.31
480V	A	—	—	3/—	3/—	3/—	3/—	3/—	3/—
500V	A	—	—	3/0.27	3/0.27	3/0.27	3/0.27	3/0.27	3/0.27
600V	A	—	—	—/0.2	—/0.2	—/0.2	—/0.2	—/0.2	—/0.2
690V	A	2/—	2/—	2/—	2/—	2/—	2/—	2/—	2/—

18

- ① Not available at time of printing, please consult factory.
 ② Maximum distance between busbar support and switch terminal 70mm.
 ③ pf 0.95.
 ④ pf 0.65.
 ⑤ IEC 947-3, utilization category B, infrequent operation.



Selecting switches per NEC & IEC

Selecting switches per NEC

Article 430 of the US National Electric Code includes two methods for properly sizing disconnect switches:

1. Single motor application

A properly sized disconnect switch for a single motor will:

- have an ampere rating greater than or equal to 115 percent of the rated motor full load current; or,
- have a HP rating greater than or equal to the rated motor HP (at applied voltage) if the disconnect switch under consideration is HP rated.

2. Combination load application

A properly sized disconnect switch for a combination load will be selected by adding all the simultaneous individual loads in the circuit under consideration.

Using motor nameplate information, load information, and tables from section 430 of the NEC, determine one equivalent full load current and one equivalent locked rotor current. The equivalent locked rotor current can be used with table 430-151 to determine an equivalent HP rating. Select a disconnect switch:

- greater than or equal to 115 percent of the equivalent full load current; and,
- greater than or equal to the equivalent HP rating.

Selecting switches per IEC

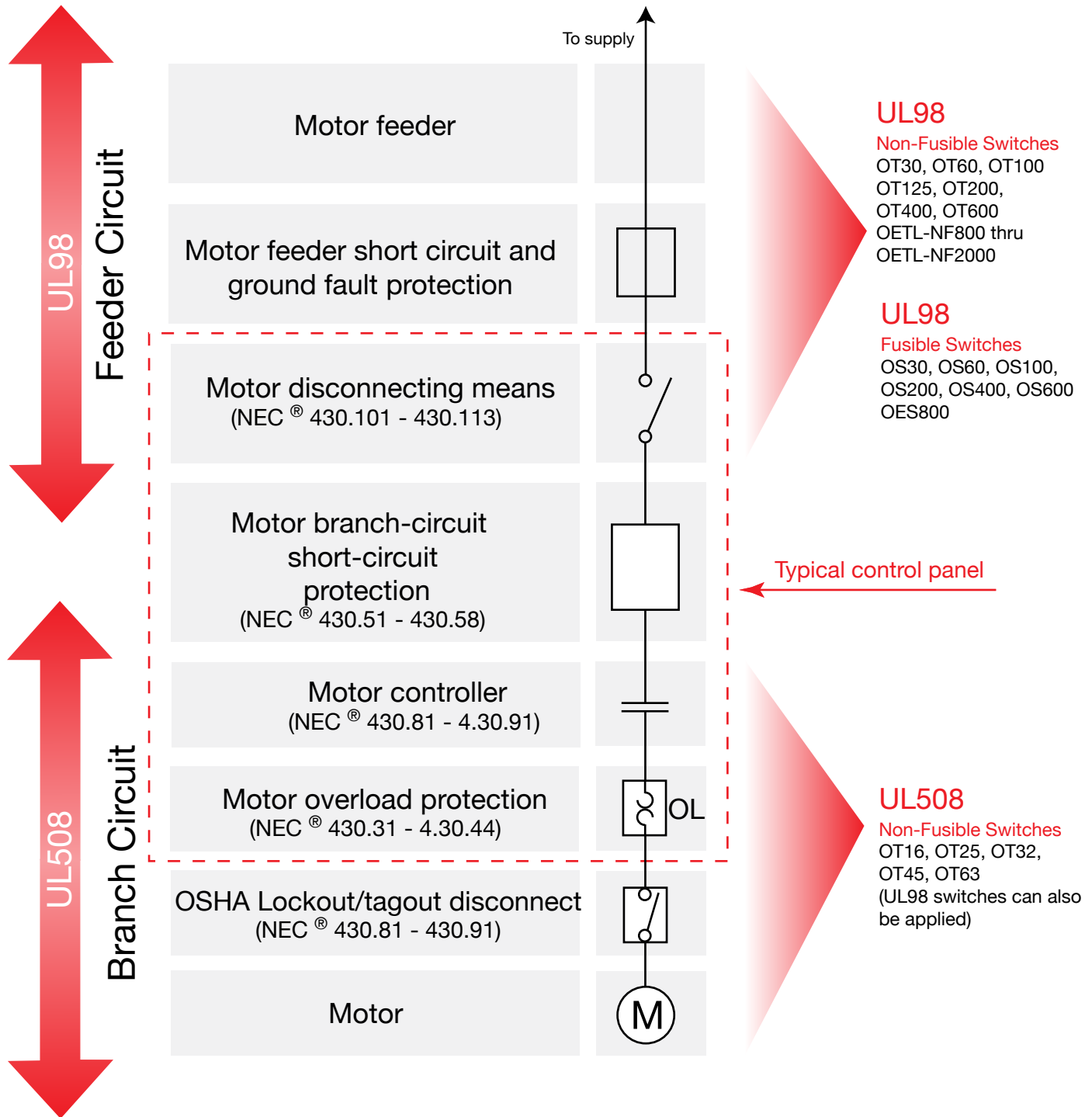
Utilization categories

Nature of current	Utilization category		Typical applications
	Frequent operation	Infrequent operation	
Alternating current	AC-20A	AC-20B	<ul style="list-style-type: none"> Connecting and disconnecting under no-load conditions Switching of resistive loads including moderate overloads (PF > 0.95) Switching of mixed resistive and inductive loads, including moderate overloads (PF > 0.65) Switching of motor loads or other highly inductive loads (PF > 0.45 below 100A; PF > 0.35 above 100A)
	AC-21A	AC-21B	
	AC-22A	AC-22B	
	AC-23A	AC-23B	
Direct current	DC-20A	DC-20B	<ul style="list-style-type: none"> Connecting and disconnecting under no-load conditions Switching of resistive loads including moderate overloads (L/R < 1ms) Switching of mixed resistive and inductive loads, including moderate overloads e.g., shunt motors (L/R < 2.5ms) Switching of highly inductive loads e.g., series motors (L/R < 15ms)
	DC-21A	DC-21B	
	DC-22A	DC-22B	
	DC-23A	DC-23B	
Mechanical endurance	Number of operations	Number of operations	
100A	10,000	2000	
315A	8000	1600	
>315A	2000	400	

- Category AC-23 includes occasional switching of individual motors. The switching of capacitors of tungsten filament lamps shall be subject to agreement between manufacturer and user.

Use of UL98 & UL508 Disconnects According to NEC® Article 430

Disconnect
switches
Non-fusible



Definitions

AC – Alternating current — Current that reverses its direction of flow twice per cycle.

Ambient temperature — Temperature of the air surrounding the unit.

Amp rating — The basic unit of measurement for electric current (columbs / seconds).

Conventional thermal current I_{th} — Value of the current the disconnect switch can withstand with poles in closed position, in free air for an eight hour duty, without the temperature rise of its various parts exceeding the limits specified by the standards.

Cycle duration — Total time of the on-load + off-load period.

DC – Direct current — Current that flows in only one direction.

Electrical endurance — Number of on-load operating cycles.

IEC environmental protection type — see page 18.48.

Full load amp current FLA — The current required by a motor to produce full-load torque at the motor's rated speed.

Inductive load — An electrical load characterized by having significant inrush (5 to 6 times FLA for typical design-B AC induction motors).

kW — Kilowatts (1000 watts)

Lockout/Tagout — Means of removing power from electrical equipment during inspection, service or repair.

Make / Break — ON / OFF

Mechanical endurance — Number of off-load operating cycles.

Poles in series — Means of connection poles using wires or bus bars to increase breaking capacity of load.

Power factor — The relationship between working power and total power consumed. Power factor measures how effectively electrical power is being used.

Rated insulation U_i — Voltage value which designates the unit and to which dielectric tests, clearance and creepage distances are referred.

Rated operating current I_o — Current value stated by the manufacturer and taking into account the rated operating voltage U_o , the rated frequency, the rated duty, the utilization category, the electrical contact life and the type of protective enclosure.

Rated operating voltage U_o — Voltage value to which utilization characteristics of the disconnect switch are referred, i.e. phase-to-phase voltage in 3 phase circuits.

Rated short circuit making capacity I_{cm} — The rated short-circuit making capacity of a disconnect switch, a disconnect or a switch-disconnector is the value assigned to equipment at the rated operational voltage, frequency (if any) and specified power-factor for AC or time constant for DC. It is expressed as the maximum prospective peak current under prescribed conditions.

Rated short time withstand current I_{cw} — The rated short-time withstand current of a disconnect switch, a disconnect or a switch-disconnector is the value that the equipment can carry without damage, under the test conditions specified in the relevant product standard. The value of the rated short-time withstand current shall be not less than twelve times the maximum rated operational current unless otherwise stated by manufacturer and the duration of the current shall be 1 s.

Resistive load — An electrical load characterized by not having any significant inrush current.

Short circuit protection coordination — Co-ordination types "1" and "2" are defined in IEC 947-4-1.

Type 1 coordination — There has to be no discharge of parts beyond the enclosure. Damage to the contactor and the overload is acceptable.

Type 2 coordination — No damage to the overload relay or other parts has occurred, except that welding of contactor or starter contacts is permitted, if they are easily separated.

Time constant — Ratio of inductance to the resistance:
 $L/R = \text{mH}/\text{Ohm} = \text{ms}$.

Torque — The force that produces rotation. It is commonly measured in pound-feet (lb-ft). Torque applies to such things as motor operations, handle rotations, wire tightening.

NEMA environmental protection type — see page 18.47.

Volt — The unit of electrical potential difference and electromotive force.

NEMA Environmental ratings

Disconnect
switches
Non-fusible

Introduction

An enclosure is a surrounding case constructed to provide a degree of protection to personnel against accidental contact with the enclosed equipment and to provide a degree of protection to the enclosed equipment against specified environmental conditions.

A brief description of the more common types of enclosures used by the electrical industry relating to their environmental

capabilities follows. Refer to NEMA Standards Publication for more information regarding applications, features and design tests.

Individual NEMA product Standards Publications or third party certification standards may contain additional requirements for product testing and performance.

Definitions pertaining to nonhazardous locations



Type 1

Enclosures are intended for indoor use primarily to provide a degree of protection against limited amounts of falling dirt. (NEMA Standard 7-15-1991.)



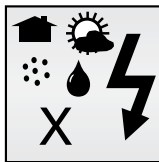
Type 3R

Enclosures are intended for outdoor use primarily to provide a degree of protection against rain, sleet and damage from external ice formation. (NEMA Standard 7-15-1991.)



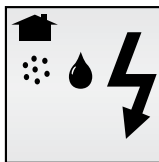
Type 4

Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water and damage from external ice formation. (NEMA Standard 1-10-1979.)



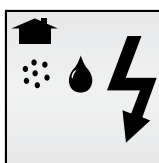
Type 4X

Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water and damage from external ice formation. (NEMA Standard 1-10-1979)



Type 12

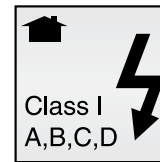
Enclosures are intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping noncorrosive liquids. (NEMA Standard 7-15-1991.)



Type 13

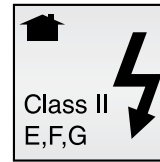
Enclosures are intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil and noncorrosive coolant. (NEMA Standard 1-10-1979.)

Definitions pertaining to hazardous locations



Type 7

Enclosures are intended for indoor use in locations classified as Class I, Groups A, B, C, or D, as defined in the National Electrical Code. (NEMA Standard 7-15-1991.)



Type 9

Enclosures are intended for indoor use in locations classified as Class II, Groups E, F, or G, as defined in the National Electrical Code. (NEMA Standard 7-15-1991.)

Legend

- Indoors
- Outdoors
- Water
- Dirt/dust
- Corrosion

IEC Environmental ratings

IP ratings

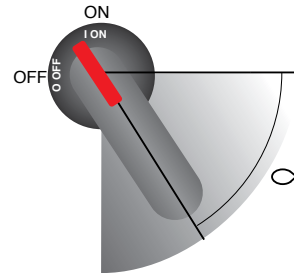
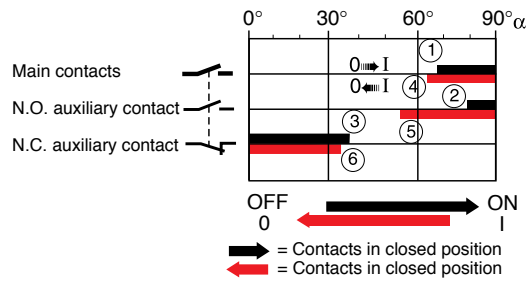
indicate the degree of protection against dust, liquids and impacts. The IP degrees of protection are defined by the French standard NFC 20-010. To rate a device's degrees of protection, the letters IP are followed by up to three numbers. These numbers are defined as follows:

first number protection against solid objects	second number protection against liquids	third number protection against mechanical impacts
<p>IP 0  no protection</p> <p>1  protected against solid objects over 50mm (e.g. accidental touch by hands.)</p> <p>2  protected against solid objects over 12 mm (e.g. fingers)</p> <p>3  protected against solid objects over 2.5 mm (tools & wires)</p> <p>4  protected against solid objects over 1mm (small tools & small wires)</p> <p>5  protected against dust (no harmful deposit)</p> <p>6  totally protected against dust</p>	<p>IP 0  no protection</p> <p>1  protected against vertically falling rain or condensation</p> <p>2  protected against direct sprays of water up to 15° from vertical</p> <p>3  protected against sprays to 60° from vertical</p> <p>4  protected against water sprayed from all directions</p> <p>5  protected against low pressure jets of water from all directions</p> <p>6  protected from strong jets of water (e.g. for use on ship decks)</p> <p>7  protected against the effects of immersion between 15cm and 1m</p>	<p>IP 0  no protection</p> <p>1  impact 0,225 joule 150g falling from 15 cm</p> <p>2  impact 0,375 joule 250g falling from 15 cm</p> <p>3  impact 0,50 joule 250g falling from 20cm</p> <p>5  impact 2,00 joule 500g falling from 40 cm</p> <p>7  impact 6,00 joule 1.5kg falling from 40 cm</p> <p>9  impact 20,00 joule 5 kg falling from 40 cm</p>

Auxiliary contact timing diagrams OT16 – OT100

Disconnect
switches
Non-fusible

Legend



Contacts closing

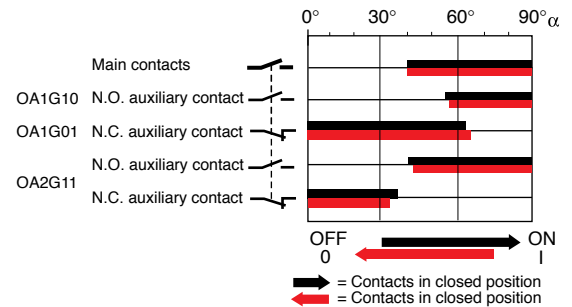
- ① Main contacts close
- ② N.O. auxiliary contacts close
- ③ N.C. auxiliary contacts open

Contacts opening

- ④ Main contacts open
- ⑤ N.O. auxiliary contacts open
- ⑥ N.C. auxiliary contacts close

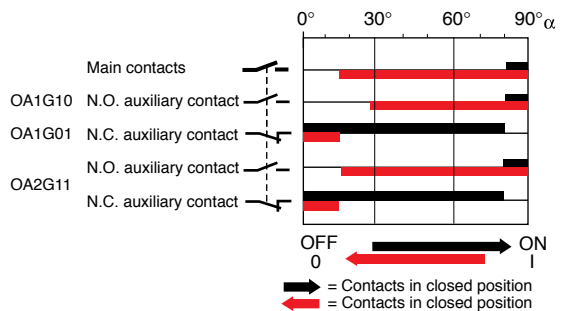
OT16, OT25, OT32

Catalog number	Auxiliary contact	Contact configuration
OT16, OT25, OT32	OA1G10 OA1G01 OA2G11	1 N.O. 1 N.C. 1 N.O. & 1 N.C.



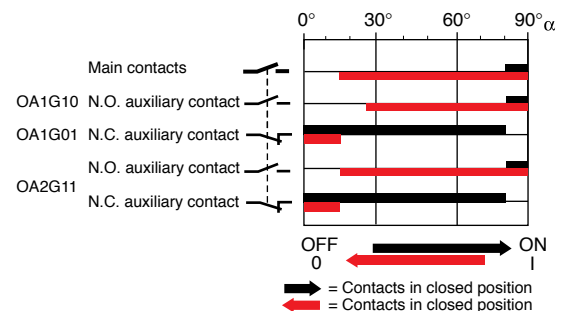
OT45, OT63

Catalog number	Auxiliary contact	Contact configuration
OT45, OT63	OA1G10 OA1G01 OA2G11	1 N.O. 1 N.C. 1 N.O. & 1 N.C.



OT30, OT60, OT100

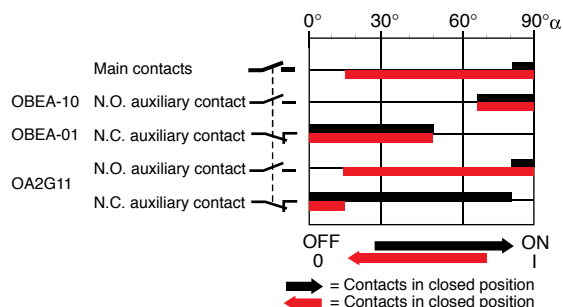
Catalog number	Auxiliary contact	Contact configuration
OT30, OT60, OT100	OA1G10 OA1G01 OA2G11	1 N.O. 1 N.C. 1 N.O. & 1 N.C.



Auxiliary contact timing diagrams OT160 – OT400

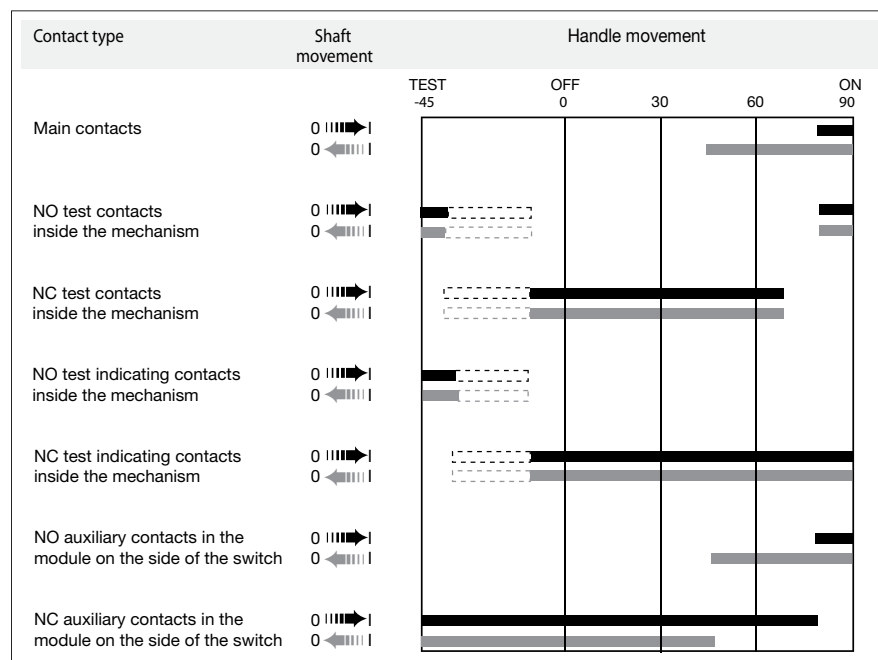
OT160E3

Catalog number	Auxiliary contact	Contact configuration
OT160E3	OBEA-10 OBEA-01 OA2G11	1 N.O. 1 N.C. 1 N.O. & 1 N.C.



OT200U03 – OT600U03

Catalog number	Auxiliary contact	Contact configuration
OT200U03 – OT600U03	OA1G10 OA3G01	1 N.O. 1 N.C.

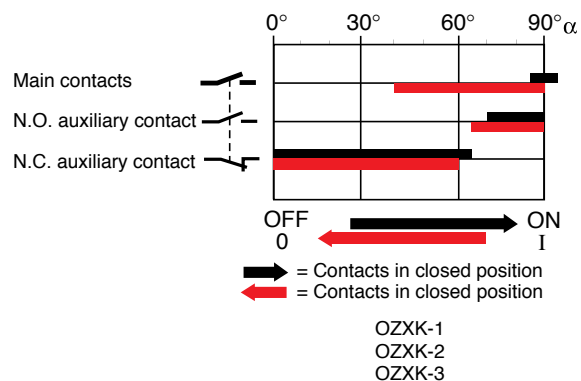


Auxiliary contact timing diagrams OETL-NF800 – OETL-NF3150

Disconnect
switches
Non-fusible

OETL-NF800A – OETL-NF3150

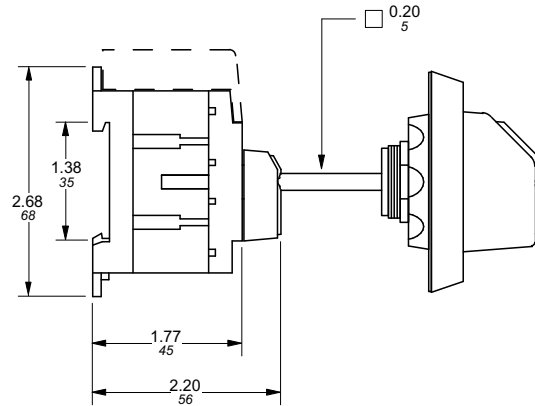
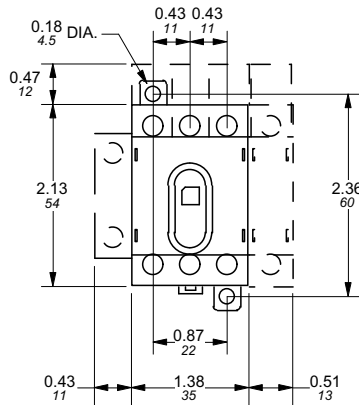
Catalog number	Auxiliary contact	Contact configuration
OETL-NF800A – OETL-NF3150	OZXK-1	1 N.O. & 1 N.C.
	OZXK-2	2 N.O. & 2 N.C.
	OZXK-3	4 N.O. & 4 N.C.



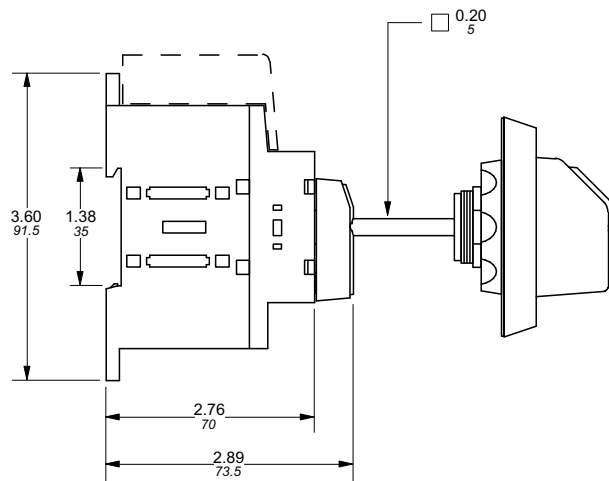
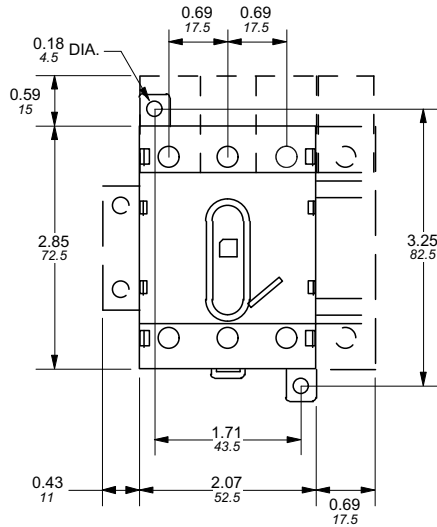
Approximate dimensions OT16E3 – OT100E3 Base & DIN rail mounted switches

00.00 00.00 Inches
[Millimeters]

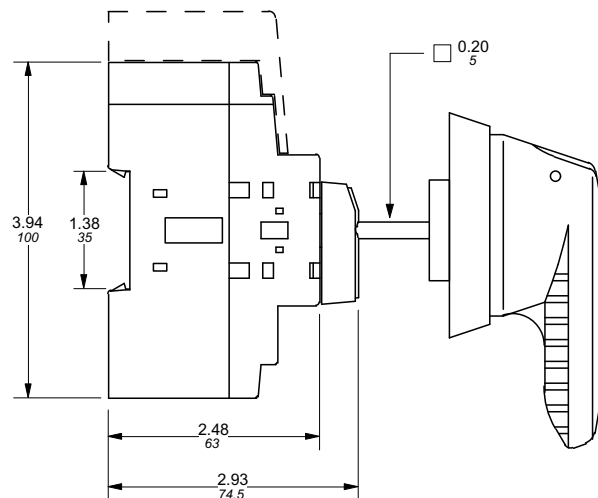
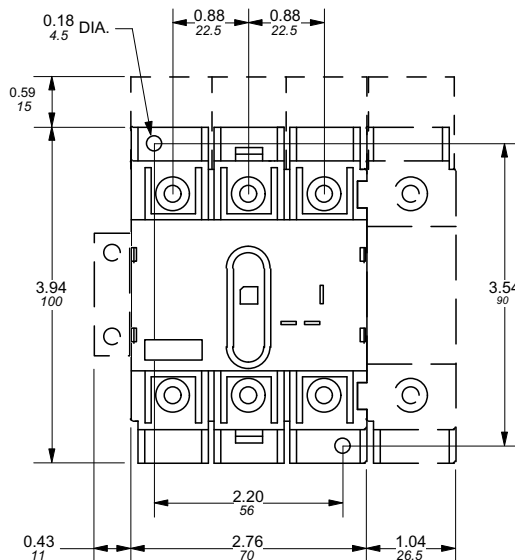
OT16E3, OT25E3, OT32E3 — base & DIN rail mounted switch



OT45E3, OT63E3 — base & DIN rail mounted switch



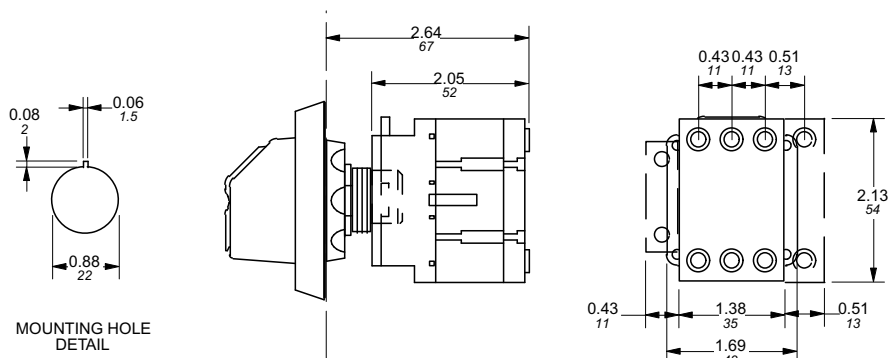
OT30E3, OT60E3, OT100E3 — base & DIN rail mounted switch



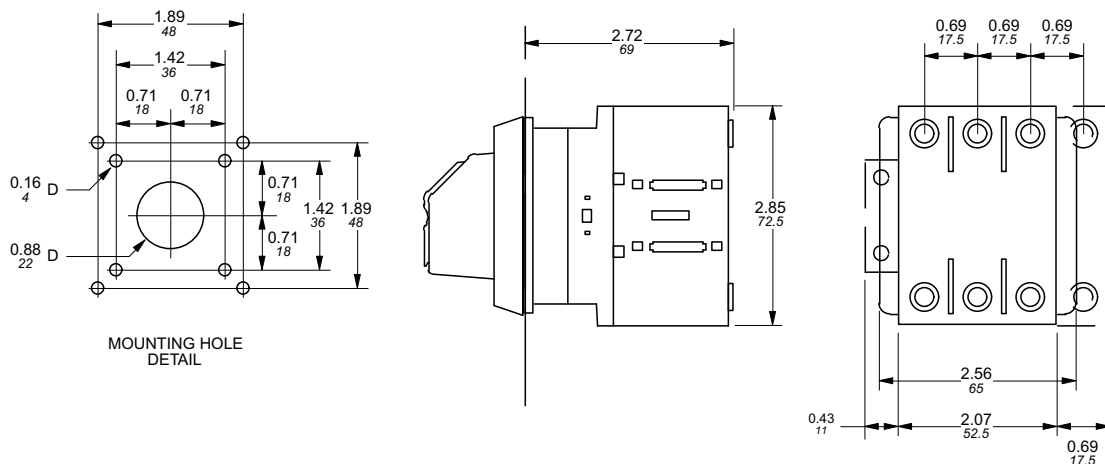
Approximate dimensions OT16ET3 – OT100ET3 Door mounted switches

00.00 — Inches
00.00 — [Millimeters]

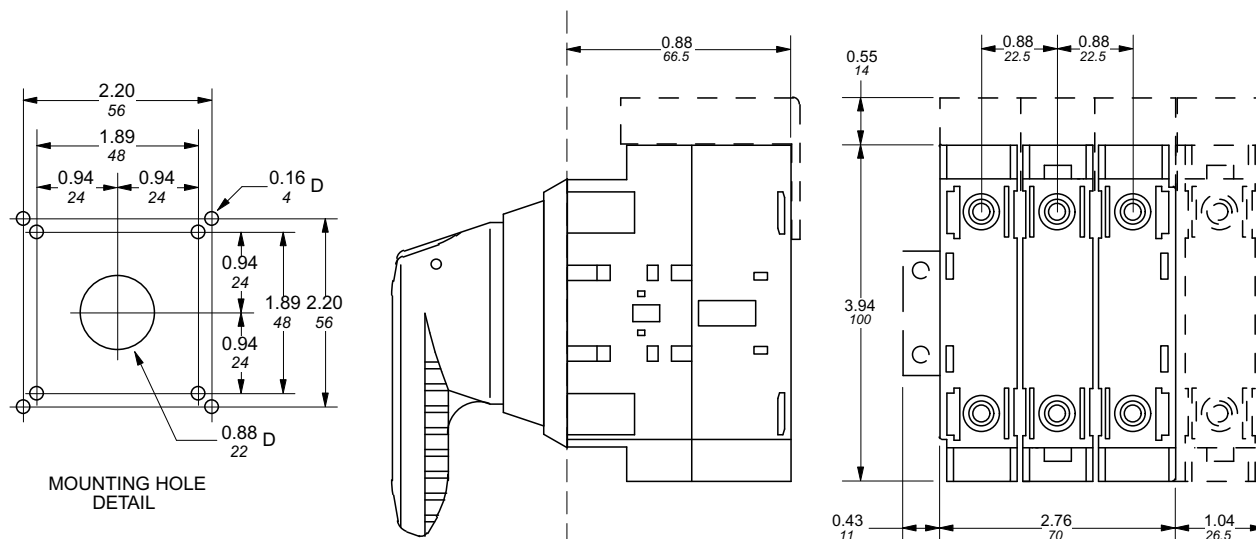
OT16ET3, OT25ET3, OT32ET3 — door mounted switch



OT45ET3, OT63ET3 — door mounted switch



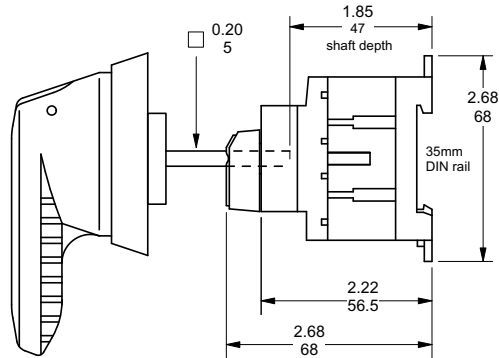
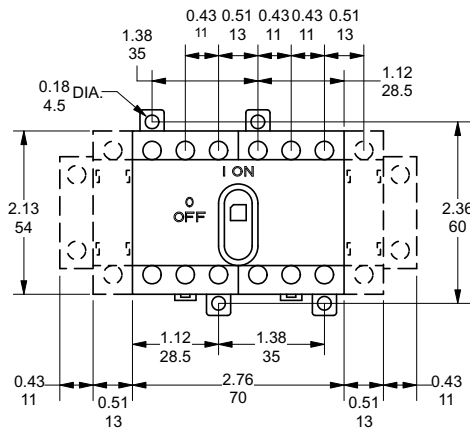
OT30ET3, OT60ET3, OT100ET3 — door mounted switch



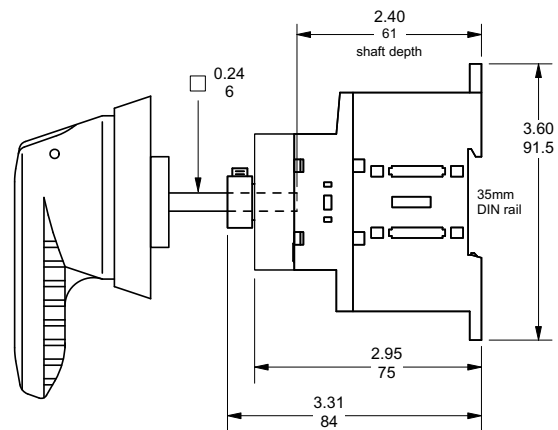
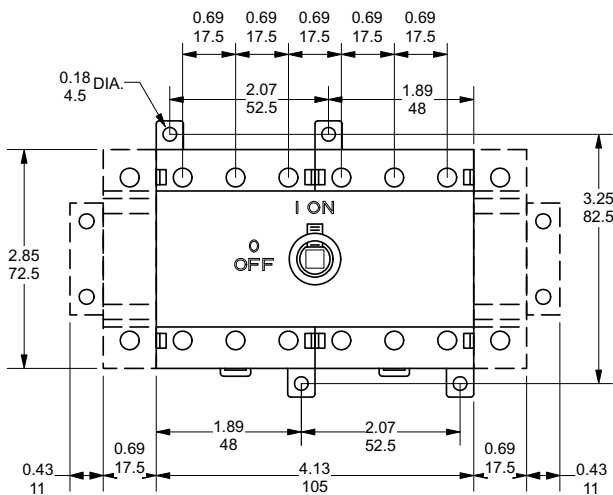
Approximate dimensions OT16E6 & E8 – OT100E6 & E8 6-pole switches

00.00 00.00 Inches
[Millimeters]

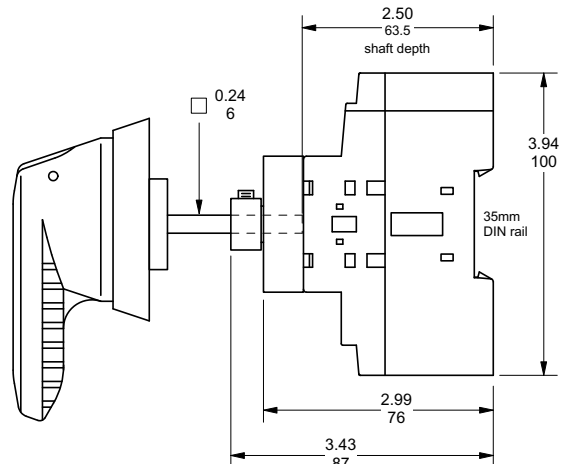
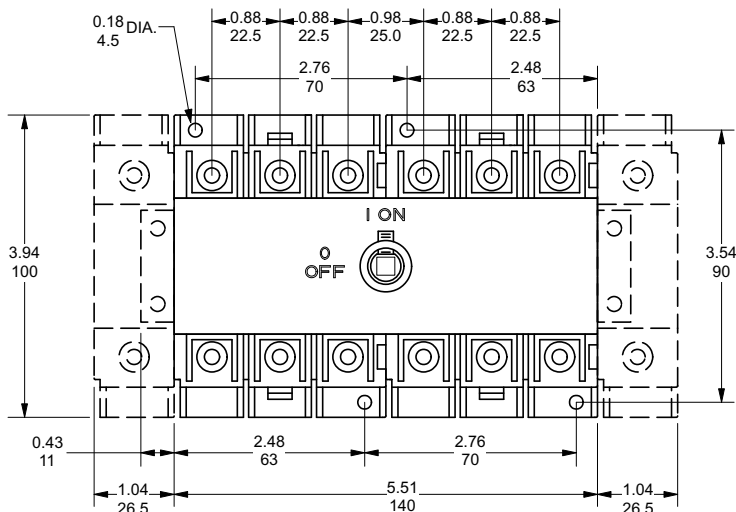
OT16, 25, 32E6 & E8 – 6 Pole switches



OT45, 63E6 & E8 – 6 Pole switches



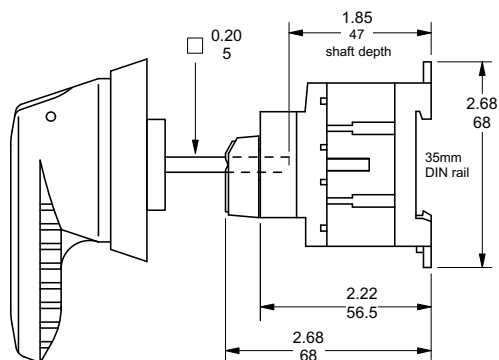
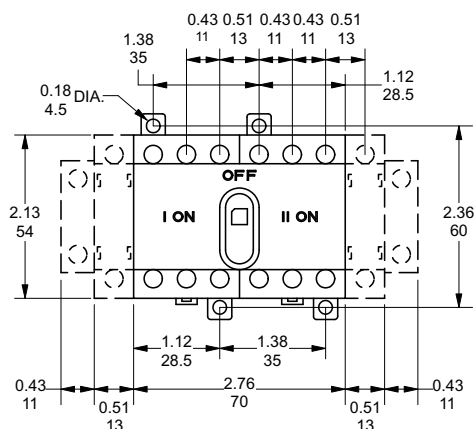
OT100E6 & E8 – 6 Pole switches



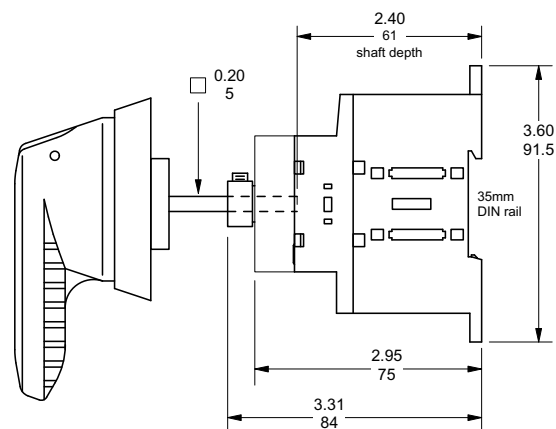
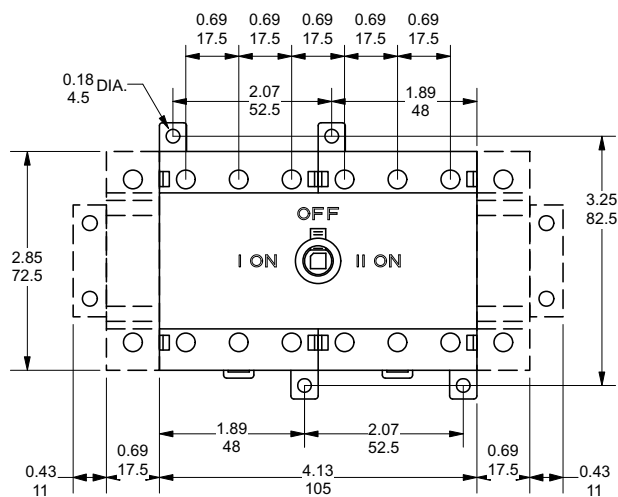
Approximate dimensions OT16E3C & E4C – OT100E3C & E4C Transfer switches

00.00 00.00 Inches
[Millimeters]

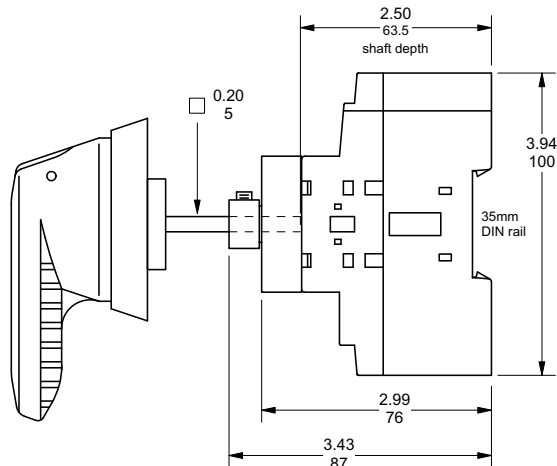
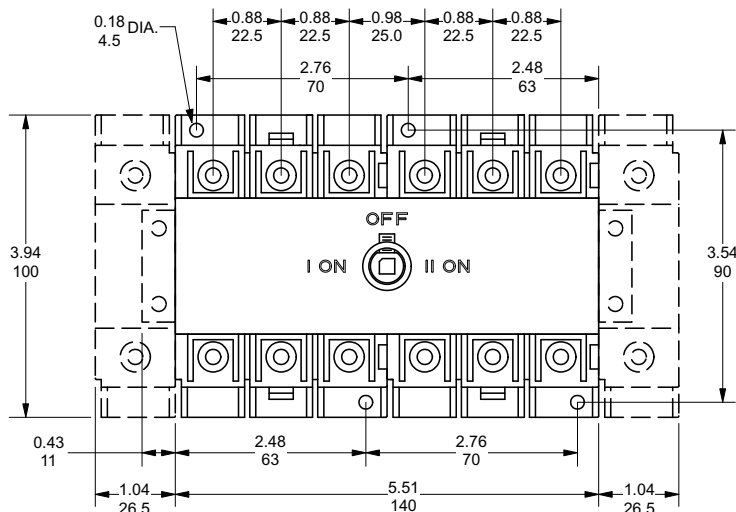
OT16, 25, 32E3C & E4C – Transfer switches



OT45, 63E3C & E4C – Transfer switches



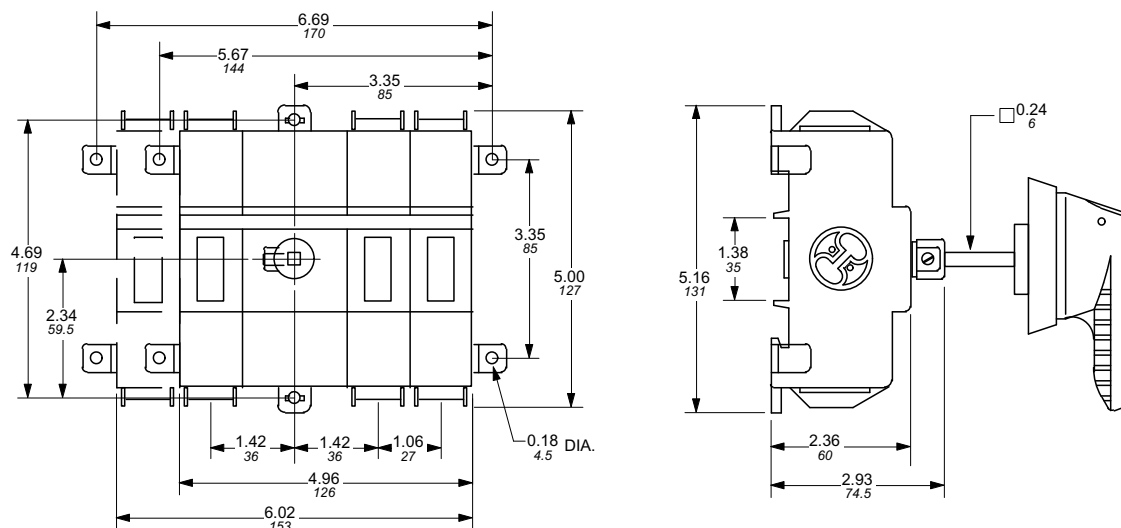
OT100E3C & E4C – Transfer switches



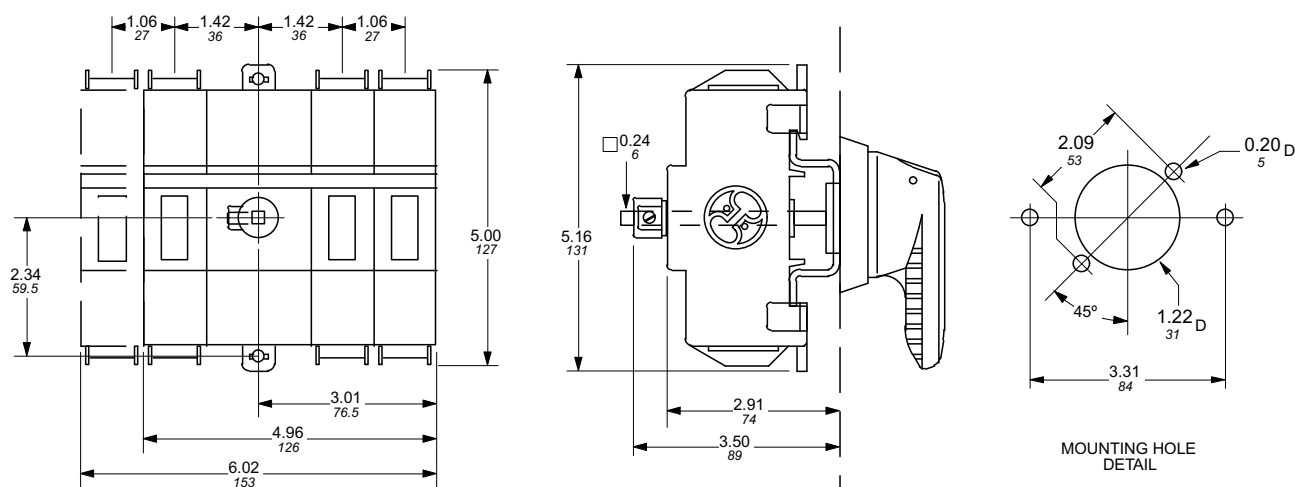
Approximate dimensions OT160E3 & OT160ET3

00.00 00.00 Inches
[Millimeters]

OT160E3 — base & DIN rail mounted switch



OT160ET3 — Door mounted switch

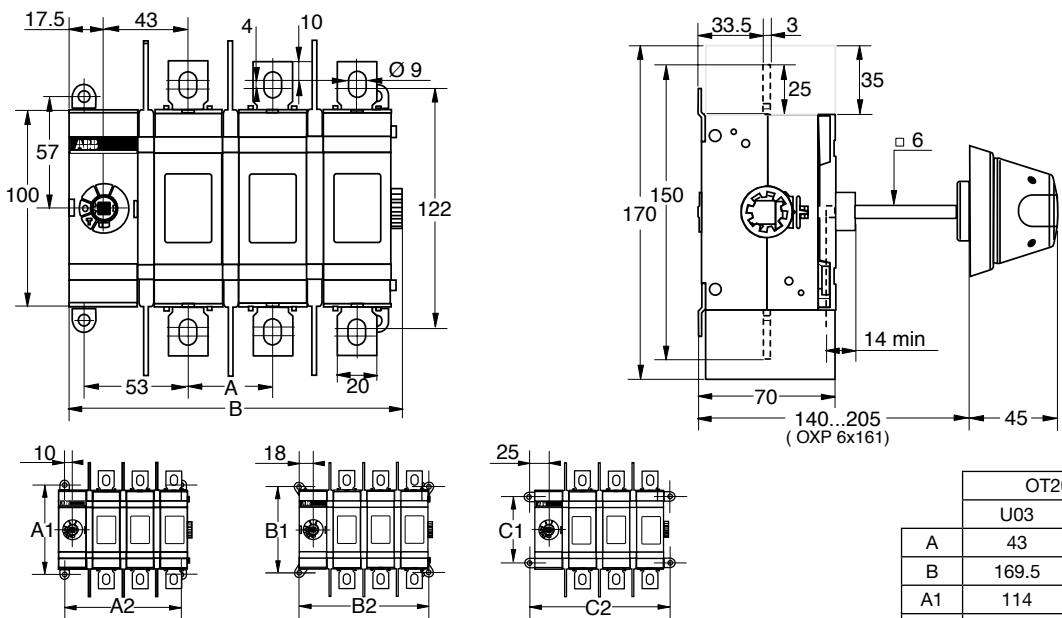


Approximate dimensions OT200_

Disconnect
switches
Non-fusible

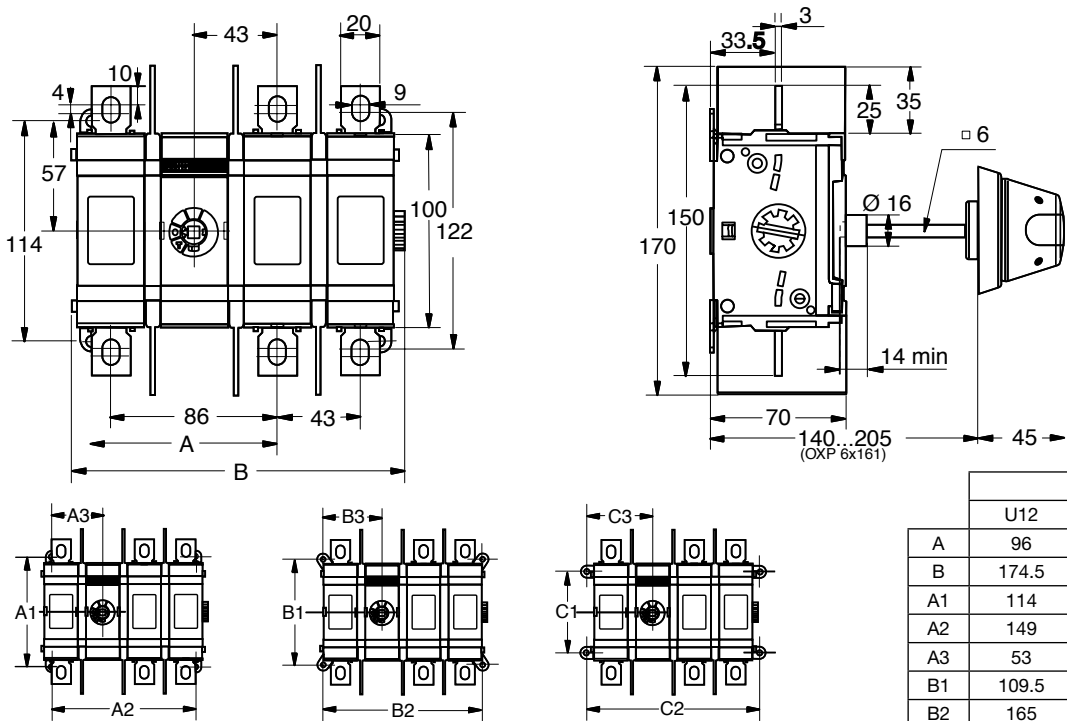
00.00 Millimeters

OT200U03, -04



	OT200 (mm)	
	U03	U04
A	43	43
B	169.5	212.5
A1	114	114
A2	149	192
B1	109.5	109.5
B2	165	208
C1	84	84
C2	179	222

OT200U12, -13, -22

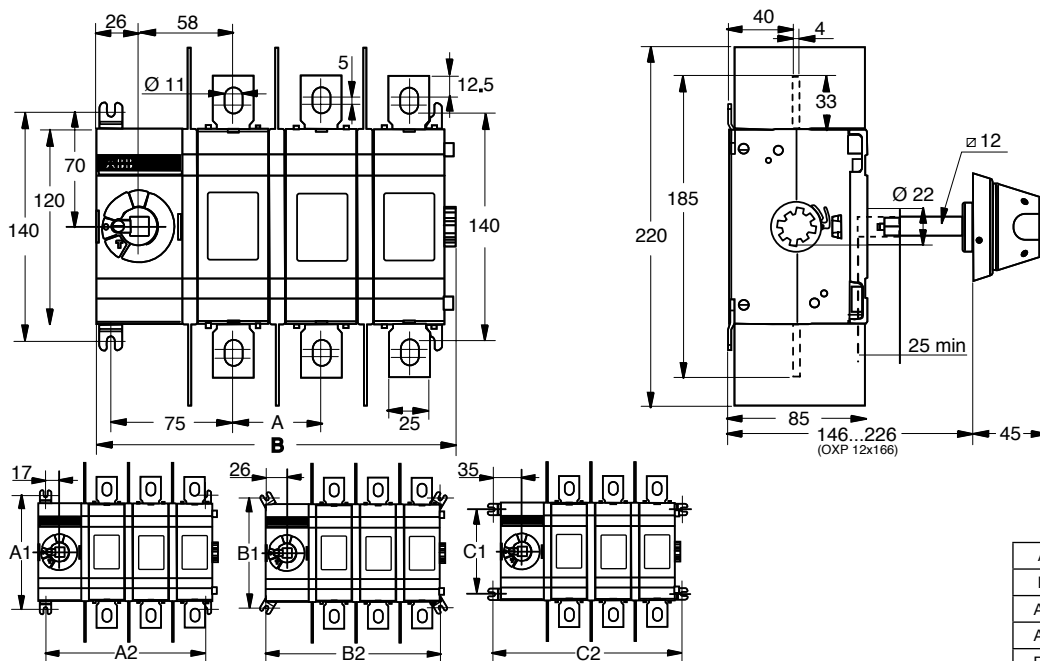


	OT200 (mm)		
	U12	U13	U22
A	96	96	139
B	174.5	217.5	217.5
A1	114	114	114
A2	149	192	192
A3	53	53	96
B1	109.5	109.5	109.5
B2	165	208	208
B3	61	61	104
C1	184	84	84
C2	179	222	222
C3	68	68	111

Approximate dimensions OT400_

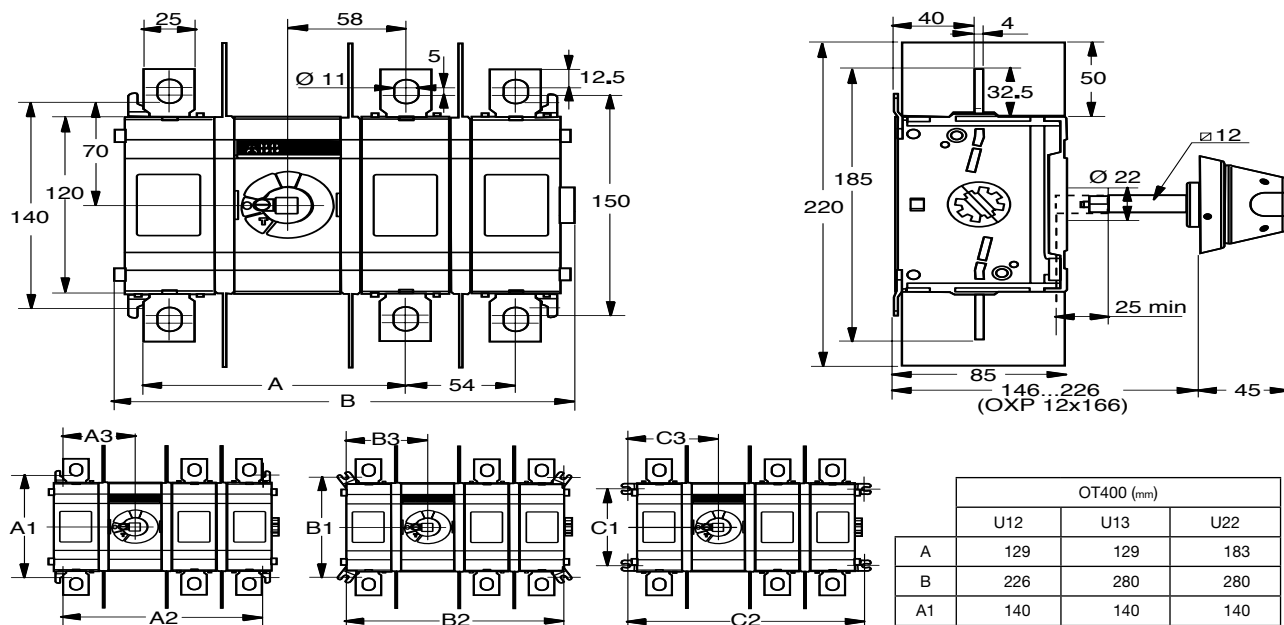
← 00.00 → Millimeters

OT400U03, -04



	OT400 (mm)	
	U03	U04
A	54	54
B	221	275
A1	140	140
A2	196	250
B1	135	135
B2	214	268
C1	104	104
C2	232	286

OT400U12, -13, -22



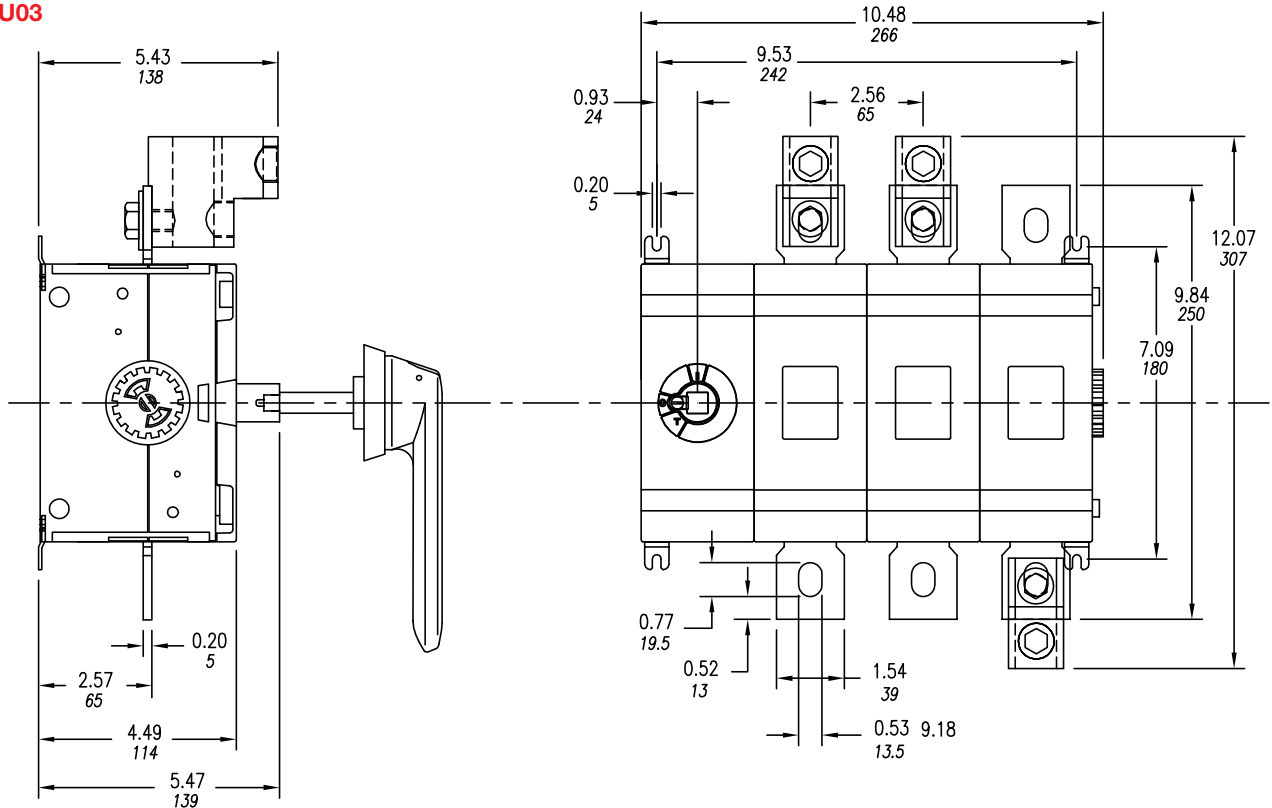
	OT400 (mm)		
	U12	U13	U22
A	129	129	183
B	226	280	280
A1	140	140	140
A2	196	250	250
A3	71	71	125
B1	135	135	135
B2	214	268	268
B3	80	80	134
C1	104	104	104
C2	232	286	286
C3	89	89	143

Approximate dimensions OT600U03 – OETL-NF800A

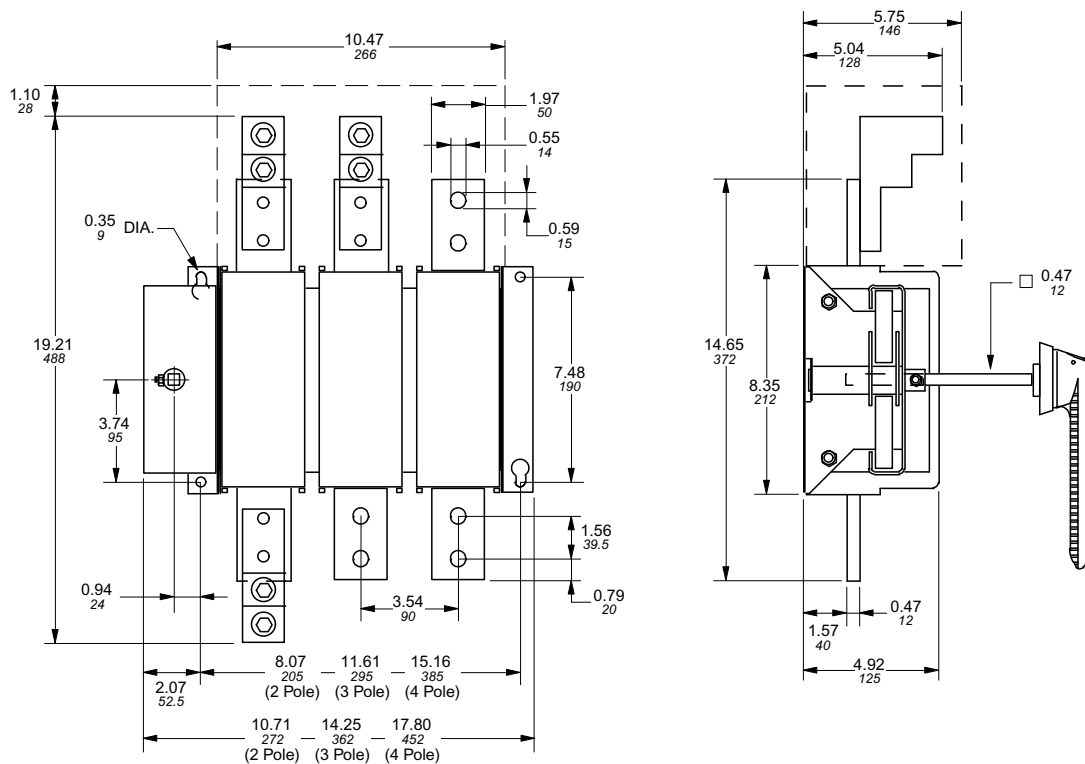
Disconnect
switches
Non-fusible

00.00 → Inches
00.00 → [Millimeters]

OT600U03



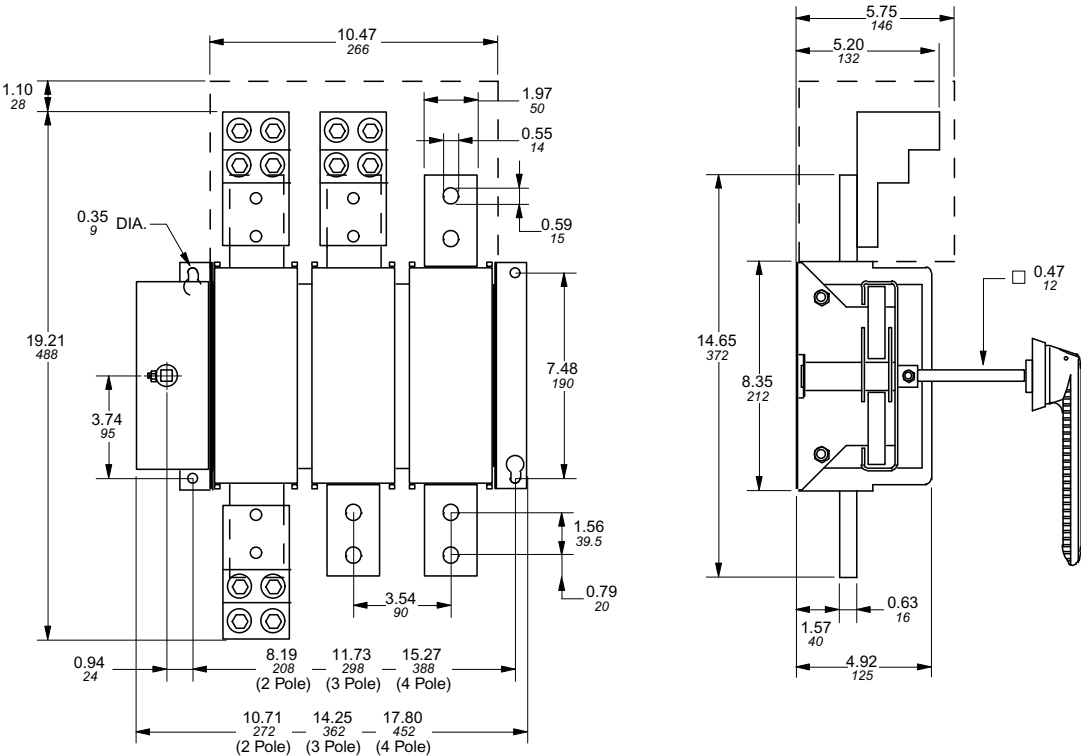
OETL-NF800A



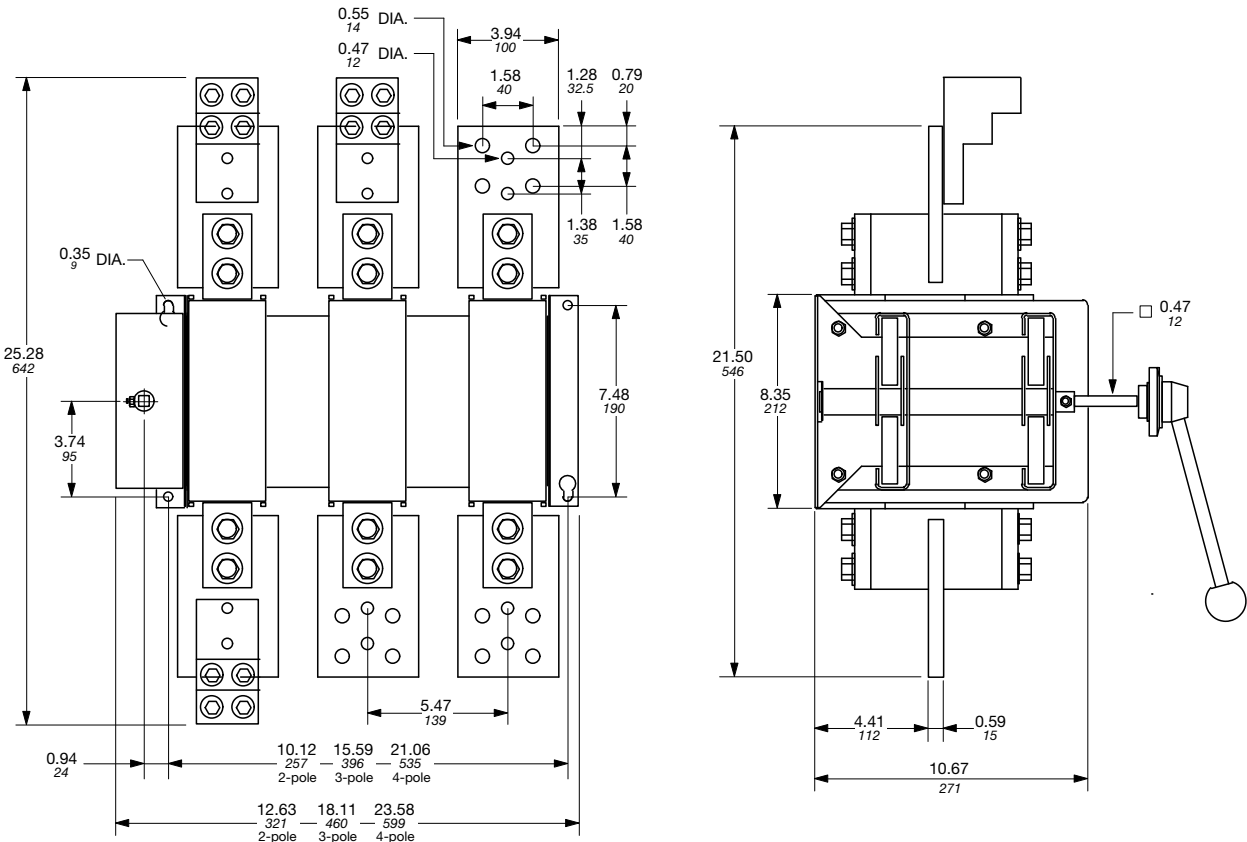
Approximate dimensions OETL-NF1200 – OETL-NF1600

00.00 00.00 Inches [Millimeters]

OETL-NF1200



OETL-NF1600

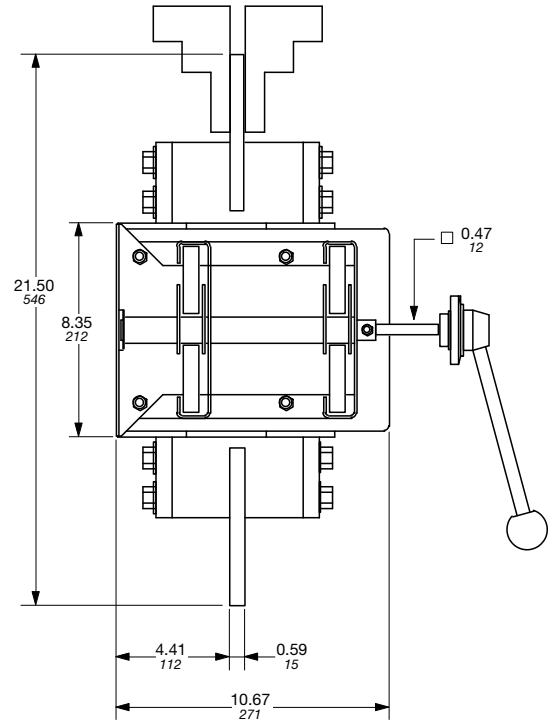
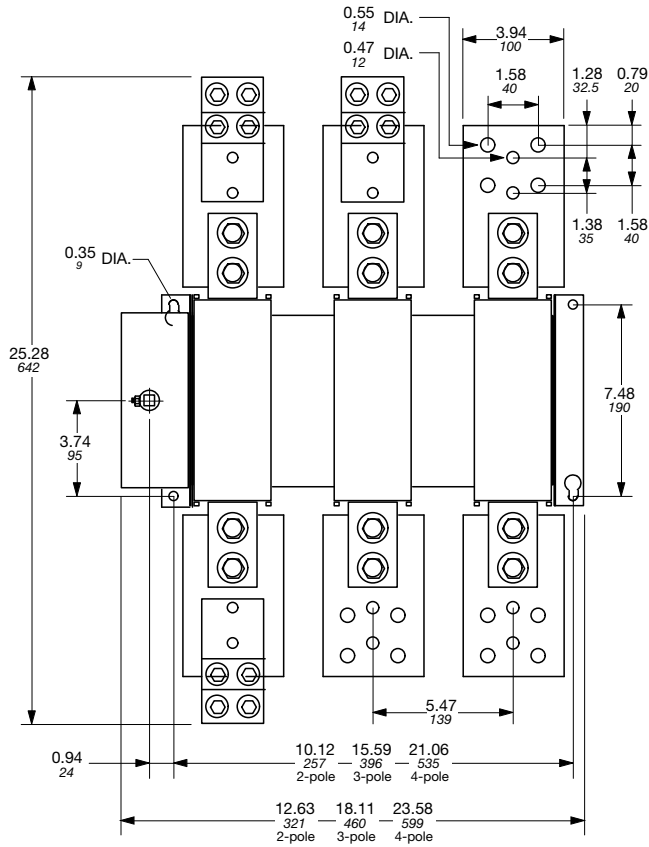


Approximate dimensions OETL-NF2000 – OETL-NF3150

Disconnect
switches
Non-fusible

00.00 Inches
00.00 [Millimeters]

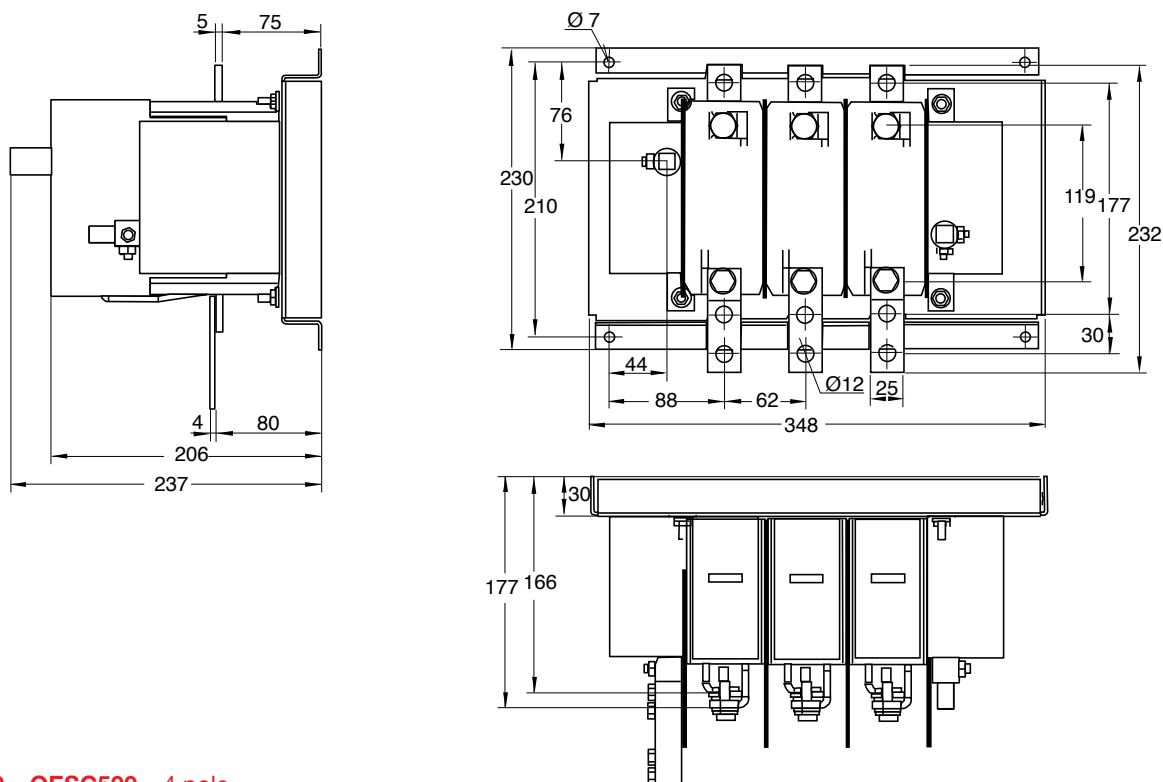
OETL-NF2000 – OETL-NF3150



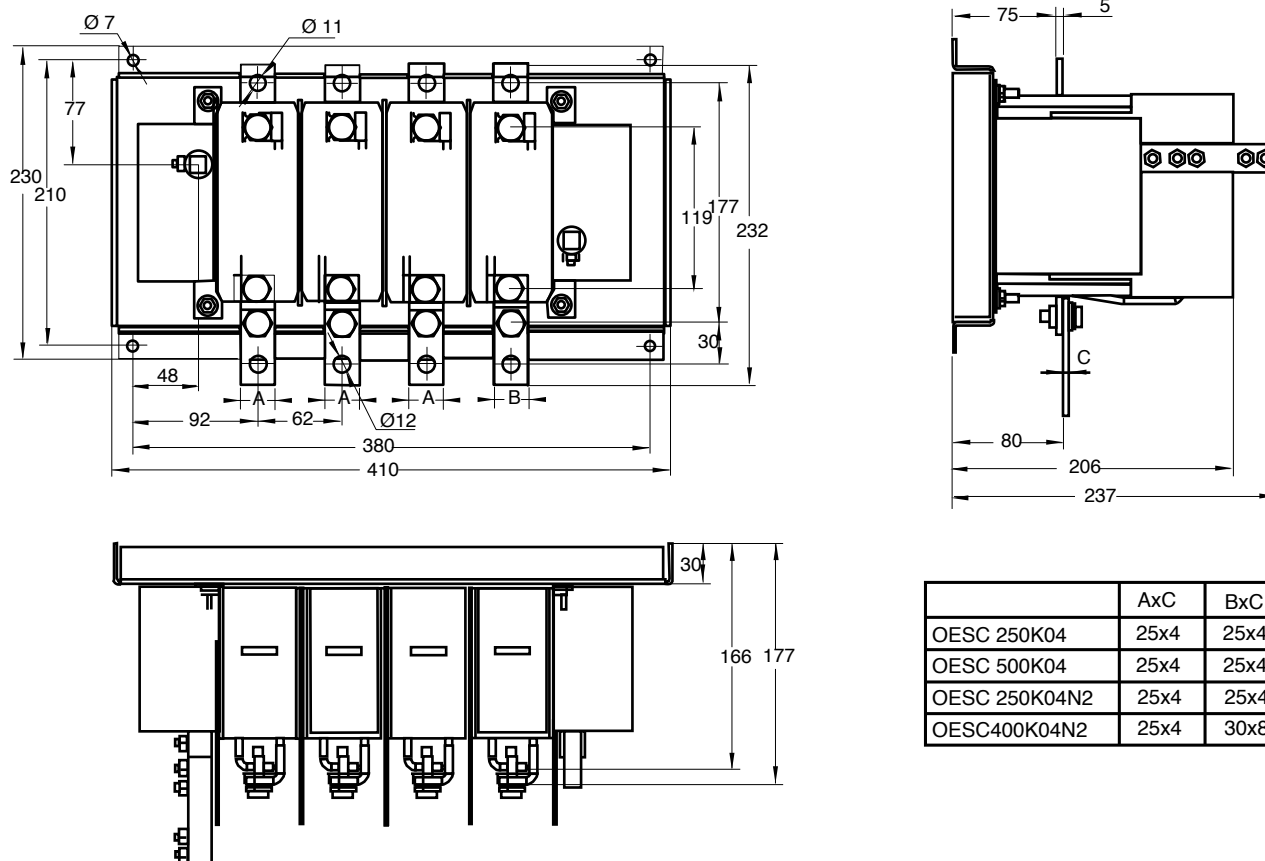
Approximate dimensions OESC250 – OESC500

← 00.00 → Millimeters

OESC250 – OESC500 – 3 pole



OESC250 – OESC500 – 4 pole



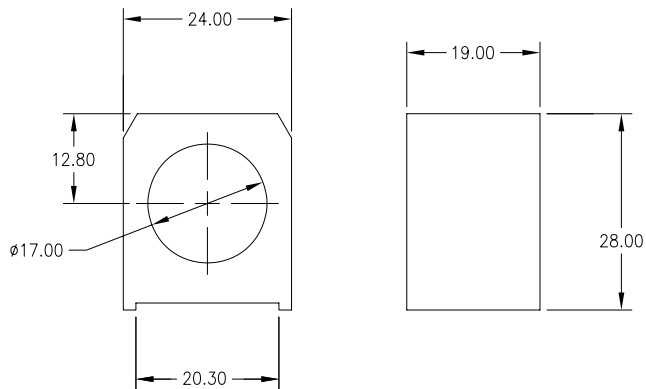
	AxC	BxC
OESC 250K04	25x4	25x4
OESC 500K04	25x4	25x4
OESC 250K04N2	25x4	25x4
OESC400K04N2	25x4	30x8

Approximate dimensions for Terminal lugs

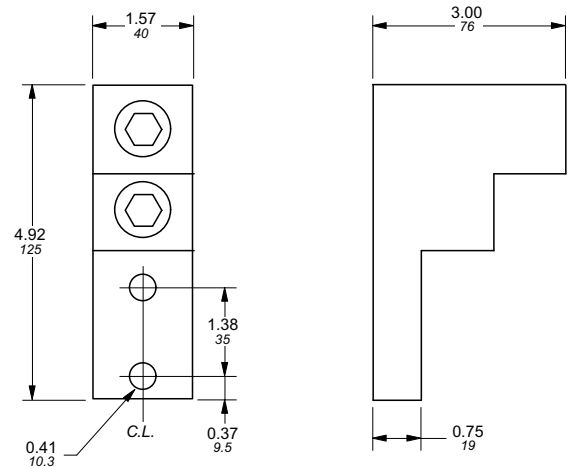
Disconnect
switches
Non-fusible

00.00 — Inches
00.00 — [Millimeters]

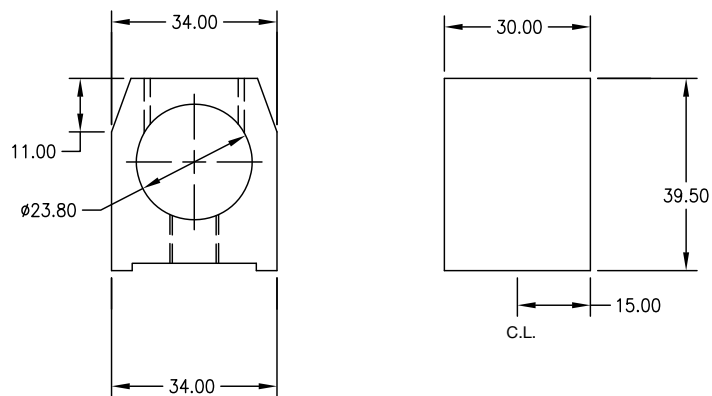
OZXA-200



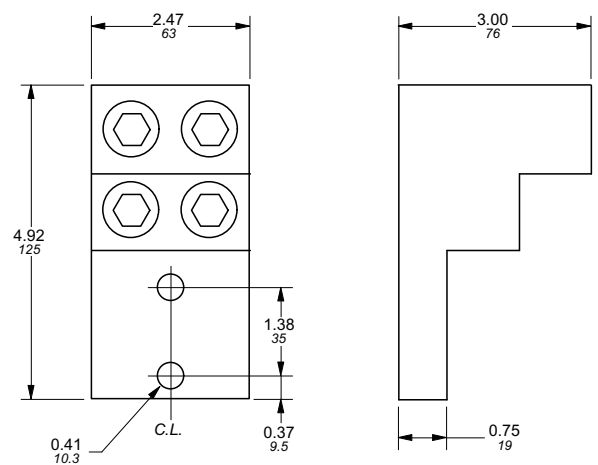
OZXA-30 — for use with 800A switches



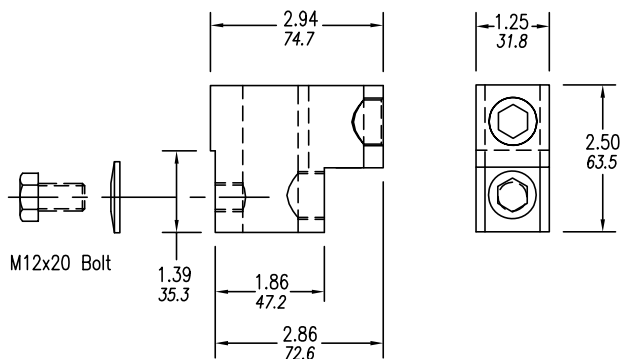
OZXA-400



OZXA-28 & OZXA-28/2 — for use with 1200A – 3150A switches



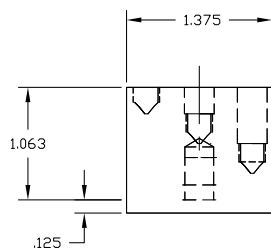
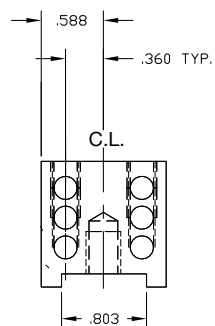
OZXA-800



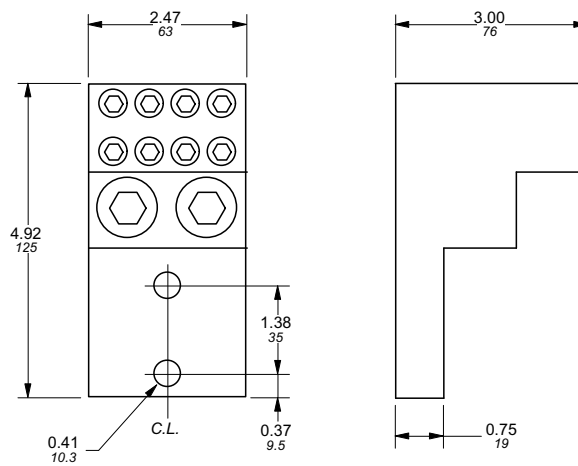
Approximate dimensions for Terminal lugs

00.00 00.00 Inches
[Millimeters]

OZXA-406 – for use with 400A switches



OZXA-32 – for use with 800A - 1600A switches

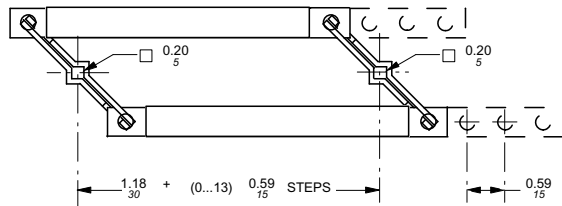


Approximate dimensions for 16A – 100A conversion mechanisms

Disconnect
switches
Non-fusible

00.00 Inches
00.00 [Millimeters]

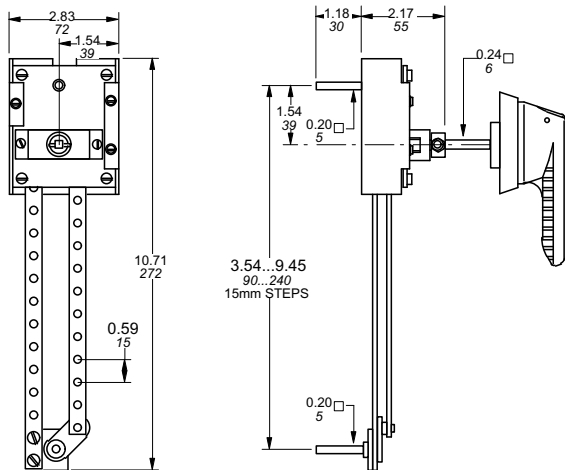
6 or 8 pole – OTZW8



For installation of 6 or 8 pole, transfer and bypass mechanisms, the following minimum and maximum mounting dimensions are given below.

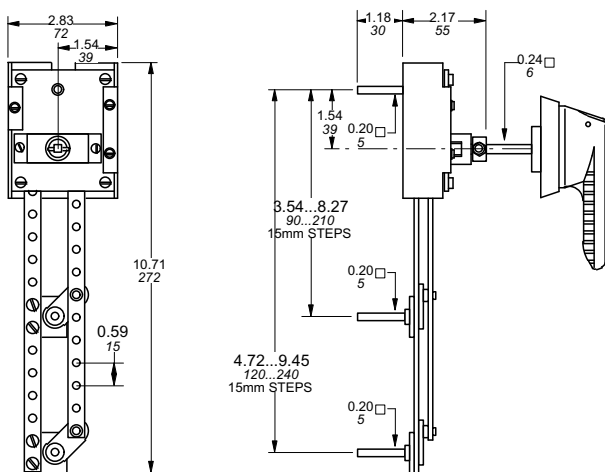
OTZW8 in combination with:	Minimum inches/mm	Maximum inches/mm
OT16E3, OT25E3, OT32E3	3.07/78	N/A
OT45E3, OT63E3	3.74/95	N/A
OT30E3, OT60E3, OT100E3	3.82/97	N/A

Transfer switch – OTZW6, OTZW6X



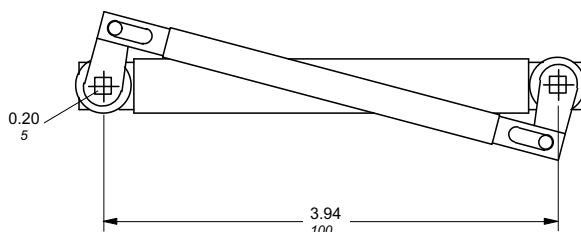
OTZW6, OTZW6X in combination with:	Minimum inches/mm	Maximum ^① inches/mm
OT16E3, OT25E3, OT32E3	4.61/117	6.57/167
OT45E3, OT63E3	5.31/135	7.28/185
OT30E3, OT60E3, OT100E3	4.84/123	6.81/173

Bypass switch – OTZW17, OTZW17X



OTZW17, OTZW17X in combination with:	Minimum inches/mm	Maximum ^① inches/mm
OT16E3, OT25E3, OT32E3	4.61/117	6.57/167
OT45E3, OT63E3	5.31/135	7.28/185
OT30E3, OT60E3, OT100E3	4.84/123	6.81/173

Mechanical interlock – OETL-ZW24



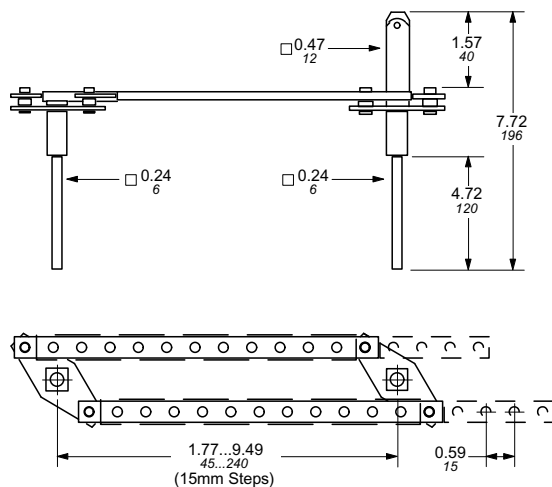
OETL-ZW24 in combination with:	Minimum inches/mm	Maximum ^① inches/mm
OT16E3, OT25E3, OT32E3	3.39 / 86	—
OT45E3, OT63E3	4.09 / 104	—
OT30E3, OT60E3, OT100E3	4.13 / 105	—

① Deeper enclosures will require a longer shaft. Please select a 5mm shaft from page 18.10 - 18.11.

Approximate dimensions for 125 – 200A conversion mechanisms

00.00 00.00 Inches
[Millimeters]

6 or 8 pole — OESA-ZW2

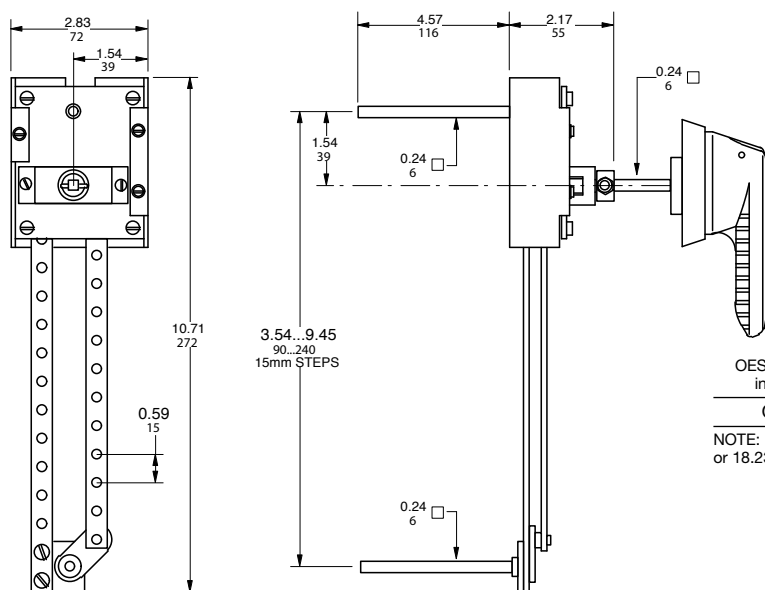


For installation of 6 or 8 pole, transfer and bypass mechanisms, the following minimum and maximum mounting dimensions are given below.

OESA-ZW2 in combination with:	Minimum inches/mm	Maximum inches/mm
OT160 - OT200	5.35/136	9.49/241

NOTE: Deeper enclosures will require a longer shaft. Please select a 12mm shaft from page 18.26 and an OETL-ZX95 shaft extension coupler from page 18.28.

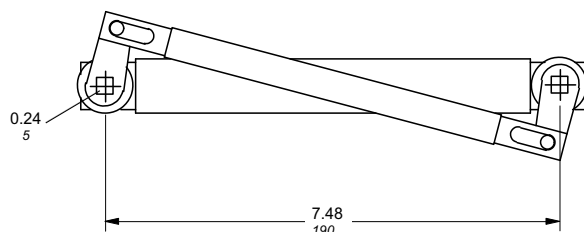
Transfer switch — OESA-ZW1, OESA-ZW1X



OESA-ZW1, OESA-ZW1X in combination with:	Minimum inches/mm	Maximum inches/mm
OT160 - OT200	4.61/117	6.57/167

NOTE: Deeper enclosures will require a longer shaft. Please select a 6mm shaft from page 18.20 or 18.23.

Mechanical interlock — OTZW10



OTZW10 in combination with:	Minimum inches/mm	Maximum inches/mm
OT160 - OT200	4.13 / 105	—

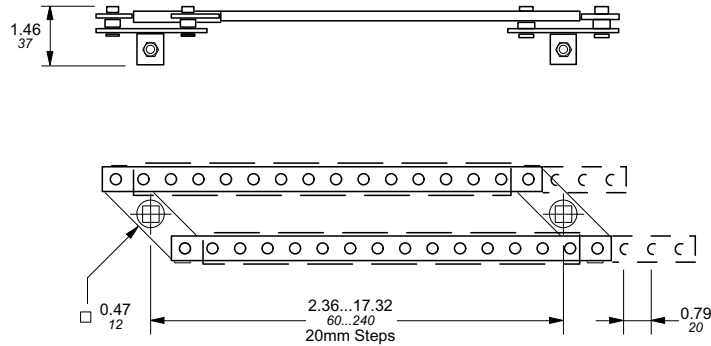
NOTE: Deeper enclosures will require a longer shaft. Please select a 6mm shaft from page 18.20 or 18.23.

Approximate dimensions for 400A – 1200A conversion mechanisms

Disconnect
switches
Non-fusible

00.00 Inches
00.00 [Millimeters]

6 or 8 pole — OETL-ZW9

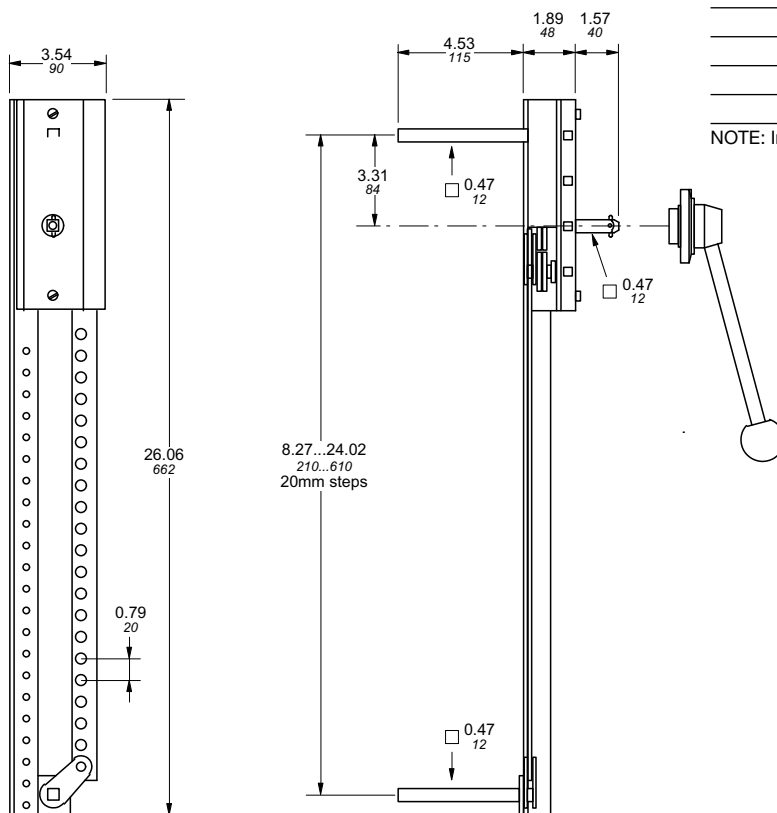


For installation of 6 or 8 pole, transfer and bypass mechanisms, the following minimum and maximum mounting dimensions are given below.

OETL-ZW9 in combination with:	Minimum inches/mm	Maximum inches/mm
OT400	7.52/191	N/A
OT600	7.52/191	N/A
OETL-NF800A	7.52/191	N/A
OETL-NF1200	7.52/191	N/A

NOTE: Handle not included

Transfer switch — OETL-ZW12



OETL-ZW12 in combination with:	Minimum inches/mm	Maximum ^① inches/mm
OT400	8.19/208	11.73/298
OT600	8.19/208	11.73/298
OETL-NF800A	8.19/208	11.73/298
OETL-NF1200	8.19/208	11.73/298

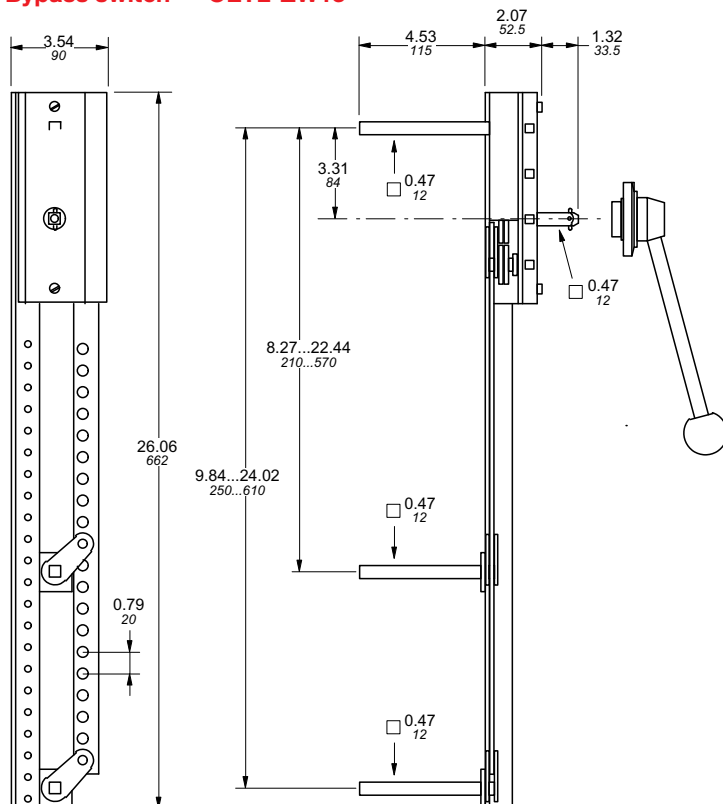
NOTE: Includes YASDA-21 handle

① Deeper enclosures will require a longer shaft. Please select a 12mm shaft from page 18.26 and an OETL-ZX95 shaft extension coupler from pg. 18.28.

Approximate dimensions for 400A – 3150A conversion mechanisms

00.00 00.00 Inches
[Millimeters]

Bypass switch – OETL-ZW13

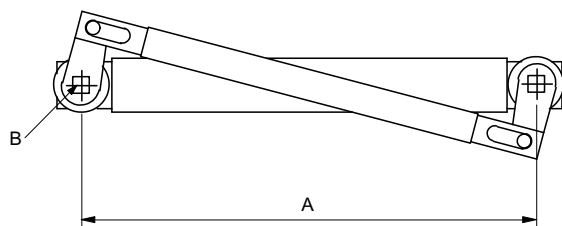


For installation of 6 or 8 pole, transfer and bypass mechanisms, the following minimum and maximum mounting dimensions are given below.

OETL-ZW12 in combination with:	Minimum inches/mm	Maximum ^① inches/mm
OT400	8.19/208	11.73/298
OT600	8.19/208	11.73/298
OETL-NF800A	8.19/208	11.73/298
OETL-NF1200	8.19/208	11.73/298

NOTE: Includes YASDA-21 handle

Mechanical interlock – OETL-ZW3, OETL-ZW14, OETL-ZW15



OETL-ZW3, 14 & 15 in combination with:	Minimum inches/mm	Maximum ^① inches/mm
OT400 & OT600	6.50/165	—
OETL-NF800 – OETL-NF1200	6.30/160	—
OETL-NF1600 – OETL-NF3150	12.00/305	—

NOTE: Handle(s) not included.

NOTE: OETL-ZW15 is the only mechanical interlock
OETL-NF1200 – OETL-NF3150 can use.

Dimensions in Inches
& mm

	A	B
OETL-ZW3	11.81 300.0	0.47 12.0
OETL-ZW14	9.84 250.0	0.47 12.0
OETL-ZW15	19.69 500.0	0.47 12.0

① Deeper enclosures will require a longer shaft. Please select a 12mm shaft from page 18.26 and an OETL-ZX95 shaft extension coupler from page 18.28.

Approximate dimensions for Handles

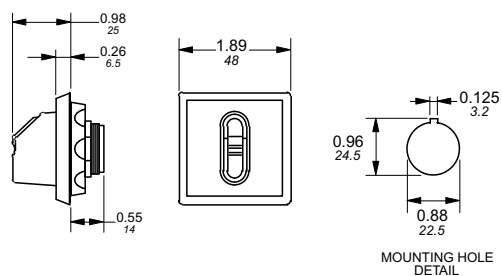
Disconnect
switches
Non-fusible

00.00 → Inches
00.00 → [Millimeters]

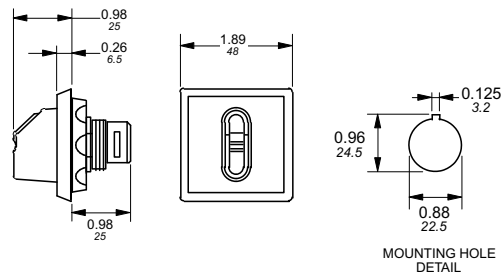
Selector handles for base and DIN rail mounted switches

Selector handles for door mounted switches

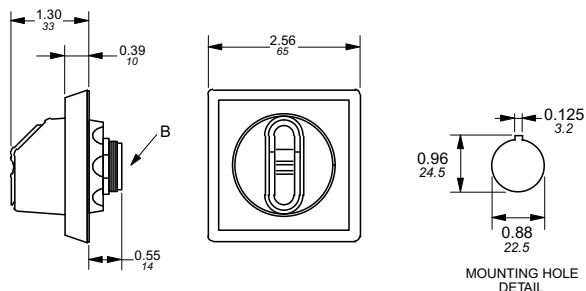
OH_1AH1 & OH_3AH1



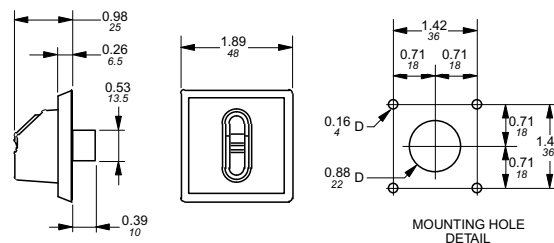
OH_1P_ & OH_3P_



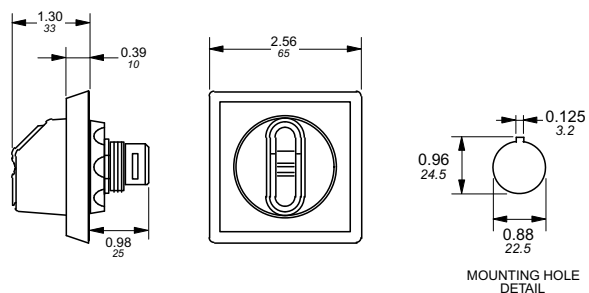
OH_2A_



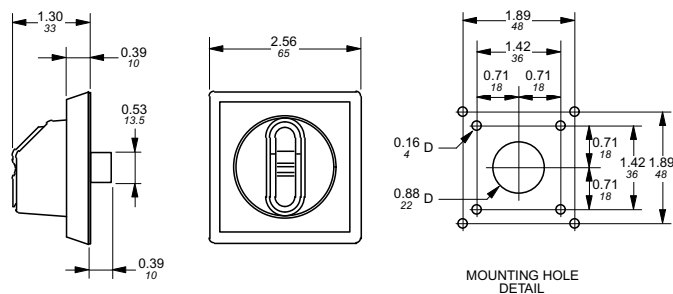
OH_1R_ & OH_3R_



OH_2P_



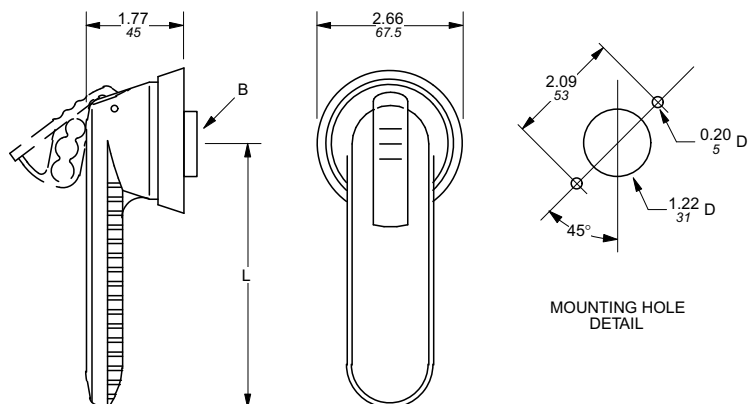
OH_2R_



Approximate dimensions for Handles

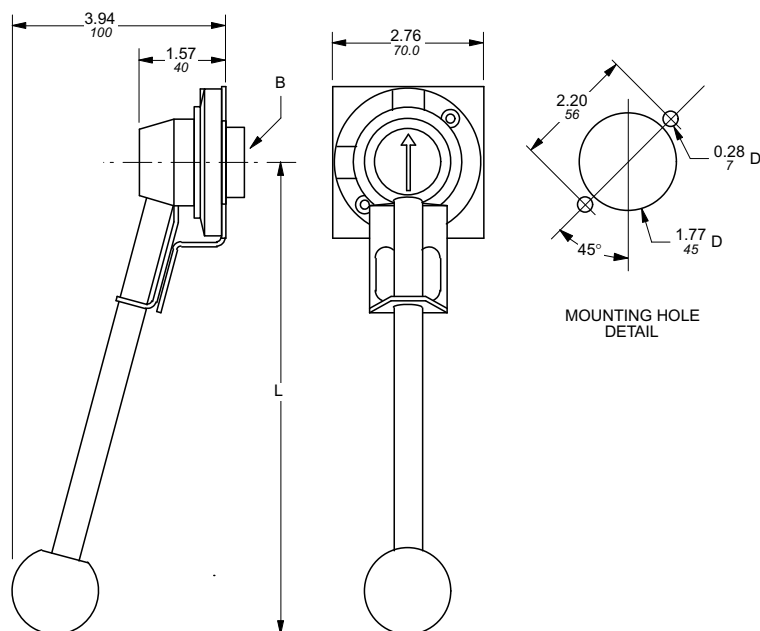
00.00 00.00 Inches
[Millimeters]

Pistol handles



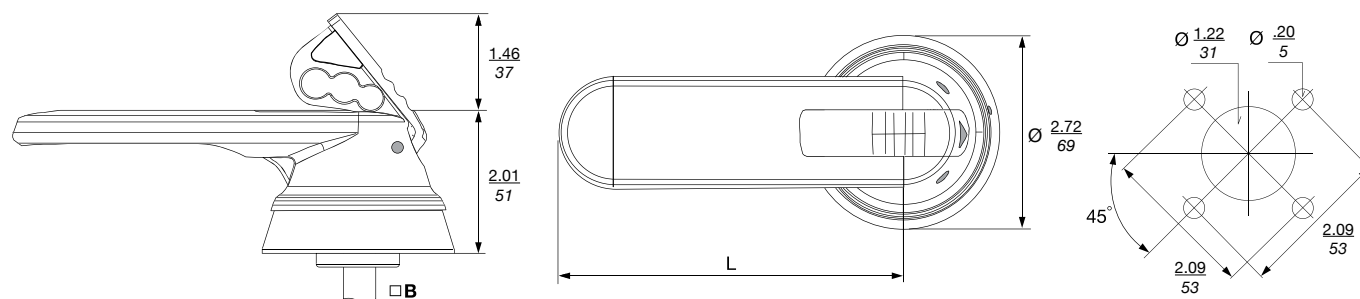
A Catalog number	L Inches/ mm	□B Shaft size Inches/ mm	NEMA / UL Type
OH_45J5	1.8/45	0.20/5	1, 3R, 12
OH_65J5	2.6/65	0.20/5	1, 3R, 12
OH_45J6	1.8/45	0.24/6	1, 3R, 12
OH_65J6	2.6/65	0.24/6	1, 3R, 12
OH_80J6	3.1/80	0.24/6	1, 3R, 12
OH_65J8	2.6/65	0.31/8	1, 3R, 12
OH_80J8	3.1/80	0.31/8	1, 3R, 12
OH_125J12	4.9/125	0.47/12	1, 3R, 12
OH_145J12	5.7/145	0.47/12	1, 3R, 12
OH_175J12	6.9/175	0.47/12	1, 3R, 12
OH_65L5	2.6/65	0.20/5	1, 3R, 4, 4X, 12
OH_80L6	3.1/80	0.24/6	1, 3R, 4, 4X, 12
OH_80L8	3.1/80	0.31/8	1, 3R, 4, 4X, 12
OH_145L12	5.7/145	0.47/12	1, 3R, 4, 4X, 12
OH_175L12	6.9/175	0.47/12	1, 3R, 4, 4X, 12

— = Handle color, B (Black) or Y (Red/Yellow)



A catalog number	L inches/mm	□B Shaft size inches/mm	NEMA Type
YASDA-7	8.66/220	0.47/12	1, 3R, 4, 4X, 12
YASDA-8	8.66/220	0.47/12	1, 3R, 4, 4X, 12
YASDA-21	8.66/220	0.47/12	1, 3R, 4, 4X, 12
YASDA-6	12.60/320	0.47/12	1, 3R, 4, 4X, 12

18



Handle type	OHM45L5	OHM65L5	OHM65L6	OHM125L12	OHM175L12	OHM275L12
L	1.8/45	2.6/65	2.6/65	4.9/125	6.9/175	10.8/275
□B	.2/5	.2/5	.2/6	.5/12	.5/12	.5/12

PowerLine Fusible Disconnect switches



PowerLine

Compact, heavy duty
Fusible disconnect switches
30A – 800A, 600V

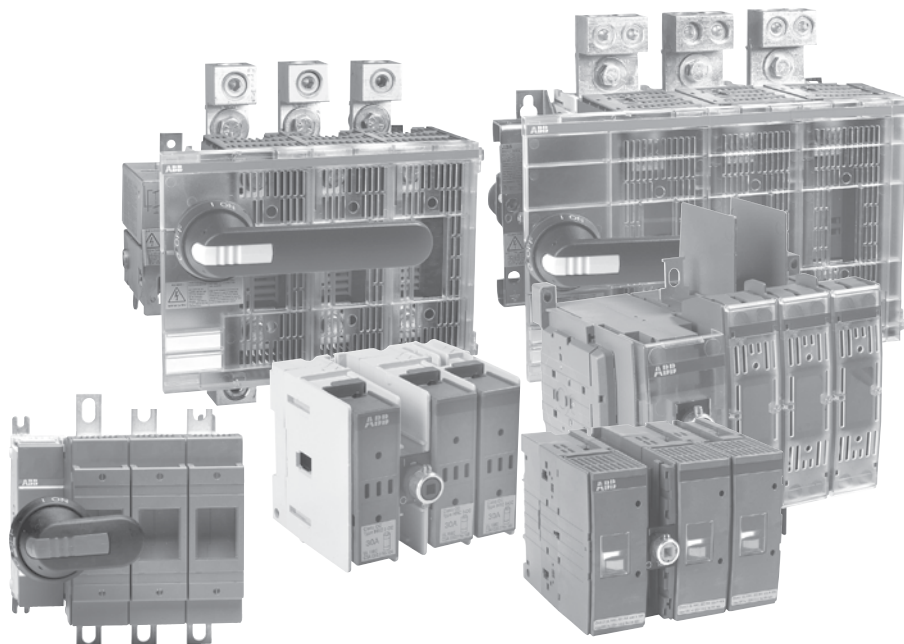
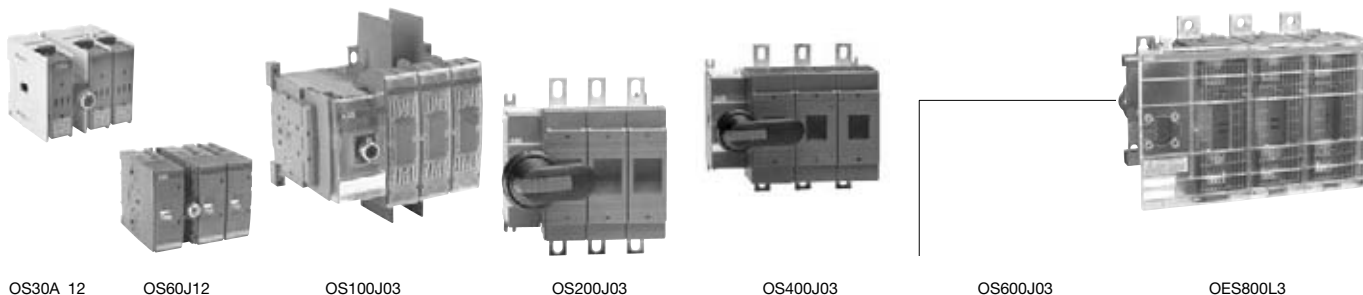


ABB PowerLine includes seven different amperage sizes from 30A to 800A. All PowerLine fusible switches are designed to meet customer requirements in terms of high interrupting capacity and long electrical life while occupying little more panel space than the appropriate fuses. The basic construction provides flexibility and high performance in an extremely compact size. ABB PowerLine switches are a perfect choice to withstand the heat and humidity of the tropics, the extreme cold of the arctic and any rugged industrial environment you may have.

General information

Selection guide

OS30ACC12 – OES800L3



Catalog number 3 pole		OS30ACC12	OS30AJ12	OS60J12	OS100J03	OS200J03	OS400J03	OS600J03	OES800L3
General purpose amp rating A		30	30	60	100	200	400	600	800
Catalog reference Page #		18.79	18.79	18.83	18.83	18.83	18.87	18.87	18.87
Approvals ①		2 pole 3 pole 4 pole	N/A UL98 & IEC UL98 & IEC	N/A UL98 & IEC UL98 & IEC	N/A UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC
Technical ratings (UL, CSA)									
Max operating voltage V		600	600	600	600	600	600	600	600
Max horsepower rating Three phase									
Single phase	240V HP	7.5	7.5	15	30	60	125	200	250
	480V HP	15	15	30	60	125	250	400	500
	600V HP	20	20	50	75	150	350	500	600
	120V HP	2	2	—	—	—	—	—	—
240V HP		3	3	—	—	—	—	—	—
UL fuse class		CC	J	J	J	J	J	J	L
Technical ratings (IEC)									
Rated insulation and operational voltage. AC20 and DC20 V		1000	1000	1000	1000	1000	1000	1000	1000
Rated thermal current, I _n									
AC 20/DC 20	open	32	32	63	160	200	400	630	800
	enclosed	32	32	63	160	200	400	600	720
AC 21A	≤500V	32	32	63	160	200	400	630	800
	≤690V	32	32	63	160	200	400	630	800
Rated operational power AC23									
400/415V	kW	14/15	14/15	30	80/90	110	220/230	355	350/380
	690V	25	25	60	132	200	400	560	600
Physical characteristics									
Weight	3 pole switch lb	1.54	1.54	2.86	3.30	5.9	12.56	28.66	37.44
	4 pole lb	1.98	1.98	3.52	3.96	7.5	15.21	37.48	46.26
Dimension	3 pole H in	3.66	3.60	3.94	5.67	6.5	9.29	12.04	10.10
	W in	4.15	4.15	5.63	7.07	7.1	10.04	13.50	14.80
	D in	4.10	4.10	5.04	5.10	5.2	6.93	9.17	9.17
Accessories									
Double break contacts		S	S	S	S	S	S	S	S
Fuse cover		S	S	S	S	S	S	S	S
Terminal lug kit		Integral	Integral	Integral	OZXA-24	OZXA-200	OZXA-400	OZXA-800	OZXA-27
Terminal shroud		Not required	Not required	Not required	•	•	•	•	•
Auxiliary contact		•	•	•	•	•	•	•	•
Handle UL/NEMA type									
Type 1, 3R, 12		•	•	•	•	•	•	•	•
	Type 1, 3R, 4, 4X, 12	•	•	•	•	•	•	•	•
Conversion kit									
6 pole		•	•	•	•	•	•	•	•
	Transfer	•	•	•	•	•	•	•	•
Bypass		—	—	•	•	•	•	•	•
	Mechanical interlock	•	•	•	•	•	•	•	•
Electrical interlock		—	—	—	—	—	•	•	•

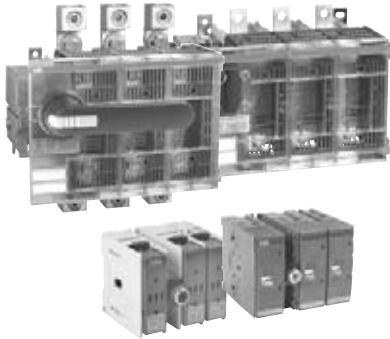
S = Standard
• = Available
— = Not available

UL listed, CSA approved, IEC rated, CE marked, CCC certified

① UL listed switches are also CSA approved.

General information

Disconnect
switches
Fusible



Versatility

ABB PowerLine fusible disconnect switches are designed to offer maximum versatility in many ways.

Broad range

PowerLine is seven amperage sizes from 30A – 800A. All sizes are compact, heavy duty, 600V disconnect switches. Many sizes are available in 2, 3, 4, 6, and 8 pole configurations.

Compact size

The PowerLine's unique compact dimensions allow panel size reduction in new applications or easily retrofits into space-sensitive existing applications. The entire switch occupies little more panel space than the appropriate fuses.

International acceptance

PowerLine fusible switches are available with a wide range of fuse clip options:

UL	USA	CSA	Canada
DIN	Europe	BS	United Kingdom
NFC	France	Ultra-rapid	

As well as the corresponding approvals: UL listed, CSA approved, IEC rated, CE marked, and most other international standards.

UL98 (CSA 22.2 No.4) — UL File # E101914, CSA File #LR58077

For 30A – 800A switches, OH__ pistol grip handles

Suitable for use as motor disconnects or industrial control panel disconnects on service entrance equipment, panelboards, switchboards, industrial control equipment, motor control centers, etc. and are horsepower rated and ampere rated.

IEC

Tested in accordance to IEC 947-1 and 3, IEC 664, IEC 269, and IEC 204

CE

Compliance with the European Machine Directive IEC 204 (EN 60204)



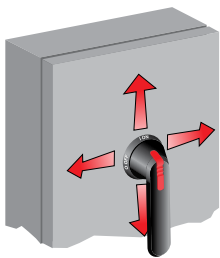
Installation options

Rotary through the door: available in all sizes, 30A – 800A

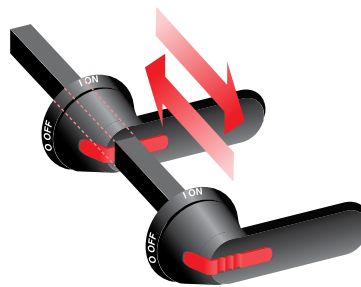
Flange: versions available in 30A to 200A sizes

A rotary disconnect switch may be installed nearly anywhere in a control panel — mounting is not limited to the upper right hand corner of the panel.

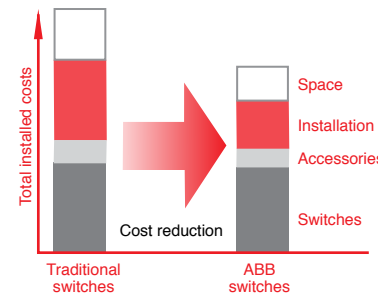
Mount the switch where it conveniently fits in your panel and simply install the handle on the door, in line with the switch. The switch and handle are mechanically linked through an easily adjusted shaft. This allows fast and easy installation into panels of different depths and layouts.



Rotary through the door installation

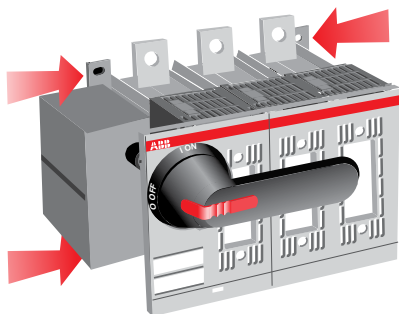


Easily adjusted shaft

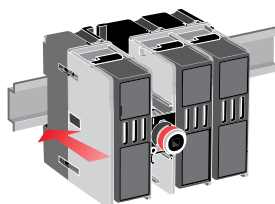


Broad range of accessories

- Handles — UL/NEMA type 1, 3R, 4, 4X, 12
IP 54, 65, 66
- Auxiliary contacts available for every switch size
- Additional terminal poles (neutrals & grounds)
- Terminal shrouds
- 6 & 8 pole mechanisms
- Transfer mechanisms
- Bypass mechanisms
- Mechanical interlock mechanisms
- Electro-mechanical interlock mechanisms
- Motor operators



Base mounting with screws



DIN rail mounting

Mounting

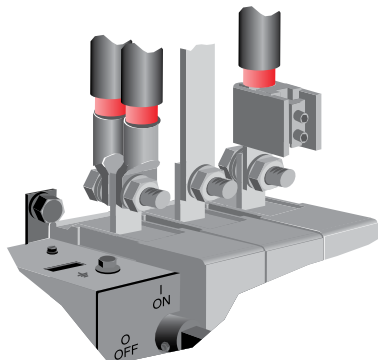
PowerLine disconnect switch mounting possibilities:

- DIN rail mounting — OS30, OS60 & OS100
- Base mounting with screws

Terminal connections

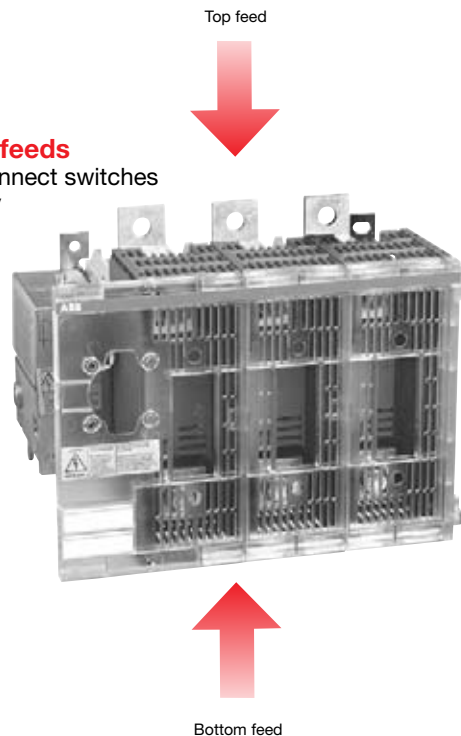
Versatile connecting possibilities, 100A – 800A:

- Ring tongue crimp on lugs
- Direct bus
- Terminal lugs



Incoming power feeds

All PowerLine disconnect switches can be used equally well with either top or bottom incoming power feeds.

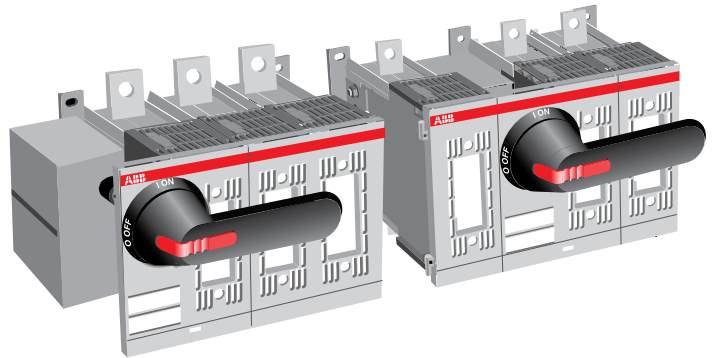
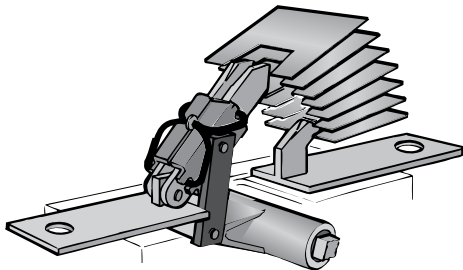


General information

Disconnect
switches
Fusible

High performance

The mechanism is quick-make/quick-break, meaning the contacts operate independently of the speed and force at which the handle is operated. This, in combination with unique, patented self-cleaning contacts, provides a long, reliable, electrical life.

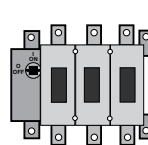


Modular construction^①

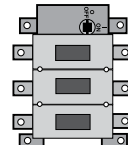
Modular switch construction allows the operating mechanism to be placed at either end of the switch or anywhere in-between, 100A – 800A.

Mounting positions

PowerLine disconnect switches may be mounted in any position:



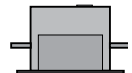
Vertical



Horizontal



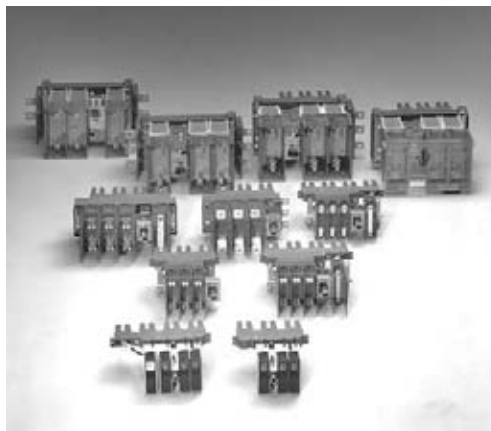
Ceiling



Floor

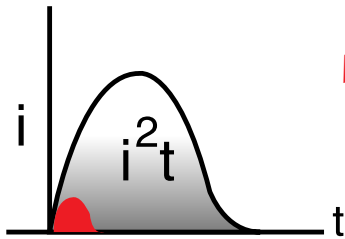
Unique terminal locations^①

- Side connections
- Rear connections
- Bus stabs



^① Please consult ABB sales office for additional information

General information



Fuse

Superior short circuit protection

**All frames rated at
200kA!!**

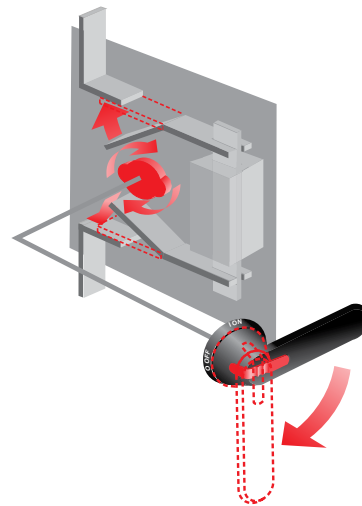
Superior short circuit protection

Fuses efficiently limit the peak let-through current, i^2t , during a fault better than any other product, contributing to safety and reliability. Selectivity and coordination are easily accomplished with fused protection. PowerLine fusible disconnect switches accept a wide range of North American fuses:

Class CC	30A
Class J	30A – 600A
Class L	800A
Class T	800A

Fuse isolation

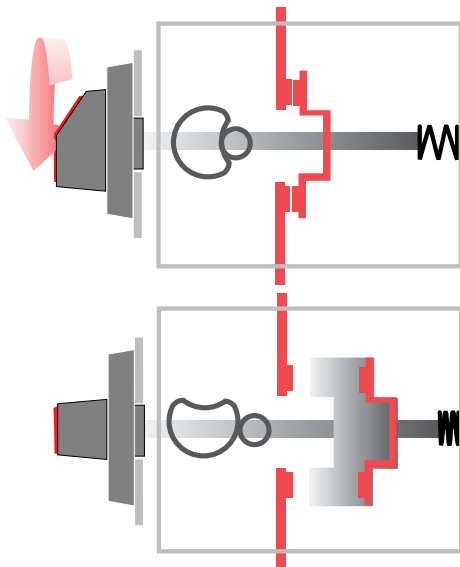
PowerLine switches contain contacts on both sides of the fuse. The fuses are totally isolated in the “OFF” position, reducing the risk of shock to authorized personnel — even if the switch has been back fed.



Fuse isolation

Finger proof

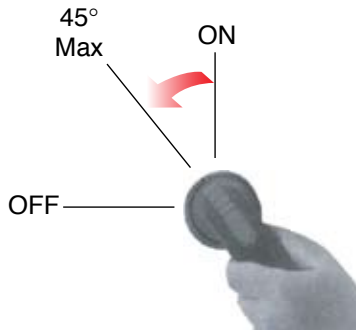
Dead-front construction plus terminal shrouds reduce the risk of touching live parts, improving the safety and reliability of the installation.



Positive opening operation

Positive opening operation

All switches operate according to the “positive opening operation” principle. This means the contacts are opened and closed by a driven mechanism, a solid moving bridge, not merely springs. This provides reliable position indication to the user; if the switch is in the “OFF” position, the contacts are open.



Welded contact protection

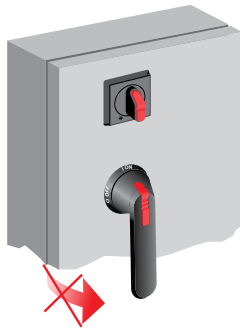
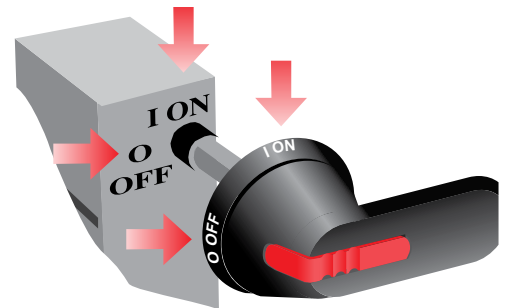
Positive opening operation safeguards users in case of welded contacts due to an overload or short circuit.

The switch can not reach the “OFF” position unless the contacts are truly open. If any or all of the contacts are welded shut, the switch mechanism will only allow the handle to operate a maximum of 45°. This safeguards personnel by:

- alerting them a problem has occurred
- maintaining the door interlock and
- not allowing a padlock to be inserted.

Clear position indication

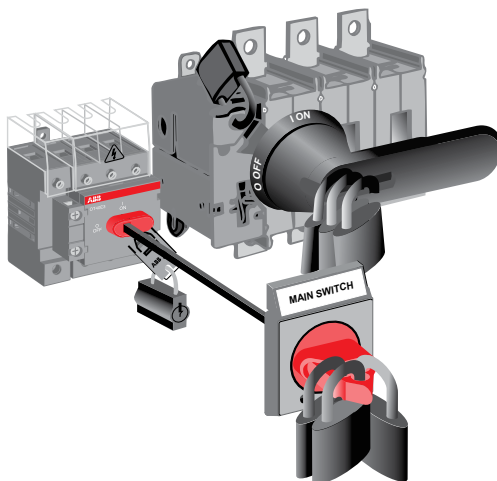
All switches and handles have clear “ON” and “OFF” designations. Whether the door is open or closed, it is possible to simply look at the switch and determine if the switch is “ON” or “OFF”.



Door interlock

Door interlock

The handle and shaft provide door interlock, the door can not be opened when the switch is in the “ON” position. NOTE: Some handles provide a method for qualified personnel to circumvent the door interlock. This is commonly referred to as a “defeater” mechanism.



Handle and mechanism padlocked OFF

Padlockable

Handles can be padlocked in the “OFF” position with up to three padlocks; additionally, the switch mechanism can be directly padlocked in the “OFF” position when the door is open. NOTE: Some handles can be ordered with the ability to padlock in both the “ON” & “OFF” positions. Please consult your ABB sales office for ordering information.

Track resistant material

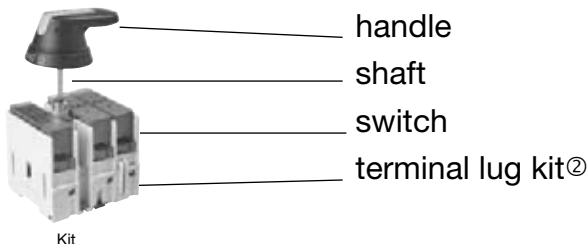
Excellent track resistant material, CTI > 600V, IEC 112, reduces the risk of flashover between phases in even the most severe circumstances.

Kits

30A – 800A, 600V, 3 pole ①
UL fuse class J, CC, L

Each kit includes:

- 1 three pole switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



Kits with selector handles

UL general purpose amp rating	UL Fuse type 600V	Maximum horsepower rating					Kit catalog number	List price
		Three phase						
		200V	208V	240V	480V	600V		
30	J	5	7.5	7.5	15	20	OSJ30B2A1-180	\$ 314
30	CC	5	7.5	7.5	15	20	OSC30B2A1-180	314

Kits with pistol handles

UL general purpose amp rating	UL Fuse type 600V	Maximum horsepower rating					Kit catalog number	List price
		Three phase						
		200V	208V	240V	480V	600V		
30	J	5	7.5	7.5	15	20	OSJ30B6-150	\$ 374
30	CC	5	7.5	7.5	15	20	OSC30B6-150	374
60	J	15	15	15	30	50	OSJ60B6-150	472
100	J	25	25	30	60	75	OSJ100B8-150	646
200	J	50	50	60	125	150	OSKJ200B8-290	1566
400	J	100	125	125	250	350	OSKJ400B4-280	2176
600	J	150	150	200	400	500	OSKJ600B4-280	3406
800	L	200	200	250	500	600	OSL800B4-280	5266

Components for kits with selector handles

Kit catalog number	Switch	Handle ③				Shaft ④			Terminal lugs		
	Catalog number	NEMA type	Marking	Handle Defeat-able	Mounting catalog number	Length depth⑤ (inches)	Shaft (inches/mm)	Catalog number	Wire size	Wire type	Catalog number
OSJ30B2A1-180	OS30AJ12	1, 3R, 12	I/O & Off/On	—	OHB2AJ1	6.3 - 9.5	7.1/180	OX55X180	#18 - 8	Cu	Integral
OSC30B2A1-180	OS30ACC12	1, 3R, 12	I/O & Off/On	—	OHB2AJ1	6.3 - 9.5	7.1/180	OX55X180	#18 - 8	Cu	Integral

Components for kits with pistol handles

Kit catalog number	Switch	Handle ③				Shaft ④			Terminal lugs		
	Catalog number	NEMA type	Marking	Handle Defeat-able	Mounting catalog number	Length depth⑤ (inches)	Shaft (inches/mm)	Catalog number	Wire size	Wire type	Catalog number
OSJ30B6-150	OS30AJ12	1, 3R, 12	I/O & Off/On	Yes	OHB65J5	5.3 - 8.3	5.9/150	OX55X150	#18 - 8	Cu	Integral
OSC30B6-150	OS30ACC12	1, 3R, 12	I/O & Off/On	Yes	OHB65J5	5.3 - 8.3	5.9/150	OX55X150	#18 - 8	Cu	Integral
OSJ60B6-150	OS60J12	1, 3R, 12	I/O & Off/On	Yes	OHB65J6	5.5 - 8.5	5.9/150	OX66X150	#14 - 4	Cu	Integral
OSJ100B8-150	OS100J03	1, 3R, 12	I/O & Off/On	Yes	OHB80J6	5.5 - 8.5	5.9/150	OX66X150	#14 - 2/0	Cu/Al	OZXA-24
OSKJ200B8-290	OS200J03	1, 3R, 12	I/O & Off/On	Yes	OHB80J6	10.5 - 12.7	11.4/290	OX66X290	#6 - 300kcmil	Cu/Al	OZXA-200
OSKJ400B4-280	OS400J03	1, 3R, 12	I/O & Off/On	Yes	OHB145J12	7.9 - 12.2	11.0/280	OX12X280	#2 - 600kcmil	Cu/Al	OZXA-400
OSKJ600B4-280	OS600J03	1, 3R, 12	I/O & Off/On	Yes	OHB145J12	11.2 - 14.0	11.0/280	OX12X280	(2) #2 - 600kcmil	Cu/Al	OZXA-800
OSL800B4-280	OES800J3	1, 3R, 12	I/O & Off/On	Yes	OHB145J12	11.2 - 14.0	11.0/280	OX12X280	(2) #2 - 600kcmil	Cu/Al	OZXA-27

If other handles or shafts are desired, please order from the individual component pages 18.79 – 18.91.

① Other pole configurations available. Please see the individual component pages.

② 30A and 60-A fusible switches include standard integral terminal lugs.

③ All handles are black and accept three padlocks. For others, please see the individual component pages.

④ Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

30A, Base & DIN rail mounted UL fuse Class J,CC

Disconnect
switches
Fusible

For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft



OS30AJ12



OXS5X180



OHB2AJ1



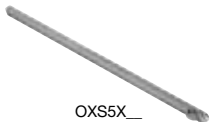
OS30A__12



OHB2__



OHY2__



OXS5X__


30 Amp switches, 600V

UL general purpose amp rating	UL Fuse type 600V	Maximum horsepower rating			Terminal lugs		Catalog number	List price
		Three phase			Wire size	Wire type		
		240V	480V	600V				
3 pole							3 pole	
30	J	7.5	15	20	#18 – 8	Cu	OS30AJ12	\$ 280
30①	CC	7.5	15	20	#18 – 8	Cu	OS30ACC12	
4 pole							4 Pole	
30	J	7.5	15	20	#18 – 8	Cu	OS30AJ22F	350
30①	CC		7.5	15 20	#18 – 8	Cu	OS30ACC22F	

Selector handles — for use with shafts □ .20 x .20" (□ 5 x 5 mm)

UL/NEMA type	IEC type	Color	Defeat- able	Padlock- able	Weight (lbs.)	Catalog number	List price
All marked both O/I & Off/On							
1,3R,12	IP65	Black	—	Yes	0.16	OHB2AJ1	\$ 28
1,3R,12	IP65	Red/Yel	—	Yes	0.16	OHY2AJ1	28
1,3R,12	IP65	Blk	Yes	Yes	0.16	OHB2AJ	30
1,3R,12	IP65	Red/Yel	Yes	Yes	0.16	OHY2AJ	30

Shafts — for use with OH_2_ selector handles □ .20 x .20" (□ 5 x 5 mm)

Shaft length (inches/mm)		Mounting depth ^① (in inches)	Weight (lbs.)	Catalog number	List price
3.3/85		5.5 – 5.7	0.04	OXS5X85	\$ 4
4.1/105		5.5 – 6.5	0.04	OXS5X105	4
4.7/120		5.5 – 7.1	0.05	OXS5X120	4
5.1/130		5.5 – 7.5	0.05	OXS5X130	6
7.1/180		6.3 – 9.4	0.08	OXS5X180	6
9.8/250		9.1 – 12.2	0.10	OXS5X250	12
13.0/330		12.2 – 15.4	0.14	OXS5X330	20

^① Rejection style fuses only.

30A, Base & DIN rail mounted Handles & shafts

For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft



OS30AJ12

+



OXP5X170

+



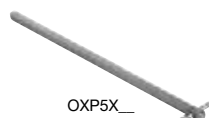
OHB65J5



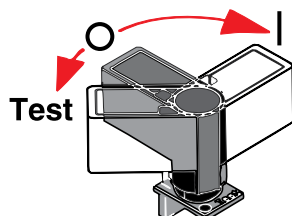
OHB_J5



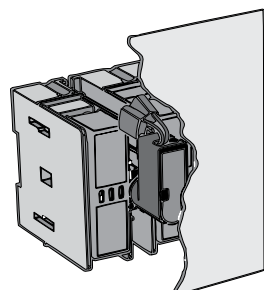
OHY_J5



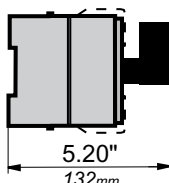
OXP5X_



OHB5



OHB5 Mounted



OHB5 Mounted depth

Pistol handles — for use with shafts $\square .20 \times .20$ " ($\square 5 \times 5$ mm)

UL/NEMA type	IEC type	Color	Marking	Length inches/mm	Defeat-able	Padlock-able	Weight (lbs.)	Catalog number	List price
1,3R,12	IP65	Black	O/I&Off/On	1.8/45	Yes	Yes	0.28	OHB45J5	\$ 70
		R/Y		1.8/45			0.28	OHY45J5	70
		Black		2.6/65			0.29	OHB65J5	80
		R/Y		2.6/65			0.29	OHY65J5	80
1,3R,4,4X,12	IP65	Black R/Y	O/I&Off/On	2.6/65	Yes	Yes	0.29	OHB65L5 OHY65L5	120
1,3R,12	IP65	Black R/Y	Off/On/Test	2.6/65	Yes	Yes	0.29	OHB65J5T ① OHY65J5T ①	100
1,3R,4,4X,12	IP66	Stainless steel	O/I&Off/On	1.8/45	Yes	Yes	1.40	OHM45L5	700
				2.6/65			1.60	OHM65L5	700

Shafts — for use with pistol handles $\square .20 \times .20$ " ($\square 5 \times 5$ mm)

Shaft length (inches/mm)	H I	Mounting depth (in inches)	Weight (lbs.)	Catalog number	List price
5.9/150		4.9 – 8.9	0.07	OXPSX150	\$ 14
6.7/170		5.9 – 9.7	0.08	OXPSX170	16
10.4/265		9.5 – 13.4	0.12	OXPSX265	18
15.8/400		15.0 – 18.7	0.18	OXPSX400	30
19.7/500		20.5 – 22.6	0.23	OXPSX500	42

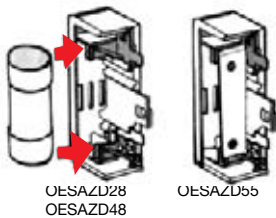
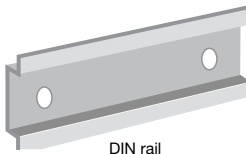
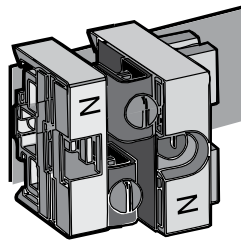
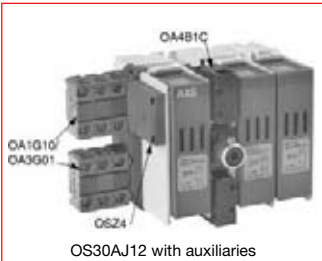
Direct mount handle — mounts directly to switch, no shaft necessary

UL/NEMA type	Color	Marking	Length mm	Padlockable	Weight (lbs.)	Catalog number	List price
1	Blk	O/I/Test	50	Yes	0.10	OHB5	\$ 60

① The OS30_ switch has a TEST position, accessed by rotating the mechanism 45° counterclockwise from the OFF position. In the TEST position, optional auxiliary contacts, OA4B1C, are actuated but the main switch contacts are not.

30A, Base & DIN rail mounted Accessories

Disconnect
switches
Fusible



Auxiliary contacts ①

Description	For use on:	Weight (lbs)	AC thermal amp rating	AC rated voltage	Catalog number	List price
Form C 1 N.O. & 1 N.C. (2 maximum)	OS30_ for direct mounting to switch	0.04	6	250	OA4B1C	\$ 40
1 N.O. 1 N.C. (6 maximum)	OS30_ OSZ4 mounting base required	0.03	NEMA A600,P600		OA1G10 OA3G01	20

Mounting base

Description	For use with:	Weight (lbs)	Catalog number	List price
Mounting base	OA1G10, OA3G01	0.08	OSZ4	\$ 20

Terminal pole

Description	For use on:	Weight (lbs)	AC thermal amp rating	AC rated voltage	Catalog number	List price
Detachable neutral mounts on side of switch or DIN rail	OS30_	0.45	30	600	OESA-ZX171	\$ 40

DIN rail

Description	For use on:	Weight (lbs.)	Length inches/mm	Catalog number	List price
35mm DIN Rail	OS30_	2.96	39.4/1000	DIN RAIL	\$ 52

Fuse carriers (replacement part)

Description	For use on:	Catalog number	List price
CC fuse carrier J fuse carrier	OS30CC_ OS30AJ_	OESAZD48 OESAZD28	\$ 50
Solid link carrier®	OS30_	OESAZD55	

Terminal cover (replacement part)

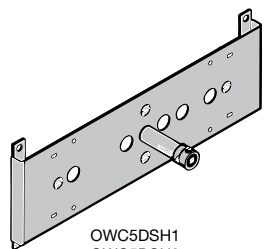
Description	For use on:	Catalog number	List price
Covers terminal below fuse carrier	OS30_	CXBY67121	\$ 10

Shaft set screw (replacement part)

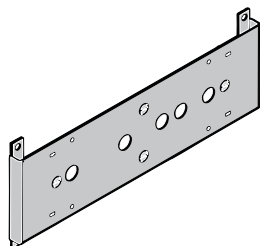
Description	For use on:	Catalog number	List price
Set screw	OS30_	FL8WM5X8AX	\$ 2

① UL File # E83510
② Solid link installed in carrier.

30A, Base & DIN rail mounted Accessories



OWC5DSH1
OWC5DSH2



OWM5DS1
OWM5DS2
OWP5DS1
OWP5DS2

Conversion mechanisms

- Switches are not included

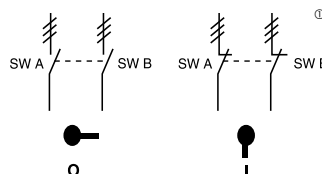
Description	For use on:	Weight (lbs)	UL/NEMA type	Catalog number	List price
6 pole	OS30A_12	1.74	—	OWP5DS1	\$ 220
8 pole	OS30A_22	1.90	—	OWP5DS2	240
Mechanical interlock					
3 pole	OS30A_12	1.74	—	OWM5DS1	190
4 pole	OS30A_22	1.90	—	OWM5DS2	190

6 or 8 pole — OWP5DS1, OWP5DS2

6 (8) pole mechanism allows two switches, controlled by one handle, to open or close simultaneously.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see pg. 18.79)
- One handle (see pg. 18.80)
- One 5 mm shaft (see pg. 18.80)



	POS. O	POS. I
SW. A	O	X
SW. B	O	X

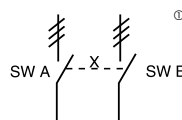
X = Closed
O = Open

Mechanical interlock — OWM5DS1, OWM5DS2

Mechanical interlock mechanism prevents both switches from being in the "ON" position at the same time.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (from pg. 18.79)
- Two handles (from pgs. 18.80)
- Two 5 mm shafts (from pgs. 18.80)



	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

Drawing and mounting information found on pg 18.115

① = Three poles

60A – 200A Base & DIN rail mounted UL fuse class J

Disconnect
switches
Fusible

For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



OS60J12



OXF6X210



OHB65J6

60 – 200 Amp switches, 600V

UL general purpose amp rating	UL Fuse type 600V	Maximum horsepower rating			Catalog number	List price
		Three phase				
		240V	480V	600V		
2 pole						
200	J	60	125	150	OS200J30	\$ 1240
3 pole						
60	J	15	30	50	OS60J12	380
100	J	30	60	75	OS100J03	520
200	J	60	125	150	OS200J03	1380
200	J	60	125	150	OS200J12	1380
200	J	60	125	150	OS200J30	1380
4 pole						
60	J	15	30	50	OS60J22F	490
100	J	30	60	75	OS100J04F	660
200	J	60	125	150	OS200J04F	1725
200	J	60	125	150	OS200J13F	1725
200	J	60	125	150	OS200J22F	1725

Pistol handles — □ .24 x .24" (□ 6 x 6mm)

UL/NEMA type	IEC type	Color	Length in/mm	Marking	De- featable	Pad- lockable	Weight (lbs.)	Catalog number	List price
1,3R,12	IP65	Black	2.6/65	O/I & Off/On	Yes	Yes	0.29	OHB65J6	\$ 80
1,3R,12	IP65	Red/Yel	2.6/65	O/I & Off/On	Yes	Yes	0.29	OHY65J6	80
1,3R,12	IP65	Black	3.1/80	O/I & Off/On	Yes	Yes	0.30	OHB80J6	90
1,3R,12	IP65	Red/Yel	3.1/80	O/I & Off/On	Yes	Yes	0.30	OHY80J6	90
1,3R,4,4X,12	IP65	Black	3.1/80	O/I & Off/On	Yes	Yes	0.30	OHB80L6	130
1,3R,4,4X,12	IP65	Red/Yel	3.1/80	O/I & Off/On	Yes	Yes	0.30	OHY80L6	130
1,3R,4,4X,12	IP66	Stainless steel	2.65/65	O/I & Off/On	Yes	Yes	1.60	OHM65L6	750

Shafts — □ .24 x .24" (□ 6 x 6mm)

Shaft length (inches/mm)	Mounting depth (inches)	Weight (lbs.)	Catalog number	List price
5.9/150	5.0 – 8.5	0.09	OXF6X150	\$ 12
8.3/210	7.4 – 11.0	0.13	OXF6X210	16
11.4/290	10.5 – 14.0	0.18	OXF6X290	20
14.2/360	13.3 – 16.8	0.23	OXF6X360	24
16.9/430	16 – 19.7	0.27	OXF6X430	28

Twisted shafts — Rotates handle 45° □ .24 x .24" (□ 6 x 6mm)

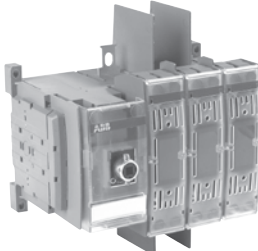
Shaft length (inches/mm)	Mounting depth (inches)	Weight (lbs.)	Catalog number	List price
5.1/130	4.3 – 7.8	0.08	OXF6X130-45	\$ 12
8.3/210	7.4 – 11.0	0.13	OXF6X210-45	16
11.4/290	10.5 – 14.0	0.18	OXF6X290-45	20
14.2/360	13.3 – 16.8	0.23	OXF6X360-45	24

Direct mount handle — mounts directly to switch, no shaft necessary

For use on	Color	Marking	Length mm	Padlockable	Weight (lbs.)	Catalog number	List price
OS60 - OS100	Black	O/I	50	Yes	0.10	OHB4	\$ 60
OS200	Black Red/Yel	O/I	—	Yes	0.30	OSV200BK OSVY200BK	130



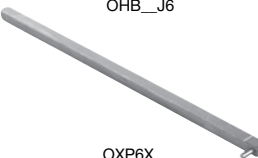
OS60J12



OS100J03



OHB_J6



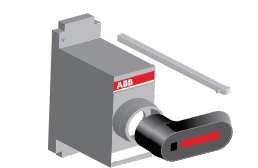
OXF6X_



OXF6X_-45



OHB4

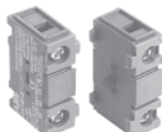


OSV250

60A – 200A Accessories



OZXA-24



OA1G10, OA3G01



OSC60J1

CXBY68362



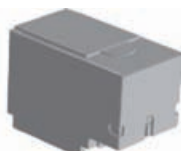
OSS160T3



OHZX10



OEA28



OSS200G1S/3



OSS200G1L/3

Terminal lug kits – OS60 & OS100

For use on:	Wire size	Kit weight (lbs)	Wire type	Terminal lugs per kit	Catalog number	List price
OS60J_	#14 – 4	—	Cu	—	Integral	—
OS100J_	#14 – 2/0	0.43	Cu/Al	6	OZXA-24	\$ 24

Terminal lug kits – OS200

For use on	Wire size	Wire type	Description	Lugs /kit	Catalog number	List price
OS200_	#4 - 300kcmil	Cu /Al	—	6	OZXA-200	\$ 80
	#4 - 300kcmil		—	3	OZXA-200/3P	40
	(6) 14-6 AWG		Distribution lug	3	OZXA-206/S	180

Auxiliary contacts

Description	For use on:	Weight	Catalog number	List price
1 N.O. 1 N.C.	OS60 - OS100	.07	OA1G10	\$ 20
1 N.O. 1 N.C.			OA3G01	
1 N.O. 1 N.C.	OS200	.07	OA1G10	
1 N.O. 1 N.C.			OA3G01	

Module for auxiliary contacts ①

Description	Weight	Catalog number	List price
Screw mounting to the left side of the switch	0.1	OEA28	\$ 50

Mounting on the left side of the switch :Max 8 auxiliary contact blocks with the OEA28 module

Mounting under the mechanism cover: Max 4 auxiliary contact blocks

Replacement parts

Description	For use on:	Catalog number	List price
Removable fuse carrier	OS60J12	OSC60J3	\$ 60
	OS60J22F	OSC60J4	
Transparent fuse cover	OS100	CXBY68362	20
Fuse cover	OS200	CXBY68674	20
Phase barrier		CXBY68794	15
Set screw	OS60T12, OS200	FLSWM5X8AX	2
Set screw	OS100	FLSWM5X6X	2

Terminal shrouds

For use on:	Description	Number of poles	Weight lbs	Catalog number	List price
OS100		1	0.04	OSS160T1	\$ 20
		3		OSS160T3	
OS200_	Long type	3	0.20	OSS200G1L/3	50
	Short type	3	0.13	OSS200G1S/3	50
	Long type	4	0.26	OSS200G1L/4	65
	Short type	4	0.18	OSS200G1S/4	61

Snap-on mounting, grey plastic, IP3X Transparent shrouds available on request.

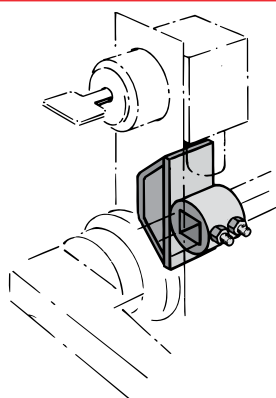
Shaft Guide

Description	Catalog number	List price
Fits all pistol grip handles, mounts on the inside of the enclosure door with provided hardware	OHZX10	\$ 12

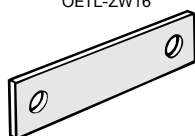
① For use on OS200 only.

60A – 200A Accessories

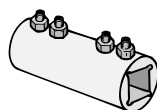
Disconnect
switches
Fusible



OETL-ZW16



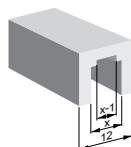
OESA-ZS36



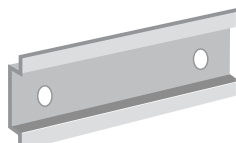
OESA-ZX167
OETL-ZX95



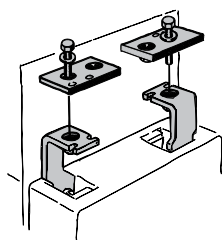
OSZ1



OETL-ZK19
(X=6MM)



DIN rail



OESA-ZX1-J1T6

Locking accessories

Description	For use on:	Weight (lbs)		Catalog number	List price
Cam attachment for Kirk Key, Castell, Lowe & Fletcher and Ronis interlock. Cam attachment for adapting to the interlock system. The interlock is not included.	OS60 – OS200	0.25		OETL-ZW16	\$ 190

Shorting bars

Description	For use on:		AC thermal amp rating	AC rated voltage	Catalog number	List price
Dummy fuse	OS60		60	600	OESA-ZD54	\$ 50
Solid links: Metal strap	OS100		100	600	OESA-ZS36	24
	OS200		400	600	OESA-ZK98	23

Shaft extension coupler

Description	For use on:	Weight (lbs)			Catalog number	List price
Joins two shafts together for applications where extended length is required	6mm shafts	0.26			OESA-ZX167	\$ 56

Shaft adapter

Description	For use on:	Weight (lbs)			Catalog number	List price
Adapts one end of a 6mm shaft to 12mm. Use with shaft extension coupler	6mm shafts	0.20			OETL-ZK19	\$ 40

Terminal poles

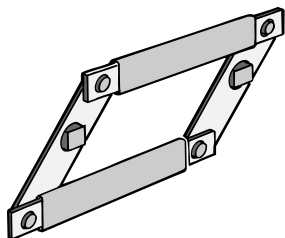
Description	For use on:	Weight (lbs)	AC thermal amp rating	AC rated voltage	Catalog number	List price
Detachable neutral mounts on side of switch or DIN rail	OS60	0.13	63	600	OSZ1	\$ 50
	OS100	0.31	125	600	OSZ2	50
	OS200	.88	200	600	OXN250	①

DIN rail

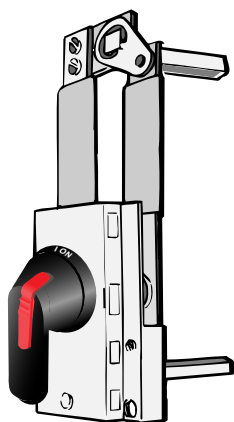
Description	For use on:	Weight (lbs.)	Length inches/mm	Catalog number	List price
35mm DIN Rail	OS60	2.36	39.4/1000	DIN RAIL	\$ 52

① Consult Factory.

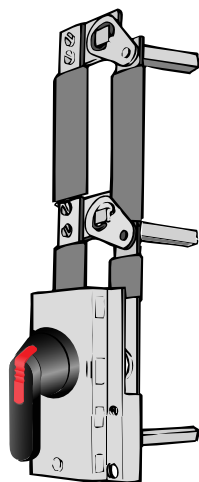
60A – 200A Accessories



OESA-ZW2



OESA-ZW1



OTZW26



OTZW10

Conversion mechanisms

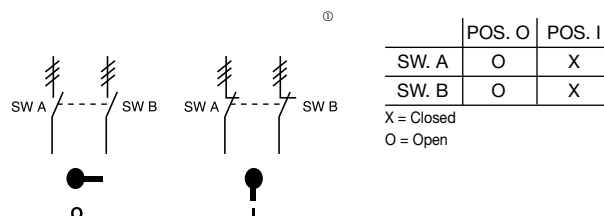
- Switches are not included

Description	For use on:	Weight (lbs)	UL/NEMA type	Catalog number	List price
6 and 8 pole	OS60 – OS200	1.52	—	OESA-ZW2	\$ 220
Mechanical interlock	OS60 – OS200	0.55	—	OTZW10	100
Bypass	OS100, OS200	7.28	1,3R,12	OTZW26	950

6 or 8 pole — OESA-ZW2

6 (8) pole mechanism allows two switches controlled by one handle, to open or close simultaneously. OHB145J12 handle included.

- Equipment required for a complete installation:
- One conversion mechanism
 - Two disconnect switches (see pg. 18.83)



Bypass — OTZW26

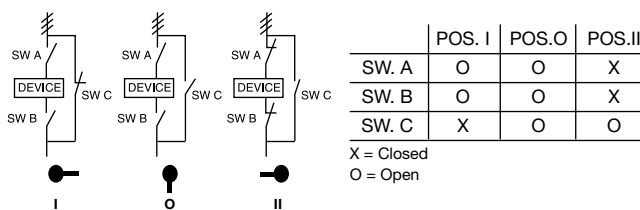
Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass.

A 3-position handle is included: OHB-145J12E011 (Type 1,3R & 12) or OHB145L12E011 (Type 1, 3R, 4, 4X, 12)

Shafts included.

Equipment required for a complete installation:

- One conversion mechanism
- Three disconnect switches (see page 18.83)

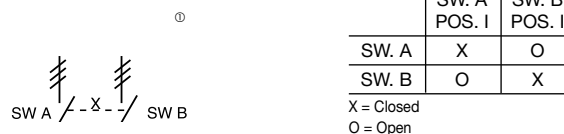


Mechanical interlock — OTZW10

Mechanical interlock mechanism prevents both switches from being in the "ON" position at the same time.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see pg. 18.83)
- Two handles (see pg. 18.83)
- Two shafts (see pg. 18.83)



Drawing and mounting information found on pg 18.116

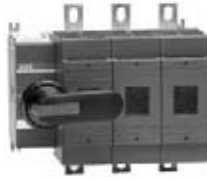
① ≡ = Three poles

400A – 800A UL fuse class J, L

Disconnect
switches
Fusible

For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug kit



OS400J03



OXP12X280



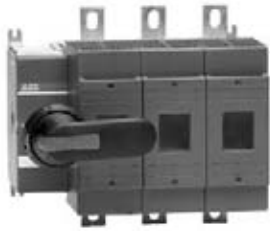
OHB145J12



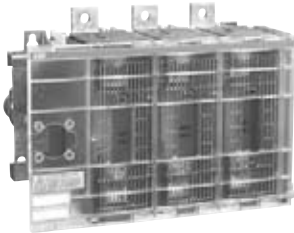
OZXA-400

400 – 800 Amp switches, 600V

UL general purpose amp rating	UL Fuse type 600V	Maximum horsepower rating Three phase			Catalog number	List price
		240V	480V	600V		
2 pole						
400	J	—	—	—	OS400J02	\$ 1680
600	J	—	—	—	OS600J02	2600
800	L	—	—	—	OES800L2	4280
3 pole						
400	J	125	250	350	OS400J03	1860
400	J	125	250	350	OS400J30	1860
600	J	200	400	500	OS600J03	2900
600	J	200	400	500	OS600J30	2900
800	L	250	500	600	OES800L3	4760
4 pole						
400	J	125	250	350	OS400J04F	2320
600	J	200	400	500	OS600J04F	3620
800	L	250	500	600	OES800L4	5950



OS400J03



OES800L3



OHB_J12



OHY_J12

Pistol handles — □ .47 x .47" (□ 12 x 12mm)

UL/NEMA type	IEC type	Color	Length inches/mm	Marking	Defeat- able	Padlock- able	Weight (lbs)	Catalog number	List price
1,3R,12	IP65	Black	4.9/125	O/I & Off/On	Yes	Yes	0.39	OHB125J12	\$ 90
		Red/Yel	4.9/125				0.39	OHY125J12	90
		Black	5.7/145				0.39	OHB145J12	90
		Red/Yel	5.7/145				0.39	OHY145J12	90
		Black	6.9/175				0.41	OHB175J12	100
		Red/Yel	6.9/175				0.41	OHY175J12	100
1,3R,4,4X,12	IP65	Black	5.7/145	O/I & Off/On	Yes	Yes	0.39	OHB145L12	130
		Red/Yel	5.7/145				0.39	OHY145L12	130
		Black	6.9/175				0.41	OHB175L12	140
		Red/Yel	6.9/175				0.41	OHY175L12	140
1,3R,4,4X,12	IP65	Metal	8.7/220	Off/On	—	Yes	1.50	YASDA-8	190
1,3R,4,4X,12	IP66	Stainless Steel	4.9/125	O/I & Off/On	Yes	Yes	1.70	OHM125L12	900
			6.9/175				1.80	OHM175L12	1100
			10.8/275				2.10	OHM275L12	1200

Direct mount handles

Item	Weight (lbs)	Catalog number	List price
Mounts to 12mm shaft	0.78	YASDA-33	\$ 155



YASDA-33

400A – 800A Accessories



OXP12X_



OXP12X_-45



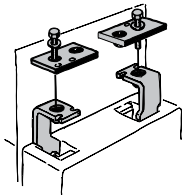
OZXA-26



OZXA-27




OZXA-175/400




OESA-ZX1-J_

Shafts — □ .47 x .47" (□ 12 x 12mm)

Shaft length inches/mm	 Mounting depth ^① in inches	Weight (lbs.)	Catalog number	List price
For use on OS400				
8.7/220	7.9 – 12.2	0.61	OXP12X220	\$ 28
9.8/250	9.1 – 13.4	0.70	OXP12X250	32
11.0/280	10.2 – 14.5	0.77	OXP12X280	36
12.8/325	12.0 – 16.3	0.90	OXP12X325	40
15.6/395	14.8 – 19.1	1.10	OXP12X395	44
18.3/465	17.5 – 21.9	1.32	OXP12X465	48
21.1/535	20.3 – 24.6	1.54	OXP12X535	52
For use on OS600 – OES800				
9.8/250	10.0 – 12.8	0.70	OXP12X250	32
11.0/280	11.2 – 14.0	0.77	OXP12X280	36
12.8/325	13.0 – 15.8	0.90	OXP12X325	40
15.6/395	15.8 – 18.6	1.10	OXP12X395	44
18.3/465	18.5 – 21.3	1.32	OXP12X465	48
21.1/535	21.1 – 24.1	1.54	OXP12X535	52

Twisted shafts — Rotates handle 45° □ .47 x .47" (□ 12 x 12mm)

Shaft length (inches/mm)	 Mounting depth (inches)	Weight (lbs.)	Catalog number	List price
For use on OS400				
11.0/280	10.2 – 14.5	0.77	OXP12X280-45	\$ 36
12.8/325	12.0 – 16.3	0.90	OXP12X325-45	40
18.3/465	17.5 – 21.9	1.32	OXP12X465-45	48
For use on OS600 - OES800				
11.0/280	11.2 – 14.0	0.77	OXP12X280-45	36
12.8/325	13.0 – 15.8	0.90	OXP12X325-45	40
18.3/465	18.5 – 21.3	1.32	OXP12X465-45	48

Terminal lug kit

For use on:	Wire size	Kit weight (lbs)	Wire type	Terminal lugs per kit	Catalog number	List price
OS400	#2 – 600 kcmil	—	Cu/Al	6	OZXA-400	\$ 190
OS400	(2) #2 – 300 kcmil	—	Cu/Al	6	OZXA-402	95
OS400	(2) #2 – 500 kcmil	—	Cu/Al	6	OZXA-33	375
OS600	(2) #2 – 600 kcmil	—	Cu/Al	6	OZXA-800	360
OS600	(2) #2 – 600 kcmil	—	Cu/Al	3	OZXA-800/3	180
OES800	(12)#14 – 6 kcmil	1.10	Cu/Al	3	OZXA-175/400	270
OES800	(2) #2 – 600 kcmil	4.62	Cu/Al	6	OZXA-27	380
OES800	(2) #2 – 600 kcmil	2.31	Cu/Al	3	OZXA-27/3P	190

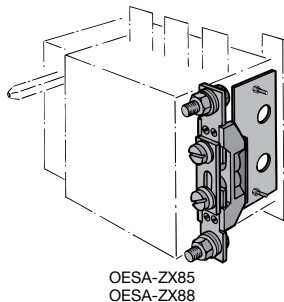
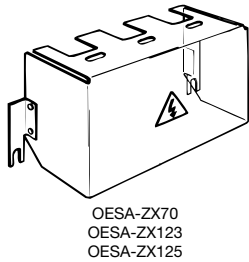
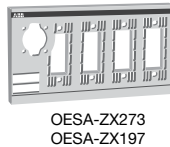
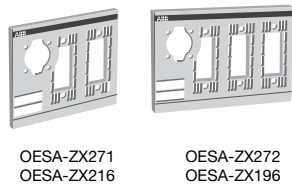
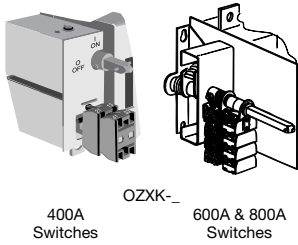
"T" type fuse adapter kit

For use on:	For use with	AC thermal amp rating	AC rated voltage	Poles	Catalog number	List price
OES800	300 & 600V Class T fuse	800	600	3	OESA-ZX1-L8T6	\$ 280

① Mounting depth is the distance from the outside of the door to the disconnect switch mounting plate. Shaft can be cut to desired length.

400A – 800A Accessories

Disconnect
switches
Fusible



Auxiliary contacts ①

Description	For use on:	Weight (lbs)	AC thermal amp rating	AC rated voltage	Catalog number	List price
1 N.O. 1 N.C.	OS400 – 600	.07	10	600	OA1G10 OA3G01	\$ 20
1 N.O. + 1 N.C. 2 N.O. + 2 N.C. 4 N.O. + 4 N.C.	OES800	0.20	10	600	OZXK-1	100
2 N.O.		0.26	10	600	OZXK-2	170
4 N.O.		0.40	10	600	OZXK-3	340
2 N.O.		0.18	10	600	OZXK-4	100
4 N.O.		0.25	10	600	OZXK-5	170
8 N.O.		0.40	10	600	OZXK-6	340

Module for Auxilliary Contacts

Description	For use on:	Weight (lbs)	Catalog number	List price
Screw mounting to left side of the switch	OS400 – 600	0.1	OEA28	\$ 50

Fuse covers (replacement part)

Description	For use on:	Weight (lbs)	Catalog number	List price
2 pole	OES800	0.40	OESA-ZX216	180
3 pole		0.50	OESA-ZX196	260
4 pole		0.67	OESA-ZX197	350

Fuse cover interlock

Description	For use on:	Catalog number	List price
Prevents the fuse cover from being opened when the switch is in the ON position	OES800	OESA-ZX204	\$ 90

Terminal shroud

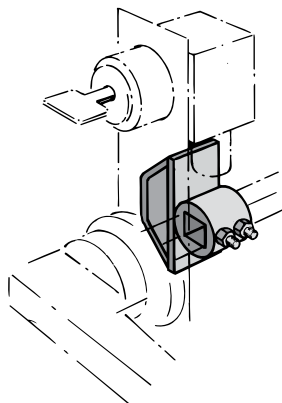
Description	For use on:	Weight (lbs)	Catalog number	List price
Includes one terminal shroud for line or load side	OS400	0.13	OSS403	\$ 113
	OS600	0.11	OSS603	190
	OES800	0.11	OESA-ZX125	160

Terminal pole

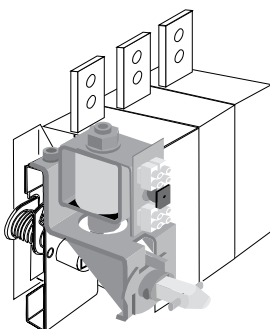
Description	For use on:	Weight (lbs)	AC thermal amp rating	AC rated voltage	Catalog number	List price
Detachable neutral mounts on side of switch or DIN rail	OES800	1.19	800	600	OESA-ZX88	\$ 160

① UL file #E57057

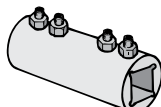
400A – 800A Accessories



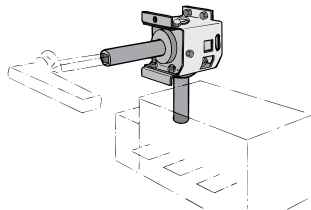
OETL-ZW5



OETL-ZT80



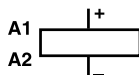
OETL-ZX95



OETL-ZX108

Locking accessories

Description	For use on:	Weight (lbs)	Catalog number	List price
Cam attachment for Kirk Key, Castell, Lowe & Fletcher and Ronis interlock. For adapting to the interlock system. The interlock is not included.	OS400 – 600	0.29	OETL-ZW5	\$ 190
Electrical interlock Closed circuit principle for interlocking the switch movement. When the coil circuit is dead, A-types cannot be operated to ON-position and L-types cannot be operated to ON- or OFF-position. Coil voltages 110VAC, 220VAC, 24VDC, 48VDC, 60 VDC 110VDC, 220VDC, P = 15W	OES800	2.42	OETL-ZT80A OETL-ZT80L	1280 1220



Shaft extension coupler

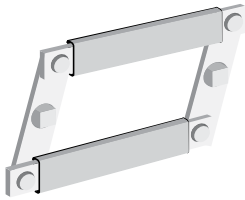
Description	For use on:	Weight (lbs)	Catalog number	List price
Joins two shafts together for applications where extended length is required	12mm shafts	0.26	OETL-ZX95	\$ 100

90° angle kit

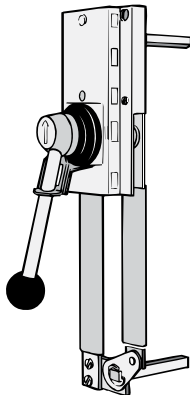
Description	For use on:	Weight (lbs)	Catalog number	List price
Converts switch mechanism from front operation to side operation	OES800	4.63	OETL-ZX108	\$ 794

400A – 800A Accessories

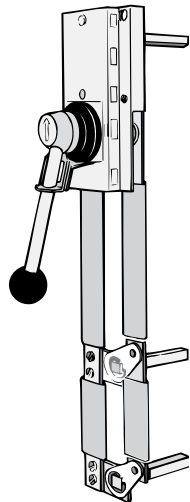
Disconnect
switches
Fusible



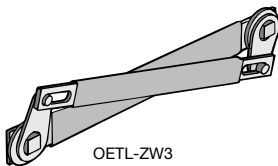
OETL-ZW9



OETL-ZW12



OETL-ZW13



OETL-ZW3
OETL-ZW14
OETL-ZW15

Conversion mechanisms

- Switches are not included

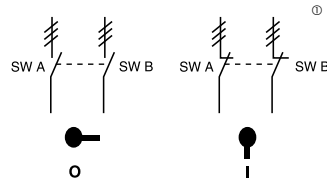
Description	For use on:	Weight (lbs)	UL/NEMA type	Catalog number	List price
6 or 8 pole Bypass	OS400 – 600; OES800	2.42	—	OETL-ZW9	\$ 260
	OS400 – 600; OES800	8.81	1,3R,4,4X,12	OETL-ZW13	560
Mechanical interlock	OS400 – 600; OES800	1.26	—	OETL-ZW3	140
		1.15	—	OETL-ZW14	140
		2.64	—	OETL-ZW15	160

6 or 8 pole — OETL-ZW9

6 (8) pole mechanism allows two switches controlled by one handle, to open or close simultaneously.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see pg. 18.87)
- One handle (see pg. 18.87)
- Two shafts (see pg. 18.88)



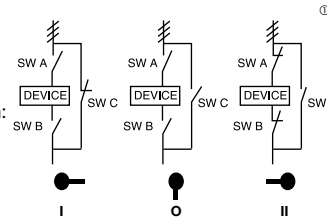
	POS. O	POS. I
SW. A	O	X
SW. B	O	X

X = Closed
O = Open

Bypass — OETL-ZW13

Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass. A 3 position handle is included. YASDA-6 (UL Type 1, 3R, 4, 4X & 12).

- Equipment required for a complete installation:
- One conversion mechanism
 - Three disconnect switches (see pg. 18.87)
 - Three OETL-ZX95 shaft extension couplers (see pg. 18.90)
 - Three shafts (see pg. 18.88)



	POS. I	POS. O	POS. II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

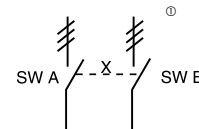
X = Closed
O = Open

Mechanical interlock — OETL-ZW3, OETL-ZW14, OETL-ZW15

Mechanical interlock mechanism prevents both switches from being in the "ON" position at the same time.

Equipment required for a complete installation:

- One conversion mechanism
- Two disconnect switches (see pg. 18.87)
- Two handles see page 18.87)
- Two shafts (see pg. 18.88)



	SW. A POS. I	SW. B POS. I
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

Drawing and mounting information found on pg 18.117

① ≡ = Three poles

Other configurations

Side operated

30A – 400A, UL fuse class J,CC,T

For a complete assembly,
please select one of each:

- 1 switch
- 1 handle
- 1 shaft
- 1 terminal lug



OS30A_S_



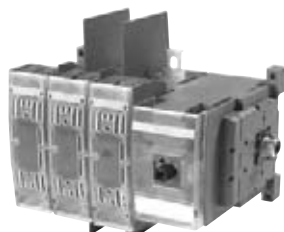
OXP5X170



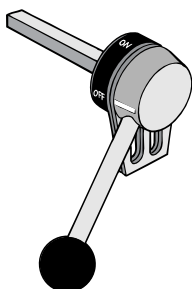
OHY65J5TE00S



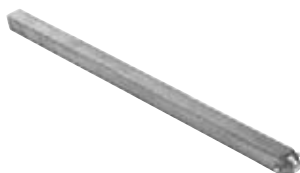
OS60JS30



OS100JS30



OETL-ZX74



OZXA-25

Side operated switches — 3 pole

UL general purpose amp rating	UL fuse type 600V	Maximum horsepower rating			Weight (lbs)	Catalog number	List price
		240V	480V	600V			
30	J	7.5	15	20	1.54	OS30AJS30	\$ 360
30	CC	7.5	15	20	1.54	OS30ACCS30	360
60	J	15	30	50	3.52	OS60JS30	540
100	J	30	60	75	3.97	OS100JS30	640
200	J	60	125	150	15.21	OES200J3-S	1800
400	J	125	250	350	17.20	OES400J3-S	2600

Handles

Handles

UL/NEMA type	IEC type	Color	Length inches/mm	Marking	Defeat- able	Padlock- able	Weight	Catalog number	List price
For use with OS30A_S30									
1, 3R, 12	IP65	Black	2.6/65	OFF/ON	Yes	Yes	0.29	OHB65J5	\$ 80
1, 3R, 12	IP65	Red/Yel	2.6/65	OFF/ON	Yes	Yes	0.29	OHY65J5	
For use with OS60JS30 & OS100JS30									
1, 3R, 12	IP65	Black	3.1/80	OFF/ON	Yes	Yes	0.30	OHB80J6	90
1, 3R, 12	IP65	Red/Yel	3.1/80	OFF/ON	Yes	Yes	0.30	OHY80J6	
For use with OES200J3-S & OES400J3-S									
1, 3R, 12	IP65	Black	4.9/145	OFF/ON	Yes	Yes	0.39	OHB145J12	80
1, 3R, 12	IP65	Red/Yel	4.9/145	OFF/ON	Yes	Yes	0.39	OHY145J12	
1, 3R, 12	IP65	Metal	4.9/145	OFF/ON	No	Yes	1.50	OETL-ZX74	190

Shafts

For use with:	Length (inches/mm)	Description	Weight (lbs.)	Catalog number	List price
OS30AJS30 & OS30ACCS30	6.7/170	0.20 x 0.20" (5 x 5mm)	0.08	OXP5X170	\$ 16
OS60JS30 & OS100JS30	6.7/170	0.24 x 0.24" (6 x 6mm)	0.08	OXP6X210	16
OES200J3-S & OES400J3-S	12.8/325	0.47 x 0.47" (12 x 12mm)	0.90	OXP12X325	40

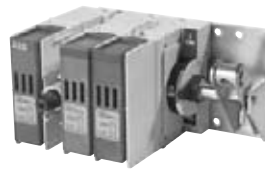
Terminal lug kit

For use on:	Wire size	Kit weight (lbs)	Wire type	Lugs per kit	Catalog number	List price
OS30AJS30 & OS30ACCS30	#18 – 8	—	Cu	—	Integral	—
OS60JS30	#14 – 4	—	Cu	—	Integral	—
OS100JS30	#14 – 2/0	0.43	Cu/Al	6	OZXA-24	\$ 24
OES200J3-S	#6 – 300 kcmil	0.93	Cu/Al	6	OZXA-25	80
OES400J3-S	#2 – 600 kcmil	3.50	Cu/Al	6	OZXA-26	190

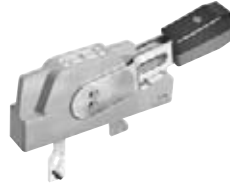
Flange operated Shaft operated 30A - 100A

Disconnect
switches
Fusible

For a complete assembly, please select one of each.



Switch



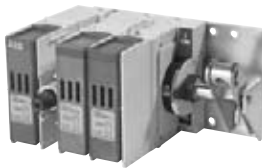
Handle



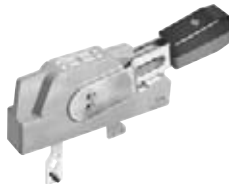
Shaft



Lug kit (as required)



OS30AJF30



DSFHN-HS_



DSFHS_



30A -100A Flange operated fusible switches (Shaft) - 3 pole

UL general purpose amp rating A	UL fuse type 600V	Maximum horsepower rating			Catalog number	List price
		Three phase				
		240V	480V	600V		
30	J	7.5	15	20	OS30AJF30	\$ 500
30	CC	7.5	15	20	OS30ACCF30	500
60	J	15	30	50	OS60JF30	590
100	J	30	60	75	OS100JF30	690

Flange handles

UL/ NEMA type	Marking	Defeatable	Padlockable	Catalog number	List price
1, 3R, 12	OFF/ON	Yes	Yes	DSFHN-HS12	\$ 156
4, 4X	OFF/ON	Yes	Yes	DSFHN-HS4	240

Shafts

For use with:	Maximum enclosure depth (inches)	Catalog number	List price
OS30_ - OS100_	16	DSFHS-12	\$ 28
	21	DSFHS-17	40
	26.5	DSFHS-22	52

Flange operated fusible and non-fusible disconnect switches

ABB's solution for complying with the new NFPA79 requirements is Flange Operated Fusible and Non-fusible Disconnect Switches.

New 2002 NFPA 79 changes requires main disconnecting means to be operable without the use of accessory tools or devices, independent of door position. This code also includes an interlocking provision to prevent the closing of disconnects while the enclosure door is open, unless an interlock is operated by a deliberate action.

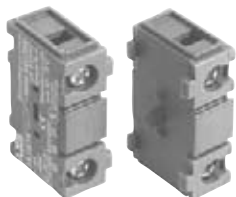
The flange operated disconnect switches are available as ridged shaft or flexible cable operated versions. The cable operated version allows you to install the disconnect switch anywhere in the enclosure depending on the length of the cable. Cables are available in lengths up to 84 inches.

The designs are cost-effective NFPA 79 solutions offering quick and easy installation.

Flange operated Shaft operated 30A - 100A



OZXA-24



OA1G_



OS30AJ12 with auxiliaries



OSS160T3

Terminal lug kits and accessories

For use on:	Description	Wire size	Wire type	Qty.	Catalog number	List price
OS30_	Lug	#18 - #8	Cu	--	Integral	--
OS60_	Lug	#14 - #4	Cu	--	Integral	--
OS100_	Lug	#14 - 2/0	Cu/Al	6	OZXA-24	\$ 24
OS30_ - OS100_	Aux. Contact	1 NO		1	OA1G10	20
	Aux. Contact	1 NC		1	OA3G01	20
OS30_	Adapter	Needed for mounting aux. Contacts on OS30_		1	OSZ4	20
OS100_	Shroud	Includes one set of 3 for use on line or load side		1	OSS160T3	60

Door hardware NEMA 12

Item	Catalog number	List price
Safety door latch, 2 point, door less than 40" high	KDH2R	\$ 200
Safety door latch, 3 point, door greater than 40" high	KDH3R	225

Flange operated Cable operated 30A - 200A

Disconnect
switches
Fusible



Switch kit



Handle



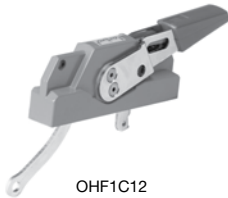
Cable



Lug kit (as required)



OS60J12



OHF1C12



OXC1L36-
OXC1L84



Lug Kit



OZXA-200

Fusible

UL general purpose amp rating	UL fuse type 600V	Maximum horsepower rating			Catalog number	List price
		Three phase				
		240V	480V	600V		
30	J	7.5	15	20	OS30AJ12	\$ 280
30	CC	7.5	15	20	OS30ACC12	280
60	J	15	30	50	OS60J12	380
100	J	30	60	75	OS100AJ30	520
200	J	60	125	150	OS200J30	1380

Flange handles - UL98; UL file #E101914

For use with:	Environmental rating	Catalog number	List price
OS30_12 OS60J12 OS100AJ30 OS200J30	NEMA 1, 3R, 12	OHF1C12	\$ 213
	NEMA 4, 4X	OHF1C4	243

Flexible cables

For use with:	Cable length (inches)	Catalog number	List price
OS30_12 OS60J12 OS100AJ30 OS200J30	36	OXC1L36	\$ 114
	48	OXC1L48	146
	60	OXC1L60	160
	72	OXC1L72	175
	84	OXC1L84	204

Operating mechanisms

For use with:	Catalog number	List price
OS30AJ12, OS30ACC12 OS60J12	MKCS2	\$ 135
OS100AJ30, OS200J30	MKCS3	162
	MKCS4	171

Terminal lug kits

For use with	Wire size	Wire type	Description	Lugs per kit	Catalog number	List price
OS30_12	#18 - 8/0	Cu	—	—	INTEGRAL	—
OS60J12	#14 - 4	Cu	—	—	INTEGRAL	—
OS100AJ30 OS200J30	#4 - 300 Kcmil	Cu/Al	—	6	OZXA-200	\$ 80
	#4 - 300 Kcmil	Cu/Al	—	3	OZXA-200/3	40
	(6) #4-6 AWG	Cu/Al	Distribution lug	3	OZXA-206/S	180

Door hardware NEMA 12

Item	Catalog number	List price
Safety door latch, 2 point, door less than 40" high	KDH2R	\$ 200
Safety door latch, 3 point, door greater than 40" high	KDH3R	225

Discount schedule H3: F 30A - 100A

Discount schedule H6: Handles, shafts, accessories and lug kits

Discount schedule H5: F 200A - 800A

Discount schedule SH: Door hardware kits

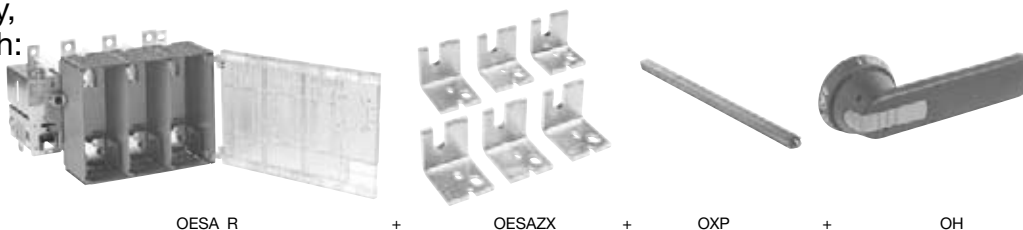
Other configurations

High speed fuse pattern

Special type fuses

For a complete assembly,
please select one of each:

- 1 switch body
- 1 adapter kit
- 1 shaft
- 1 handle



OESA_R_

+

OESAZX_

+

OXP_

+

OH_

Selecting switch bodies and adapter kits

Please select switch body and adapter kit according to your fuses. Switch body alone can not be used — an adapter kit is always needed.

Switch bodies — 200A through 800A

UL general purpose amp rating	Maximum horsepower rating			Max. allowed fuse power dissipation at rated current	Weight (lbs)	Catalog number	List price
	240V	480V	600V				
3 pole							
200	60	125	150	22W	15.21	OES200R03	①
400	125	250	350	45W	17.20	OES400R03	
600	200	400	500	60W	37.48	OES600R03	
800	250	500	600	65W	37.48	OES800R03	
4 pole							
200	60	125	150	22W	17.4	OES200R04	①
400	125	250	350	45W	19.4	OES400R04	
600	200	400	500	60W	46.3	OES600R04	
800	250	500	600	65W	46.3	OES800R04	

Fuse adapter kits — for switches OES200 – OES400

Fuse standard	For 3 pole switch		For 4 pole switch	
	Catalog number	List price	Catalog number	List price
American standard	OESAZX1-S4 OESAZX1-S5	①	OESAZX1-S4/4 OESAZX1-S5/4	①
DIN80 (DIN43653) DIN80 sizes 00 and 000 (DIN 43653) DIN110 (DIN43653) DIN140 (DIN43653)	OESAZX1-S7 OESAZX1-S9 OESAZX1-S2 OESAZX1-S6		OESAZX1-S7/4 OESAZX1-S9/4 OESAZX1-S2/4 OESAZX1-S6/4	
Flush-end, 70mm body Flush-end, 50mm body	OESAZX1-S8 OESAZX1-S3		OESAZX1-S8/4 OESAZX1-S3/4	
French French with micro switches	OESAZX1-S10 OESAZX1-S11		OESAZX1-S10/4 OESAZX1-S11/4	

Fuse adapter kits — for switches OES600 – OES800

Fuse standard	For 3 pole switch		For 4 pole switch	
	Catalog number	List price	Catalog number	List price
American standard DIN80, DIN 110, DIN 140 (DIN43653) Flush-end, 50mm and 70mm body French French with micro switches	OESAZX2-S4 OESAZX2-S2 OESAZX2-S3 OESAZX2-S5 OESAZX2-S6	①	OESAZX2-S4/4 OESAZX2-S2/4 OESAZX2-S3/4 OESAZX2-S5/4 OESAZX2-S6/4	①

Handles and shafts — see pages 18.87 – 18.88.

Selecting the right fusible disconnect for HSF fuses may be difficult. Due to UL restrictions it is not possible to give a general fuse selection table for your use. Therefore we ask you to contact ABB Inc., Wichita Falls, in application issues. Information needed is nominal current of the application and catalog number of the fuse.

① Consult Factory.

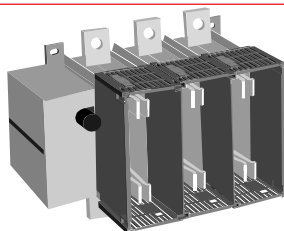
Other configurations

High speed fuse pattern

Standard switches

Disconnect
switches
Fusible

For a complete assembly, please select one switch catalog number which includes:



Switch body

+

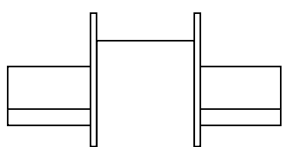


shaft

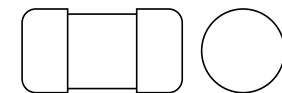
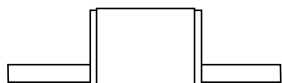
+



handle



DIN 43620



NFC Style

Selecting switch bodies

There are some HSF fuses that fit in standard pattern fusible disconnects, no adapter kits needed.

DIN-style fusible disconnects — 32A through 800A^①

UL general purpose amp rating	AC23A rated operational power in kW				Fuse type	Weight (lbs.)	Catalog number	List price
	230V	400V	500V	690V				
3 pole								
30	9	15	22	30	DIN 000, 00	2.9	OS32RD12	③
60	18.5	30	37	60	DIN 000, 00	2.9	OS63RD12	
100	45	80	110	132	DIN 000, 00	3.3	OS160RD03	
100	45	80	110	132	DIN 43653: 000/80	3.3	OS160RD0380	
200	70	132	170	230	DIN 0, 1	16.1	OESA250RD3	
400	110	210	280	330	DIN 0, 1, 2	18.3	OESA400RD3	
600	180	315	400	540	DIN 3	35.2	OESA630RD3	
800	200	350	470	600	DIN 3	39.6	OESA800RD3	
4 pole								
30	9	15	22	30	DIN 000, 00	3.5	OS32RD22	③
60	18.5	30	37	60	DIN 000, 00	3.5	OS63RD22	
100	45	80	110	132	DIN 000, 00	4.0	OS160RD04	
100	45	80	110	132	DIN 43653: 000/80	4.0	OS160RD0480	
200	70	132	170	230	DIN 0, 1	18.1	OESA250RD4	
400	110	210	280	330	DIN 0, 1, 2	20.7	OESA400RD4	
600	180	315	400	540	DIN 3	46.3	OESA630RD4	
800	200	350	470	600	DIN 3	52.9	OESA800RD4	

NFC-style fusible disconnects — 25A through 125A^②

UL general purpose amp rating	AC23A rated operational power in kW				Fuse type	Weight (lbs.)	Catalog number	List price
	230V	400V	500V	690V				
3 pole								
30	6	11	14	22	NFC 10x38	1.54	OS25RF1210	③
30	8	14	18	25	NFC 14x51	1.54	OS32RF1214	
60	18.5	30	37	60	NFC 14x51	2.90	OS63RF1214	
100	37	60	80	110	NFC 22x58	3.30	OS125RF0322	
100	45	80	110	132	NFC 27x60	3.30	OS160RF0327	
4 pole								
30	6	11	14	22	NFC 10x38	2.00	OS25RF2210	③
30	8	14	18	25	NFC 14x51	2.00	OS32RF2214	
60	18.5	30	37	60	NFC 14x51	3.50	OS63RF2214	
100	37	60	80	110	NFC 22x58	4.00	OS125RF0422	
100	45	80	110	132	NFC 27x60	4.00	OS160RF0427	

Selecting the right fusible disconnect for HSF fuses may be difficult. Due to UL restrictions it is not possible to give a general fuse selection table for your use. Therefore we ask you to contact ABB Control Inc., Wichita Falls, regarding application issues.

① OS32 – OS160 include handle OHB65J6 and shaft OXP6X161.
OESA250 – OESA400 include handle OHB125J12 and shaft OXP12X250.
OESA630 – OESA800 include handle OHB145J12 and shaft OXP12X250.

② OS25 – OS32 include handle OHB65J5 and shaft OXP5X150.
OS50 – OS125 include handle OHB65J6 and shaft OXP6X161.

③ Consult Factory.

Other configurations

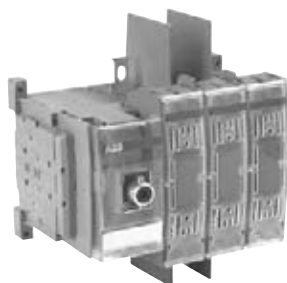
BS fuse pattern ① 20A – 800A



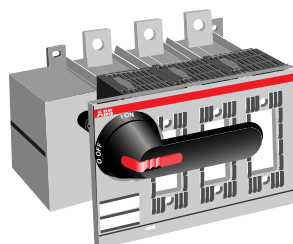
OS32B12A1



OS63B12



OS160



OESA200B3PL1

BS fuse pattern switches (20A – 32A)

Handle and shaft included

Catalog number	Number of poles	Rated op. current/ Rated op. power		Fuse type and size	Fuse standard
		415V	690V		
OS20B12A1 OS20B22A1N1 OS20B22A1F	3 3 + non-fused neutral 4	20 A 10 kW	20A 15 kW	A1 20 A	BS 88-2 IEC 269-2-1
OS32B12A1 OS32B22A1N1 OS32B22A1F	3 3 + non-fused neutral 4	32 A 15 kW	32A 25 kW	A1 32 A	
OS32B12A2 OS32B22A2N1	3 3 + non-fused neutral	32 A 15 kW	32A 25 kW	A2 32 A	
OS32B12F1 OS32B22F1N1	3 3 + non-fused neutral	32 A 15 kW	32A 25 kW	F1 32 A	BS 88-6

BS pattern switches (32A – 800A)

Handle and shaft included

Fuse covers included for 200A – 800A

Catalog number	Number of poles	Rated operational voltage AC23/[V]	I _{th} (open) [A]	Rated operational current/ Rated operational power in category AC23A, IEC947 [A/kW]					Weight with package [kg]
				230V	400V	415V	500V	690V	
OS32B12 OS32B22N1	3 4 ^②	500	32	32/7.5	32/11	32/15	32/15	—	1.3 1.6
OS63B12 OS63B22N1	3 4 ^②	690	63	63/15	63/30	63/30	63/30	401/30	1.3 1.6
OS100B12 OS100B13 OS100B01 OS100B11	3 4 ^② 1 2	690	125	100/30	100/55	100/55	100/70	501/45	1.5 1.8 0.9 1.9
OS160B12 OS160B13 OS160B01 OS160B11	3 4 1 2	690	160	100/30	100/55	100/55	100/70	500/45	1.5 1.8 0.9 1.2
OESA200B3PL1 OESA200B4PL1 OESA200B1PL1 OESA200B2PL1	3 4 ^② 1 2	690	200	200/57	200/100	200/110	200/140	200/180	7.1 8.2 5.1 6.1
OESA250B3PL1 OESA250B4PL1	3 4 ^②	690	250	250/70	250/132	250/140	250/170	250/230	7.1 8.2
OESA315B3PL1 OESA315B4PL1 OESA315B1PL1 OESA315B2PL1	3 4 ^② 1 2	690	315	315/90	315/100	315/100	315/220	315/290	7.9 8.9 5.9 6.9
OESA400B3PL1 OESA400B4PL1 OESA400B1PL1 OESA400B2PL1	3 4 ^② 1 2	690	400	400/110	400/210	400/230	400/280	400/330	8.3 9.4 6.3 7.3
OESA630B3PL1 OESA630B4PL1 OESA630B1PL1 OESA630B2PL1	3 4 ^② 1 2	690	630	630/180	630/315	630/340	630/400	630/540	16.0 21.0 6.5 11.0
OESA800B3PL1 OESA800B4PL1 OESA800B1PL1 OESA800B2PL1	3 4 ^② 1 2	690	800	800/200	800/350	800/380	720/470	720/600	18.0 24.0 6.7 12.3



BS fuses are widely used in UK, South-Africa, Australia and Hong Kong

① Please consult factory for additional information.

② The fourth pole is provided with a solid link which can be replaced with a fuse.

Other configurations

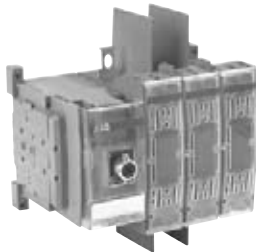
DIN fuse pattern ①

32A – 800A

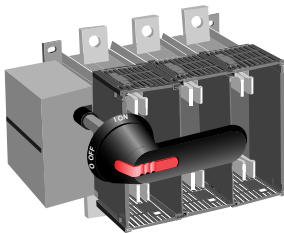
Disconnect
switches
Fusible



OS63D12



OS160



OESA250P3PL

DIN pattern switches (32A – 800A)

Handle and shaft included

Rated Catalog number voltage	Number of poles	operational AC23/[V]	I _{th} (open) [A]	Rated operational current/ Rated operational power in category AC23A, IEC947 [A/kW]					Weight with pack- age [kg]
				230V	400V	415V	550V	690V	
OS32D12 OS32D22N1 OS32D22F	3 3 + non-fused neutral 4	690	32	32/7.5	32/11	32/15	32/15	—	1.3 1.6 1.6
OS63D12 OS63D22N1 OS63D22F	3 3 + non-fused neutral 4	690	63	63/15	63/30	63/30	63/30	40/30	1.3 1.6 1.6
OS125D12 OS125D22N1 OS125D22F OS125D01 OS125D11	3 3 + non-fused neutral 4 1 2	690	125	100/30	100/55	100/55	100/70	50/45	1.5 1.8 1.8 0.9 1.2
OS160D12 OS160D22N1 OS160D22F OS160D01 OS160D11	3 3 + non-fused neutral 4 1 2	690	160	100/30	100/55	100/55	100/70	50/45	1.5 1.8 1.8 0.9 1.2
OESA250D3PL OESA250D4PL OESA250DF4PL OESA250D1PL OESA250D2PL	3 3 + non-fused neutral 4 1 2	690	250	250/70	250/132	250/140	250/170	250/230	7.3 8.2 8.2 5.5 6.4
OESA400D3PL OESA400D4PL OESA400DF4PL OESA400D1PL OESA400D2PL	3 3 + non-fused neutral 4 1 2	690	400	400/110	400/210	400/230	400/280	400/330	8.3 9.4 9.4 6.3 7.3
OESA630D3PL OESA630D4PL OESA630DF4PL OESA630D1PL OESA630D2PL	3 3 + non-fused neutral 4 1 2	690	630	630/180	630/315	630/340	630/400	630/540	16.0 21.0 21.0 6.5 11.0
OESA800D3PL OESA800D4PL OESA800DF4PL OESA800D1PL OESA800D2PL	3 3 + non-fused neutral 4 1 2	690	800	800/200	800/350	800/380	720/470	720/600	18.0 24.0 24.0 8.5 13.0



DIN fuses are mainly used in continental Europe (excluding France below 125A), Asia, Africa and South-America

① Please consult factory for additional information.

Other configurations

NFC fuse pattern

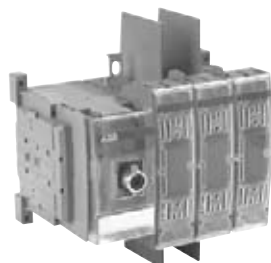
63A – 125A, 14x51 & 22x58



OS32F1214



OS63F12



OS125F03

NFC fuse pattern switches (cylinder) (10x38) (14x51)

Handle and shaft included

Catalog number	Number of poles	Rated op. current/ Rated op. power		Fuse type and size	Fuse standard
		415V	690V		
OS25F1210 OS25F2210N1 OS25F2210F	3 3 + non-fused neutral 4	25 A 12 kW	25A 22 kW	10 x 38 25 A	IEC 269-2-1
OS32F1214 OS32F2214N1 OS32F2214F	3 3 + non-fused neutral 4	32 A 15 kW	32A 25 kW	14 x 51 32 A	IEC 269-2-1

NFC fuse pattern (cylinder fuse links), (14x51 & 22x58)

Handle and shaft included

Catalog number	Number of poles	Rated operational voltage AC23/[V]	I _{th} (open) [A]	Rated operational power in category AC23A, IEC947 [A/kW]					Weight with pack- age [kg]
				230V	400V	415V	550V	690V	
OS50F12 OS50F22F	3 4	690 690	50 50	50/15 50/15	50/25 50/25	50/25 50/25	50/33 50/33	50/45 50/45	1.3 1.6
OS63F12 OS63F22F	3 4	690 690	63 63	63/18.5 63/18.5	63/30 63/30	63/30 63/30	63/37 63/37	63/60 63/60	1.3 1.6
OS100F03 OS100F04F OS100F04N1	3 4 3 + non-fuse N	690	125	100/30	100/45	100/55	100/60	100/90	2.2 2.8 2.8
OS125F03 OS125F04F OS125F04N1	3 4 3 + non-fuse N	690 690 690	125	125/37	125/60	125/60	125/80	125/110	1.3 1.6 1.6

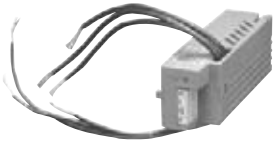


NFC fuses are used in France and in French speaking Africa

① Please consult factory for additional information.

Fuse monitors

Disconnect
switches
Fusible



OFM_

Fuse monitors

For switch size	Rated voltage	Weight (lbs.)	Catalog number	List price
OS30-600 and OES800	100 - 240	0.31	OFM240	\$ 435
	380 - 600	0.31	OFM600	

Suitable for 1 or 3 phase circuits. Includes 1 N.O. & 1 N.C. auxiliary contacts and red & green LED lights.

Mounting accessories

For switch size	Crimp terminal size (mm)		Catalog number	List price
OS30 - 200	2.8 - 0.8		OFMZX2	\$ 20
OS400 - 600, 800	6.3 - 0.8		OFMZX4	70

Includes 6 crimp terminals.

Description

- Indicates single phasing
- Operates with all fuse types
- No need for external supply voltage
- Wide voltage range, 100-240VAC and 380-600VAC
- UL Listed, EMC tested
- Fuse monitor is automatically reset after the blown fuses have been replaced
- One trip contact, one alarm contact and two LEDs (red and green)
- Phase imbalance immune
- Compact size
- Snap-on and screw-on mounting for OS disconnects
- Suitable to be used as a standalone device

Technical data

OS30A_12 – OES800L3

UL & CSA

UL & CSA

Catalog number	3 pole	OS30A_12	OS60J12	OS100J03	OS200J03	OS400J03	OS600J03	OES800L3
Approvals ①	2 pole 3 pole 4 pole	N/A UL98 & IEC UL98 & IEC	N/A UL98 & IEC UL98 & IEC	IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC	UL98 & IEC UL98 & IEC UL98 & IEC
Technical ratings	-40° to 40°C							
General purpose amp rating pf = 0.7 – 0.8	A	30	60	100	200	400	600	800
Max operating voltage	V	600	600	600	600	600	600	600
Max horsepower rating/ Max motor FLA current pf = 0.4 – 0.5 Three phase								
240V	HP/A	7.5/22.0	15/42.0	30/80.0	60/145.0	125/312.0	200/480.0	250/602.0
480V	HP/A	15/21.0	30/40.0	60/77.0	125/156.0	250/302.0	400/477.0	500/590.0
600V	HP/A	20/22.0	50/52.0	75/77.0	150/144.0	350/336.0	500/472.0	600/ —
Single phase								
120V	HP/A	2/24.0	—	—	—	—	—	—
240V	HP/A	3/17.0	—	—	—	—	—	—
Short circuit rating with fuse	kA	200	200	200	200	200	200	100
UL Fuse size	A	30	60	100	200	400	600	800
UL Fuse type		J/CC	J	J/T	J/T	J	J	L
Endurances								
Min. Electrical endurance, pf = 0.75 – 0.80 operation cycles		6000	6000	6000	6000	1000	1000	500
Mechanical endurance operation		20,000	20,000	20,000	20,000	12,000	10,000	7000
Physical characteristics								
Weight	3 pole lb 4 pole lb	1.54 1.98	2.86 3.52	3.30 3.96	5.9 7.5	12.56 15.21	28.66 37.48	37.44 46.26
Dimension	3 pole H in W in D in	3.66 4.15 4.10	3.94 5.63 5.04	5.67 7.07 5.10	6.5 7.1 5.2	9.29 10.04 6.93	12.04 13.50 9.17	10.10 14.80 9.17
Shaft size square □	in mm	.20 5 x 5	.24 x .24 6 x 6	.24 x .24 6 x 6	.24 x .24 6 x 6	.47 x .47 12 x 12	.47 x .47 12 x 12	.47 x .47 12 x 12
Switch operating torque for rotary 3 pole switches	lb. in.	26.6	35.5	70.9	195	195	248	248
Terminal lug kits								
Wire range	AWG	Integral #18 – 8	Integral #14 – 4	OZXA-24 #14 – 2/0	OZXA-200 #4 – 300kcmil	OZXA-400 #2 – 600kcmil	OZXA-800 (2) #2 – 600 kcmil	OZXA-27 (2) #2 – 600 kcmil
Torque:								
Wire tightening	lb. in.	17	30	120	200	500	500	500
Lug mounting	lb. in.	N/A	N/A	50	72	480	480	480
Auxiliary contacts		OA4G_	OA1/3G_	OA_G_	OA_G_	OA_G_	OA_G_	OZ XK-__
NEMA ratings, AC		—	A600	A600	A600	A600	A600	A600
AC rated voltage	VAC	250	600	600	600	600	600	600
AC thermal rated current	A	6	10	10	10	10	10	10
AC maximum volt ampere making	VA	—	7200	7200	7200	7200	7200	7200
AC maximum volt ampere breaking	VA	—	720	720	720	720	720	720
NEMA ratings, DC		—	P300	R300	R300	P600	P600	P600
DC rated voltage	VDC	—	300	300	300	600	600	600
DC thermal rated current	A	—	1	1	1	1	7	5
DC maximum make break current	A	—	28	28	28	28	28	138
Torque:								
Wire tightening	lb. in.	7	7	7	7	7	7	7
Wire range	AWG	#22 – 14/#18 – 14	#18 – 14	#18 – 14	#18 – 14	#18 – 14	#18 – 14	#20 – 12

① The following UL Listed switches are also CSA approved.

Technical data

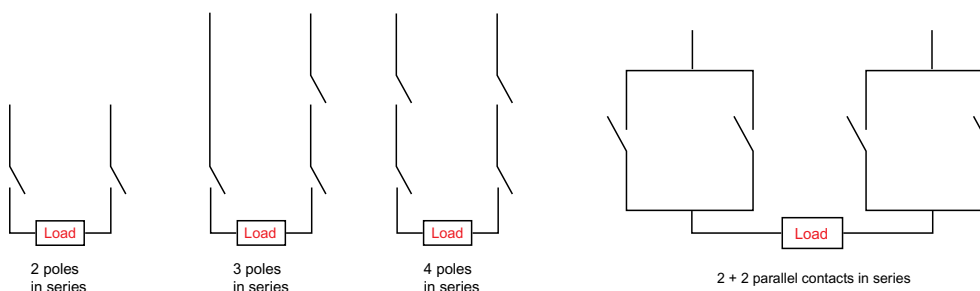
OS30A_12 – OES800L3

IEC

Disconnect
switches
Fusible

IEC

Catalog number	3 pole	OS30A_12	OS60J12	OS100J03	OS200J03	OS400J03	OS600J03	OES800L3
Technical ratings	-40° to 40°C							
Rated insulation voltage								
Pollution degree 3 ⑥	V	1000	1000	1000	1000	1000	1000	1000
Dielectric strength 50Hz/60Hz, 1 min	kV	10	10	10	10	10	10	10
Rated impulse withstand voltage	kV	12	12	12	12	12	12	12
Rated thermal current, I _{th} /max. fuse power dissipation ①								
AC 20/DC 20 open ②	A/W	32/3.5	63/7.5	160/12	200/17	400/45	630/60	800/65
40°C enclosed	A/W	32/3.5	63/7.5	160/10, 135/12	200/17	400/34, 360/37	600/45, 570/50	720/55
Enclosed with solid links	A/W	32	85	175	280	450	700	900
with minimum cable cross section Cu	mm²	6	16	70	95	240	2 x 185	2 x 240
Rated operational voltage AC 20 and DC 20V		1000	1000	1000	1000	1000	1000	1000
AC Rated operational currents								
AC 21A	≤500V A	32	63	160	200	400	630	800
	≤690V A	32	63	160	200	400	630	800
AC 22A	≤500V A	32	63	160	200	400	630	800
	≤690V A	32	63	160	200	400	630	800
AC 23A	≤500V A	32	63 ⑤	160 ⑤	200	400	630	720
	≤690V A	32	63 ⑤	160 ⑤	200	400	630	720
DC Rated operational currents/poles in series								
DC21A	48V A	32/2 ③	④	④	200/1	400/2	—	800/2
	110V A	32/2	④	④	200/1	400/2	—	800/2
	220V A	32/2	④	④	200/1	400/2	—	800/2
	440V A	32/4	63/4	160/3	200/2	400/2	—	800/2
	750V A	—	④	④	180/4	400/3	—	800/3
	1000V A	—	④	④	—	400/4	—	800/4
DC22A	48V A	32/2 ③	④	④	200/1	400/2	—	800/2
	110V A	32/2	④	④	200/1	400/2	—	800/2
	220V A	32/2	④	④	200/1	400/2	—	800/2
	440V A	32/4	63/4	160/3	200/2	400/2	—	800/2
	750V A	—	④	④	180/4	400/3	—	800/3
	1000V A	—	④	④	—	400/4	—	800/4
DC23A	48V A	32/2 ③	④	④	200/1	400/2	—	800/2
	110V A	32/2	④	④	200/1	400/2	—	800/2
	220V A	32/2	④	④	200/1	400/2	—	800/2
	440V A	32/4	63/4	160/3	200/2	400/2	—	800/2
	750V A	—	④	④	180/4	400/3	—	800/3
	1000V A	—	④	④	—	—	—	800/4
Rated operational power AC23A								
230V	kW	8	18.5	45	60	132	200	200
400V	kW	14	30	80	110	220	355	350
415V	kW	15	30	90	110	230	355	380
500V	kW	18	37	110	140	280	450	470
690V	kW	25	60	132	190	400	630	600



① Ambient temperature 60°C: derating 20 percent. Mounting on ceiling: derating 10 percent. Mounting on wall, horizontal fuses: derating 8 percent.
 ② The ambient air temperature does not exceed +40°C and its average over a period of 24h does not exceed +35°C according to IEC 947.
 ③ For 30A switches, use 2 + 2 parallel contacts in series.
 ④ Available on request.
 ⑤ IEC 947-3, utilization category B, infrequent operation.
 ⑥ Pollution degree 3: Conductive pollution occurs, or dry, non-conductive pollution occurs, which becomes conductive due to condensation.

Technical data

OS30A_12 – OES800L3

IEC

IEC

Catalog number	3 pole	OS30A_12	OS60J12	OS100J03	OS200J03	OS400J03	OS600J03	OES800L3
Rated breaking capacity								
in category AC-23A 500V	A	256	504	1280	1600	3200	5760	5760
690V	A	256	504	1280	1600	3200	5760	5760
Rated breaking capacity/poles in series								
in category DC-23 <220V	A	128/2	—	—	1000/2	1600/2	3200/2	3200/2
440V	A	128/4	—	—	1000/2	1600/2	3200/2	3200/2
500 – 750V	A	—	—	—	1000/3	1600/3	3200/3	3200/3
1000V	A	—	—	—	—	—	3200/4	3200/4
Rated conditional short-circuit current r.m.s. ③								
80 kA, 415V	kA	9	17	22	35	40	75	75
100 kA, 500 V	kA	7.5	17	22	37.5	40	75	75
50 kA, 690 V	kA	6	13	15	35	35	60	60
Rated short time withstand current, 1s.	kA	1	2.5	5	8	10	16	16
Rated capacitor power								
The capacitor rating of the fusible disconnect switch is limited by the fuse link								
400 V	kVar	15	30	—	—	180	250	310
415V	kVar	15	32	—	—	200	270	340
690V	kVar	25	50	—	—	325	450	550
Power loss/pole								
with rated current, without fuse	W	2	4	9	8	30	46	77
Mechanical endurance	operations	20,000	20,000	20,000	20,000	16,000	10,000	10,000
Fuse types, IEC 269-2	DIN 43620	—	000, 00	000, 00	—	0 – 2	3	3
	NFC	10 x 38, 14 x 51	14 x 51, 22 x 58	22 x 58	—	0 – 2	3	—
	BS 88	A1, A2, F1	A2 – A3	A2 – A4	B1 – B2	B1 – B4	C1 – C2	C1 – C3
size/distance of link bolts		M4/44.5(A1) M5/73(A2)	M5/73	M5/73 M8/94	M6/111	M8/111	M10/133, 184	M10/133, 184
Physical characteristics								
Weight	3 pole	kg	0.7	1.3	1.5	2.6	5.7	13.0
	4 pole	kg	0.9	1.6	1.8	7.9	6.9	17.0
Dimension	3 pole	H mm	93	100	144	198.5	236	306
		W mm	106	143	179	181.5	255	343
		D mm	104	120	129	132	176	233
Shaft size	square	mm	5 x 5	6 x 6	6 x 6	6 x 6	12 x 12	12 x 12
Terminals								
Built-in terminal size mm ²		0.5 – 10	2.5 – 25	—	—	—	—	—
Terminal bolt size, metric thread								
diameter x length mm	—	—	—	M6 x 20	M8 x 25	M10 x 40	M12 x 40	M12 x 40
Terminal bolt tightening torque	Nm	2	3.5	6 – 9	15 – 22	30 – 44	50 – 75	50 – 75
Fuse-links bolts tightening torque	Nm	2	3.5	3.5 – 5	4	15	40	40
Operating torque	Nm	3	4	8	7	22	28	28
Auxiliary contacts		OA4G_ ①	OA1/3G ②	OA_G_ ②	OA_G_ ②	OA_G_ ②	OA_G_ ②	OZ XK_
Ratings according to IEC 947-5-1								
Rated voltage, U _i	VAC	690	690	690	690	690	690	690
Thermal current, I _{th}	A	10	16	16	16	16	16	10
AC12 / DC12, I _e	U _e =24V	— / 6	—	—	—	—	—	—
	120V	— / 6	—	—	—	—	—	8 / —
	125V	—	—	—	—	—	—	— / 1.1
	230V	—	6 / —	6 / —	6 / —	—	—	6 / —
	250V	3 / 0.1	—	—	—	—	—	— / 0.55
	400V	—	4 / —	4 / —	4 / —	—	—	4 / —
	415V	—	—	—	—	—	—	4 / —
	440V	2 / —	—	—	—	—	—	— / 0.31
	480V	—	—	—	—	—	—	3 / —
	500V	—	—	—	—	—	—	3 / 0.27
	600V	—	—	—	—	—	—	— / 0.2
	690V	—	2 / —	2 / —	2 / —	2 / —	2 / —	2 / —

① AC15 / DC12, according to IEC 947-5-1

② AC15, according to IEC 947-5-1

③ Values shown are corresponding max. allowed cut-off current, peak-values per single phase fuse tests.

Selecting switches per NEC & IEC

Disconnect
switches
Fusible

Selecting switches per NEC

Article 430 of the US National Electric Code includes two methods for properly sizing disconnect switches:

1. Single motor application

A properly sized disconnect switch for a single motor will:

- have an ampere rating greater than or equal to 115 percent of the rated motor full load current; or,
- have a HP rating greater than or equal to the rated motor HP (at applied voltage) if the disconnect switch under consideration is HP rated.

2. Combination load application

A properly sized disconnect switch for a combination load will be selected by adding all the simultaneous individual loads in the circuit under consideration.

Using motor nameplate information, load information, and tables from section 430 of the NEC, determine one equivalent full load current and one equivalent locked rotor current. The equivalent locked rotor current can be used with table 430-151 to determine an equivalent HP rating. Select a disconnect switch:

- greater than or equal to 115 percent of the equivalent full load current; and,
- greater than or equal to the equivalent HP rating.

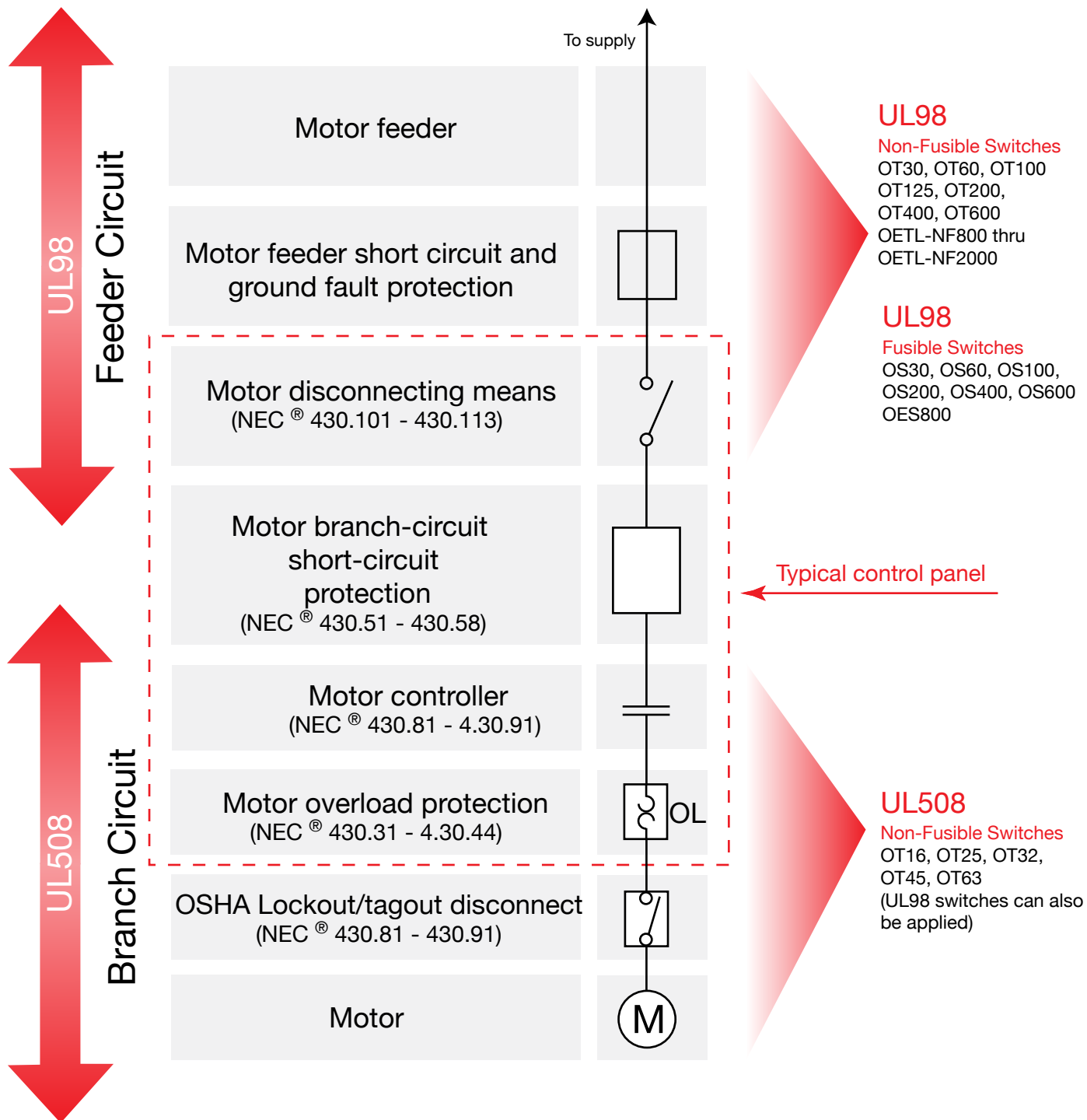
Selecting switches per IEC

Utilization categories

Nature of current	Utilization category		Typical applications
	Frequent operation	Infrequent operation	
Alternating current	AC-20A	AC-20B	<ul style="list-style-type: none"> Connecting and disconnecting under no-load conditions Switching of resistive loads including moderate overloads (PF > 0.95) Switching of mixed resistive and inductive loads, including moderate overloads (PF > 0.65) Switching of motor loads or other highly inductive loads (PF > 0.45 below 100A; PF > .35 above 100A)
	AC-21A	AC-21B	
	AC-22A	AC-22B	
	AC-23A	AC-23B	
Direct current	DC-20A	DC-20B	<ul style="list-style-type: none"> Connecting and disconnecting under no-load conditions Switching of resistive loads including moderate overloads (L/R < 1ms) Switching of mixed resistive and inductive loads, including moderate overloads, e.g., shunt motors (L/R < 2.5ms) Switching of highly inductive loads, e.g., series motors (L/R < 15ms)
	DC-21A	DC-21B	
	DC-22A	DC-22B	
	DC-23A	DC-23B	
Mechanical endurance	Number of operations	Number of operations	
100A	10,000	2000	
315A	8000	1600	
>315A	2000	400	

- Category AC-23 includes occasional switching of individual motors. The switching of capacitors of tungsten filament lamps shall be subject to agreement between manufacturer and user.

Use of UL98 & UL508 Disconnects



AC – Alternating current — Current that reverses its direction of flow twice per cycle.

Ambient temperature — Temperature of the air surrounding the unit.

Amp rating — The basic unit of measurement for electric current (columbs / seconds).

Conventional thermal current I_{th} — Value of the current the disconnect switch can withstand with poles in closed position, in free air for an eight hour duty, without the temperature rise of its various parts exceeding the limits specified by the standards.

Cycle duration — Total time of the on-load + off-load period.

DC – Direct current — Current that flows in only one direction.

Electrical endurance — Number of on-load operating cycles.

IEC environmental protection type — see page 18.48.

Full load amp current FLA — The current required by a motor to produce full-load torque at the motor's rated speed.

Inductive load — An electrical load characterized by having significant inrush (5 to 6 times FLA for typical design-B AC induction motors).

kW — Kilowatts (1000 watts)

Lockout/Tagout — Means of removing power from electrical equipment during inspection, service or repair.

Make / Break — ON / OFF

Mechanical endurance — Number of off-load operating cycles.

Poles in series — Means of connection poles using wires or bus bars to increase breaking capacity of load.

Power factor — The relationship between working power and total power consumed. Power factor measures how effectively electrical power is being used.

Rated insulation U_i — Voltage value which designates the unit and to which dielectric tests, clearance and creepage distances are referred.

Rated operating current I_o — Current value stated by the manufacturer and taking into account the rated operating voltage U_o , the rated frequency, the rated duty, the utilization category, the electrical contact life and the type of protective enclosure.

Rated operating voltage U_o — Voltage value to which utilization characteristics of the disconnect switch are referred, i.e. phase-to-phase voltage in 3 phase circuits.

Rated short circuit making capacity I_{cm} — The rated short-circuit making capacity of a disconnect switch, a disconnect or a switch-disconnector is the value assigned to equipment at the rated operational voltage, frequency (if any) and specified power-factor for AC or time constant for DC. It is expressed as the maximum prospective peak current under prescribed conditions.

Rated short time withstand current I_{cw} — The rated short-time withstand current of a disconnect switch, a disconnect or a switch-disconnector is the value that the equipment can carry without damage, under the test conditions specified in the relevant product standard. The value of the rated short-time withstand current shall be not less than twelve times the maximum rated operational current unless otherwise stated by manufacturer and the duration of the current shall be 1 s.

Resistive load — An electrical load characterized by not having any significant inrush current.

Short circuit protection co-ordination — Co-ordination types "1" and "2" are defined in IEC 947-4-1.

Type 1 co-ordination — There has to be no discharge of parts beyond the enclosure. Damage to the contactor and the overload is acceptable.

Type 2 co-ordination — No damage to the overload relay or other parts has occurred, except that welding of contactor or starter contacts is permitted, if they are easily separated.

Time constant — Ratio of inductance to the resistance:
 $L/R = \text{mH}/\text{Ohm} = \text{ms}$.

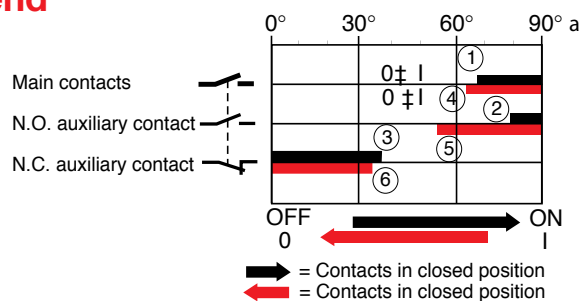
Torque — The force that produces rotation. It is commonly measured in pound-feet (lb-ft). Torque applies to such things as motor operations, handle rotations, wire tightening.

UL environmental protection type — see page 18.49.

Volt — The unit of electrical potential difference and electromotive force.

Auxiliary contact timing diagrams OS30_ – OS100

Legend

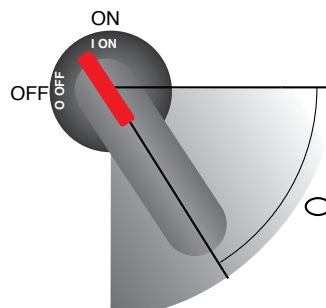


Contacts closing

- ① Main contacts close
- ② N.O. auxiliary contacts close
- ③ N.C. auxiliary contacts open

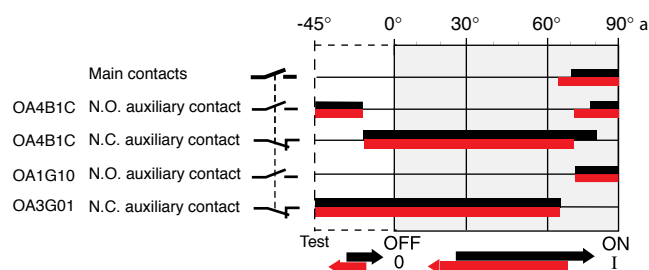
Contacts opening

- ④ Main contacts open
- ⑤ N.O. auxiliary contacts open
- ⑥ N.C. auxiliary contacts close



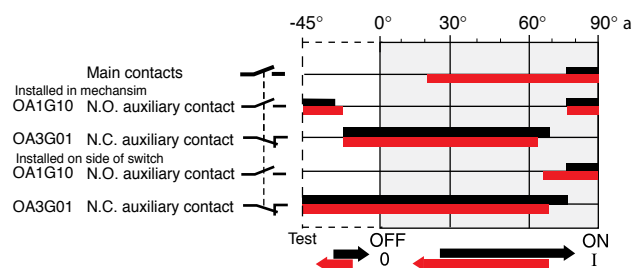
OS30_

Catalog number	Auxiliary contact	Contact configuration
OS30_	OA4B1C OA1G10 OA3G01	1 N.O. & 1 N.C. 1 N.O. 1 N.C.



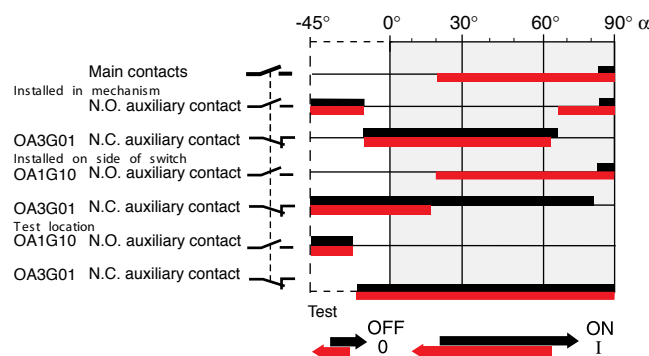
OS60

Catalog number	Auxiliary contact	Contact configuration
OS60	OA1G10 OA3G01	1 N.O. 1 N.C.



18 OS100

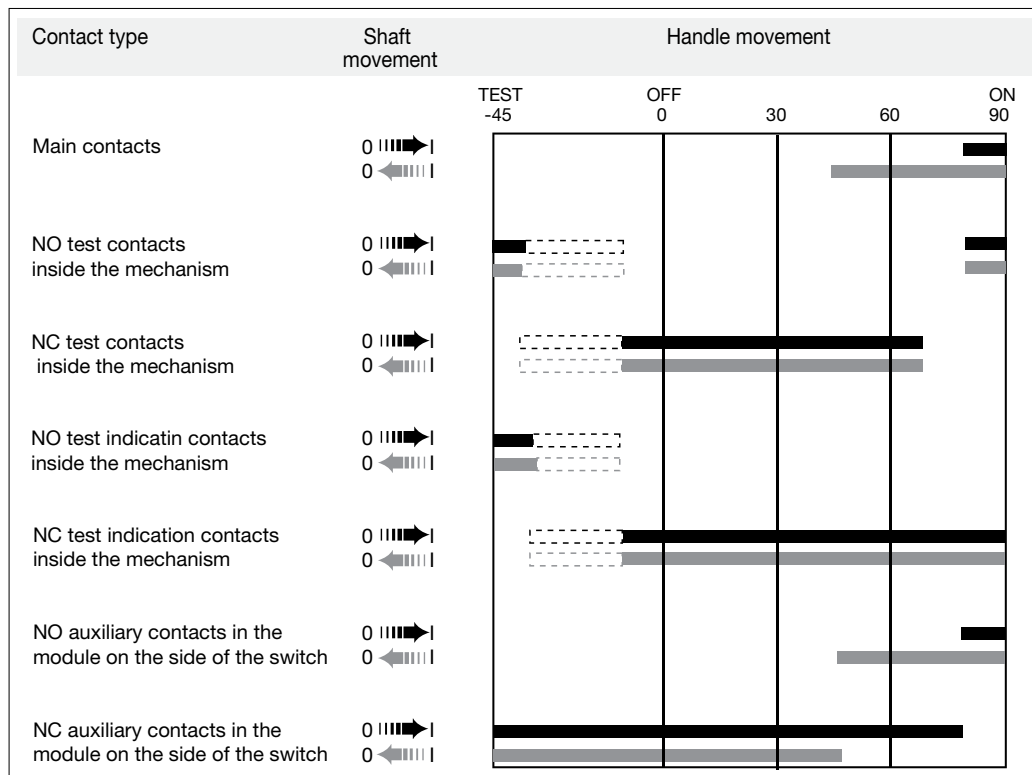
Catalog number	Auxiliary contact	Contact configuration
OS100	OA1G10 OA3G01	1 N.O. 1 N.C.



Auxiliary contact timing diagrams OS200 – OES800

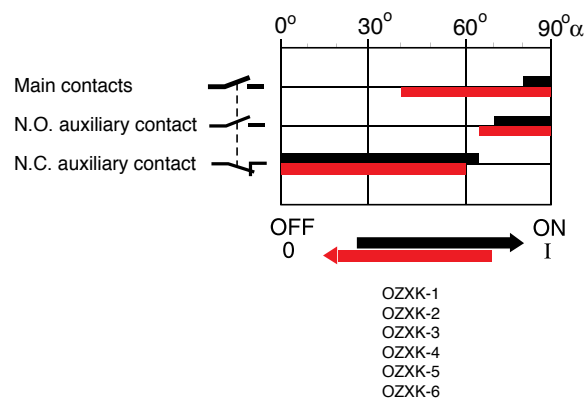
Disconnect
switches
Fusible

OS200 - OS600



OES800

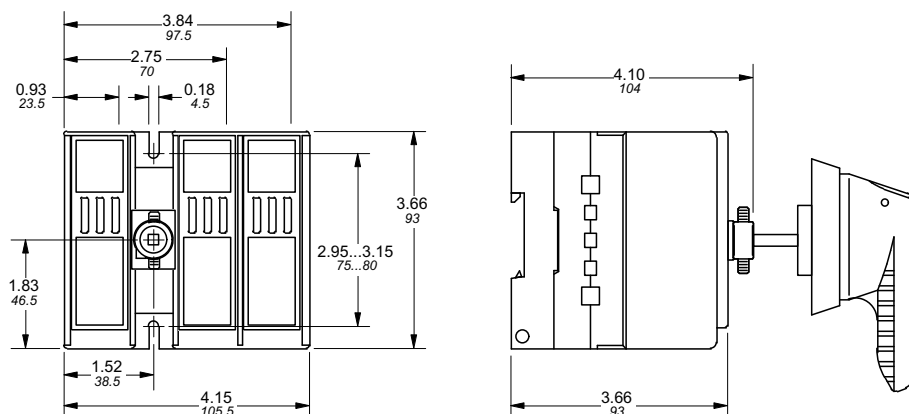
Catalog number	Auxiliary contact	Contact configuration
OES800	OZXK-1	1 N.O. & 1 N.C.
	OZXK-2	2 N.O. & 2 N.C.
	OZXK-3	4 N.O. & 4 N.C.
	OZXK-4	2 N.O.
	OZXK-5	4 N.O.
	OZXK-6	8 N.O.



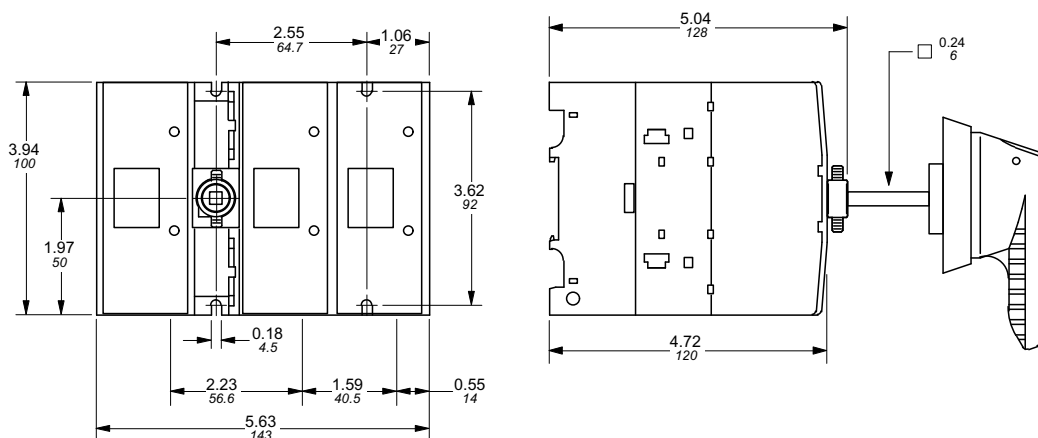
Approximate dimensions OS30A_ – OS60_

00.00 00.00 Inches
[Millimeters]

OS30AJ12 & OS30ACC12



OS60J12

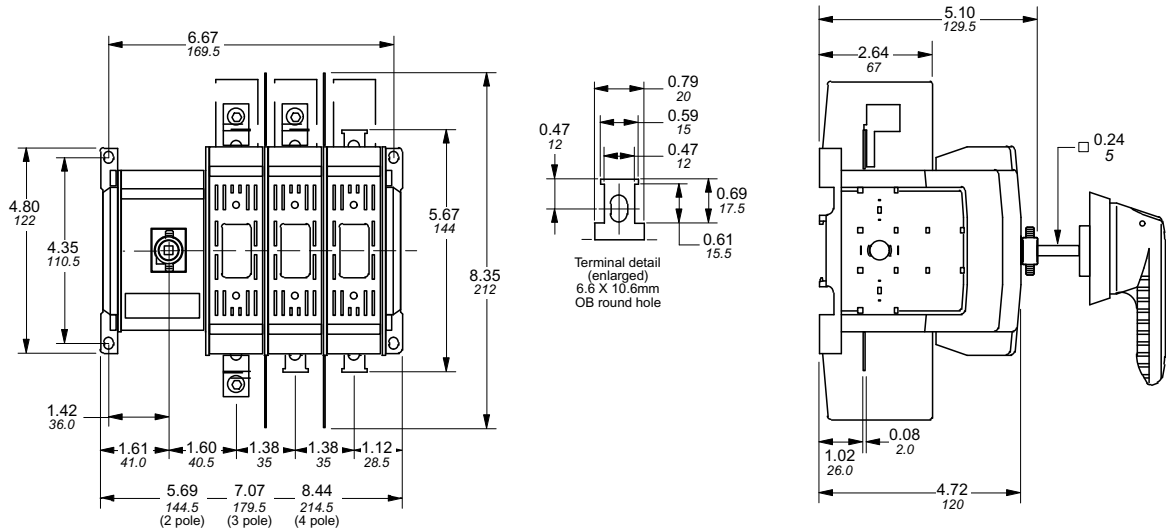


Approximate dimensions OS100_ – OS200_

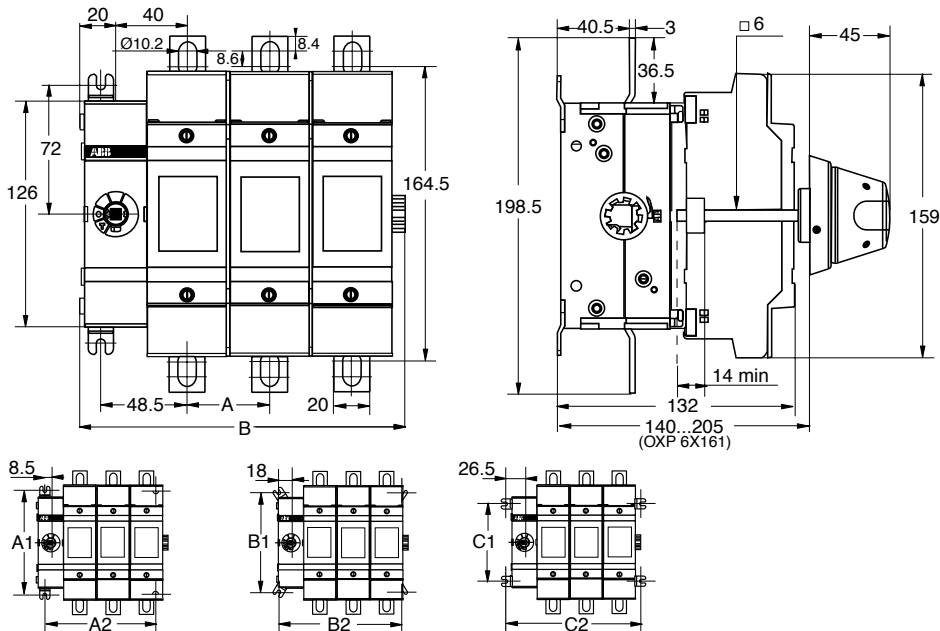
Disconnect
switches
Fusible

00.00 Inches
00.00 [Millimeters]

OS100J03



OS200J03, -04

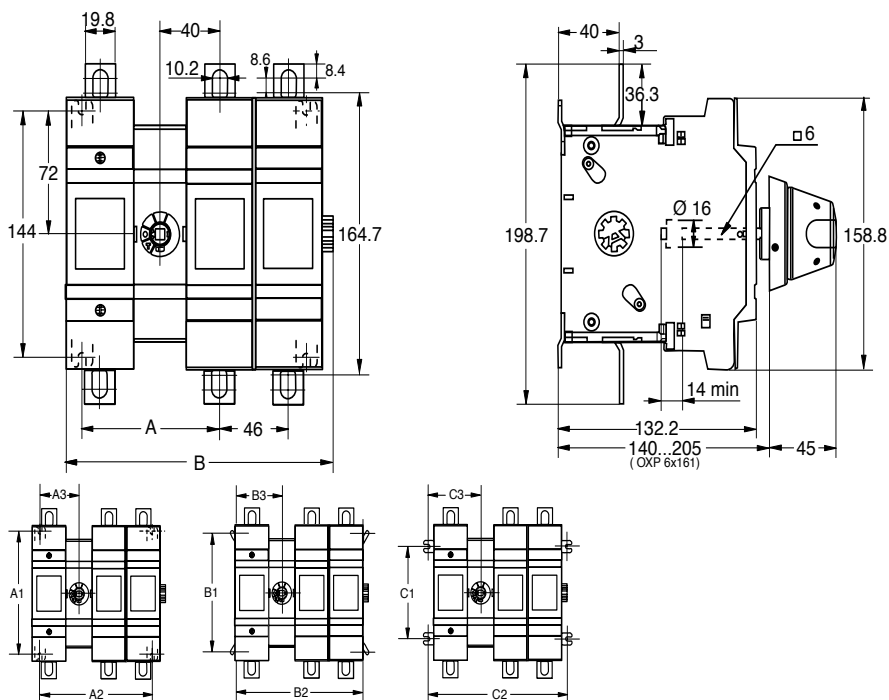


	OS200 (mm)	
	J03	J04F
A	46	46
B	181.5	222.75
A1	144	144
A2	152.5	198.5
B1	138.5	138.5
B2	171.5	217.5
C1	108	108
C2	188.5	234.5

Approximate dimensions OS200_ – OES200_

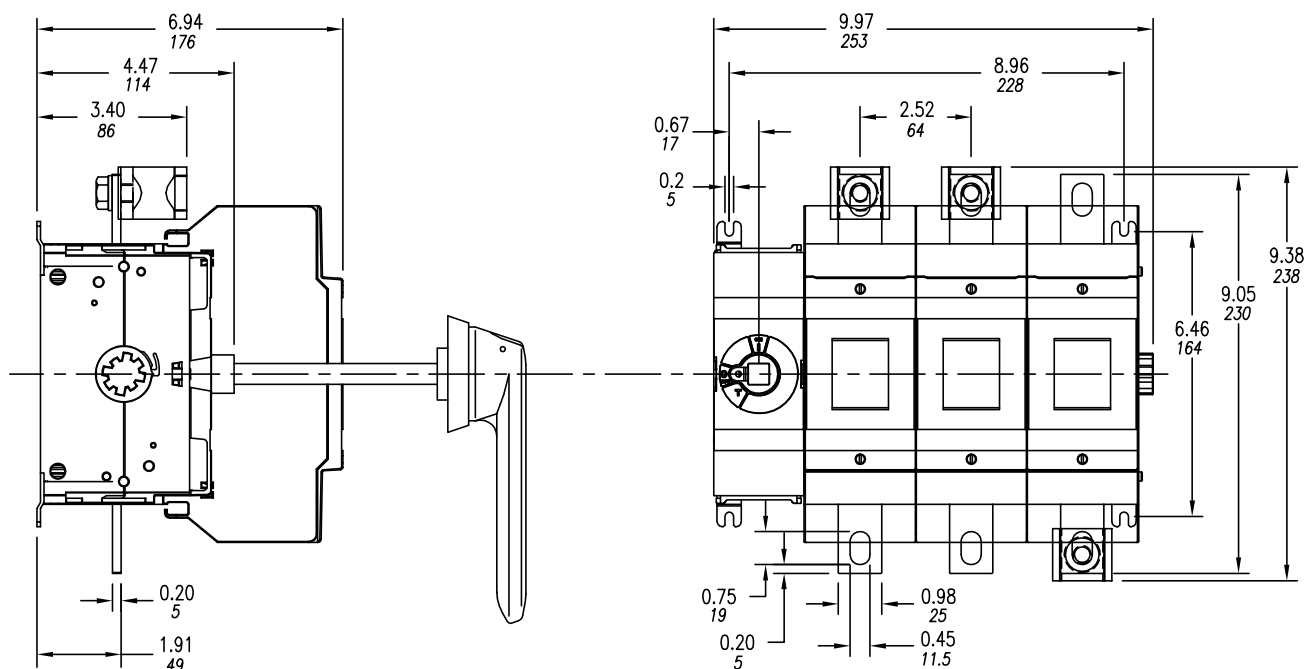
00.00 00.00 Inches
[Millimeters]

OS200J11, -12, -13, -22



	OS200 (mm)			
	J11	J12	J13	J22
A	92	92	92	138
B	132.1	178.1	224.1	224.1
A1	144	144	144	144
A2	104	150	196	196
A3	52	52	52	98
B1	109.4	109.4	109.4	109.4
B2	105.9	140.9	140.9	175.9
B3	61.5	61.5	61.5	107.5
C1	108	108	108	108
C2	140	186	232	232
C3	70	70	70	116

OS400J03

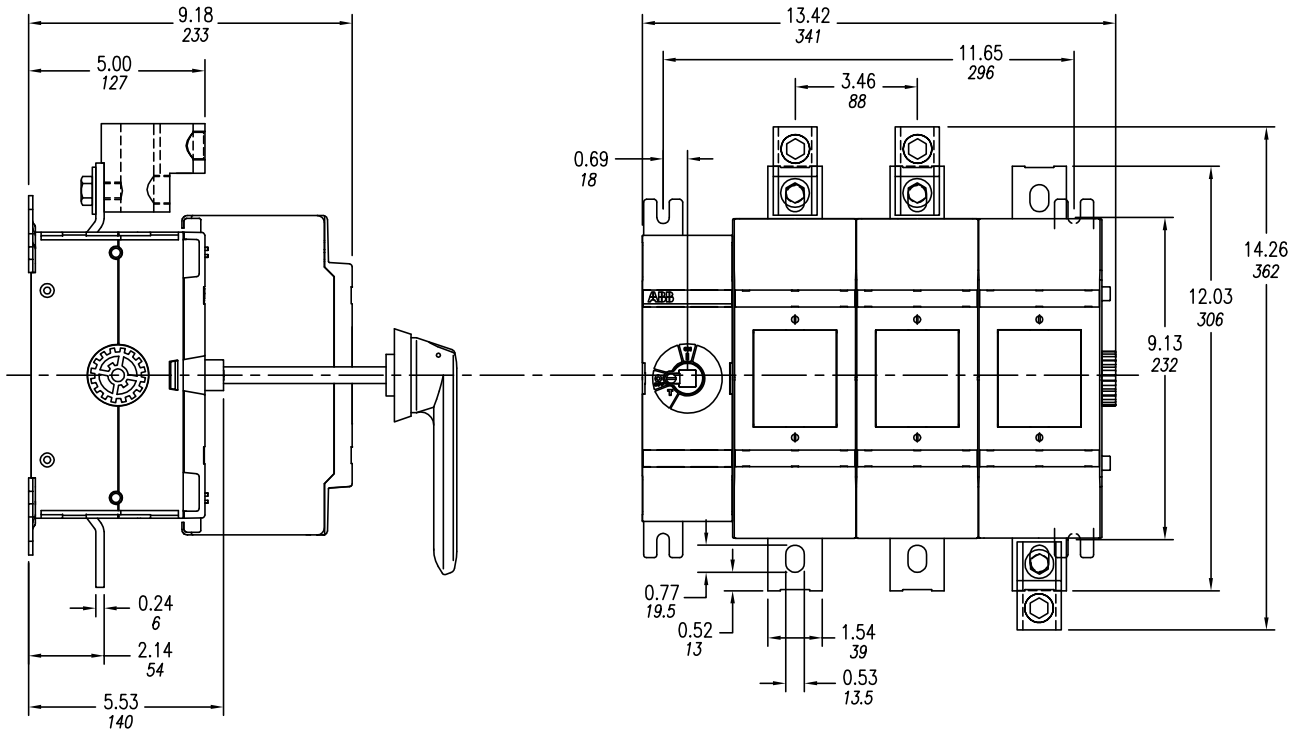


Approximate dimensions OS600J03

Disconnect
switches
Fusible

00.00
00.00 Inches
[Millimeters]

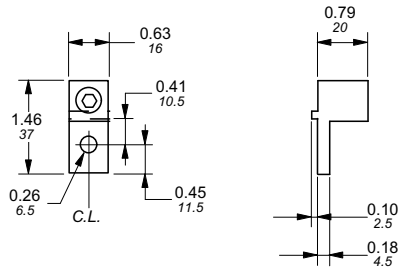
OS600J03



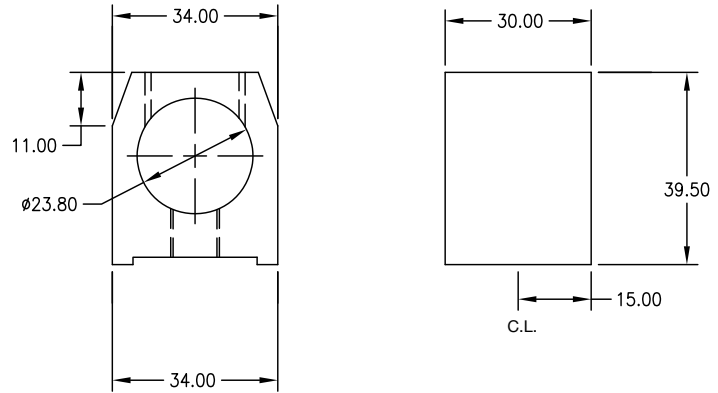
Approximate dimensions for Terminal lugs

00.00 00.00 Inches
[Millimeters]

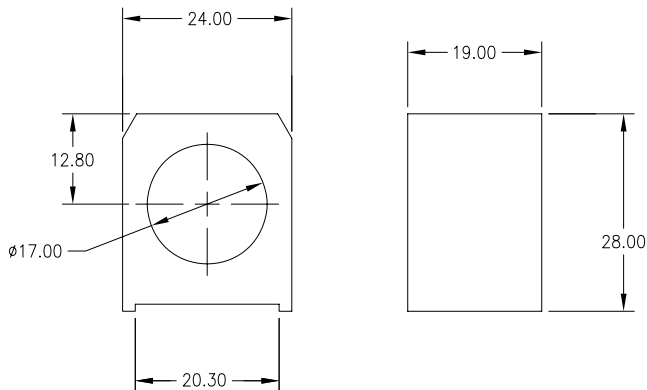
OZXA-24 — for use with 100A switches



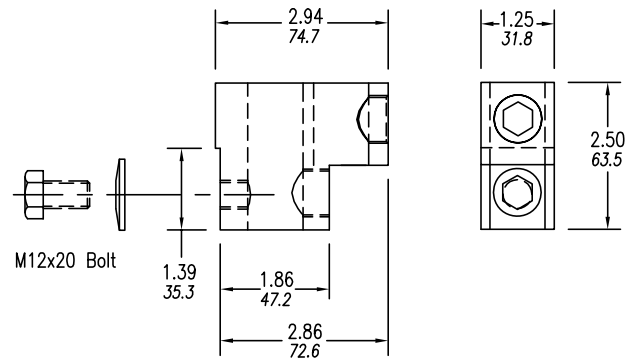
OZXA-400 — for use with 400A switches



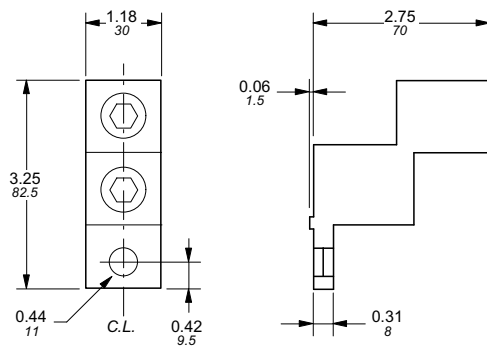
OZXA-200 — for use with 200A switches



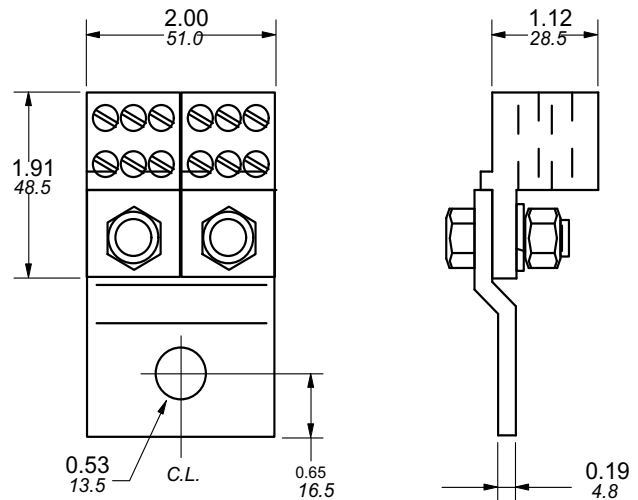
OZXA-800 — for use with 600A switches



OZXA-33 — for use with 400A switches



OZXA-175/400 — for use with 800A switches

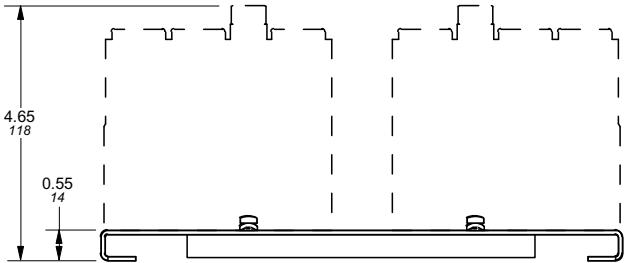
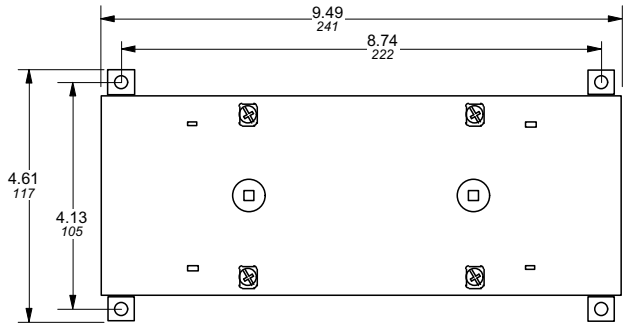


Approximate dimensions for 30A Conversion mechanisms

Disconnect
switches
Fusible

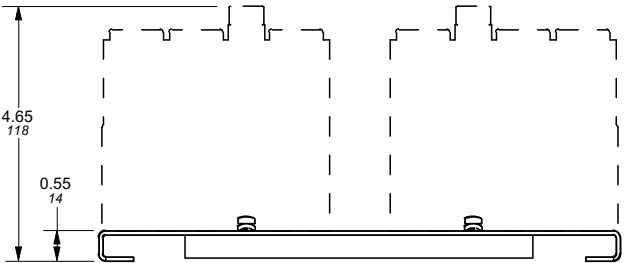
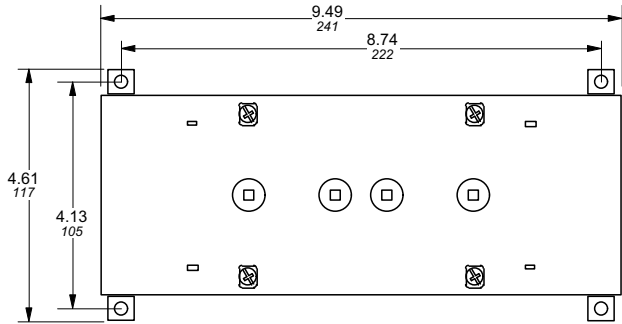
00.00
00.00 Inches
[Millimeters]

6 pole — OWP5DS1



OWP5DS1 in combination with:	Minimum inches/mm	Maximum ⌀ inches/mm
OS30_	5.51 / 140	n/a

Mechanical interlock — OWM5DS1

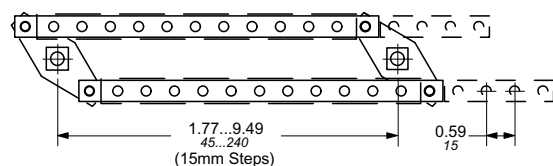
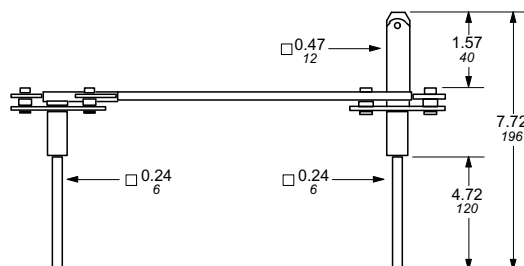


OWM5DS1 in combination with:	Minimum inches/mm	Maximum inches/mm
OS30_	5.51 / 140	n/a

Approximate dimensions for 60A – 100A conversion mechanisms

00.00 00.00 Inches
[Millimeters]

6 or 8 pole — OESA-ZW2

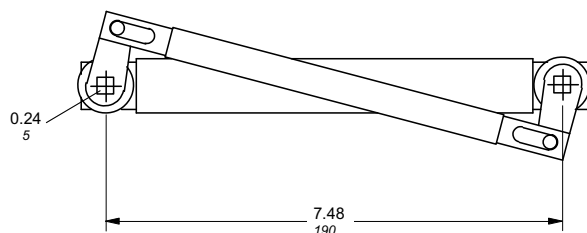


For installation of 6 or 8 pole and transfer mechanisms, the following minimum and maximum mounting dimensions are given below.

OESA-ZW2 in combination with:	Minimum inches/mm	Maximum ① inches/mm
OS60	6.89/175	10.83/275
OS100	6.89/175	10.83/275

Note: Deeper enclosures will require a longer shaft, please select a 12mm shaft from page 18.88, and an OETL-ZX95 shaft extension coupler from page 18.90.

Mechanical interlock — OTZW10



OTZW10 in combination with:	Minimum inches/mm	Maximum ① inches/mm
OS60 - OS 200	6.3 / 160	—

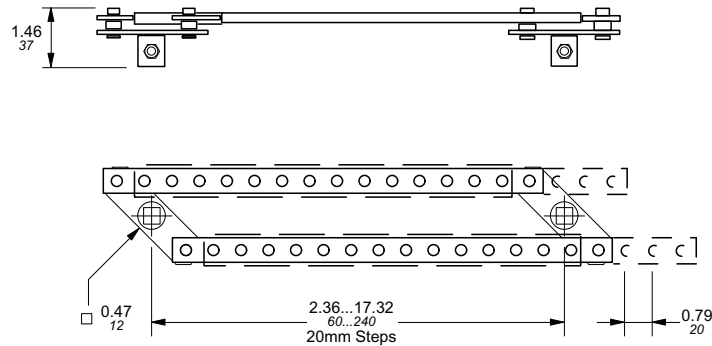
Note: Deeper enclosures will require a longer shaft, please select a 6mm shaft from page 18.83.

Approximate dimensions for 400A – 800A conversion mechanisms

Disconnect
switches
Fusible

00.00 Inches
00.00 [Millimeters]

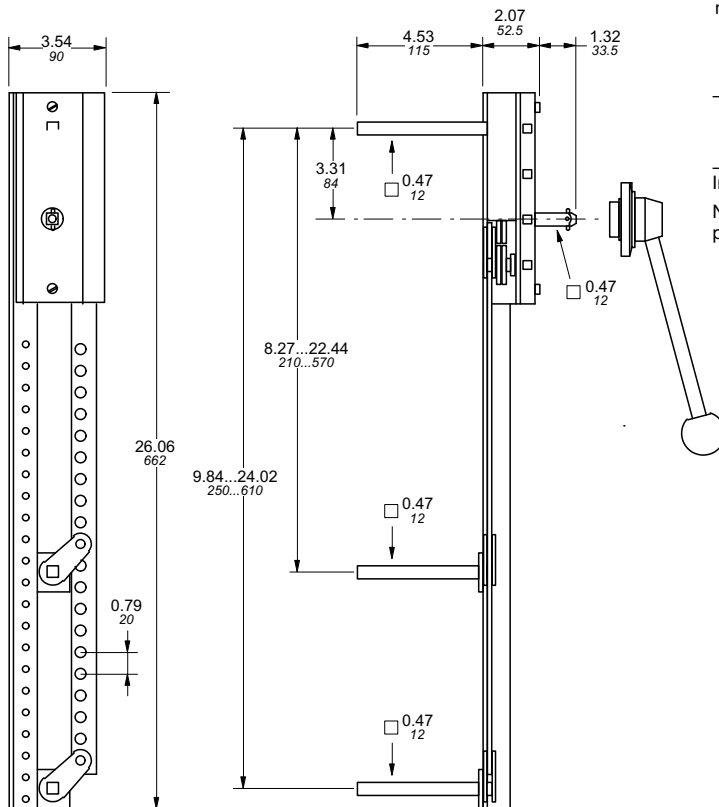
6 or 8 pole – OETL-ZW9



For installation of 6 or 8 pole and transfer mechanisms, the following minimum and maximum mounting dimensions are given below.

OETL-ZW9 in combination with:	Minimum inches/mm	Maximum ① inches/mm
OS400	9.84/250	N/A
OS600	11.02/280	N/A
OES800	11.02/280	N/A

Bypass switch – OETL-ZW13



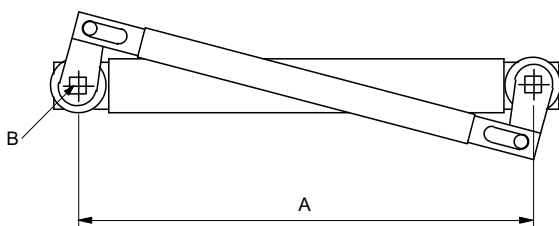
For installation of bypass and mechanical interlock mechanisms, the following minimum and maximum mounting dimensions are given below.

OETL-ZW13 in combination with:	Minimum inches/mm	Maximum ① inches/mm
OS400	11.61/295	N/A
OS600	12.80/325	N/A
OES800	12.80/325	N/A

Includes YASDA-21 handle.

NOTE: Deeper enclosures require a longer shaft. Select a 12mm shaft from page 18.88 and an OETLZX95 shaft extension coupler from page 18.90.

Mechanical interlock – OETL-ZW3, OETL-ZW14 & OETL-ZW15



OETL-ZW3, 14, 15 in combination with:	Minimum inches/mm	Maximum ① inches/mm
OS400	9.45/240	N/A
OS600	10.43/265	N/A
OES800	10.43/265	N/A

Handle(s) not included.

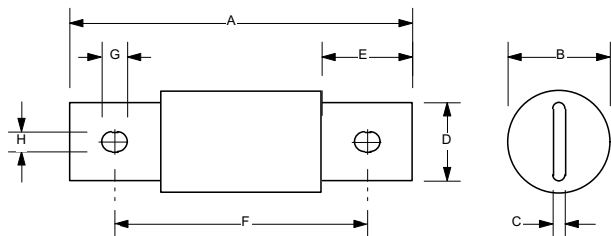
Dimensions in Inches
& mm

	A	B
OETL-ZW3	11.81 300.0	0.47 12.0
OETL-ZW14	9.84 250.0	0.47 12.0
OETL-ZW15	19.69 500.0	0.47 12.0

Approximate dimensions for Fuses

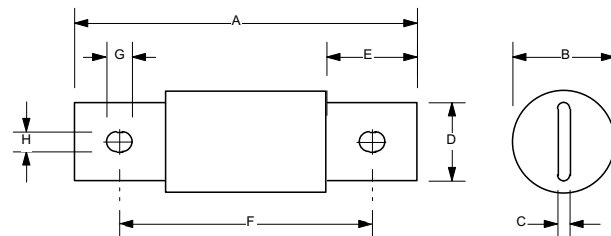
00.00 00.00 Inches
[Millimeters]

Class J (600V)



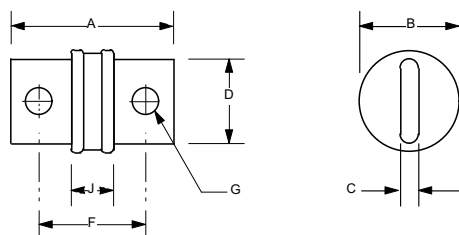
Ampere rating	A	B	C	D	E	F	G	H
1 - 30	2.25	.81	—	—	—	—	—	—
31 - 60	2.38	1.06	—	—	—	—	—	—
61 - 100	4.62	1.12	.12	.75	1	3.62	.38	.28
101 - 200	5.75	1.62	.19	1.12	1.38	4.38	.38	.28
201 - 400	7.12	2.12	.25	1.62	1.88	5.25	.53	.41
401 - 600	8.00	2.5	.38	2.00	2.12	6.00	.69	.53

Class L (600V)



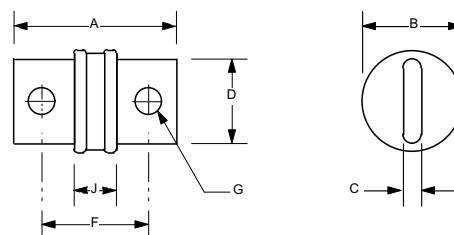
Ampere rating	A	B	C	D	E	F	G	H
200 - 600	8.62	2.00	.31	1.62	2.41	6.25	1.12	.62
601 - 800	8.62	2.50	.38	2.00	2.41	6.25	1.12	.62

Class T (300V)



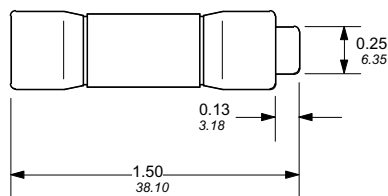
Ampere rating	A	B	C	D	F	G	J
1 - 30	.88	.41	—	—	—	—	—
31 - 60	.88	.56	—	—	—	—	—
61 - 100	2.16	.81	.12	.75	1	3.62	.38
101 - 200	2.45	1.06	.19	1.12	1.38	4.38	.38
201 - 400	2.75	1.33	.25	1.62	1.88	5.25	.53
401 - 600	3.06	1.62	.31	2.00	2.12	6.00	.69
601 - 800	3.38	2.08	.38	1.75	2.22	.55	.88

Class T (600V)



Ampere rating	A	B	C	D	F	G	J
1 - 30	1.50	.56	—	—	—	—	—
35 - 60	1.56	.81	—	—	—	—	—
70 - 100	2.95	—	.12	.75	2.36	.28	1.64
110 - 200	3.25	—	.19	.88	2.50	.34	1.66
225 - 400	3.62	—	.25	1.00	2.69	.41	1.64
450 - 600	3.98	—	.31	1.25	2.95	.48	1.78
601 - 800	4.37	—	.38	1.75	3.17	.55	1.88

Class CC (600V) — Rejection type

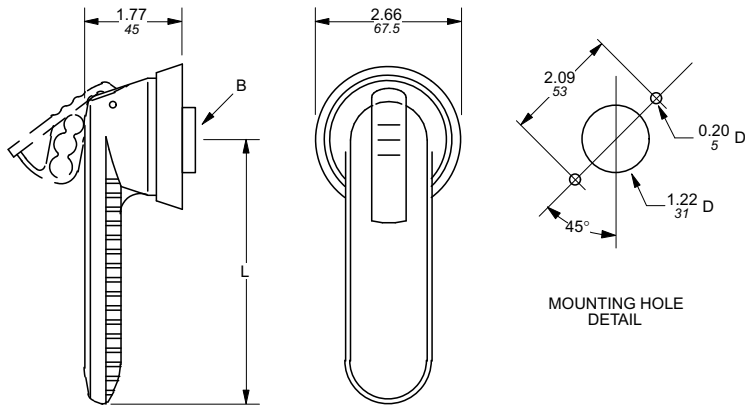


Approximate dimensions Handles

Disconnect
switches
Fusible

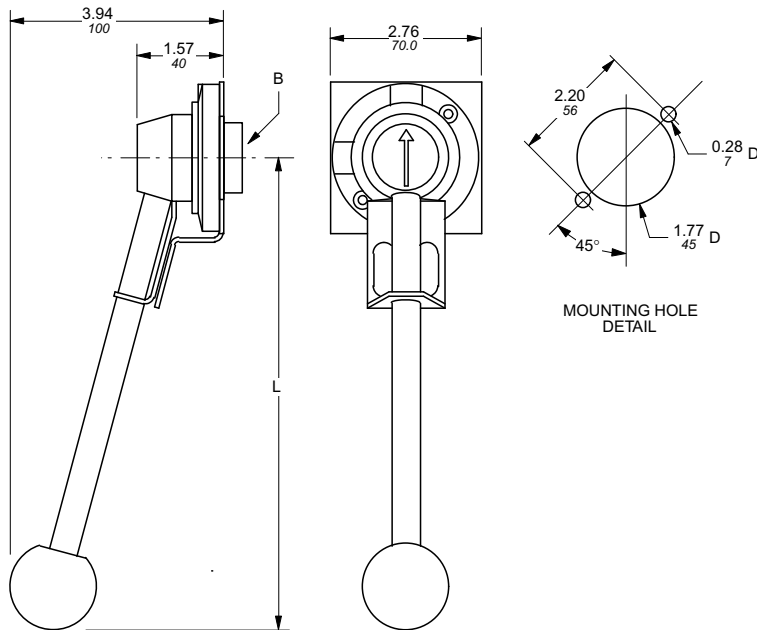
00.00 → Inches
00.00 [Millimeters]

Pistol handles



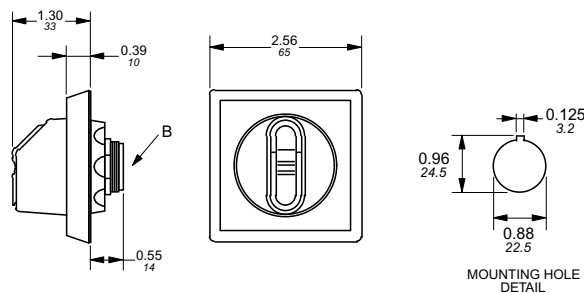
L Catalog number	Inches/ mm	□ B Shaft size Inches/ mm	UL / NEMA Type
OH_45J5	1.8/45	0.20/5	1, 3R, 12
OH_65J5	2.6/65	0.20/5	1, 3R, 12
OH_45J6	1.8/45	0.24/6	1, 3R, 12
OH_65J6	2.6/65	0.24/6	1, 3R, 12
OH_80J6	3.1/80	0.24/6	1, 3R, 12
OH_65J8	2.6/65	0.31/8	1, 3R, 12
OH_80J8	3.1/80	0.31/8	1, 3R, 12
OH_125J12	4.9/125	0.47/12	1, 3R, 12
OH_145J12	5.7/145	0.47/12	1, 3R, 12
OH_175J12	6.9/175	0.47/12	1, 3R, 12
OH_65L5	2.6/65	0.20/5	1, 3R, 4, 4X, 12
OH_80L6	3.1/80	0.24/6	1, 3R, 4, 4X, 12
OH_80L8	3.1/80	0.31/8	1, 3R, 4, 4X, 12
OH_145L12	5.7/145	0.47/12	1, 3R, 4, 4X, 12
OH_175L12	6.9/175	0.47/12	1, 3R, 4, 4X, 12

— = Handle color, B (Black) or Y (Red/Yellow)



Catalog number	L Inches/ mm	□ B Shaft size Inches/ mm	UL / NEMA Type
YASDA-7	8.66/220	0.47/12	1, 3R, 4, 4X, 12
YASDA-8	8.66/220	0.47/12	1, 3R, 4, 4X, 12
YASDA-21	8.66/220	0.47/12	1, 3R, 4, 4X, 12
YASDA-6	12.60/320	0.47/12	1, 3R, 4, 4X, 12

OH_2A_

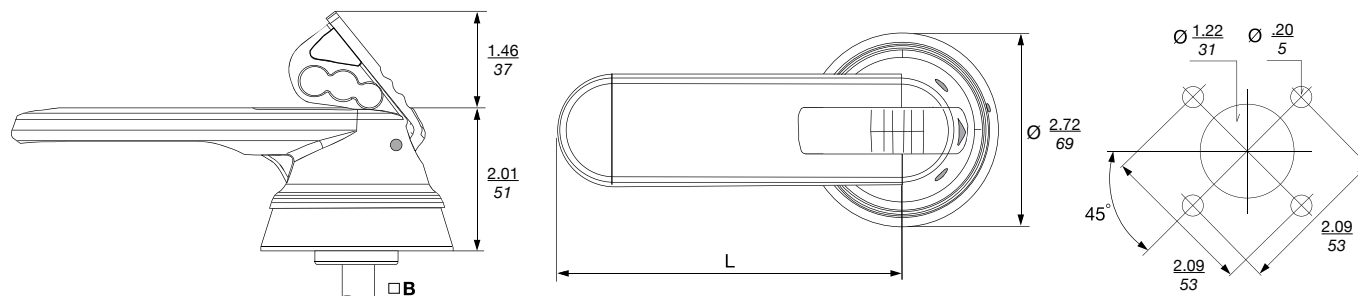


Catalog number UL Type 1, 3R, 12	Defeatable	□ B Shaft size Inches/ mm
OHB2AJ1	No	0.20/5
OHY2AJ1	No	0.20/5
OHB2AJ	Yes	0.20/5
OHY2AJ	Yes	0.20/5

Approximate dimensions Handles

00.00 00.00 Inches
[Millimeters]

Pistol handles stainless steel OHM



Handle type	OHM45L5	OHM65L5	OHM65L6	OHM125L12	OHM175L12	OHM275L12
L	1.8/45	2.6/65	2.6/65	4.9/125	6.9/175	10.8/275
□B	.2/5	.2/5	.2/6	.5/12	.5/12	.5/12

SafeLine Enclosed Disconnect switches



SafeLine

Compact, heavy duty

Enclosed disconnect switches

16A – 3150A Non-fusible

30A – 3000A Fusible



SafeLine enclosed disconnect switches are designed to meet customer requirements in terms of safety, ease of installation, space savings and operational convenience. They are available in a wide range of amperage ratings, are UL approved and NEMA rated to satisfy rugged industrial environments.

eOT Enclosed manual motor controllers

The eOT series of enclosed manual motor controllers are rotary operated, 3 pole, 600V Hp rated switches, housed in thermoplastic/polycarbonate enclosures suitable for wet and corrosive environments.



Ordering data

NEMA 3R/12

Handle Type	Handle Color	Amp Rating	Auxiliary Contacts	Catalog Number	List Price
Selector	Black	16	--	EOT16U3P3-S	\$ 250
Selector	Black	40	--	EOT32U3P3-S	300
Selector	Black	60	--	EOT45U3P3-S	325
Pistol	Black	80	--	EOT63U3P3-P	355
Selector	Black	16	1 NO	EOT16U3P3-1S	305
Selector	Black	40	1 NO	EOT32U3P3-1S	370
Selector	Black	60	1 NO	EOT45U3P3-1S	405
Pistol	Black	80	1 NO	EOT63U3P3-1P	435
Selector	Red/Yellow	16	--	EOT16U3P3-S1	250
Selector	Red/Yellow	40	--	EOT32U3P3-S1	300
Selector	Red/Yellow	60	--	EOT45U3P3-S1	325
Pistol	Red/Yellow	80	--	EOT63U3P3-P1	355
Selector	Red/Yellow	16	1 NO	EOT16U3P3-1S1	305
Selector	Red/Yellow	40	1 NO	EOT32U3P3-1S1	370
Selector	Red/Yellow	60	1 NO	EOT45U3P3-1S1	405
Pistol	Red/Yellow	80	1 NO	EOT63U3P3-1P1	435

NEMA 4/4X

Pistol	Black	16	--	EOT16U3P4-P	\$ 270
Pistol	Black	40	--	EOT32U3P4-P	325
Pistol	Black	60	--	EOT45U3P4-P	365
Pistol	Black	80	--	EOT63U3P4-P	385
Pistol	Black	16	1 NO	EOT16U3P4-1P	335
Pistol	Black	40	1 NO	EOT32U3P4-1P	400
Pistol	Black	60	1 NO	EOT45U3P4-1P	445
Pistol	Black	80	1 NO	EOT63U3P4-1P	475
Pistol	Red/Yellow	16	--	EOT16U3P4-P1	270
Pistol	Red/Yellow	40	--	EOT32U3P4-P1	325
Pistol	Red/Yellow	60	--	EOT45U3P4-P1	365
Pistol	Red/Yellow	80	--	EOT63U3P4-P1	385
Pistol	Red/Yellow	16	1 NO	EOT16U3P4-1P1	335
Pistol	Red/Yellow	40	1 NO	EOT32U3P4-1P1	400
Pistol	Red/Yellow	60	1 NO	EOT45U3P4-1P1	445
Pistol	Red/Yellow	80	1 NO	EOT63U3P4-1P1	475

Accessories for eOT16 – eOT63

Description	For use on	AC thermal amp rating	AC rated voltage	Catalog number
Auxiliary contacts ②				
NO, mounts on right side of the switch only	eOT16 - 63	10	600	OA1G10
NC, mounts on left side of the switch only		10	600	OA1G01
4th pole ③				
4th pole	eOT16 & eOT32	40	600	OTPS32EP
4th pole, late-break / early-make function		40	600	OTPL32EP
4th pole	eOT45 & eOT63	80	600	OTPS63EP
4th pole, late-break / early-make function		80	600	OTPL63EP

① Due to torque requirements, the eOT63 is equipped with a pistol handle for both 3X/12 & 4/4X versions.

② Maximum number of auxiliary contacts: 2NO + 1NC.

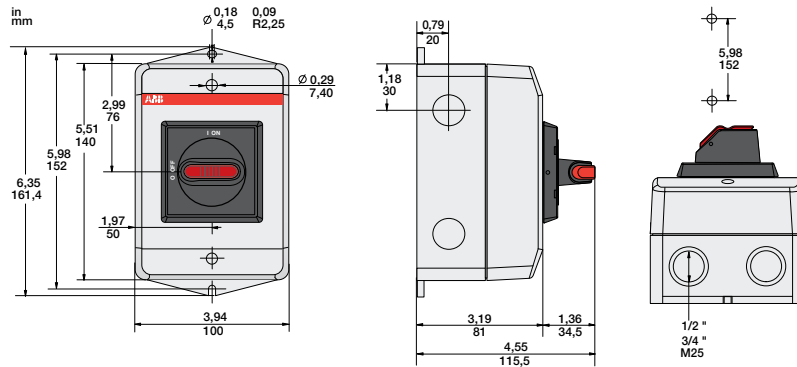
③ Only one additional pole per switch.

eOT Enclosed manual motor controllers

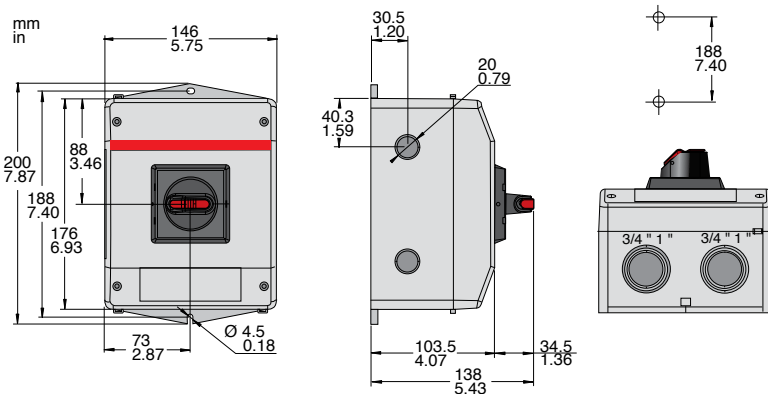
Approximate dimensions
eOT16_ - eOT45U

Disconnect
switches
Non-fusible
Enclosed

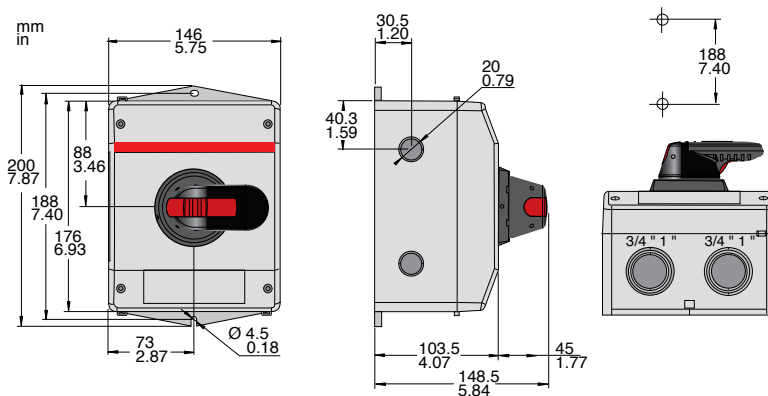
eOT16_, eOT32_ (enclosure size 1)



eOT45U_ (enclosure size 2 with selector switch)



eOT45U_ (enclosure size 2 with pistol grip handle)



Disconnect
switches
Non-fusible
Enclosed

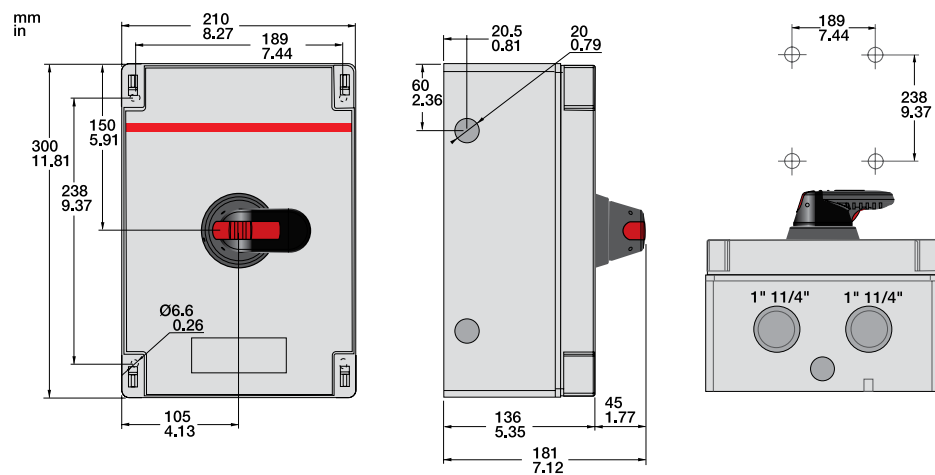
eOT Enclosed manual motor controllers

Approximate dimensions
eOT63_

eOT series enclosed manual motor controllers

Approximate dimensions

eOT63_ (enclosure size 3)



General information

Non-fusible and fusible

Disconnect
switches
Non-fusible
Enclosed

Non-Fusible

UL Listed to UL 508 and UL 98.

CSA approved

IEC rated

CE marked

Snap on accessories include additional poles, auxiliary contacts, etc.

Enclosures available in plastic, metal, or stainless steel in NEMA 1, 3R, 12, 4X, 7 & 9 environmental categories



Modern appearance

Quick make, quick brake mechanism

Heavy duty disconnect, 600VAC

Extremely compact size

Finger-proof construction. No hazardous exposed parts

3/4/6/8 pole constructions; transfer switches and by-pass switches available

Fusible

UL Listed to UL 98 standards.

CSA approved

IEC rated

CE marked

Snap on accessories include fuse monitors, auxiliary contacts, etc.

Enclosures available in plastic, metal, or stainless steel in NEMA 1, 3R, 12, 4X, 7 & 9 environmental categories

Fuse carriers available for US standards, BS, DIN, NFC standard and for various high speed fuse patterns



Modern appearance

Quick make, quick brake mechanism

Heavy duty disconnect, 600VAC, 200kA, I_{sc}

Extreme compact size as fuse carriers are decked above contacts

Double contacts enabling feed from any direction and preventing back feed

Finger-proof construction. No hazardous exposed parts

3/4/6/8 pole constructions; transfer switches and by-pass switches available

Lockable

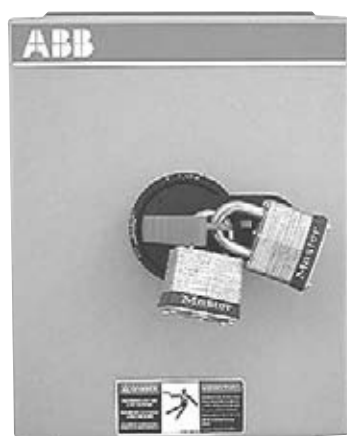
Clear position indications:

I-ON

O-OFF

Door interlocked when handle padlocked to OFF position

Handle padlockable with up to three padlocks



Door interlocked when handle is in ON position. Door interlock can be defeated by authorized personnel.

Pilot devices can be added

General information

NEMA Environmental ratings

Introduction

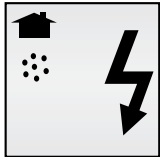
An enclosure is a surrounding case constructed to provide a degree of protection to personnel against accidental contact with the enclosed equipment and to provide a degree of protection to the enclosed equipment against specified environmental conditions.

A brief description of the more common types of enclosures used by the electrical industry relating to their environmental capabilities follows.

Refer to NEMA Standards Publication for more information regarding applications, features and design tests.

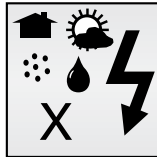
Individual NEMA product Standards Publications or third party certification standards may contain additional requirements for product testing and performance.

Definitions pertaining to nonhazardous locations



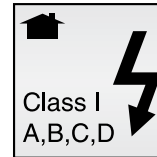
Type 1

Enclosures are intended for indoor use primarily to provide a degree of protection against limited amounts of falling dirt. (NEMA Standard 7-15-1991.)



Type 4X

Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against corrosion, windblown dust and rain, splashing water, hose-directed water and damage from external ice formation. (NEMA Standard 1-10-1979)



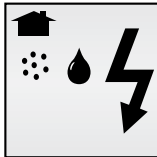
Type 7

Enclosures are intended for indoor use in locations classified as Class I, Groups A, B, C, or D, as defined in the National Electrical Code. (NEMA Standard 7-15-1991.)



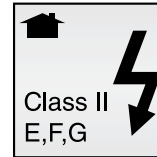
Type 3R

Enclosures are intended for outdoor use primarily to provide a degree of protection against rain, sleet and damage from external ice formation. (NEMA Standard 7-15-1991.)



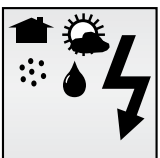
Type 12

Enclosures are intended for indoor use primarily to provide a degree of protection against circulating dust, falling dirt, and dripping noncorrosive liquids. (NEMA Standard 7-15-1991.)



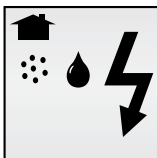
Type 9

Enclosures are intended for indoor use in locations classified as Class II, Groups E, F, or G, as defined in the National Electrical Code. (NEMA Standard 7-15-1991.)



Type 4

Enclosures are intended for indoor or outdoor use primarily to provide a degree of protection against windblown dust and rain, splashing water, hose-directed water and damage from external ice formation. (NEMA Standard 1-10-1979.)



Type 13

Enclosures are intended for indoor use primarily to provide a degree of protection against dust, spraying of water, oil and noncorrosive coolant. (NEMA Standard 1-10-1979.)

Legend

- Indoors
- Outdoors
- Water
- Dirt/dust
- Corrosion









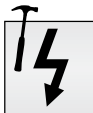
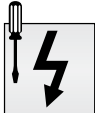
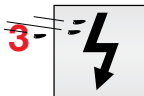



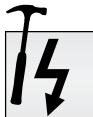






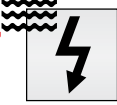
General information

IP Environmental ratings

Disconnect
switches
Non-fusible
Enclosed

IP ratings

indicate the degree of protection against dust, liquids and impacts. The IP degrees of protection are defined by the French standard NFC 20-010. To rate a device's degrees of protection, the letters IP are followed by up to three numbers. These numbers are defined as follows:

first number protection against solid objects	second number protection against liquids	third number protection against mechanical impacts
IP 0  no protection	IP 0  no protection	IP 0  no protection
1  protected against solid objects over 50mm (e.g. accidental touch by hands.)	1  protected against vertically falling rain or condensation	1  impact 0.225 joule 150g falling from 15cm
2  protected against solid objects over 12mm (e.g. fingers)	2  protected against direct sprays of water up to 15° from vertical	2  impact 0.375 joule 250g falling from 15cm
3  protected against solid objects over 2.5mm (tools & wires)	3  protected against sprays to 60° from vertical	3  impact 0.50 joule 250g falling from 20cm
4  protected against solid objects over 1mm (small tools & small wires)	4  protected against water sprayed from all directions	5  impact 2.00 joule 500g falling from 40cm
5  protected against dust (no harmful deposit)	5  protected against low pressure jets of water from all directions	7  impact 6.00 joule 1.5kg falling from 40cm
6  totally protected against dust	6  protected from strong jets of water (e.g. for use on ship decks)	9  impact 20.00 joule 5 kg falling from 40cm
	7  protected against the effects of immersion between 15cm and 1m	

Disconnect
switches
Non-fusible
Enclosed

3 pole 16A – 3150A



NF32X-3PB6C



NF63X-3PB6A

3 Pole, 600V, 16A – 80A Selector handle

		NEMA Enclosure type							
		1		3R		4		4X Stainless	
UL general purpose amp rating		Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
UL 508	16	NF161-3PBJC	\$ 185	NF163-3PBJC	\$ 259	Not available with selector handle		Not available with selector handle	
	25	NF251-3PBJC	190	NF253-3PBJC	264				
	40	NF321-3PBJC	205	NF323-3PBJC	279				
	60	NF451-3PBJB	245	NF453-3PBJB	320				
	80	NF631-3PBJA	280	NF633-3PBJA	354				

3 Pole, 600V, 16A – 3150A Pistol handle

		NEMA Enclosure type							
		1		3R		4		4X Stainless	
UL general purpose amp rating		Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
UL 508	16	NF161-3PB6C	\$ 235	NF163-3PB6C	\$ 309	NF164-3PB6A	\$ 475	NF16X-3PB6C ②	\$ 585
	25	NF251-3PB6C	240	NF253-3PB6C	314	NF254-3PB6A	480	NF25X-3PB6C ②	590
	40	NF321-3PB6C	255	NF323-3PB6C	329	NF324-3PB6A	495	NF32X-3PB6C ②	605
	60	NF451-3PB6B	295	NF453-3PB6B	370	NF454-3PB6B	525	NF45X-3PB6B	635
	80	NF631-3PB6A	330	NF633-3PB6A	404	NF634-3PB6A	550	NF63X-3PB6A	660
UL 98	30	NF301-3PB6C	510	NF303-3PB6C	780	NF304-3PB6C	1090	NF30X-3PB6C	1200
	60	NF601-3PB6C	560	NF603-3PB6C	830	NF604-3PB6C	1140	NF60X-3PB6C	1250
	100	NF1001-3PB6B	610	NF1003-3PB6B	880	NF1004-3PB6B	1190	NF100X-3PB6B	1300
	125	NF1251-3PB6A	1100	NF1253-3PB6A	1400	NF1254-3PB8A	2800	NF125X-3PB8A	3500
	200	NF2001-3PB8B	1300	NF2003-3PB8B	1650	NF2004-3PB8B	3520	NF200X-3PB8B	4400
	400	NF4001-3PB4B	2600	NF4003-3PB4B	2800	NF4004-3PB4B	6400	NF400X-3PB4B	8000
	600	NF6001-3PB7B	4800	NF6003-3PB7B	5000	NF6004-3PB7B	9600	NF600X-3PB7B	12,000
	800	NF8001-3PB4A	8000	NF8003-3PB4A	9400	NF8004-3PB4A	15,200	NF800X-3PB4A	19,000
	1200	NF12001-3PB4A	10,000	NF12003-3PB4A	11,800	NF12004-3PB4A	18,000	NF1200X-3PB4A	22,500
	1600	NF16001-3P8A	19,000	NF16003-3P8A	20,800	NF16004-3P8A	30,400	NF1600X-3P8A	38,000
	2000	NF20001-3P8A	23,000	NF20003-3P8A	25,000	NF20004-3P8A	35,200	NF2000X-3P8A	44,000
	3150 ①	NF31501-3P8A	28,000	NF31503-3P8A	30,000	NF31504-3P8A	39,200	NF3150X-3P8A	49,000

NOTE: All enclosed switches are provided with a black handle; however, most handles can be substituted with a red and yellow handle if desired. Please substitute the handle suffix code (2nd and 3rd from last characters) with the red/yellow handle catalog number suffix from page 18.130. There is no additional price adder for changing to a red/yellow handle of equal ratings and style.

EXAMPLE: A red/yellow selector handle for an NF161-3PBJA can be substituted for the black selector handle by using the "YJ" suffix instead of the "BJ" suffix, new catalog #NF161-3PYJA.

① IEC rated only.
② New Washdown.

3 pole 16A – 3150A

Disconnect
switches
Non-fusible
Enclosed



NF25P-3PY6A

3 Pole, 600V, 16A – 80A Selector handle

UL general purpose amp rating		NEMA Enclosure type					
		12 Plastic		12		7 & 9	
		Catalog number	List price	Catalog number	List price	Catalog number	List price
UL 508	16	NF16P-3PBJA	\$ 295	NF162-3PBJC	\$ 259	—	—
	16, oversize	—	—	—	—	—	—
	25	NF25P-3PBJA	300	NF252-3PBJC	264	—	—
	25, oversize	—	—	—	—	—	—
	40	NF32P-3PBJA	315	NF322-3PBJC	279	—	—
	40, oversize	—	—	—	—	—	—
	60	NF45P-3PBJB	350	NF452-3PBJB	320	—	—
	80	NF63P-3PBJA	380	NF632-3PBJA	354	—	—

3 Pole, 600V, 16A – 3150A Pistol handle

UL general purpose amp rating		NEMA Enclosure type					
		4X Plastic		12		7 & 9	
		Catalog number	List price	Catalog number	List price	Catalog number	List price
UL 508	16	NF16P-3PB6A	\$ 345	NF162-3PB6C	\$ 309	NF167-3P	\$ 1900
	25	NF25P-3PB6A	350	NF252-3PB6C	314	NF257-3P	1925
	40	NF32P-3PB6A	365	NF322-3PB6C	329	NF327-3P	1950
	60	NF45P-3PB6B	400	NF452-3PB6B	370	NF457-3P	3600
	80	NF63P-3PB6A	430	NF632-3PB6A	400	NF637-3P	3630
UL 98	30	NF30P-3PB6B	875	NF302-3PB6B	780	NF307-3P	4150
	60	NF60P-3PB6B	925	NF602-3PB6B	830	NF607-3P	4200
	100	NF100P-3PB6B	975	NF1002-3PB6B	880	NF1007-3P	4250
	125	NF125P-3PB8A	3000	NF1252-3PB8A	1400	—	—
	200	NF200P-3PB8B	4000	NF2002-3PB8B	1600	—	—
	400	NF400P-3PB4B	6000	NF4002-3PB4B	2900	—	—
	600	NF600P-3PB7B	10,000	NF6002-3PB7B	5100	—	—
	800	NF800P-3PB4A	16,000	NF8002-3PB4A	8400	—	—
	1200	NF1200P-3PB4A	19,000	NF12002-3PB4A	10,400	—	—
	1600	NF1600P-3P8A	31,000	NF16002-3P8A	19,400	—	—
	2000	NF2000P-3P8A	37,000	NF20002-3P8A	23,400	—	—
	3150 ②	NF3150P-3P8A	42,000	NF31502-3P8A	28,400	—	—

① Please consult factory for pricing and availability
② IEC rated only.

Disconnect
switches
Non-fusible
Enclosed

Switch & handle ratings 16A – 3150A

Switch ratings, 16 – 3150 Amps, 600V

UL General purpose amp rating	Maximum horsepower rating							Wire size for terminal lugs	For wire type	Approval	
	Single phase			Three phase							
	120V	200V	240V	200V – 208V	240V	480V	600V				
UL 508	16	1	2	2	3	5	10	10	#18 – 8	Cu	CSA, UL
	25	1.5	3	3	7.5	7.5	15	20	#18 – 8	Cu	CSA, UL
	40	2	5	5	10	10	20	25	#18 – 8	Cu	CSA, UL
	60	2	5	5	15	15	30	30	#14 – 1	Cu	CSA, UL
	80	2	5	5	20	20	40	40	#14 – 1	Cu	CSA, UL
UL 98	30	2	5	5	10	10	20	30	#14 – 4	Cu	CSA, UL
	60	3	7.5	7.5	20	20	40	40	#14 – 4	Cu	CSA, UL
	100	5	15	15	25	30	50	50	#8 – 1/0	Cu	CSA, UL
	125	7.5	20	20	30	30	75	100	#8 – 1/0	Cu	CSA, UL
	200	—	—	—	60	75	150	200	#6 – 300 kcmil	Cu	CSA, UL
	400	—	—	—	100	125	250	350	#2 – 600 kcmil	Cu	CSA, UL
	600	—	—	—	150	200	400	500	(2) #2 – 600 kcmil	Cu	CSA, UL
	800	—	—	—	200	250	500	600	(2) #2 – 600 kcmil	Cu/Al	CSA, UL
	1200	—	—	—	—	—	—	—	(4) #2 – 600 kcmil	Cu/Al	CSA, UL
	1600	—	—	—	—	—	—	—	(4) #2 – 600 kcmil	Cu/Al	CSA, UL
	2000	—	—	—	—	—	—	—	(8) #2 – 600 kcmil	Cu/Al	CSA, UL
	3150 ①	—	—	—	—	—	—	—	(8) #2 – 600 kcmil	Cu/Al	IEC

Handle ratings, 16 – 3150 Amps, 600V


Amperage range	Style type	NEMA	Color	Marking	Defeatable	Padlockable	Catalog number suffix	Catalog number
16 – 100	Selector Selector Pistol Pistol Pistol	1,3R,12 1,3R,12 1,3R,12 1,3R,12 1,3R,4,4X,12 1,3R,4,4X,12	Black Red/Yel Black Red/Yel Black Red/Yel	O/I & OFF/ON	Yes	Yes	BJ YJ B6 Y6 B6 Y6	OHB2AJ OHY2AJ OHB65J5 OHY65J5 OHB65L5 OHY65L5
125 – 200	Pistol	1,3R,12 1,3R,12 1,3R,4,4X,12 1,3R,4,4X,12	Black Red/Yel Black Red/Yel	O/I & OFF/ON	Yes	Yes	B6 Y6 B8 Y8	OHB65J6 OHY65J6 OHB80L6 OHY80L6
400 – 3150	Pistol	1,3R,12 1,3R,12 1,3R,12 1,3R,12 1,3R,4,4X,12 1,3R,4,4X,12 1,3R,4,4X,12 1,3R,4,4X,12 1,3R,4,4X,12	Black Red/Yel Black Red/Yel Black Red/Yel Black Red/Yel Metal	O/I & OFF/ON	Yes Yes Yes Yes Yes Yes Yes Yes No	Yes	B4 Y4 B7 Y7 B4 Y4 B7 Y7 8	OHB145J12 OHY145J12 OHB175J12 OHY175J12 OHB145L12 OHY145L12 OHB175L12 OHY175L12 YASDA-8
16 – 200	Pistol	1,3R,12 1,3R,4,4X,12	Black	I/O/II	Yes	Yes	B8	OHB80J6E011 OHB80L6E011
400	Pistol	1,3R,12 1,3R,4,4X,12	Black	I/O/II	Yes	Yes	B4	OHB145J12E011 OHB145L12E011
400 – 3150	Pistol Pistol Metallic Metallic	1,3R,12 1,3R,4,4X,12 1,3R,4,4X,12 1,3R,4,4X,12	Black Black Metal Metal	I/O/II	Yes Yes No No	Yes	B7 B7 21 6	OHB175J12E011 OHB175L12E011 YASDA-21 YASDA-6

① IEC rated only.


2 pole 125A – 3150A

Disconnect
switches
Non-fusible
Enclosed

2 Pole, 600V, 125A – 3150A

UL general purpose amp rating		NEMA Enclosure type							
		1		3R		4		4X Stainless	
		Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
UL98		125	NF1251-2PB6A \$ 825	NF1253-2PB6A \$ 1050	NF1254-2PB8A \$ 2100	NF125X-2PB8A \$ 2625	NF125X-2PB8A \$ 2625	NF125X-2PB8A \$ 2625	NF125X-2PB8A \$ 2625
		200	NF2001-2PB8C 1170	NF2003-2PB8C 1485	NF2004-2PB8C 3170	NF200X-2PB8C 3960	NF200X-2PB8C 3960	NF200X-2PB8C 3960	NF200X-2PB8C 3960
		400	NF4001-2PB4C 2340	NF4003-2PB4C 2520	NF4004-2PB4C 5750	NF400X-2PB4C 7200	NF400X-2PB4C 7200	NF400X-2PB4C 7200	NF400X-2PB4C 7200
		600	NF6001-2PB7B 4320	NF6003-2PB7B 4500	NF6004-2PB7B 8640	NF600X-2PB7B 10,800	NF600X-2PB7B 10,800	NF600X-2PB7B 10,800	NF600X-2PB7B 10,800
		800	NF8001-2PB4A 7200	NF8003-2PB4A 8460	NF8004-2PB4A 13,680	NF800X-2PB4A 17,100	NF800X-2PB4A 17,100	NF800X-2PB4A 17,100	NF800X-2PB4A 17,100
		1200	NF12001-2PB4A 9000	NF12003-2PB4A 10,620	NF12004-2PB4A 16,200	NF1200X-2PB4A 20,250	NF1200X-2PB4A 20,250	NF1200X-2PB4A 20,250	NF1200X-2PB4A 20,250
		1600	NF16001-2P8A 17,100	NF16003-2P8A 18,720	NF16004-2P8A 27,360	NF1600X-2P8A 34,200	NF1600X-2P8A 34,200	NF1600X-2P8A 34,200	NF1600X-2P8A 34,200
		2000	NF20001-2P8A 20,700	NF20003-2P8A 22,500	NF20004-2P8A 31,680	NF2000X-2P8A 39,600	NF2000X-2P8A 39,600	NF2000X-2P8A 39,600	NF2000X-2P8A 39,600
		3150	NF31501-2P8A 25,200	NF31503-2P8A 27,000	NF31504-2P8A 35,280	N3150X-2P8A 44,100	N3150X-2P8A 44,100	N3150X-2P8A 44,100	N3150X-2P8A 44,100

2 Pole, 600V, 125A – 3150A

UL general purpose amp rating		NEMA Enclosure type			
		4X Plastic		12	
		Catalog number	List price	Catalog number	List price
UL98		125	NF125P-2PB8A \$ 2250	NF1252-2PB6A \$ 1050	NF1252-2PB6A \$ 1050
		200	NF200P-2PB8C 3600	NF2002-2PB8C 1440	NF2002-2PB8C 1440
		400	NF400P-2PB4C 5400	NF4002-2PB4C 2610	NF4002-2PB4C 2610
		600	NF600P-2PB7B 9000	NF6002-2PB7B 4590	NF6002-2PB7B 4590
		800	NF800P-2PB4A 14,400	NF8002-2PB4A 7560	NF8002-2PB4A 7560
		1200	NF1200P-2PB4A 17,100	NF12002-2PB4A 9360	NF12002-2PB4A 9360
		1600	NF1600P-2P8A 28,000	NF16002-2P8A 17,460	NF16002-2P8A 17,460
		2000	NF2000P-2P8A 33,300	NF20002-2P8A 21,060	NF20002-2P8A 21,060
		3150 ①	NF3150P-2P8A 37,800	NF31502-2P8A 25,560	NF31502-2P8A 25,560

16A – 100A switches are not available in 2 pole versions, use 3 pole.

① IEC rated only.

Disconnect
switches
Non-fusible
Enclosed

4 pole 16A – 3150A

4 Pole, 600V, 16A – 3150A

		NEMA Enclosure type							
		1		3R		4		4X Stainless	
UL general purpose amp rating		Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
UL508	16	NF161-4PB6C	\$ 295	NF163-4PB6C	\$ 369	NF164-4PB6A	\$ 530	NF16X-4PB6C	\$ 665
	25	NF251-4PB6C	300	NF253-4PB6C	374	NF254-4PB6A	535	NF25X-4PB6C	670
	40	NF321-4PB6C	310	NF323-4PB6C	384	NF324-4PB6A	545	NF32X-4PB6C	680
	60	NF451-4PB6B	360	NF453-4PB6B	434	NF454-4PB6B	570	NF45X-4PB6B	700
	80	NF631-4PB6A	410	NF633-4PB6A	484	NF634-4PB6A	595	NF63X-4PB6A	740
UL98	30	NF301-4PB6B	650	NF303-4PB6B	988	NF304-4PB6B	1200	NF30X-4PB6B	1525
	60	NF601-4PB6B	700	NF603-4PB6B	1038	NF604-4PB6B	1250	NF60X-4PB6B	1575
	100	NF1001-4PB6B	750	NF1003-4PB6B	1088	NF1004-4PB6B	1300	NF100X-4PB6B	1625
	125	NF1251-4PB6A	1375	NF1253-4PB6A	1675	NF1254-4PB6A	3500	NF125X-4PB8A	4375
	200	NF2001-4PB8B	1625	NF2003-4PB8B	2063	NF2004-4PB8B	4400	NF200X-4PB8B	5500
	400	NF4001-4PB4B	3250	NF4003-4PB4B	3500	NF4004-4PB4B	8000	NF400X-4PB4B	10,000
	600	NF6001-4PB7B	6000	NF6003-4PB7B	6250	NF6004-4PB7B	12,000	NF600X-4PB7B	15,000
	800	NF8001-4PB4A	10,000	NF8003-4PB4A	11,750	NF8004-4PB4A	19,000	NF800X-4PB4A	23,750
	1200	NF12001-4PB4A	12,500	NF12003-4PB4A	14,750	NF12004-4PB4A	22,500	NF1200X-4PB4A	28,125
	1600	NF16001-4P8A	23,750	NF16003-4P8A	26,000	NF16004-4P8A	38,800	NF1600X-4P8A	47,500
	2000	NF20001-4P8A	28,750	NF20003-4P8A	31,250	NF20004-4P8A	44,000	NF2000X-4P8A	55,000
	3150 ①	NF31501-4P8A	35,000	NF31503-4P8A	37,500	NF31504-4P8A	49,000	NF3150X-4P8A	61,250

4 Pole, 600V, 16A – 3150A



		NEMA Enclosure type					
		4X Plastic		12		7 & 9	
UL general purpose amp rating		Catalog number	List price	Catalog number	List price	Catalog number	List price
UL508	16	NF16P-4PB6A	\$ 405	NF162-4PB6C	\$ 369	NF167-4P	\$ 2025
	25	NF25P-4PB6A	410	NF252-4PB6C	374	NF257-4P	2050
	40	NF32P-4PB6A	420	NF322-4PB6C	384	NF327-4P	2075
	60	NF45P-4PB6B	465	NF452-4PB6B	434	NF457-4P	3700
	80	NF63P-4PB6A	510	NF632-4PB6A	484	NF637-4P	3730
UL 98	30	NF30P-4PB6B	1100	NF302-4PB6B	925	NF307-4P	4300
	60	NF60P-4PB6B	1150	NF602-4PB6B	975	NF607-4P	4350
	100	NF100P-4PB6B	1200	NF1002-4PB6B	1025	NF1007-4P	4400
	125	NF125P-4PB8A	3750	NF1252-4PB6A	1750	—	—
	200	NF200P-4PB8B	5000	NF2002-4PB8B	2000	—	—
	400	NF400P-4PB4B	7500	NF4002-4PB4B	3625	—	—
	600	NF600P-4PB7B	12,500	NF6002-4PB7B	6375	—	—
	800	NF800P-4PB4A	20,000	NF8002-4PB4A	10,500	—	—
	1200	NF1200P-4PB4A	23,750	NF12002-4PB4A	13,000	—	—
	1600	NF1600P-4P8A	38,500	NF16002-4P8A	24,250	—	—
	2000	NF2000P-4P8A	46,250	NF20002-4P8A	29,240	—	—
	3150 ①	NF3150P-4P8A	52,500	NF31502-4P8A	35,500	—	—

① IEC rated only.



6 pole 16A – 1200A

Disconnect
switches
Non-fusible
Enclosed

6 Pole, 600V, 16A – 1200A

UL general purpose amp rating		NEMA Enclosure type								
		1		3R		4		4X Stainless		
		Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price	
UL508		16	NF161-6PB6C	\$ 580	NF163-6PB6C	\$ 728	NF164-6PB6A	\$ 1080	NF16X-6PB6C	\$ 1350
		25	NF251-6PB6C	590	NF253-6PB6C	738	NF254-6PB6A	1090	NF25X-6PB6C	1360
		40	NF321-6PB6C	610	NF323-6PB6C	758	NF324-6PB6A	1110	NF32X-6PB6C	1380
		60	NF451-6PB6B	690	NF453-6PB6B	838	NF454-6PB6B	1140	NF45X-6PB6B	1430
		80	NF631-6PB6A	770	NF633-6PB6A	918	NF634-6PB6A	1185	NF63X-6PB6A	1480
UL98		30	NF301-6PB6B	1230	NF303-6PB6B	1770	NF304-6PB6B	2110	NF30X-6PB6B	2660
		60	NF601-6PB6B	1280	NF603-6PB6B	1820	NF604-6PB6B	2160	NF60X-6PB6B	2710
		100	NF1001-6PB6B	1330	NF1003-6PB6B	1870	NF1004-6PB6B	2210	NF100X-6PB6B	2760
		125	NF1251-6PB2A	2200	NF1253-6PB2A	2800	NF1254-6PB4A	5600	NF125X-6PB4A	7000
		200	NF2001-6PB4B	2950	NF2003-6PB4B	3650	NF2004-6PB4B	7320	NF200X-6PB4B	9150
		400	NF4001-6P8B	5860	NF4003-6P8B	5960	NF4004-6P8B	13,090	NF400X-6P8B	16,360
		600	NF6001-6P8B	9960	NF6003-6P8B	10,360	NF6004-6P8B	19,490	NF600X-6P8B	24,360
		800	NF8001-6P8A	16,360	NF8003-6PB4A	19,800	NF8004-6P8A	30,690	NF800X-6P8A	38,360
		1200	NF12001-6P8A	20,360	NF12003-6PB4A	23,960	NF12004-6P8A	36,290	NF1200X-6P8A	45,360

6 Pole, 600V, 16A – 1200A

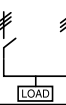
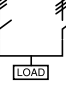
UL general purpose amp rating		NEMA Enclosure type								
		4X Plastic		12		7 & 9		IP65 Plastic		
		Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price	
UL508		16	NF16P-6PB6A	\$ 800	NF162-6PB6C	\$ 728	NF167-6P	\$ 3750	NF16E-6PBJB	\$ 410
		25	NF25P-6PB6A	810	NF252-6PB6C	738	NF257-6P	3775	NF25E-6PBJB	420
		40	NF32P-6PB6A	830	NF322-6PB6C	758	NF327-6P	3800	NF32E-6PBJB	450
		60	NF45P-6PB6B	930	NF452-6PB6B	838	NF457-6P	4275	NF45E-6PBJB	520
		80	NF63P-6PB6A	1030	NF632-6PB6A	918	NF637-6P	4325	NF63E-6PBJB	770
UL 98		30	NF30P-6PB6B	1900	NF302-6PB6B	1670	—	—	NF30E-6PB6B	1230
		60	NF60P-6PB6B	1950	NF602-6PB6B	1720	—	—	NF60E-6PB6B	1280
		100	NF100P-6PB6B	2000	NF1002-6PB6B	1770	—	—	NF100E-6PB6B	1330
		125	NF125P-6PB4A	6000	NF1252-6PB4A	2800	—	—	—	—
		200	NF200P-6PB4B	8350	NF2002-6PB4B	3550	—	—	—	—
		400	NF400P-6P8B	12,360	NF4002-6P8B	6160	—	—	—	—
		600	NF600P-6P8B	20,360	NF6002-6P8B	10,560	—	—	—	—
		800	NF800P-6P8A	32,360	NF8002-6P8A	17,800	—	—	—	—
		1200	NF1200P-6P8A	38,360	NF12002-6P8A	21,800	—	—	—	—

①  = Three poles

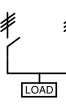
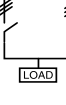
**Disconnect
switches**
Non-fusible
Enclosed

3 pole transfer switches 16A – 1200A

3 Pole, 600V, 16A – 1200A

		NEMA Enclosure type							
		1		3R		4		4X Stainless	
UL general purpose amp rating		Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
UL508 	16	NF161-3TB8C	\$ 760	NF163-3TB8C	\$ 908	NF164-3TB8C	\$ 1200	NF16X-3TB8C	\$ 1850
	25	NF251-3TB8C	770	NF253-3TB8C	918	NF254-3TB8C	1230	NF25X-3TB8C	1880
	40	NF321-3TB8C	790	NF323-3TB8C	954	NF324-3TB8C	1260	NF32X-3TB8C	1950
	60	NF451-3TB8B	870	NF453-3TB8B	1018	NF454-3TB8B	1340	NF45X-3TB8B	3500
	80	NF631-3TB8A	950	NF633-3TB8A	1098	NF634-3TB8A	1420	NF63X-3TB8A	3600
UL98 	30	NF301-3TB8B	1410	NF303-3TB8B	1830	NF304-3TB8B	2400	NF30X-3TB8B	3900
	60	NF601-3TB8B	1460	NF603-3TB8B	1880	NF604-3TB8B	2450	NF60X-3TB8B	3950
	100	NF1001-3TB8B	1510	NF1003-3TB8B	1930	NF1004-3TB8B	2500	NF100X-3TB8B	4000
	125	NF1251-3TB8A	2380	NF1253-3TB8A	2980	NF1254-3TB8A	3500	NF125X-3TB8A	5000
	200	NF2001-3TB4B	3150	NF2003-3TB4B	3850	NF2004-3TB4B	7480	NF200X-3TB4B	9350
	400	NF4001-3TB4B	5960	NF4003-3TB4B	6160	NF4004-3TB4B	13,250	NF400X-3TB4B	16,560
	600	NF6001-3TB4A	10,260	NF6003-3TB4A	10,660	NF6004-3TB4A	19,730	NF600X-3TB4A	24,660
	800	NF8001-3TB4A	16,660	NF8003-3TB4A	19,460	NF8004-3TB4A	30,920	NF800X-3TB4A	38,660
	1200	NF12001-3TB4A	20,660	NF12003-3TB4A	24,260	NF12004-3TB4A	36,530	NF1200X-3TB4A	45,660

3 Pole, 600V, 16A – 1200A

		NEMA Enclosure type			
		4X Plastic		12	
UL general purpose amp rating		Catalog number	List price	Catalog number	
UL508 	16	NF16P-3TB8A	\$ 1000	NF162-3TB8C	\$ 908
	25	NF25P-3TB8A	1040	NF252-3TB8C	918
	40	NF32P-3TB8A	1100	NF322-3TB8C	938
	60	NF45P-3TB8B	1180	NF452-3TB8B	1018
	80	NF63P-3TB8A	1260	NF632-3TB8A	1098
UL98 	30	NF30P-3TB8B	2000	NF302-3TB8B	1730
	60	NF60P-3TB8B	2050	NF602-3TB8B	1830
	100	NF100P-3TB8B	2100	NF1002-3TB8B	1930
	125	NF125P-3TB8A	3200	NF1252-3TB8A	2980
	200	NF200P-3TB4B	8550	NF2002-3TB4B	3750
	400	NF400P-3TB4B	12,560	NF4002-3TB4B	6460
	600	NF600P-3TB4A	20,660	NF6002-3TB4A	10,760
	800	NF800P-3TB4A	32,660	NF8002-3TB4A	17,460
	1200	NF1200P-3TB4A	38,660	NF12002-3TB4A	21,460

3 pole bypass switches 16A – 1200A

Disconnect
switches
Non-fusible
Enclosed

3 Pole, 600V, 16A – 1200A




		NEMA Enclosure type							
		1		3R		4		4X Stainless	
UL general purpose amp rating		Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
UL508	16	NF161-3BB8A	\$ 1045	NF163-3BB8A	\$ 1267	NF164-3BB8A	\$ 1480	NF16X-3BB8A	\$ 3740
	25	NF251-3BB8A	1060	NF253-3BB8A	1282	NF254-3BB8A	1540	NF25X-3BB8A	3820
	40	NF321-3BB8A	1090	NF323-3BB8A	1297	NF324-3BB8A	1600	NF32X-3BB8A	3900
	60	NF451-3BB8B	1215	NF453-3BB8B	1312	NF454-3BB8B	1750	NF45X-3BB8B	4050
	80	NF631-3BB8A	1340	NF633-3BB8A	1432	NF634-3BB8A	1850	NF63X-3BB8A	4150
UL98	30	NF301-3BB8B	1970	NF303-3BB8B	2300	NF304-3BB8B	2800	NF30X-3BB8B	4800
	60	NF601-3BB8B	2070	NF603-3BB8B	2400	NF604-3BB8B	2900	NF60X-3BB8B	4900
	100	NF1001-3BB8B	2170	NF1003-3BB8B	2500	NF1004-3BB8B	3000	NF100X-3BB8B	5000
	125	—	—	—	—	—	—	—	—
	200	—	—	—	—	—	—	—	—
	400	NF4001-3B6B	8460	NF4003-3B6B	9060	NF4004-3B6B	19,750	NF400X-3B6B	24,660
	600	NF6001-3B6B	15,060	NF6003-3B6B	15,660	NF6004-3B6B	29,330	NF600X-3B6B	36,660
	800	NF8001-3B6A	24,660	NF8003-3B6A	28,860	NF8004-3B6A	46,130	NF800X-3B6A	57,660
	1200	NF12001-3B6A	30,660	NF12003-3B6A	36,060	NF12004-3B6A	55,040	NF1200X-3B6A	68,800

3 Pole, 600V, 16A – 1200A




		NEMA Enclosure type			
		4X Plastic		12	
UL general purpose amp rating		Catalog number	List price	Catalog number	List price
UL508	16	NF16P-3BB8A	\$ 1300	NF162-3BB8A	\$ 1267
	25	NF25P-3BB8A	1325	NF252-3BB8A	1282
	40	NF32P-3BB8A	1350	NF322-3BB8A	1297
	60	NF45P-3BB8B	1420	NF452-3BB8B	1312
	80	NF63P-3BB8A	1550	NF632-3BB8A	1432
UL98	30	NF30P-3BB8B	2400	NF302-3BB8B	2300
	60	NF60P-3BB8B	2500	NF602-3BB8B	2400
	100	NF100P-3BB8B	2600	NF1002-3BB8B	2500
	125	—	—	—	—
	200	—	—	—	—
	400	NF400P-3B6B	18,660	NF4002-3B6B	9360
	600	NF600P-3B6B	30,660	NF6002-3B6B	15,960
	800	NF800P-3B6A	48,660	NF8002-3B6A	25,860
	1200	NF1200P-3B6A	57,660	NF12002-3B6A	31,860

3 pole mechanically interlocked switches 16A – 1200A

3 Pole, 600V, 16A – 1200A

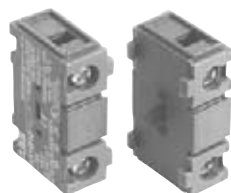
		NEMA Enclosure type							
		1		3R		4		4X Stainless	
UL general purpose amp rating		Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
UL508		16	\$ 640	NF161-3MB6A	\$ 788	NF164-3MB6A	\$ 1120	NF16X-3MB6A	\$ 1410
		25	650	NF251-3MB6A	798	NF254-3MB6A	1160	NF25X-3MB6A	1420
		40	670	NF321-3MB6A	818	NF324-3MB6A	1170	NF32X-3MB6A	1440
		60	750	NF451-3MB6B	908	NF454-3MB6B	1200	NF45X-3MB6B	1490
		80	830	NF631-3MB6A	978	NF634-3MB6A	1245	NF63X-3MB6A	1540
UL98		30	1290	NF301-3MB6B	1830	NF304-3MB6B	2170	NF30X-3MB6B	2700
		60	1340	NF601-3MB6B	1880	NF604-3MB6B	2210	NF60X-3MB6B	2770
		100	1390	NF1001-3MB6B	1930	NF1004-3MB6B	2270	NF100X-3MB6B	2800
		125	2260	NF1251-3MB6A	2860	NF1254-3MB8A	5660	NF125X-3MB8A	7060
		200	3010	NF2001-3MB8B	3710	NF2004-3MB8B	7380	NF200X-3MB8B	9210
		400	5920	NF4001-3MB4B	6030	NF4004-3MB4B	13,150	NF400X-3MB4B	16,420
		600	10,020	NF6001-3MB7B	10,420	NF6004-3MB7B	19,550	NF600X-3MB7B	24,420
		800	16,420	NF8001-3MB4A	19,860	NF8004-3MB4A	30,750	NF800X-3MB4A	38,420
		1200	20,420	NF12001-3MB4A	24,020	NF12004-3MB4A	36,350	NF1200X-3MB4A	45,420

3 Pole, 600V, 16A – 1200A

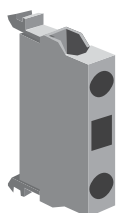
		NEMA Enclosure type			
		4X Plastic		12	
UL general purpose amp rating		Catalog number	List price	Catalog number	List price
UL508		16	\$ 860	NF16P-3MB6A	\$ 788
		25	870	NF25P-3MB6A	798
		40	890	NF32P-3MB6A	818
		60	990	NF45P-3MB6B	908
		80	1090	NF63P-3MB6A	978
UL 98		30	1900	NF30P-3MB6B	1830
		60	1950	NF60P-3MB6B	1880
		100	2000	NF100P-3MB6B	1930
		125	6000	NF125P-3MB8A	2860
		200	8350	NF200P-3MB8B	3710
		400	12,360	NF400P-3MB4B	6030
		600	20,360	NF600P-3MB7B	10,420
		800	32,360	NF800P-3MB4A	19,860
		1200	38,360	NF1200P-3MB4A	24,020

Accessories ①

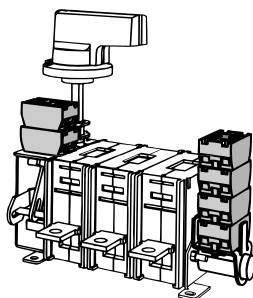
Disconnect
switches
Non-fusible
Enclosed



OA1G_



OBEA_



OZXK_



3 Position selector switch



Pilot light

Auxiliary contacts

For use on:	Contact configuration	Catalog number	Installation suffix	Installed list price adder
16A – 100A	1 N.O.	OA1G10	add "10" suffix	\$ 30
	1 N.C.	OA1G01	add "01" suffix	30
	1 N.O. & 1 N.C.	OA1G11	add "11" suffix	60
125A	1 N.O.	OBEA10	add "10" suffix	50
	1 N.C.	OBEA01	add "01" suffix	50
200A – 600A	1 N.O.	OA1G10	add "10" suffix	50
	1 N.C.	OA3G01	add "01" suffix	50
800A – 3150A	1 N.O. & 1 N.C.	OZXK-1	add "11" suffix	130
	2 N.O. & 2 N.C.	OZXK-2	add "22" suffix	200

Accessories ①

For use on:	Description	Installation suffix	Installed list price adder
OT16, 25, 32 OT45, 63 OT30, 60, 100 OT160 200A – 1200A 1600A – 3150A	Neutral or isolated ground block	N or G	\$ 30
	Neutral or isolated ground block	N or G	54
	Neutral or isolated ground block	N or G	75
	Neutral or isolated ground block	N or G	150
	Neutral block	N	210
	Neutral block	N	350
30A – 1200A 30A – 1200A	Service entrance, 3 wire	U	100
	Service entrance, 4 wire	V	200
16A – 3150A	Start/stop pushbuttons	A	68
	2 position selector switch	C	68
	3 position selector switch	D	78
	Pilot light "red/run"	E	110
	Ammeter 1 phase ②	AM	940
	Voltmeter ②	VM	2300

① Please consult factory for special customer requirements.

② Current transformers included.

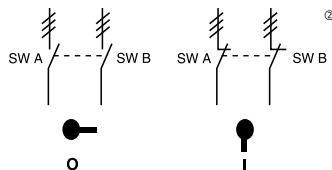
Technical data

Other configuration descriptions

Conversion mechanisms

6 or 8 pole

6 (8) pole mechanism allows two switches controlled by one handle to open or close simultaneously.

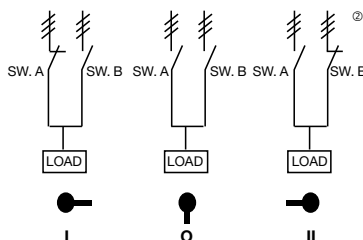


	POS. O	POS. I
SW. A	O	X
SW. B	O	X

X = Closed
O = Open

Transfer^①

Transfer mechanism manually transfers between two power sources using two switches and a center "OFF" position.

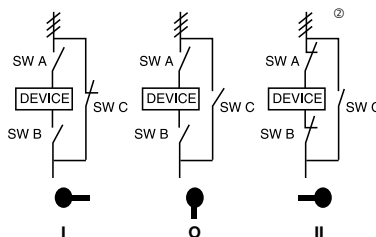


	POS. I	POS. O	POS. II
SW. A	X	O	O
SW. B	O	O	X

X = Closed
O = Open

Bypass^①

Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass.

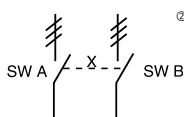


	POS. I	POS. O	POS. II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

X = Closed
O = Open

Mechanical interlock

Mechanical interlock mechanism prevents both switches from being in the ON position at the same time.



	SW. A POS. I	SW. B POS. O
SW. A	X	O
SW. B	O	X

X = Closed
O = Open

^① Transfer and bypass enclosed switches include the load side bussed or cabled together, and all switches come standard with ground lugs.

^② = Three poles

Approximate dimensions 2, 3 & 4 Pole ③ 16A – 3150A, non-fusible

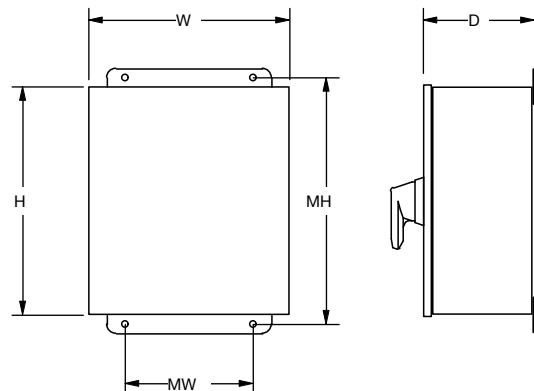
Disconnect
switches
Non-fusible
Enclosed

Non-Fusible

Frame size	Enclosure type	H height	W width	D depth	MH mtg. height	MW mtg. width	Weight
OT16_ OT25_ OT32_	1	7.0	5.0	3.0	4.0	4.0	4.0
	3R	7.0	5.0	3.0	7.75	3.0	4.0
	4	6.0	6.0	4.0	6.75	4.0	4.0
	4X SS	7.0	5.0	3.0	7.75	3.0	4.0
	4X Plastic	6.0	6.0	5.9	6.75	4.0	4.0
	12	7.0	5.0	3.0	7.75	3.0	4.0
	IP65 (A)	4.8	3.4	2.4	4.17	2.80	1.0
	IP65 (B)	5.9	5.1	2.4	5.35	4.57	1.0
OT45_ OT63_ OT30_ OT60_	1	8.0	6.0	4.0	7.0	5.0	6.0
	3R	8.0	6.0	4.0	8.75	4.0	6.0
	4	8.0	6.0	4.0	8.75	4.0	6.0
	4X SS	8.0	6.0	4.0	8.75	4.0	6.0
	4X Plastic	8.0	6.0	5.9	8.75	4.0	6.0
	12	8.0	6.0	4.0	8.75	4.0	6.0
	IP65 (A)	7.9	5.7	3.6	7.24	5.16	4.0
	IP65 (B)	15.8	7.9	5.5	14.8	6.93	4.0
OT100	1	10.0	8.0	5.0	7.0	7.0	9.0
	3R	10.0	8.0	5.0	10.75	6.0	9.0
	4	10.0	8.0	5.0	10.75	6.0	9.0
	4X SS	10.0	8.0	5.0	10.75	6.0	9.0
	4X Plastic	10.0	8.0	5.9	10.75	6.0	9.0
	12	10.0	8.0	5.0	10.75	6.0	9.0
	IP65 (A)	7.9	5.7	3.6	7.24	5.16	4.0
	IP65 (B)	15.8	7.9	5.5	14.8	6.93	4.0
OT160	1	14.0	12.0	8.0	11.0	9.0	20
	3R	14.0	12.0	8.0	14.75	10.0	20
	4	14.0	12.0	8.0	14.75	10.0	20
	4X SS	14.0	12.0	8.0	14.75	10.0	20
	4X Plastic	14.0	12.0	8.0	14.75	10.0	12
	12	14.0	12.0	8.0	14.75	10.0	20

Frame size	Enclosure type	H height	W width	D depth	mtg. height	MW mtg. width	Weight
OT200	1	20.0	16.0	6.0	25.5	14.5	50
	3R	20.0	16.0	6.0	25.5	14.5	50
	4	20.0	16.0	6.0	25.5	14.5	50
	4X SS	20.0	16.0	6.0	25.5	14.5	50
	4X Plastic	20.0	16.0	6.0	25.5	14.5	40
	12	20.0	16.0	6.0	25.5	14.5	50
OT400	1	36.0	24.0	8.0	37.5	22.5	120
	3R	36.0	24.0	8.0	37.5	22.5	120
	4	①	①	①	①	①	①
	4X SS	36.0	24.0	8.0	37.5	22.5	130
	4X Plastic	①	①	①	①	①	①
	12	36.0	24.0	8.0	37.5	22.5	120
OT600	1	36.0	24.0	12.0	37.5	22.5	120
	3R	36.0	24.0	12.0	37.5	22.5	120
	4	36.0	24.0	12.0	37.5	22.5	120
	4X SS	36.0	24.0	12.0	37.5	22.5	120
	4X Plastic	40.0	32.0	12.0	41.2	30.2	120
	12	36.0	24.0	12.0	37.5	22.5	120
OETL-NF800A OETL-NF1200	1	60.0	36.0	12.0	61.5	34.5	200
	3R	60.0	36.0	12.0	61.5	34.5	200
	4	60.0	36.0	12.0	61.5	34.5	200
	4X SS	60.0	36.0	12.0	61.5	34.5	200
	4X Plastic	①	①	①	①	①	①
	12	60.0	36.0	12.0	61.5	34.5	200
OETL-NF1600 OETL-NF2000 OETL-NF3150	1	90.0	36.0	24.0	②	②	600
	3R	90.0	36.0	24.0	②	②	600
	4	①	①	①	①	①	①
	4X SS	①	①	①	①	①	①
	4X Plastic	①	①	①	①	①	①
	12	90.0	36.0	24.0	②	②	600

- ① Please consult factory, enclosures are sized to suit specific customer needs.
② Enclosure is free standing.
③ Some 4-pole switches require larger enclosures. Please consult factory.



600V, 16A - 3150A
2, 3 and 4-pole switches
Enclosure dimensions


Disconnect
switches
Fusible
Enclosed

3 Pole 30A – 800A




FJ30X-3PB6B

3 Pole^①, 600V, 30A – 800A

UL general purpose amp rating		Fuse type	NEMA Enclosure type							
			1		3R		4		4X Stainless	
			Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
	30	J	FJ301-3PB6B		FJ303-3PB6B		FJ304-3PB6B		FJ30X-3PB6B	
	30	CC	FC301-3PB6B	\$ 560	FC303-3PB6B	\$ 600	FC304-3PB6B	\$ 1100	FC30X-3PB6B	\$ 1400
	60	J ^②	FJ601-3PB6B	660	FJ603-3PB6B	860	FJ604-3PB8B	1300	FJ60X-3PB8B	1800
	100	J ^②	FJ1001-3PB8B	960	FJ1003-3PB8B	1140	FJ1004-3PB8B	2800	FJ100X-3PB8B	3800
	200	J ^②	FJ2001-3PB8C	2200	FJ2003-3PB8C	2400	FJ2004-3PB8C	3900	FJ200X-3PB8C	5000
	400	J ^②	FJ4001-3PB4C	3800	FJ4003-3PB4C	4200	FJ4004-3PB4C	7700	FJ400X-3PB4B	10,800
	600	J ^②	FJ6001-3PB7C	5300	FJ6003-3PB7C	6800	FJ6004-3PB7C	11,000	FJ600X-3PB7C	16,000
	800	L	FL8001-3PB4B	9500	FL8003-3PB4B	11,200	FL8004-3PB4B	16,000	FL800X-3PB4B	21,000

3 Pole^①, 600V, 30A – 800A

UL general purpose amp rating		Fuse type	NEMA Enclosure type			
			4X Plastic		12	
			Catalog number	List price	Catalog number	List price
	30	J	FJ30P-3PB6B		FJ302-3PB6B	
	30	CC	FC30P-3PB6B	\$ 1040	FC302-3PB6B	\$ 600
	60	J ^②	FJ60P-3PB8B	1300	FJ602-3PB6B	860
	100	J ^②	FJ100P-3PB8B	2800	FJ1002-3PB8B	1140
	200	J ^②	FJ200P-3PB8C	4400	FJ2002-3PB8C	2400
	400	J ^②	FJ400P-3PB4C	8400	FJ4002-3PB4C	4200
	600	J ^②	FJ600P-3PB7C	13,600	FJ6002-3PB7C	6200
	800	L	FL800P-3PB4B	17,400	FL8002-3PB4B	9800

NOTE: All enclosed switches are provided with a black handle; however, most handles can be substituted with a red / yellow handle if desired. Please substitute the handle suffix code (2nd and 3rd from last characters) with the red/yellow handle catalog number suffix from page 18.130. There is no additional price adder for changing to a red/yellow handle of equal ratings and style.

18

EXAMPLE: A red/yellow pistol handle for an FJ301-3PB6B can be substituted for the black pistol handle by using the "Y6" suffix instead of the "B6" suffix, new catalog number: FJ301-3PY6B.

① Fusible switches are UL listed to the UL98 standard.

Switch and handle ratings 30A – 800A

Disconnect
switches
Fusible
Enclosed

Switch ratings

UL general purpose amp rating	Maximum horsepower rating								Wire size for terminal lugs	For wire type	Approval ①
	Single phase			Three phase							
	120V	200V	240V	200V	208V	240V	480V	600V			
30	2	3	5	5	7.5	7.5	15	20	#18 – 8	Cu	CSA, UL
60	3	7.5	10	15	15	15	30	50	#14 – 4	Cu	CSA, UL
100	5	10	15	25	25	30	60	75	#14 – 2/0	Cu/Al	CSA, UL
200	—	—	—	50	50	60	125	150	#6 – 300 kcmil	Cu/Al	CSA, UL
400	—	—	—	100	125	125	250	350	#2 – 600 kcmil	Cu/Al	CSA, UL
600	—	—	—	150	150	200	400	500	(2) #2 – 600 kcmil	Cu/Al	CSA, UL
800	—	—	—	200	200	250	500	600	(2) #2 – 600 kcmil	Cu/Al	CSA, UL

Handle ratings


Amperage range	Style type	NEMA	Color	Marking	Defeatable	Padlockable	Catalog number suffix	Catalog number					
30	Selector	1,3R,12	Black	O/I & OFF/ON	Yes	Yes	BJ	OHB2AJ					
	Selector	1,3R,12	Red/Yel				YJ	OHY2AJ					
	Pistol	1,3R,12	Black				B6	OHB65J5					
	Pistol	1,3R,12	Red/Yel				Y6	OHY65J5					
	Pistol	1,3R,4,4X,12	Black				B6	OHB65L5					
	Pistol	1,3R,4,4X,12	Red/Yel				Y6	OHY65L5					
	60 – 200	Pistol	1,3R,12	O/I & OFF/ON	Yes	Yes	B6	OHB65J6					
			1,3R,12				Y6	OHY65J6					
			1,3R,12				B8	OHB80J6					
			1,3R,12				Y8	OHB80L6					
1,3R,4,4X,12			B8				OHY80L6						
	Pistol	1,3R,4,4X,12	Red/Yel	O/I & OFF/ON	Yes	Yes	Y8	OHY80L6					
		1,3R,12	Black				B4	OHB145J12					
		1,3R,12	Red/Yel				Y4	OHY145J12					
		1,3R,12	Black				B7	OHB175J12					
		1,3R,12	Red/Yel				Y7	OHY175J12					
		1,3R 4,4X,12	Black				B4	OHB145L12					
		1,3R,4,4X,12	Red/Yel				Y4	OHY145L12					
		1,3R 4,4X,12	Black				B7	OHB175L12					
		1,3R,4,4X,12	Red/Yel				Y7	OHY175L12					
	Pistol	1,3R,4,4X,12	Metal	I/O/II	Yes	Yes	8	YASDA-8					
		1,3R,12	Black				B6	OHB65J6E011					
		1,3R,4,4X,12						OHB65L6E011					
		60 – 200	Pistol				1,3R,12	I/O/II	Yes	Yes	B8	OHB80J6E011	
							1,3R,4,4X,12						OHB80L6E011
400 – 800	Pistol			1,3R,12	I/O/II	Yes	Yes				B4	OHB145J12E011	
	Pistol			1,3R,4,4X,12							Black	B4	OHB145L12E011
	Pistol			1,3R,12							Black	B7	OHB175J12E011
	Pistol	1,3R,4,4X,12	Black	B7				OHB175L12E011					
	Metallic	1,3R,4,4X,12	Metal	21				YASDA-21					
	Metallic	1,3R,4,4X,12	Metal	No	No	6	YASDA-6						


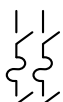
① Fusible switches are UL listed to the UL98 standard.

Disconnect
switches
Fusible
Enclosed

2 & 4 Pole 30A – 800A

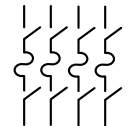
2 Pole, 600V, 30A – 800A

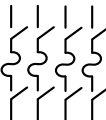
		NEMA Enclosure type								
UL general purpose amp rating		Fuse type	1		3R		4		4X Stainless	
			Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
	30	J	—	—	—	—	—	—	—	—
	30	CC	—	—	—	—	—	—	—	—
	60	J	—	—	—	—	—	—	—	—
	100	J	FJ1001-2PB8B	\$ 864	FJ1003-2PB8B	\$ 1026	FJ1004-2PB8B	\$ 2735	FJ100X-2PB8B	\$ 3420
	200	J	FJ2001-2PB8C	1980	FJ2003-2PB8C	2160	FJ2004-2PB8C	3600	FJ200X-2PB8C	4500
	400	J	FJ4001-2PB4C	3420	FJ4003-2PB4C	3780	FJ4004-2PB4C	7775	FJ400X-2PB4C	9720
	600	J	FJ6001-2PB7C	4770	FJ6003-2PB7C	6120	FJ6004-2PB7C	11,520	FJ600X-2PB7C	14,400
	800	L	FL8001-2PB4B	8550	FL8003-2PB4B	10,080	FL8004-2PB4B	15,120	FL800X-2PB4B	18,900

NEMA Enclosure type						
UL general purpose amp rating		Fuse type	4X Plastic		12	
			Catalog number	List price	Catalog number	List price
 	30	J	—	—	—	—
	30	CC	—	—	—	—
	60	J	—	—	—	—
	100	J	FJ100P-2PB8B	\$ 2520	FJ1002-2PB8B	\$ 1026
	200	J	FJ200P-2PB8C	3960	FJ2002-2PB8C	2160
	400	J	FJ400P-2PB4C	7560	FJ4002-2PB4C	3780
	600	J	FJ600P-2PB7C	12,240	FJ6002-2PB7C	5580
	800	L	FL800P-2PB4B	15,660	FL8002-2PB4B	8820

4 Pole, 600V, 30A – 800A

4 Pole, 600V, 30A – 800A

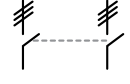
NEMA Enclosure type										
UL general purpose amp rating		Fuse type	1		3R		4		4X Stainless	
			Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
	30	J	FJ301-4PB6B	\$ 700	FJ303-4PB6B	\$ 750	FJ304-4PB6B	\$ 1375	FJ30X-4PB6B	\$ 1750
	30	CC	FC301-4PB6B		FC303-4PB6B		FC304-4PB6B		FC30X-4PB6B	
	60	J	FJ601-4PB6B	825	FJ603-4PB6B	1075	FJ604-4PB8B	1800	FJ60X-4PB8B	2250
	100	J	FJ1001-4PB8B	1200	FJ1003-4PB8B	1425	FJ1004-4PB8B	3800	FJ100X-4PB8B	4750
	200	J	FJ2001-4PB8C	2750	FJ2003-4PB8C	3000	FJ2004-4PB8C	5000	FJ200X-4PB8C	6250
	400	J	FJ4001-4PB4C	4750	FJ4003-4PB4C	5250	FJ4004-4PB4C	10,800	FJ400X-4PB4C	13,500
	600	J	FJ6001-4PB7C	6625	FJ6003-4PB7C	8500	FJ6004-4PB7C	16,000	FJ600X-4PB7C	20,000
	800	L	FL8001-4PB4B	11,875	FL8003-4PB4B	14,000	FL8004-4PB4B	21,000	FL800X-4PB4B	26,250

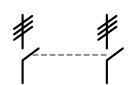
NEMA Enclosure type						
UL general purpose amp rating		Fuse type	4X Plastic		12	
			Catalog number	List price	Catalog number	List price
	30	J	FJ30P-4PB6B	\$ 1300	FJ302-4PB6B	\$ 750
	30	CC	FC30P-4PB6B		FC302-4PB6B	
	60	J	FJ60P-4PB8B	1625	FJ602-4PB6B	1075
	100	J	FJ100P-4PB8B	3500	FJ1002-4PB8B	1425
	200	J	FJ200P-4PB8C	5500	FJ2002-4PB8C	3000
	400	J	FJ400P-4PB4C	10,500	FJ4002-4PB4C	5250
	600	J	FJ600P-4PB7C	17,000	FJ6002-4PB7C	7750
	800	L	FL800P-4PB4B	21,750	FL8002-4PB4B	12,250

6 Pole & Mechanically interlocked switches 30A – 800A

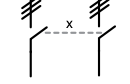
Disconnect
switches
Fusible
Enclosed

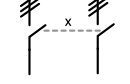
6 Pole, 600V, 30A – 800A

UL general purpose amp rating		Fuse type	NEMA Enclosure type							
			1		3R		4		4X Stainless	
			Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
	30	J	FJ301-6PB6B		FJ303-6PB6B		FJ304-6PB6B		FJ30X-6PB6B	
	30	CC	FC301-6PB6B	\$ 1300	FC303-6PB6B	\$ 1400	FC304-6PB6B	\$ 2150	FC30X-6PB6B	\$ 3020
	60	J	FJ601-6PB4B	1450	FJ603-6PB4B	1600	FJ604-6PB4B	2450	FJ60X-6PB4B	3820
	100	J	FJ1001-6PB4B	2000	FJ1003-6PB4B	2200	FJ1004-6PB4B	3375	FJ100X-6PB4B	7820
	200	J	—	—	—	—	—	—	—	—
	400	J	FJ4001-6P8C	7350	FJ4003-6P8C	8050	FJ4004-6P8C	15,950	FJ400X-6P8C	22,160
	600	J	FJ6001-6P8C	10,050	FJ6003-6P8C	13,000	FJ6004-6P8C	23,450	FJ600X-6P8C	32,560
	800	L	FL8001-6P8B	17,600	FL8003-6P8B	20,600	FL8004-6P8B	30,650	FL800X-6P8B	42,560

UL general purpose amp rating		Fuse type	NEMA Enclosure type			
			4X Plastic		12	
			Catalog number	List price	Catalog number	List price
	30	J	FJ30P-6PB6B	\$ 1575	FJ302-6PB6B	\$ 1480
	30	CC	FC30P-6PB6B		FC302-6PB6B	
	60	J	FJ60P-6PB4B	1820	FJ602-6PB4B	1850
	100	J	FJ100P-6PB4B	2475	FJ1002-6PB4B	2350
	200	J	—	—	—	—
	400	J	FJ400P-6PB8C	15,600	FJ4002-6PB8C	8050
	600	J	FJ600P-6P8C	25,000	FJ6002-6P8C	11,600
	800	L	FL800P-6P8B	31,800	FL8002-6P8B	18,750

Mechanically interlocked, 600V, 30A – 800A

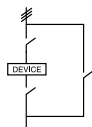
UL general purpose amp rating		Fuse type	NEMA Enclosure type							
			1		3R		4		4X Stainless	
			Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
	30	J	FJ301-3MB6B		FJ303-3MB6B		FJ304-3MB6B		FJ30X-3MB6B	
	30	CC	FC301-3MB6B	\$ 1420	FC303-3MB6B	\$ 1560	FC304-3MB6B	\$ 2400	FC30X-3MB6B	\$ 3500
	60	J	FJ601-3MB6B	1620	FJ603-3MB6B	1780	FJ604-3MB8B	2750	FJ60X-3MB8B	4050
	100	J	FJ1001-3MB8B	2220	FJ1003-3MB8B	2440	FJ1004-3MB8B	3750	FJ100X-3MB8B	5500
	200	J	FJ2001-3MB8C	4960	FJ2003-3MB8C	5360	FJ2004-3MB8C	8450	FJ200X-3MB8C	10,560
	400	J	FJ4001-3MB4C	8160	FJ4003-3MB4C	8960	FJ4004-3MB4C	17,730	FJ400X-3MB4C	22,160
	600	J	FJ6001-3MB4C	11,160	FJ6003-3MB4C	14,460	FJ6004-3MB4C	26,050	FJ600X-3MB4C	32,560
	800	L	FL8001-3MB4B	19,560	FL8003-3MB4B	22,960	FL8004-3MB4B	34,050	FL800X-3MB4B	42,560

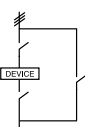
UL general purpose amp rating		Fuse type	NEMA Enclosure type			
			4X Plastic		12	
			Catalog number	List price	Catalog number	List price
	30	J	FJ30P-3MB6B	\$ 1750	FJ302-3MB6B	\$ 1650
	30	CC	FC30P-3MB6B		FC302-3MB6B	
	60	J	FJ60P-3MB8B	2020	FJ602-3MB6B	2020
	100	J	FJ100P-3MB8B	2750	FJ1002-3MB8B	2580
	200	J	FJ200P-3MB8C	9300	FJ2002-3MB8C	5360
	400	J	FJ400P-3MB4C	17,360	FJ4002-3MB4C	8960
	600	J	FJ600P-3MB4C	27,760	FJ6002-3MB4C	12,960
	800	L	FL800P-3MB4B	35,360	FL8002-3MB4B	20,160

18

Bypass switches 30A – 800A

3 Pole Bypass switch, 600V, 30A – 800A

		NEMA Enclosure type								
UL general purpose amp rating		Fuse type	1		3R		4		4X Stainless	
			Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price
<div>UL 98</div> 	30	J	FJ301-3BB8B		FJ303-3BB8B		FJ304-3BB8B		FJ30X-3BB8B	
	30	CC	FC301-3BB8B	\$ 1850	FC303-3BB8B	\$ 2050	FC304-3BB8B	\$ 3150	FC30X-3BB8B	\$ 4550
	60	J	—	—	—	—	—	—	—	—
	100	J	—	—	—	—	—	—	—	—
	200	J	FJ2001-3B8C	9000	FJ2003-3B8C	9800	FJ2004-3B8C	16,000	FJ200X-3B8C	19,950
	400	J	FJ4001-3B6C	15,300	FJ4003-3B6C	16,800	FJ4004-3B6C	34,000	FJ400X-3B6C	42,500
	600	J	FJ6001-3B6C	21,100	FJ6003-3B6C	27,000	FJ6004-3B6C	50,300	FJ600X-3B6C	62,800
	800	L	FL8001-3B6B	37,500	FL8003-3B6B	44,100	FL8004-3B6B	65,800	FL800X-3B6B	82,300

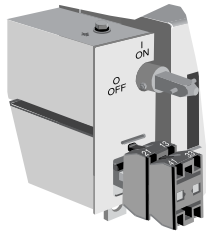
		NEMA Enclosure type				
UL general purpose amp rating		Fuse type	4X Plastic		12	
			Catalog number	List price	Catalog number	List price
	30	J	FJ30P-3BB6B	\$ 2250	FJ302-3BB6B	\$ 2150
	30	CC	FC30P-3BB6B		FC302-3BB6B	
	60	J	—	—	—	—
	100	J	—	—	—	—
	200	J	FJ200P-3B8C	17,600	FJ2002-3B8C	9800
	400	J	FJ400P-3B6C	33,100	FJ4002-3B6C	16,800
	600	J	FJ600P-3B6C	53,500	FJ6002-3B6C	24,600
	800	L	FL800P-3B6B	73,500	FL8002-3B6B	38,700

Accessories ①②

Disconnect
switches
Fusible
Enclosed



OESA-ZX157



OZXK-1
OZXK-2



3 Position selection switch



Pilot light

Auxiliary contacts

For use on:	Contact configuration	Catalog number	Installation suffix	Installed list price adder
30A	1 N.O. + 1 N.C. 2 N.O. + 2 N.C.	OA4B1C	add "11" suffix add "22" suffix	\$ 70 110
60A – 600A	1 N.O. 1 N.C.	OA1G10 OA3G01	add "10" suffix add "01" suffix	30
800A	1 N.O. & 1 N.C. 2 N.O. & 2 N.C.	OZXK-1 OZXK-2	add "11" suffix add "22" suffix	130 200

Accessories ①②

For use on:	Description	Installation suffix	Installed list price adder
30A	Neutral block	N	\$ 40
60A – 100A	Neutral block	N	50
200A – 400A	Neutral block	N	150
600A – 800A	Neutral block	N	160
30A – 200A	Service entrance, 3 wire Service entrance, 4 wire	U V	75 125
400A – 800A	Service entrance, 3 wire Service entrance, 4 wire	U V	150 200
30A – 800A	Start/stop pushbuttons 2 position selector switch 3 position selector switch Pilot light "red/run" Ammeter 1 phase ③ Voltmeter ③	A C D E AM VM	68 68 78 110 940 2300

① Additional accessories can be found on pages 18.83 – 18.95.

② Please consult factory for special customer requirements.

③ Current transformers included.

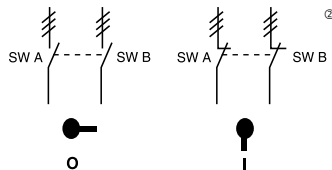
Technical data

Other configuration descriptions

Conversion mechanisms

6 or 8 pole

6 (8) pole mechanism allows two switches controlled by one handle to open or close simultaneously.



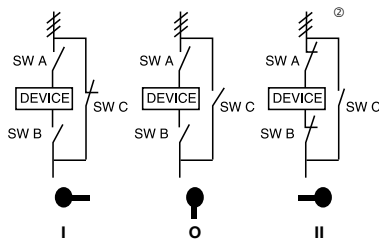
	POS. O	POS. I
SW. A	O	X
SW. B	O	X

X = Closed

O = Open

Bypass^①

Bypass mechanism operates three switches: Two switches in series and one changeover switch to allow power bypass.



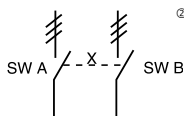
	POS. I	POS. O	POS. II
SW. A	O	O	X
SW. B	O	O	X
SW. C	X	O	O

X = Closed

O = Open

Mechanical interlock

Mechanical interlock mechanism prevents both switches from being in the ON position at the same time.



	SW. A POS. I	SW. B POS. O
SW. A	X	O
SW. B	O	X

X = Closed

O = Open

^① Transfer and bypass enclosed switches include the load side bussed or cabled together, and all switches come standard with ground lugs.

^② = Three poles

Approximate dimensions 2, 3 & 4 Pole ③ 30A – 800A Fusible

**Disconnect
switches
Fusible
Enclosed**

Fusible

Frame size	Enclosure type	H height	W width	D depth	MH mtg. height	MW mtg. width	Weight
OS30_	1	10.0	8.0	6.0	7.0	7.0	12
	3R	10.0	8.0	6.0	10.75	6.0	12
	4	10.0	8.0	6.0	10.75	6.0	12
	4X SS	10.0	8.0	6.0	10.75	6.0	12
	4X Plastic	10.0	8.0	5.9	10.75	6.0	8.0
OS60_	12	10.0	8.0	6.0	10.75	6.0	12
	1	10.0	8.0	6.0	7.0	7.0	13
	3R	10.0	8.0	6.0	10.75	6.0	13
	4	10.0	8.0	6.0	10.75	6.0	13
	4X SS	10.0	8.0	6.0	10.75	6.0	13
OS100_	4X Plastic	10.0	8.0	5.9	10.75	6.0	9.0
	12	10.0	8.0	6.0	10.75	6.0	13
	1	14.0	12.0	8.0	11.0	9.0	22
	3R	14.0	12.0	8.0	14.75	10.0	22
	4	14.0	12.0	8.0	14.75	10.0	22
OS200_	4X SS	14.0	12.0	8.0	14.75	10.0	22
	4X Plastic	14.0	12.0	8.0	14.75	10.0	16
	12	14.0	12.0	8.0	14.75	10.0	22
	1	24.0	16.0	8.0	25.5	14.5	75
	3R	24.0	16.0	8.0	25.5	14.5	75
OS400_	4	24.0	16.0	8.0	25.5	14.5	75
	4X SS	24.0	16.0	8.0	25.5	14.5	75
	4X Plastic	①	①	①	①	①	①
	12	24.0	16.0	8.0	25.5	14.5	75

Frame size	Enclosure type	H height	W width	D depth	mtg. height	MW mtg. width	Weight
OS400_	1	36.0	24.0	12.0	37.5	22.5	150
	3R	36.0	24.0	12.0	37.5	22.5	150
	4	36.0	24.0	12.0	37.5	22.5	150
	4X SS	36.0	24.0	12.0	37.5	22.5	150
	4X Plastic	①	①	①	①	①	①
OS600_	12	36.0	24.0	12.0	37.5	22.5	150
	1	42.0	36.0	12.0	43.5	34.5	150
	3R	42.0	36.0	12.0	43.5	34.5	150
	4	42.0	36.0	12.0	43.5	34.5	150
	4X SS	42.0	36.0	12.0	43.5	34.5	150
OES800_	4X Plastic	①	①	①	①	①	①
	12	42.0	36.0	12.0	43.5	34.5	150
	1	48.0	24.0	12.0	49.5	22.5	170
	3R	48.0	24.0	12.0	49.5	22.5	170
	4	48.0	24.0	12.0	49.5	22.5	170
OES800_	4X SS	48.0	24.0	12.0	49.5	22.5	170
	4X Plastic	①	①	①	①	①	①
	12	48.0	24.0	12.0	49.5	22.5	170

- ① Please consult factory, enclosures are sized to suit specific customer needs.
 ② Enclosure is free standing.
 ③ Some 4-pole switches require larger enclosures. Please consult factory.

