

SIEMENS



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Low Voltage Power Distribution and Electrical Installation Technology

Sub and Final Distribution Products

Answers for infrastructure

Related Catalogues

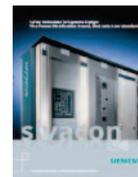
3VL MCCB Modular, Compact, Communication-Capable

Switching, Protection and Measuring Devices for Low Voltage Power Distribution with ACB's/MCCB's.



SIVACON S4 Switchgear Intro

Basic intro to SIVACON S4 switchgear



3VT Moulded Case Circuit Breakers Circuit Breakers

3VT Molded Case Circuit Breakers up to 1600 A



Energy Management in Low Voltage Power distribution

Compliance with Part L and CRC regulations requires accurate high quality metering and well featured PC based supporting software.



Automatic Transfer Switch Automatic and manual transfer between two power supply systems in the low voltage power distribution field

Safe, cost-efficient and flexible



Sentron Powermanager Software

PC based fully scaleable Software to collect, monitor, Evaluate, Present and archive energy consumption data from networked devices.



BT LV Portfolio The Complete Portfolio for Low Voltage Power Distribution

Safe, cost-efficient and flexible



Underfloor Busbar

Low profile, quick fix Underfloor Busbar trunking designed to be assembled directly onto the floor slab of a cavity floor installation, allowing for rapid on site assembly. Clean Earth and dual earth systems available, matched with complementary floor boxes and grommet floor boxes, utilising the latest range of Crabtree switches, sockets, and data accessories.



LX Busbar engineering guide

LX Busbar offers compact high current carrying capacity from 800 - 6300Amps, in both Copper and Aluminium sandwich conductor versions.



DVD-ROM included with catalogue 2012

- ACB/MCCB
- Automatic Transfer Control device
- BT LV Portfolio
- Busbar catalogues
- Busbar Installation Instructions
- Busbar Installation Videos
- Energy Management
- LV Switchgear
- Power Management
- TIP shortform catalogue 2011
- Underfloor Busbar



Small/medium Power Busbars

Small and medium power Busbar trunking for rising main, horizontal distribution, and pre-wired lighting applications.



SIVACON S4 Switchgear Intro

SIVACON S4 type-tested switchgear offers a high degree of safety with arc vent technology, and a fast and easy access to the devices for setting purposes is facilitated through doors with central locking, swivel frames and quick-release locks.



Low Voltage Power Distribution and Electrical Installation Technology

Sub and Final Distribution Products

Catalogue IC LMV LV : 2012



The products and systems listed in this catalog are manufactured/ distributed using a certified quality management system which complies with EN ISO 9001 (for the Certificate Register No. see the IC 10 appendix). The certificate is recognized in all IQNet countries.

Blue Chip company Siemens, synonymous with engineering excellence and quality, offers an unrivalled range of LV Infrastructure equipment suited to use in modern energy conscious construction projects.

The Siemens Infrastructure & Cities Low Voltage business with UK manufacturing headquarters in Wythenshawe, is capable of delivering intelligent total power solutions to meet even the most exacting client specification in the Building Services market. This encompasses products covering;

- LV Switchboards, (through the Power Partner network)
- Busbar Trunking, (25 to 6300Amps)
- ACB's, MCCB's, MCB's, Switch disconnectors
- Power Monitoring devices and meters, (If you don't measure it you can't control it!)
- Energy management software (trending, storing, sharing energy usage data)
- Distribution boards/Panelboards – (with and without metering, plug & play)
- Low voltage circuit protection

It is evident that more and more sites are designing services to comply with the Carbon reduction initiatives and Part L. To be able to manage energy usage, it is first essential to accurately measure it, store it, compare trends and identify areas for adjustment. Best practice currently includes utilising electrical equipment i.e. (Low Voltage Switchgear, Busbar trunking tap off units, and distribution boards) to capture electrical energy data via metering, and enabling visibility over open protocol communication channels.

Alpha BS I & II Distribution Boards

1

Alpha BS III Panelboard Systems

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SIVACON S4 'At a Glance'

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Application shots

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ALPHA BS I & II Distribution Boards

Introduction

Overview

		Surface Mounting Distribution Boards	Rated Current	Fault Level	Cubicle Depth mm	Degree of Protection
ALPHA BS I SPN Consumer Units	All Insulated	Y	100A	Icc = 16kA	120	IP2XC
	Metalclad	Y	100A	Icc = 16kA	122	IP2XC
ALPHA BS II TPN Distribution Boards	Metalclad	Y	125A	Icw = 10kA, 0.1s Icc = 16kA	155 155	IP3X IP3X
		Y	200A	Icw = 16kA, 0.1 s Icc = 25kA	155 155	IP3X IP3X
	ALPHA BS II TP Pan Assemblies	Y	200A	Icw = 16kA, 0.1 s	90	IP00
				Icc = 25kA	90	IP00

System

The design of the Siemens final distribution board system draws on long years of experience in the low voltage distribution sector. The ALPHA BS I SPN Consumer Unit is provided with an incoming device(s) as standard.

The ALPHA BS II TPN Distribution Board is provided with an integral incoming meter facility as standard. This system has been tailored to meet the latest standards and legislation for today's final distribution installations.

Benefits

- Flexible Incomer options
- Flexible meter options available as standard on the TPN distribution boards
- Generous incoming cabling space
- Flexible expansion with a wide range of add-on extension units and accessories
- Designed and manufactured in the UK
- RoHS compliant

Application

Thanks to their compact mounting depth, the Siemens ALPHA BS consumer units and distribution boards can be installed close to the respective load centre in residential and non-residential buildings as well as schools, commercial buildings and shops.

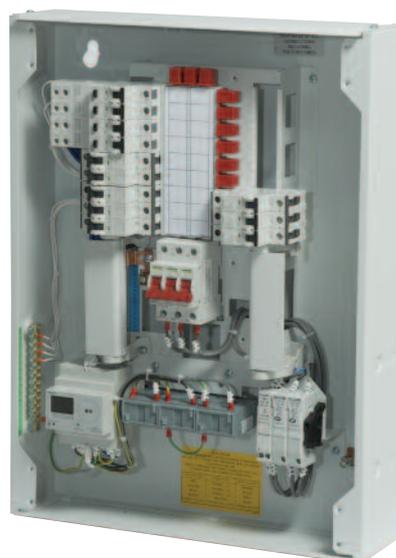
Typical applications might include:

- Hotels & hospitals
- Major retail outlets
- Schools & universities
- Football grounds & leisure complexes
- Offices & airports

Equipment

The consumer units and distribution boards can be equipped with modular installation devices, such as mcb's and rcbo's up to a device mounting depth of 70mm.

Optional add-on enclosures also allow for the mounting of additional modular installation devices such as installation contactors, timers, switching devices, transformers, measuring and monitoring devices, etc.





Introduction

ALPHA BS I SPN Consumer Units

- 1.1 Insulated Surface Mounting
- 1.1 Metalclad Surface Mounting
- 1.2 Consumer Unit Accessories
- 1.2 Dimensions

ALPHA BS II TPN Distribution Boards

- 1.3 125A TPN Surface Mounting
- 1.4 125A Distribution Board Metering Options
- 1.5 200A TPN Surface Mounting
- 1.6 200A Distribution Board Metering Options
- 1.6 200A TP Pan Assemblies
- 1.7 Distribution Board Accessories
- 1.8 Dimensions

Miniature Circuit Breakers

- 1.9 5SY6, 6kA
- 1.10 5SY4, 10kA
- 1.11 5SY7, 15kA
- 1.12 5SY8, 25kA

Residual Current Protective Devices

- 1.13 5SU9, 6kA
- 1.14 5SU9, 10kA

Technical Information

Can be found in the DVD located in the inside back cover of the catalogue.

ALPHA BS I

Consumer Units

All Insulated & Metalclad Surface Mounting

Selection and ordering data

Features:

- Type tested to BS EN 60439-3
- 16kA Conditional short circuit rating
- Rated Voltage 230V 50/60Hz
- Incomer(s) provided as standard
- Modular Construction
- Top, bottom & side entry
- Colour: Siemens light grey to RAL 7035
- Degree of Protection: IP2XC
- Comb busbar system
- Earth & Neutral Bars supplied as standard
- Full DIN rail supplied as standard
- User defined Split Load Units

Type	External Dimensions H x W x D (mm)			Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
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All insulated

Main Switch All Insulated Consumer Units with 100A Incomer



5 way	230	190	120	8GB1 335-1DA		1	045	2.20
8 way	230	243	120	8GB1 335-2DA		1	045	2.85
11 way	230	294	120	8GB1 335-3DA		1	045	3.11
14 way	230	344	120	8GB1 335-4DA		1	045	3.40
19 way	230	439	120	8GB1 335-5DA		1	045	4.00

User defined Split Load All Insulated Consumer Unit with 100A

Main Switch incomer and 80A 30mA rccb



9 way	230	294	120	8GB1 335-6DA		1	045	3.08
12 way	230	344	120	8GB1 335-7DA		1	045	3.95
17 way*	230	439	120	8GB1 335-8DA		1	045	4.00

* A minimum of 5 outgoing ways is recommended on the main switch circuit

Metal Clad

Main Switch Metalclad Consumer Units with 100A Incomer



5 way	210	188	122	8GB3 335-1DA		1	045	1.24
8 way	210	242	122	8GB3 335-2DA		1	045	1.40
11 way	210	292	122	8GB3 335-3DA		1	045	1.34
14 way	210	343	122	8GB3 335-4DA		1	045	1.39
19 way	210	439	122	8GB3 335-5DA		1	045	2.09

User defined Split Load Metalclad Consumer Unit with 100A

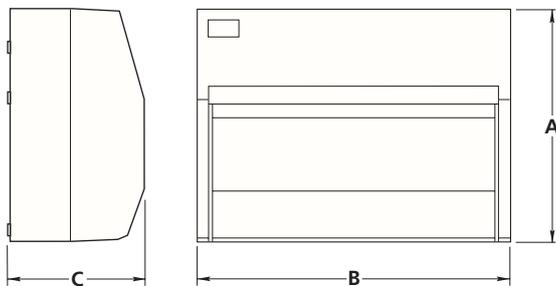
Main Switch incomer and 80A 30mA rccb

9 way	210	292	122	8GB3 335-6DA		1	045	1.95
12 way	210	343	122	8GB3 335-7DA		1	045	2.12
17 way*	210	439	122	8GB3 335-8DA		1	045	2.70

* A minimum of 5 outgoing ways is recommended on the main switch circuit

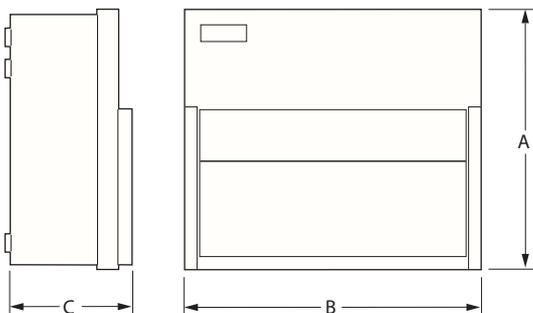
Type	Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
Consumer Unit Accessories					
	Blanking Strip - (6 x 1 mod)	8GP1 970-0DA11	1	045	0.014
	Blanking Strip - (12 x 1 mod)	8GP1 971-1DA11	1	045	0.028
	Blanking Strip - (4 x 3 mod)	8GP1 972-0DA12	1	045	0.040
	Blanking Strip - (2 x 12 mod)	8GP1 973-0DA15	1	045	0.094
	Clip-in Blank - SP Moulding	8GP1 975-0DA10	1	045	0.003
	Busbar Insulator (9/pk)	8GP1 974-0DA10	1	045	0.03
	mcb handle locking device padlock for the above	5ST3 806 5ST3 802	1 1	020 020	0.041 0.034

Approximate Dimensions (mm) Surface All-Insulated Enclosures



Order No.	A	B	C
8GB1 335-1DA	230	190	120
8GB1 335-2DA	230	243	120
8GB1 335-3DA	230	294	120
8GB1 335-4DA	230	344	120
8GB1 335-5DA	230	439	120
8GB1 335-6DA	230	294	120
8GB1 335-7DA	230	344	120
8GB1 335-8DA	230	439	120

Approximate Dimensions (mm) Surface Metal Clad Enclosures



Order No.	A	B	C
8GB3 335-1DA	261	188	122
8GB3 335-2DA	261	242	122
8GB3 335-3DA	261	292	122
8GB3 335-4DA	261	343	122
8GB3 335-5DA	261	439	122
8GB3 335-6DA	261	292	122
8GB3 335-7DA	261	343	122
8GB3 335-8DA	261	439	122

ALPHA BS II

Distribution Boards

125A Type B Surface Mounting

Selection and ordering data

Features:

- Type Tested & ASTA certified to BS EN 60439-3
- 10kA for 0.1 second short circuit rating
- 16kA conditional short circuit rating
- Rated Voltage 230/400V 50/60Hz
- Integral meter ready facility
- Modular Construction
- 1 mm Sheet Steel Enclosure
- Colour: Siemens light grey to RAL 7035
- Degree of Protection: IP3X
- Shrouded outgoing neutral terminals
- Top & Bottom entry via undrilled removable gland plates

Type	External Dimensions H x W x D (mm)			Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
125A TPN rated Distribution Boards								
	4 way	490	430	155	8GP1 204-2DA54	1	045	10.00
	6 way	570	430	155	8GP1 206-2DA54	1	045	11.30
	8 way	650	430	155	8GP1 208-2DA54	1	045	12.70
	12 way	815	430	155	8GP1 212-2DA54	1	045	16.00
	16 way	895	430	155	8GP1 216-2DA54	1	045	17.70
	20 way	1000	430	155	8GP1 220-2DA54	1	045	19.50
	24 way	1140	430	155	8GP1 224-2DA54	1	045	22.40
125A TPN rated Distribution Boards with Integral DIN Rail								
	4 way	650	430	155	8GP1 104-2DA50	1	045	11.50
	8 way	815	430	155	8GP1 108-2DA50	1	045	18.00
	12 way	975	430	155	8GP1 112-2DA50	1	045	18.00
	16 way	1140	430	155	8GP1 116-2DA50	1	045	21.50
	20 way	1140	430	155	8GP1 120-2DA50	1	045	21.50
Incomer Options & Kits for the above								
	100A DP Switch Disconnecter *				5TE1 201-0DA	1	045	0.225
	100A TP Switch Disconnecter				5TE1 301-0DA	1	045	0.338
	100A 4P Switch Disconnecter **				5TE1 401-0DA	1	045	0.455
	125A DP Switch Disconnecter *				5TE1 202-0DA	1	045	0.225
	125A TP Switch Disconnecter				5TE1 302-0DA	1	045	0.338
	125A TP HFL Switch Disconnecter**				5TT8 814	1	027	0.338
	125A 4P Switch Disconnecter **				5TE1 402-0DA	1	045	0.455
	125A 4P HFL Switch Disconnecter**				5TT8 815	1	027	0.456
	125A 4P 30mA rccb **				5SM3 345-0	1	006	0.500
	125A 4P 300mA rccb **				5SM3 645-0	1	006	0.480
	Direct Connection Kit - 50mm ² cable				8GP1 854-0DA10	1	045	0.280
	Incoming Cable Connection Kit - 120mm ² cable				8GP1 856-0DA10	1	045	0.470
	Outgoing Direct Connection Kit - 50mm ² cable				8GP1 855-0DA10	1	045	0.130
* Requires 8GP1 853-0DA20 single phase connection kit ** Requires 8GP1 886-0DA10 4P connection kit								
Conversion/Connection Kits								
	125A TP to SP Conversion Kit				8GP1 853-0DA20	1	045	0.099
	4P rccb Connection Kit				8GP1 886-0DA10	1	045	0.278
Distribution Board expansion Unit ***								
	12 way Add-on 125A TP&N Distribution Board				8GP1 937-2DA50	1	045	15.03
	125A Vertical Connection Kit (for the above)				8GP1 981-2DA10	1	045	0.530

*** For use with 125A 16, 20 & 24 way TP&N Distribution Boards only

Selection and ordering data

Features:

- Integral incoming metering available as standard
- Add on metering option available
- Horizontal lighting & power metering available
- MID meter kits for billing purposes available
- Internal diameter of each ct is 21 mm



1

	Type	External Dimensions H x W x D (mm)	Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)	
	Integral Meter Pack*							
		125A ct op. 3ph 4w Energy Meter Pack - Std	8GP1 921-2DA80		1	045	2.27	
		125A ct op. 3ph 4w Energy Meter Pack - MID	8GP1 991-2DA80		1	045	1.69	
	Contains: Digital meter offering Amps, Volts, kWh readout plus pulsed output. 3 ct's, fuses & cable loom (the latter supplied loose for connection by others)							
	* Not recommended for use with incomers mtd in the lower incomer position i.e. rccb incomer, 4P Sw Disconnectors or 5TT8 814 TP Switch Disconnecter.							
	Add-on Meter Pack in Enclosure							
		125A ct op. 3ph 4w Energy Meter Pack - Std	8GP1 990-2DA10		1	045	6.21	
		125A ct op. 3ph 4w Energy Meter Pack - MID	8GP1 991-2DA10		1	045	6.21	
	Dims: 245 430 155 Contains: Digital meter offering Amps, Volts, kWh readout plus pulsed output. 3x125A ct's, fuses & associated cable loom							
	Horizontal Lighting & Power Board Metering							
		125A ct op. Twin 3ph 4w Energy Meter Pack -Std	8GP1 992-2DA10		1	045		
		125A ct op. Twin 3ph 4w Energy Meter Pack -MID	8GP1 993-2DA10		1	045		
	Dims: 410 860 155 Contains: Common 125A TP Sw Disconnecter, 2 Digital meters offering Amps, Volts, kWh readout plus pulsed output. 125A ct's, fuses & associated cable loom							
	Common Add-on Enclosures for 125A & 200A Distribution Boards							
	Modular Device Extension Boxes							
		1 row x 18 mod wide Extension Box (245mmH)	8GP1 901-0DA10		1	045	6.56	
		2 row x 18 mod wide Extension Box (410mmH)	8GP1 902-0DA10		1	045	8.23	
		3 row x 18 mod wide Extension Box (570mmH)	8GP1 903-0DA10		1	045	11.07	
		4 row x 18 mod wide Extension Box (735mmH)	8GP1 904-0DA10		1	045	12.70	
		5 row x 18 mod wide Extension Box (815mmH)	8GP1 905-0DA10		1	045	14.40	
	Contains: Main Neutral & Earth Bars, along with the provision for additional 'mini' Neutral & Earth Bars.							
			Service Centre - 18 mod	8GP1 995-0DA13		1	045	4.10
			Service Centre - 36 mod	8GP1 995-0DA14		1	045	4.10
		Cable Spreader Box (245mmH)	8GP1 910-0DA10		1	045	4.50	

ALPHA BS II

Distribution Boards

200A Type B Surface Mounting

Selection and ordering data

Features:

- Type Tested & ASTA certified to IEC 61439-2
- 16kA for 0.1 second short circuit rating
- 25kA conditional short circuit rating (Icc) to IEC 61439-2 when used with 5SY8 mcb's
- 250A rated busbar assembly
- Rated Voltage 230/400V 50/60Hz
- Integral meter reading facility
- Modular Construction
- 1mm Sheet Steel Enclosure
- Colour: Siemens light grey to RAL 7035
- Degree of Protection: IP3X
- Shrouded outgoing neutral terminals
- Top & Bottom entry via undrilled removable gland plates

	Type	External Dimensions H x W x D (mm)			Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
	200A rated Distribution Boards								
	4 way	769	430	155	8GP1 204-4DA54		1	045	13.0
	6 way	823	430	155	8GP1 206-4DA54		1	045	14.0
	8 way	877	430	155	8GP1 208-4DA54		1	045	15.7
	12 way	985	430	155	8GP1 212-4DA54		1	045	17.5
	16 way	1093	430	155	8GP1 216-4DA54		1	045	18.5
	20 way	1201	430	155	8GP1 220-4DA54		1	045	22.0
	24 way	1309	430	155	8GP1 224-4DA54		1	045	23.5
	Incoming Kits for the above								
	200A TP Switch Disconnecter c/w N Link				8GP1 643-4DA40		1	045	4.29
	200A TP mccb c/w N Link				8GP1 617-0DA41		1	045	4.29
	200A 4P Switch Disconnecter				8GP1 643-4DA50		1	045	5.20
	200A 4P mccb				8GP1 618-0DA51		1	045	5.20
250A Direct Connection Kit - 120mm ² cable				8GP1 867-0DA10		1	045	4.08	
	Distribution Board Extension Unit**								
	12 way Add-on 200A TP&N Distribution Board				8GP1 937-4DA50		1	045	10.4
	200A Vertical Connection Kit (for the above)				8GP1 981-4DA10		1	045	2.54
	** For use with 200A 16, 20 & 24 way TP&N Distribution Boards only								
	Integral Incoming Meter Packs - 120mm² max cable								
	250A ct op. 3ph 4w Energy Meter Pack - Std				8GP1933-0DA11		1	045	2.29
	250A ct op. 3ph 4w Energy Meter Pack - MID				8GP1933-0DA13		1	045	1.70
	Contains: Digital meter offering Amps, Volts, kWh readout plus pulsed output, ct's, fuses, & cable loom (the latter supplied loose for connection by others) Internal dia of ct's - 27.5mm								
	Integral Incoming Meter Packs - 185mm² max cable								
	250A ct op. 3ph 4w Energy Meter Pack - Std				8GP1933-0DA12		1	045	
	250A ct op. 3ph 4w Energy Meter Pack - MID				8GP1933-0DA14		1	045	
	Dims:	245	430	155					
	Contains: Cable Spreader Box, digital meter offering Amps, Volts, kWh readout, plus pulsed output, ct's, fuses, & cable loom (the latter supplied loose for connection by others) Internal dia of ct's - 45mm								

Pan assembly Technical Data:

- Type Tested & ASTA Certified to IEC 61439-2
- Rated voltage 230/400V 50/60Hz
- 16kA for 0.1 second short circuit rating
- 25kA Conditional short circuit rating (Icc) to IEC 61439-2 when used with 5SY8 mcb's

Outgoing ways	External Dimensions H x W x D (mm)	Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
Add-on Meter Pack in Enclosure						
	200A ct op. 3ph 4w Energy Meter Pack - Std	8GP1 990-4DA10		1	045	
	200A ct op. 3ph 4w Energy Meter Pack - MID	8GP1 991-4DA10		1	045	
	Dims: 245 430 155					
Contains: Digital meter offering Amps, Volts, kWh readout plus pulsed output. 3 ct's, fuses & associated wiring Internal dia of ct's - 21mm						
Horizontal Lighting & Power Board Metering						
	200A ct op. Twin 3ph 4w Energy Meter Pack - Std	8GP1 992-4DA10		1	045	
	200A ct op. Twin 3ph 4w Energy Meter Pack - MID	8GP1 993-4DA10		1	045	
	Dims: 735 860 155					
Contains: Common 200A TP Sw Disconnecter, 2 Digital meters offering Amps, Volts, kWh readout plus pulsed output. ct's, fuses & associated cable loom						
250A Pan Assemblies						
Fault Rating: 25kA Conditional (Icc).						
	4 way	154 224	8GP1 940-4DA41	1	045	0.85
	8 way	262 224	8GP1 940-4DA43	1	045	1.70
	12 way	370 224	8GP1 940-4DA44	1	045	2.54
	16 way	478 224	8GP1 940-4DA45	1	045	3.38
	20 way	586 224	8GP1 940-4DA46	1	045	4.23
	24 way	694 224	8GP1 940-4DA47	1	045	5.09
Incoming Kits for the above						
	125A Direct Connection Kit (10 kA)	8GP1 855-0DA10		1	045	1.04
	200A TP Switch Disconnecter Kit	8GP1 933-0DA20		1	045	4.29
	200A TP mccb Kit	8GP1 933-0DA18		1	045	4.29
	250A Direct Connection Kit - 120mm ² cable	8GP1 933-0DA17		1	045	4.08

ALPHA BS II

Distribution Boards

Distribution Board Accessories

Selection and ordering data

1

	Type	External Dimensions H x W x D (mm)	Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
	mcb handle locking device		5ST3 806		1	027	0.007
	Padlock for above (2 keys supplied as std)		5ST3 802		1	027	0.031
	Door cylinder lock & key (IP3X)		8GP1 960-0DA10		1	045	0.02
	Door padlockable cylinder lock & key (IP3X)		8GP1 961-0DA10				
	Twist fit mcb door blank		8GP1 975-0DA10		1	045	0.006
	Blanking Strip 6x(1mod)		8GP1 970-0DA11		1	045	0.018
	Blanking Strip 12x(1mod)		8GP1 971-1DA11		1	045	0.036
	Blanking Strip 4x(3mod)		8GP1 972-0DA12		1	045	0.036
	Blanking Strip 2x(12mod)		8GP1 973-0DA15		1	045	0.072
	Busbar terminal insulator (9 per pack)		8GP1 974-0DA10		1	045	0.018
	Clean Earth kit (for TPN DB's only)*		8GP1 962-0DA10		1	045	0.188
	* 4 to 12 way - 1 kit req'd, 16 to 24 way - 2 kits req'd						
	Additional Earth Bar kits (4 way TPN)		8GP1 920-0DA41		1	045	0.123
	Additional Earth Bar kits (6 way TPN)		8GP1 920-0DA42		1	045	0.185
	Additional Earth Bar kits (8 way TPN)		8GP1 920-0DA43		1	045	0.247
	Additional Earth Bar kits (12 way TPN)		8GP1 920-0DA44		1	045	0.370
	Additional Earth Bar kits (16 way TPN)		8GP1 920-0DA45		1	045	0.494
	Additional Earth Bar kits (20 way TPN)		8GP1 920-0DA46		1	045	0.620
	Additional Earth Bar kits (24 way TPN)		8GP1 920-0DA47		1	045	0.741
Cable Clamp assembly		8GP1 976-0DA16		1	045		
	DIN rail mtd Earth Bar - 7x10mm ² Terminals		8GP1 930-0DA47		1	045	0.035
	DIN rail mtd Earth Bar - 12x10mm ² Terminals		8GP1 931-0DA47		1	045	0.048
	DIN rail mtd Earth Bar - 15x10mm ² Terminals		8GP1 932-0DA47		1	045	0.067
	DIN rail mtd Neutral Bar - 7x10mm ² Terminals		8GP1 933-0DA47		1	045	0.035
	DIN rail mtd Neutral Bar - 12x10mm ² Terminals		8GP1 934-0DA47		1	045	0.048
	DIN rail mtd Neutral Bar - 15x10mm ² Terminals		8GP1 935-0DA47		1	045	0.067

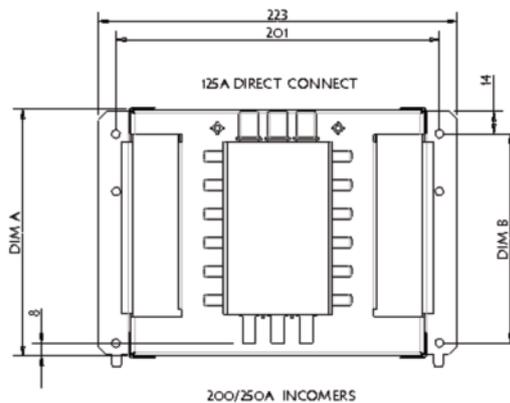
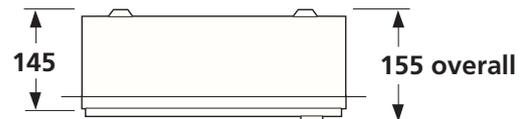
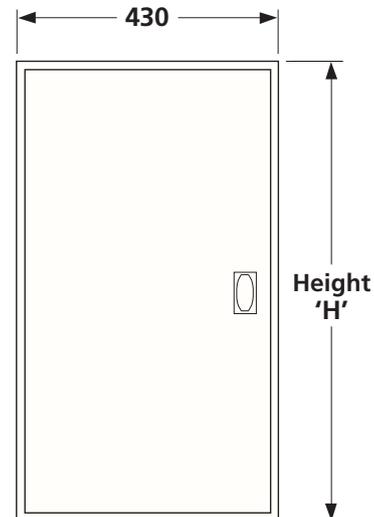
Type B and Row Distribution boards

125A		200A	
Order No.	H	Order No.	H
8GP1 204-2DA54	490	8GP1 204-4DA54	769
8GP1 206-2DA54	570	8GP1 206-4DA54	823
8GP1 208-2DA54	650	8GP1 208-4DA54	877
8GP1 212-2DA54	815	8GP1 212-4DA54	985
8GP1 216-2DA54	895	8GP1 216-4DA54	1093
8GP1 220-2DA54	1000	8GP1 220-4DA54	1201
8GP1 224-2DA54	1140	8GP1 224-4DA54	1309
8GP1 937-2DA50	675	8GP1 937-4DA50	675

DIN Rail Only Enclosure		Row Boards	
Order No.	H	Order No.	H
8GP1 995-0DA14	245	8GP1 901-0DA10	245
8GP1 995-0DA13	410	8GP1 902-0DA10	410
		8GP1 903-0DA10	570
		8GP1 904-0DA10	735
		8GP1 905-0DA10	815

250A TP Pan Assemblies

Order No.	A	B
8GP1 940-4DA41	154	130
8GP1 940-4DA43	262	238
8GP1 940-4DA44	370	346
8GP1 940-4DA45	474	545
8GP1 940-4DA46	586	562
8GP1 940-4DA47	694	670



Pan assembly incoming kits mount as detailed above
Spare phase identity labels allow the pan to be used either way up

Miniature Circuit Breakers

mcb's - 6kA rated

Selection and ordering data

Features:

- Standards: EN 60898
- Rated Voltage: 230/400V AC 50/60Hz
- Degree of Protection: IP20
- Solid/stranded conductor csa: $\leq 25\text{mm}^2$
- Current & Energy Limiting
- Contact position indication
- Mains connection top or bottom
- Top or bottom busbar connections
- Quick fasten & release system



Rating I_n A	5SY6, 6kA Characteristic B Order No.	5SY6, 6kA Characteristic C Order No.	5SY4, 10kA Characteristic D Order No.	List Price	Pack Unit	Price Group	Weight 1 item (kg)
1 pole							
6	5SY6 106-6	5SY6 106-7	5SY4 106-8		12	001	0.165
10	5SY6 110-6	5SY6 110-7	5SY4 110-8		12	001	0.165
16	5SY6 116-6	5SY6 116-7	5SY4 116-8		12	001	0.165
20	5SY6 120-6	5SY6 120-7	5SY4 120-8		12	001	0.165
25	5SY6 125-6	5SY6 125-7	5SY4 125-8		12	001	0.165
32	5SY6 132-6	5SY6 132-7	5SY4 132-8		12	001	0.165
40	5SY6 140-6	5SY6 140-7	5SY4 140-8		12	001	0.165
50	5SY6 150-6	5SY6 150-7	5SY4 150-8		12	001	0.165
63	5SY6 163-6	5SY6 163-7	5SY4 163-8		12	001	0.165



3 pole							
6	5SY6 306-6	5SY6 306-7	5SY4 306-8		4	001	0.495
10	5SY6 310-6	5SY6 310-7	5SY4 310-8		4	001	0.495
16	5SY6 316-6	5SY6 316-7	5SY4 316-8		4	001	0.495
20	5SY6 320-6	5SY6 320-7	5SY4 320-8		4	001	0.495
25	5SY6 325-6	5SY6 325-7	5SY4 325-8		4	001	0.495
32	5SY6 332-6	5SY6 332-7	5SY4 332-8		4	001	0.495
40	5SY6 340-6	5SY6 340-7	5SY4 340-8		4	001	0.495
50	5SY6 350-6	5SY6 350-7	5SY4 350-8		4	001	0.495
63	5SY6 363-6	5SY6 363-7	5SY4 363-8		4	001	0.495

Note:

1. For additional ratings and combinations of mcb's please refer to the additional technical catalogues located in the DVD-Rom situated in the inside back cover of this catalogue.

Features:

- Standards: EN 60898
- Rated Voltage: 230/400V AC 50/60Hz
- Degree of Protection: IP20
- Solid/stranded conductor csa: ≤25mm²
- Current & Energy Limiting
- Contact position indication
- Current ratings up to 80A for b & c char's
- Mains connection top or bottom
- Top or bottom busbar connections
- Quick fasten & release system

1



Rating I _n A	5SY4, 10kA Characteristic B Order No.	5SY4, 10kA Characteristic C Order No.	5SY4, 10kA Characteristic D Order No.	List Price	Pack Unit	Price Group	Weight 1 item (kg)
1 pole							
6	5SY4 106-6	5SY4 106-7	5SY4 106-8		12	002	0.165
10	5SY4 110-6	5SY4 110-7	5SY4 110-8		12	002	0.165
16	5SY4 116-6	5SY4 116-7	5SY4 116-8		12	002	0.165
20	5SY4 120-6	5SY4 120-7	5SY4 120-8		12	002	0.165
25	5SY4 125-6	5SY4 125-7	5SY4 125-8		12	002	0.165
32	5SY4 132-6	5SY4 132-7	5SY4 132-8		12	002	0.165
40	5SY4 140-6	5SY4 140-7	5SY4 140-8		12	002	0.165
50	5SY4 150-6	5SY4 150-7	5SY4 150-8		12	002	0.165
63	5SY4 163-6	5SY4 163-7	5SY4 163-8		12	002	0.165
80	5SY4 180-6*	5SY4 180-7*	-		12	002	0.165
* 125A Distribution Boards only: To satisfy BS EN 60439-3 Type Test requirements a Siemens 5TT8 813 TP On/Off Switch or 5TT8 815 (4P On/Off Switch shall be used in place of the standard incomer.)							



3 pole							
6	5SY4 306-6	5SY4 306-7	5SY4 306-8		4	002	0.495
10	5SY4 310-6	5SY4 310-7	5SY4 310-8		4	002	0.495
16	5SY4 316-6	5SY4 316-7	5SY4 316-8		4	002	0.495
20	5SY4 320-6	5SY4 320-7	5SY4 320-8		4	002	0.495
25	5SY4 325-6	5SY4 325-7	5SY4 325-8		4	002	0.495
32	5SY4 332-6	5SY4 332-7	5SY4 332-8		4	002	0.495
40	5SY4 340-6	5SY4 340-7	5SY4 340-8		4	002	0.495
50	5SY4 350-6	5SY4 350-7	5SY4 350-8		4	002	0.495
63	5SY4 363-6	5SY4 363-7	5SY4 363-8		4	002	0.495
80	5SY4 380-6**	5SY4 380-7**	-		4	002	0.495
** 125A Distribution Boards only: To satisfy BS EN 60439-3 Type Test requirements a Siemens 5TT8 813 TP On/Off Switch or 5TT8 815 (4P On/Off Switch shall be used in place of the standard incomer.)							

Miniature Circuit Breakers

mcb's - 15kA rated

Selection and ordering data

Features:

- Standards: EN 60898
- Rated Voltage: 230/400V AC 50/60Hz
- Degree of Protection: IP20
- Solid/stranded conductor csa: $\leq 25\text{mm}^2$
- Current & Energy Limiting
- Contact position indication
- Mains connection top or bottom
- Top or bottom busbar connections
- Quick fasten & release system



Rating I_n A	5SY7, 15kA Characteristic B Order No.	5SY7, 15kA Characteristic C Order No.	5SY7, 15kA Characteristic D Order No.	List Price	Pack Unit	Price Group	Weight 1 item (kg)
1 pole							
6	5SY7 106-6	5SY7 106-7	5SY7 106-8		12	003	0.165
10	5SY7 110-6	5SY7 110-7	5SY7 110-8		12	003	0.165
16	5SY7 116-6	5SY7 116-7	5SY7 116-8		12	003	0.165
20	5SY7 120-6	5SY7 120-7	5SY7 120-8		12	003	0.165
25	5SY7 125-6	5SY7 125-7	5SY7 125-8		12	003	0.165
32	5SY7 132-6	5SY7 132-7	5SY7 132-8		12	003	0.165
40	5SY7 140-6	5SY7 140-7	5SY7 140-8		12	003	0.165
50	5SY7 150-6	5SY7 150-7	5SY7 150-8		12	003	0.165
63	5SY7 163-6	5SY7 163-7	5SY7 163-8		12	003	0.165



3 pole							
6	5SY7 306-6	5SY7 306-7	5SY7 306-8		4	003	0.495
10	5SY7 310-6	5SY7 310-7	5SY7 310-8		4	003	0.495
16	5SY7 316-6	5SY7 316-7	5SY7 316-8		4	003	0.495
20	5SY7 320-6	5SY7 320-7	5SY7 320-8		4	003	0.495
25	5SY7 325-6	5SY7 325-7	5SY7 325-8		4	003	0.495
32	5SY7 332-6	5SY7 332-7	5SY7 332-8		4	003	0.495
40	5SY7 340-6	5SY7 340-7	5SY7 340-8		4	003	0.495
50	5SY7 350-6	5SY7 350-7	5SY7 350-8		4	003	0.495
63	5SY7 363-6	5SY7 363-7	5SY7 363-8		4	003	0.495

Note:

1. For additional ratings and combinations of mcb's please refer to the additional technical catalogues located in the DVD-Rom situated in the inside back cover of this catalogue.

Selection and ordering data

Features:

- Standards: EN 60947-2
- Rated Voltage: 230/400V AC 50/60Hz
- Degree of Protection: IP20
- Solid/stranded conductor csa: $\leq 25\text{mm}^2$
- Current & Energy Limiting
- Contact position indication
- Mains connection top or bottom
- Top or bottom busbar connections
- Quick fasten & release system

1



Rating I_n A	5SY8, 25kA Characteristic B Order No.	5SY8, 25kA Characteristic C Order No.	5SY8, 25kA Characteristic D Order No.	List Price	Pack Unit	Price Group	Weight 1 item (kg)
1 pole							
6	-	5SY8 106-7	5SY8 106-8		12	003	0.165
10	-	5SY8 110-7	5SY8 110-8		12	003	0.165
16	-	5SY8 116-7	5SY8 116-8		12	003	0.165
20	-	5SY8 120-7	5SY8 120-8		12	003	0.165
25	-	5SY8 125-7	5SY8 125-8		12	003	0.165
32	-	5SY8 132-7	5SY8 132-8		12	003	0.165
40	-	5SY8 140-7	5SY8 140-8		12	003	0.165
50	-	5SY8 150-7	5SY8 150-8		12	003	0.165
63	-	5SY8 163-7	5SY8 163-8		12	003	0.165



3 pole							
6	-	5SY8 306-7	5SY8 306-8		4	003	0.495
10	-	5SY8 310-7	5SY8 310-8		4	003	0.495
16	-	5SY8 316-7	5SY8 316-8		4	003	0.495
20	-	5SY8 320-7	5SY8 320-8		4	003	0.495
25	-	5SY8 325-7	5SY8 325-8		4	003	0.495
32	-	5SY8 332-7	5SY8 332-8		4	003	0.495
40	-	5SY8 340-7	5SY8 340-8		4	003	0.495
50	-	5SY8 350-7	5SY8 350-8		4	003	0.495
63	-	5SY8 363-7	5SY8 363-8		4	003	0.495

Residual Current Protective Devices

Type AC voltage dependant rcbo's - 6kA rated

Selection and ordering data

Features:

- 6kA rated short circuit capacity
- Type AC devices
- 6 - 63A rated
- B & C characteristics
- Standards: IEC/EN 61009-1, IEC/EN 61009-2-1
- Space saving 1+N one-module device (solid neutral) with flying lead
- U_{ni} : 230V, 50-60Hz
- 10, 30 & 100mA sensitivity
- Solid/stranded conductor csa: $\leq 16\text{mm}^2$
- Contact position indication

Rating I_n A	Characteristic B Order No.	Characteristic C Order No.	List Price	Pack Unit	Price Group	Weight 1 item (kg)
Single module rcbo's - 10mA sensitivity						
10	-	5SU9 106-1KK10		1	004	0.260
16	-	5SU9 106-1KK16		1	004	0.260
20	-	5SU9 106-1KK20		1	004	0.260
32	-	5SU9 106-1KK32		1	004	0.260
40	-	5SU9 106-1KK40		1	004	0.260
45	-	5SU9 106-1KK45		1	004	0.260
Single module rcbo's - 30mA sensitivity						
6	-	5SU9 306-1KK06		1	004	0.260
10	5SU9 306-0KK10	5SU9 306-1KK10		1	004	0.260
16	5SU9 306-0KK16	5SU9 306-1KK16		1	004	0.260
20	5SU9 306-0KK20	5SU9 306-1KK20		1	004	0.260
25	5SU9 306-0KK25	5SU9 306-1KK25		1	004	0.260
32	5SU9 306-0KK32	5SU9 306-1KK32		1	004	0.260
40	5SU9 306-0KK40	5SU9 306-1KK40		1	004	0.260
45	-	5SU9 306-1KK45		1	004	0.260
63	-	5SU9 356-1KK63				
Single module rcbo's - 100mA sensitivity						
6	-	5SU9 406-1KK06		1	004	0.260
10	5SU9 406-0KK10	5SU9 406-1KK10		1	004	0.260
16	5SU9 406-0KK16	5SU9 406-1KK16		1	004	0.260
20	5SU9 406-0KK20	5SU9 406-1KK20		1	004	0.260
25	5SU9 406-0KK25	5SU9 406-1KK25		1	004	0.260
32	5SU9 406-0KK32	5SU9 406-1KK32		1	004	0.260
40	5SU9 406-0KK40	5SU9 406-1KK40		1	004	0.260



Note:

1. For information on additional devices please refer to the technical catalogues located in the DVD-Rom situated in the inside back cover of this catalogue.

Features:

- 10kA rated short circuit capacity
- Type AC devices
- 6 - 45A rated
- B & C characteristics
- Standards: IEC/EN 61009-1, IEC/EN 61009-2-1
- Space saving 1+N one-module device (solid neutral) with flying lead
- U_n : 230V, 50-60Hz
- 10, 30, 100 & 300mA sensitivity
- Solid/stranded conductor csa: $\leq 16\text{mm}^2$
- Contact position indication

Rating I_n A	Characteristic B Order No.	Characteristic C Order No.	List Price	Pack Unit	Price Group	Weight 1 item (kg)
Single module rcbo's - 10mA sensitivity						
10	-	5SU9 104-1KK10		1	004	0.260
16	-	5SU9 104-1KK16		1	004	0.260
20	-	5SU9 104-1KK20		1	004	0.260
25	-	5SU9 104-1KK25		1	004	0.260
32	-	5SU9 104-1KK32		1	004	0.260
40	-	5SU9 104-1KK40		1	004	0.260
45	-	5SU9 104-1KK45		1	004	0.260
Single module rcbo's - 30mA sensitivity						
6	-	5SU9 304-1KK06		1	004	0.260
10	5SU9 304-0KK10	5SU9 304-1KK10		1	004	0.260
16	5SU9 304-0KK16	5SU9 304-1KK16		1	004	0.260
20	5SU9 304-0KK20	5SU9 304-1KK20		1	004	0.260
25	5SU9 304-0KK25	5SU9 304-1KK25		1	004	0.260
32	5SU9 304-0KK32	5SU9 304-1KK32		1	004	0.260
40	5SU9 304-0KK40	5SU9 304-1KK40		1	004	0.260
45	-	5SU9 304-1KK45		1	004	0.260
Single module rcbo's - 100mA sensitivity						
6	-	5SU9 404-1KK06		1	004	0.260
10	5SU9 404-0KK10	5SU9 404-1KK10		1	004	0.260
16	5SU9 404-0KK16	5SU9 404-1KK16		1	004	0.260
20	5SU9 404-0KK20	5SU9 404-1KK20		1	004	0.260
25	5SU9 404-0KK25	5SU9 404-1KK25		1	004	0.260
32	5SU9 404-0KK32	5SU9 404-1KK32		1	004	0.260
40	5SU9 404-0KK40	5SU9 404-1KK40		1	004	0.260
Single module rcbo's - 300mA sensitivity						
6	-	5SU9 604-1KK06		1	004	0.260
10	-	5SU9 604-1KK10		1	004	0.260
16	-	5SU9 604-1KK16		1	004	0.260
20	-	5SU9 604-1KK20		1	004	0.260
25	-	5SU9 604-1KK25		1	004	0.260
32	-	5SU9 604-1KK32		1	004	0.260
40	-	5SU9 604-1KK40		1	004	0.260



ALPHA BS III Panelboards

Introduction

Overview

		Surface Mounting Panelboard	Rated Current	Fault Level	Cubicle Depth mm	Degree of Protection
ALPHA BS III 125 Panelboard	Cubicle, partially equipped	Y	250A	I _{cc} = 25kA	164	IP3X
		Y	400A	I _{cw} = 25kA, 1s	164	IP3X
ALPHA BS III 250 Panelboard	Cubicle, partially equipped	Y	400A	I _{cw} = 35kA, 1s	250	IP3X
		Y	630A	I _{cw} = 50kA, 1s	250	IP3X

System

The modular design of the Siemens panelboard system draws on long years of experience in the low voltage distribution sector. This system has been tailored to meet the latest standards and legislation for today's panelboard installations.

The new ALPHA BS III panelboard system is designed and manufactured in the UK to the latest national and international standards.

Benefits

- Incoming Switching Unit fitted as standard
- Incoming integral meter facility available as standard
- Incoming Overvoltage Protection facility available as standard
- Outgoing metering facility available as standard

Application

The Siemens ALPHA BS III wall/floor mounted panelboard system is suitable for installation in any commercial or industrial type of building offering the Customer both protection and control to the latest international standards and legislation as a main or sub distribution solution.

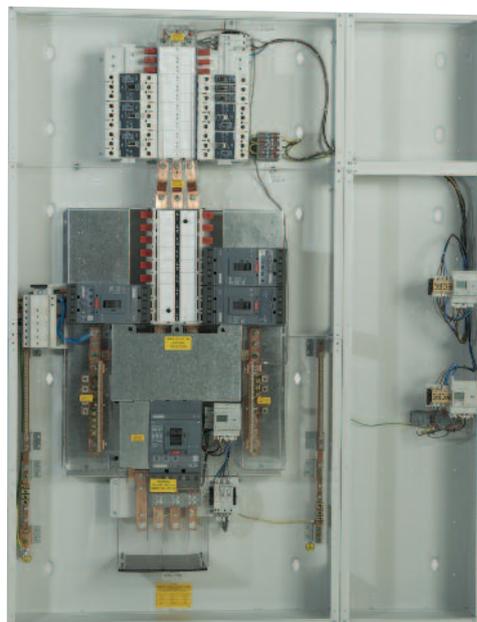
Typical applications might include:

- Hotels & hospitals
- Major retail outlets
- Schools & universities
- Football grounds & leisure complexes
- Offices & airports

Enclosures

- Material: powder-coated sheetsteel
- Sheet thickness: body 1.6mm, front shield & door 1.2mm
- Degree of protection: IP3X
- Colour: RAL 7035 Light Grey

- Form 3b type 2 construction
- Generous incoming cabling space
- Designed and manufactured in the UK
- RoHS compliant
- Flexible expansion with a wide range of add-on extension units and accessories





Introduction

ALPHA BS III 125 Panelboard System

- 2.1 250A rated Panelboard
- 2.2 400A rated Panelboard
- 2.3 Integral & Outgoing Meter Kits
- 2.4 Add-on Extension Units
- 2.5 Dimensions & Configuration Options

ALPHA BS III 250 Panelboard System

- 2.7 400A rated Panelboard
- 2.8 630A rated Panelboard
- 2.9 Integral & Outgoing Meter Kits
- 2.10 Add-on Extension Units
- 2.11 Dimensions & Configuration Options

Moulded Case Circuit Breakers

- 2.13 NGG 125A Moulded Case Circuit Breakers
- 2.14 3VT2 250A Moulded Case Circuit Breakers

Technical Information

Can be found in the DVD located in the inside back cover of the catalogue.

ALPHA BS III 125

Panelboards

250A Busbar System

Selection and ordering data

Technical data:

- 250A & 400A rated Panelboards
- 25kA Fault rated
- Type Tested & ASTA Certified to IEC 61439-2
- Rated Voltage 230V/400V 3ph 50Hz
- Form 3b type 2 construction
- Up to 18 outgoing TP ways (16+2)
- Degree of Protection: IP3X
- Light grey paint finish: RAL7035

Features:

- User defined Incomer fitted as standard
- Integral Incoming Meter facility available as std
- Integral Lightning/ Surge Arrester available as std
- RoHS Compliant

2

	NGG Outgoing Ways	External Dimensions H x W x D (mm)			Modular Height	Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
	250A Panelboard c/w TP Incoming Switching Unit*									
	Fault Rating: 25kA Conditional (Icc). Max 150mm ² 4c incoming Cu cable									
	6 way	912	630	164	12	8GP1 506-1DA00		1	048	32.0
	8 way	988	630	164	13	8GP1 508-1DA00		1	048	40.0
	12 way	1140	630	164	15	8GP1 512-1DA00		1	048	42.1
	16 way	1292	630	164	17	8GP1 516-1DA00		1	048	49.0
	* The switching unit must be fitted with either an Overcurrent Release or Switch Disconnecter module									
	Incomer Overcurrent Release & Switch Disconnecter Modules									
	160A	63A - 160A Overcurrent Release				3VT9 216-6AC00		1	193	0.284
	250A	100A - 250A Overcurrent Release				3VT9 225-6AC00		1	193	0.284
	250A	250A Switch Disconnecter module				3VT9 225-6DT00		1	193	0.219
	250A TP&N Direct Connect Incomer									
	Fault Rating: 25kA Conditional (Icc). M8 Connection on 25mm wide copper									
	6 way	912	630	164	12	8GP1 506-1DA02		1	048	24.5
	8 way	988	630	164	13	8GP1 508-1DA02		1	048	32.5
	12 way	1140	630	164	15	8GP1 512-1DA02		1	048	34.0
	16 way	1292	630	164	17	8GP1 516-1DA02		1	048	41.5
	NGG Door Blank									
		SP Door Blank with busbar insulator				8GP1 914-0DA00		1	048	0.01
	Terminal extensions for TP incomers (1 per pole required)									
			Max cable csa		Cable Conn Type					
	Box Terminal		16...150mm ²		Cu/Al	3VT9 200-4TC00		1	193	0.320
	Terminals for circular conductors		25...150mm ²		Cu/Al	3VT9 215-4TD00		1	193	0.280
			150...240mm ²		Cu/Al	3VT9 224-4TD00		1	193	0.280
			2x25...150mm ²		Cu/Al	3VT9 215-4TF00		1	193	0.680
			2x150...240mm ²		Cu/Al	3VT9 224-4TF00		1	193	0.680
			6x6...35mm ²		Cu/Al	3VT9 203-4TF00		1	193	0.100
	Front connection bars for increased spacing									
	50mm centres		-		Cu/Al	3VT9 200-4ED30		1	193	0.490
	70mm centres		-		Cu/Al	3VT9 200-4EE30		1	193	0.628

Selection and ordering data

2

	NGG Outgoing Ways	External Dimensions H x W x D (mm)			Modular Height	Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
	400A Panelboard c/w TP Incoming Switching Unit*									
	Fault Rating: 25kA, 1 sec. Max cable lug connection: 32mm wide									
	6 way	1064	630	164	14	8GP1 506-2DA00		1	048	46.0
	8 way	1140	630	164	15	8GP1 508-2DA00		1	048	53.0
	12 way	1292	630	164	17	8GP1 512-2DA00		1	048	56.1
	16 way	1444	630	164	19	8GP1 516-2DA00		1	048	62.0
* The switching unit must be fitted with either an Overcurrent Release or Switch Disconnector module										
Incomer Overcurrent Release & Switch Disconnector Modules										
	250A	100A - 250A Overcurrent Release				3VT9 325-6AC00		1	193	0.261
	400A	160A - 400A Overcurrent Release				3VT9 340-6AC00		1	193	0.318
	400A	Switch Disconnector module				3VT9 363-6DT00		1	193	0.252
	400A TP&N Direct Connect Incomer									
	Fault Rating: 25kA, 1 sec. M10 Connection on 30mm wide copper									
	6 way	1064	630	164	14	8GP1 506-2DA02		1	048	38.5
	8 way	1140	630	164	15	8GP1 508-2DA02		1	048	45.5
	12 way	1292	630	164	17	8GP1 512-2DA02		1	048	48.7
	16 way	1444	630	164	19	8GP1 516-2DA02		1	048	54.5
	NGG Door Blank									
		SP Door Blank with busbar insulator				8GP1 914-0DA00		1	048	0.01
Terminal extensions for TP incomers (1 per pole required)										
	Box Terminal	Max cable csa			Cable Conn Type					
		35...240mm ²			Cu/Al	3VT9 300-4TC00		1	193	0.580
	Terminals for circular conductors	25...150mm ²			Cu/Al	3VT9 315-4TD00		1	193	0.400
		150...240mm ²			Cu/Al	3VT9 324-4TD00		1	193	0.370
		2x25...150mm ²			Cu/Al	3VT9 315-4TF00		1	193	0.500
		2x150...240mm ²			Cu/Al	3VT9 324-4TF00		1	193	0.960
		6x6...35mm ²			Cu/Al	3VT9 303-4TF00		1	193	0.500
	Front connection bars for increased spacing									
	50mm centres	-			Cu/Al	3VT9 300-4ED30		1	193	0.490
	70mm centres	-			Cu/Al	3VT9 300-4EE30		1	193	0.628

ALPHA BS III 125

Panelboards

Integral & Outgoing Meter Kits

Selection and ordering data



Application

Integral meter ct internal dims info:

- 250A - 21mmWx25mmH slot
- 250A MID - 28mm dia
- 400A Std & MID - 31mmWx36mmH slot

Outgoing meter ct internal dims info:

- 63A & 125A - 16mmWx31mmH slot
- 125A MID - 21mm dia
- Rated Voltage: 400V 3ph 50Hz 4w

2

Rating Amps	External Dimensions H x W x D (mm)			Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
Integral Incoming Meter Kits								
250A	3ph 4w CT Operated Energy Meter			8GP1 921-4DA70		1	048	2.35
400A	3ph 4w CT Operated Energy Meter			8GP1 921-6DA70		1	048	2.35
Integral Incoming MID Meter Kits								
250A	3ph 4w CT Operated MID Energy Meter			8GP1 991-4DA70		1	048	2.16
400A	3ph 4w CT Operated MID Energy Meter			8GP1 991-6DA70		1	048	2.30
Contains: Digital meter offering amps, volts, kWh readout plus pulsed output, ct or (3 ct's-MID), fuses, mounting plates & cable looms. The latter supplied loose for connection by others								
Integral Overvoltage Protection Kits								
Combination Lightning & Surge Arrester Kit, types 1 & 2				8GP1 914-ODA14		1	048	3.5
Lightning Arrester Kit, type 1				8GP1 914-ODA15		1	048	4.75
Surge Arrester Kit, type 2				8GP1 914-ODA16		1	048	4.75
Contains: Lightning, Surge or Combination Arrester, mccb, mounting plate & cable loom. The latter supplied loose for connection by others. Please note: Only one of the integral Lightning/Surge Arrester options is possible per panelboard with mccb mounted in bottom right hand position.								
Outgoing Meter Kits *								
63A	3ph 4w CT Operated Energy Meter			8GP1 923-ODA70		1	048	2.00
125A	3ph 4w CT Operated Energy Meter			8GP1 925-2DA70		1	048	2.00
Outgoing MID Meter Kits *								
125A	3ph 4w CT Operated MID Energy Meter			8GP1 918-2DA70		1	048	1.68
Contains: Digital meter offering amps, volts, kWh readout plus pulsed output, ct or (3 ct's-MID), fuses, terminals, mounting plates & cable looms. The latter supplied loose for connection by others								
* Each bank of Outgoing Meter Kits require a:								
Meter Pack Voltage Supply Cable Loom				8GP1 925-ODA10		1	048	
Cableways (with meter knock-outs)								
				available k/o's				
3 mod	228	250	180	-	8GP1 914-ODA07	1	048	4.0
12 mod	912	250	180	6	8GP1 914-ODA34	1	048	10.5
13 mod	988	250	180	6	8GP1 914-ODA08	1	048	11.5
14 mod	1064	250	180	6	8GP1 914-ODA10	1	048	12.0
15 mod	1140	250	180	6	8GP1 914-ODA13	1	048	13.0
17 mod	1292	250	180	8	8GP1 914-ODA20	1	048	14.0
19 mod	1444	250	180	9	8GP1 914-ODA23	1	048	17.0

Selection and ordering data

Features:

- Fully rated 2 way TP NGG Extension Unit
- Meters suitable for balanced or unbalanced loads
- Rated Voltage: 400V 3ph 50Hz 4w
- Full or half doors options available

Application

- Add-on 2 way 125A TP Extension Unit
- Add-on meter pack
- Add-on SPN or TPN distribution boards
- Add-on Cable Spreader Boxes

	Type	External Dimensions H x W x D (mm)			Modular Height	Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
	Add-on 250A/400A Extension Unit Fault Rating: 25kA for 1 sec									
	2 way	228	630	164	3	8GP1 914-ODA32		1	048	9.75
	Add-on Meter Pack									
	250A	228	630	164	3	8GP1 914-ODA02		1	048	8.5
	400A	228	630	164	3	8GP1 914-ODA03		1	048	8.25
	Contains: Separate enclosure, digital meter offering amps, volts, kWh readout plus pulsed output, 3 ct's, fuses, mounting plates & cable looms. The latter supplied loose for connection by others Internal dia of both 250A & 400A ct's - 41mm									
	Add-on Distribution Board 100A SPN Distribution Board									
	19 way	228	630	164	3	8GP1 914-ODA17		1	048	7.5
	80A TPN Distribution Board									
	6 way	228	630	164	3	8GP1 914-ODA35		1	048	8.0
	Add-on Control Module Enclosure 24 module Control Module Enclosure									
		228	630	164	3	8GP1 914-ODA05		1	048	6.5
	Add-on Cable Spreader Box Cable Spreader Box									
		228	630	164	3	8GP1 914-ODA06		1	048	6.0
	Door Kits (29mm deep)									
	3 mod	Add-on Extension Units				8GP1 914-ODA26		1	048	2.0
	5 mod	Half door - 6 way				8GP1 914-ODA27		1	048	3.5
	6 mod	Half door - 8 way				8GP1 914-ODA33		1	048	4.0
	7 mod	Half door - 250A Incomer				8GP1 914-ODA36		1	048	4.5
	8 mod	Half door - 12 way				8GP1 914-ODA21		1	048	5.5
	9 mod	Half door - 400A Incomer				8GP1 914-ODA22		1	048	6.0
	10 mod	Half door - 16 way				8GP1 914-ODA37		1	048	6.5
	12 mod	Full Door - 250A 6 way				8GP1 914-ODA24		1	048	7.5
	13 mod	Full Door - 250A 8 way				8GP1 914-ODA38		1	048	8.0
	14 mod	Full Door - 400A 6 way				8GP1 914-ODA40		1	048	8.5
	15 mod	Full Door - 250A 12 way/400A 8 way				8GP1 914-ODA25		1	048	9.5
	Door Cylinder Lock					8GP1 961-ODA10		1	045	0.045

ALPHA BS III 125

Panelboards

Dimensional Drawings

2

Dimensions (mm)

Main Units 250A	H	W	D	Modules
6 way	912	630	164	12
8 way	988	630	164	13
12 way	1140	630	164	15
16 way	1292	630	164	17

Dimensions (mm)

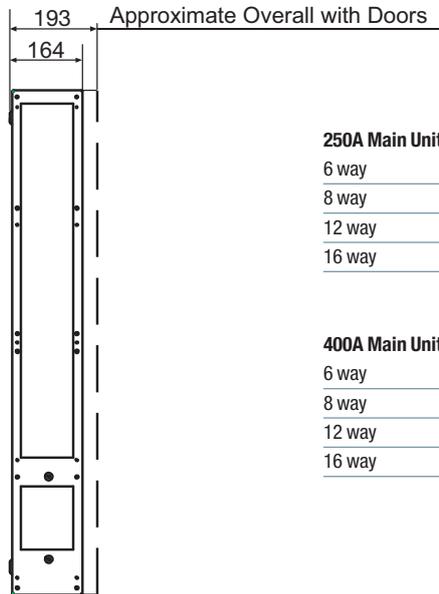
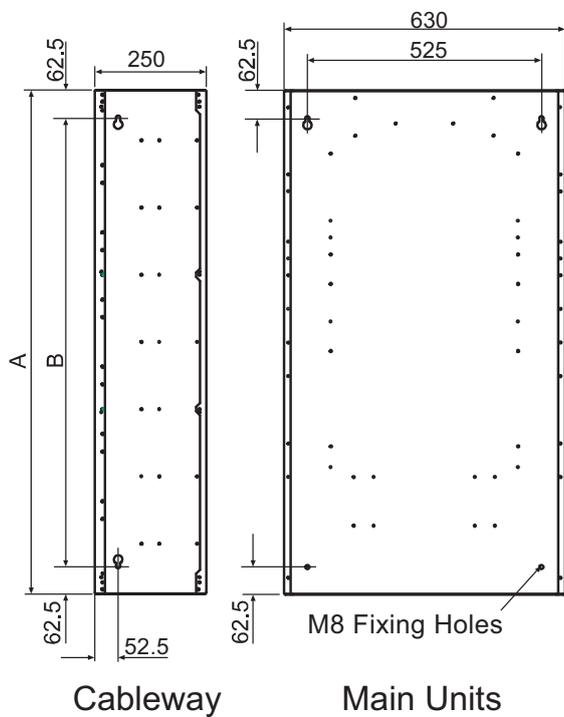
Main Units 400A	H	W	D	Modules
6 way	1064	630	164	14
8 way	1140	630	164	15
12 way	1292	630	164	17
16 way	1444	630	164	19

Cable Ways 250A

6 way	912	250	180	12
8 way	988	250	180	13
12 way	1140	250	180	15
16 way	1292	250	180	17

Cable Ways 400A

6 way	1064	250	180	14
8 way	1140	250	180	15
12 way	1292	250	180	17
16 way	1444	250	180	19

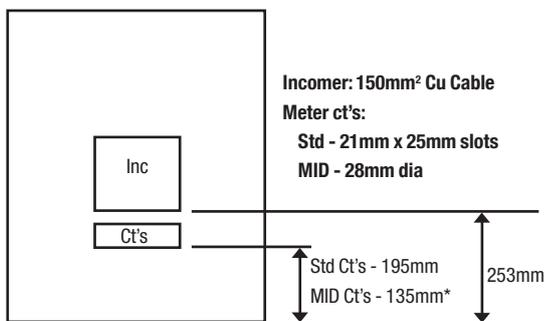


250A Main Units	A	B
6 way	912	787
8 way	988	863
12 way	1140	1015
16 way	1292	1167

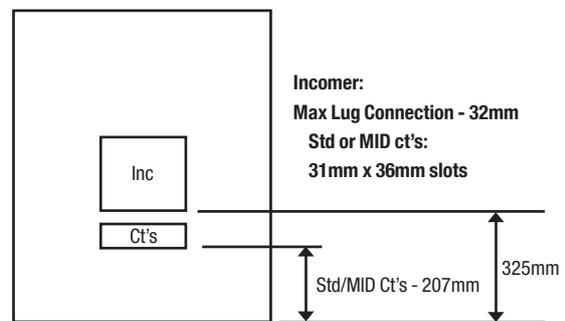
400A Main Units	A	B
6 way	1064	939
8 way	1140	1015
12 way	1292	1167
16 way	1444	1319

Available spreading room for incoming cables

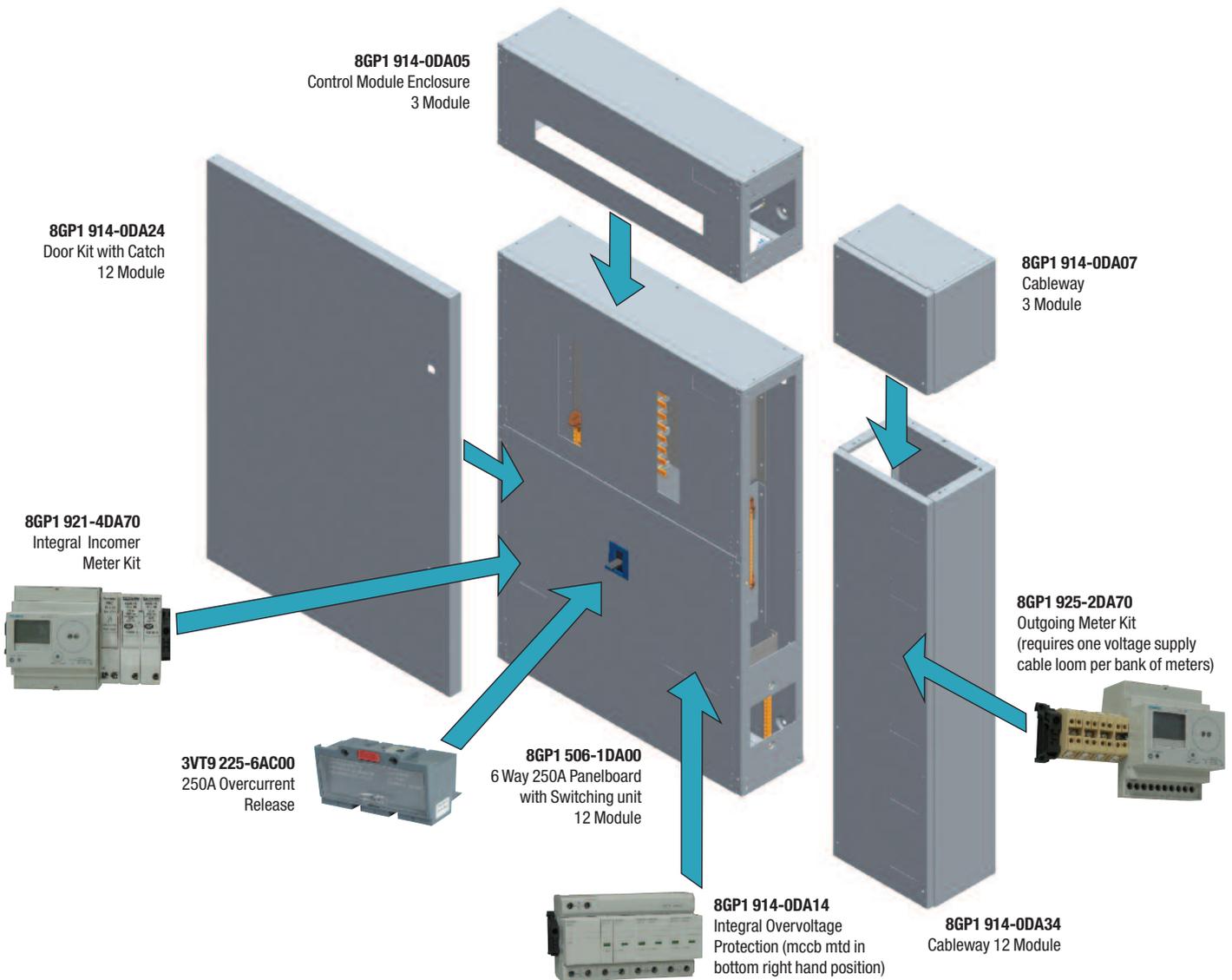
ALPHA BS III 125 - 250A Incomer



ALPHA BS III 125 - 400A Incomer



*We would recommend the use of a cable spreader box for incoming 4c copper cables in excess of 70mm² when used in conjunction with the 250A Integral MID meter option



ALPHA BS III 125 Panelboard System

No of outgoing ways	250A rated Panelboard		Door Kits		Full Doors	Cableways with knock-outs
	Switching Unit	Direct Connect	mccb's	Half Doors Incomer		
6	8GP1 506-1DA00	8GP1 506-1DA02	8GP1 914-0DA27	8GP1 914-0DA36	8GP1 914-0DA24	8GP1 914-0DA34
8	8GP1 508-1DA00	8GP1 508-1DA02	8GP1 914-0DA33		8GP1 914-0DA38	8GP1 914-0DA08
12	8GP1 512-1DA00	8GP1 512-1DA02	8GP1 914-0DA21		8GP1 914-0DA25	8GP1 914-0DA13
16	8GP1 516-1DA00	8GP1 516-1DA02	8GP1 914-0DA37		-	8GP1 914-0DA20

No of outgoing ways	400A rated Panelboard		Door Kits		Full Doors	Cableways with knock-outs
	Switching Unit	Direct Connect	mccb's	Half Doors Incomer		
6	8GP1 506-2DA00	8GP1 506-2DA02	8GP1 914-0DA27	8GP1 914-0DA22	8GP1 914-0DA40	8GP1 914-0DA10
8	8GP1 508-2DA00	8GP1 508-2DA02	8GP1 914-0DA33		8GP1 914-0DA25	8GP1 914-0DA13
12	8GP1 512-2DA00	8GP1 512-2DA02	8GP1 914-0DA21		-	8GP1 914-0DA20
16	8GP1 516-2DA00	8GP1 516-2DA02	8GP1 914-0DA37		-	8GP1 914-0DA23

Add-on			
Extension Units	Order No.	Door Kit	Cableways
2way 125A TP	8GP1 914-0DA32	8GP1 914-0DA26	8GP1 914-0DA07
250A Meter Pack	8GP1 914-0DA02		
400A Meter Pack	8GP1 914-0DA03		
100A SPN DB	8GP1 914-0DA17		
80A TPN DB	8GP1 914-0DA35		
Control Module	8GP1 914-0DA05		
Spreader Box	8GP1 914-0DA06	-	

- An appropriate overcurrent release or switch disconnector module must be selected for panelboards that include an incoming switching unit
- If the integral overvoltage protection option is required the bottom right mccb position must be reserved for the fitting of this kit.
- Each bank of outgoing meter packs require a voltage supply cable loom (8GP1 925-0DA10)
- Product order numbers and descriptions can be found within the body of the catalogue

ALPHA BS III 250

Panelboards

400A Busbar System

Selection and ordering data

Technical data:

- 400A & 630A rated Panelboards
- 35kA & 50kA Fault rated
- Type Tested & ASTA Certified to IEC 61439-2
- Rated Voltage 230V/400V 3ph 50Hz
- Form 3b type 2 construction
- Up to 18 outgoing TP ways (6+12)
- Degree of Protection: IP3X
- Light grey paint finish: RAL7035

Features:

- User defined Incomer fitted as standard
- Integral Incoming Meter facility available as std
- Integral Lightning/ Surge Arrester available as std
- RoHS Compliant

2

	Outgoing Ways	External Dimensions H x W x D (mm)			Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
	400A Panelboard Main Unit c/w TP Switching Unit* Fault Rating: 35kA, 1 sec. Max cable lug connection: 32mm wide								
	2 way	1050	900	250	8GP1 402-6DA43		1	048	61.5
	4 way	1155	900	250	8GP1 404-6DA43		1	048	67.2
	6 way	1260	900	250	8GP1 406-6DA43		1	048	73.0
	* The switching unit must be fitted with either an Overcurrent Release or Switch Disconnecter module								
	Incomer Overcurrent Release & Switch Disconnecter Modules for TP Switching Units								
	250A	100A - 250A Overcurrent Release			3VT9 325-6AC00		1	193	0.261
	400A	160A - 400A Overcurrent Release			3VT9 340-6AC00		1	193	0.318
	400A	Switch Disconnecter module			3VT9 363-6DT00		1	193	0.252
	400A Panelboard Main Unit c/w 4P Switching Unit with Protected Neutral* Fault Rating: 35kA, 1 sec. Max cable lug connection: 32mm wide								
	2 way	1050	900	250	8GP1 402-6DA53		1	048	58.5
	4 way	1155	900	250	8GP1 404-6DA53		1	048	65.5
	6 way	1260	900	250	8GP1 406-6DA53		1	048	71.5
	* The switching unit must be fitted with an Overcurrent Release module								
	Incomer Overcurrent Release for 4P Switching Units								
	250A	100A - 250A Overcurrent Release			3VT9 325-6BC00		1	193	0.355
	400A	160A - 400A Overcurrent Release			3VT9 340-6BC00		1	193	0.355
		4P Switch Disconnecter module on request							
	400A NGG Extension Units Fault Rating: 25kA, 1 sec								
	4 way	265	900	250	8GP1 914-ODA41		1	048	
	8 way	420	900	250	8GP1 914-ODA42		1	048	
	12 way	580	900	250	8GP1 914-ODA43		1	048	
	400A 3VT2 Extension Unit Fault Rating: 35kA, 1 sec								
	8 way	580	900	250	8GP1 912-6DA43		1	048	36.0
	Door Blanks								
	SP Door Blank - with busbar insulators				8GP1 914-ODA00		1	048	
	TP Door Blank - with busbar insulators				8GP1 978-ODA40		1	048	
	Terminal extensions for TP or 4P incomers (1 per pole required)								
	Box Terminal	Max cable csa			Cable Conn Type	3VT9 300-4TC00	1	193	0.580
		25...240mm ²							
	Terminals for circular conductors	25...150mm ²			Cu/Al	3VT9 315-4TD00	1	193	0.400
		150...240mm ²			Cu/Al	3VT9 324-4TD00	1	193	0.370
		2x25...150mm ²			Cu/Al	3VT9 315-4TF00	1	193	0.500
		2x150...240mm ²			Cu/Al	3VT9 324-4TF00	1	193	0.960
		6x6...35mm ²			Cu/Al	3VT9 303-4TF00	1	193	0.500

Selection and ordering data

	Outgoing ways	External Dimensions H x W x D (mm)			Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
	630A Panelboard Main Unit c/w TP Switching Unit*								
	Fault Rating: 50kA, 1 sec. Max cable lug connection: 32mm wide								
	2 way	1050	900	250	8GP1 402-7DA43		1	048	65.0
	4 way	1155	900	250	8GP1 404-7DA43		1	048	71.0
	6 way	1260	900	250	8GP1 406-7DA43		1	048	77.0
* The switching unit must be fitted with either an Overcurrent Release or Switch Disconnecter module									
	Incomer Overcurrent Release & Switch Disconnecter Modules for TP Switching Units								
	400A	160A - 400A Overcurrent Release			3VT9 340-6AC00		1	193	0.318
	630A	250A - 630A Overcurrent Release			3VT9 363-6AC00		1	193	0.320
	630A	630A Switch Disconnecter module			3VT9 363-6DT00		1	193	0.252
	630A Panelboard Main Unit c/w 4P Switching Unit with Protected Neutral*								
	Fault Rating: 50kA, 1 sec. Max cable lug connection: 32mm wide								
	2 way	1055	900	250	8GP1 402-7DA53		1	048	66.0
	4 way	1155	900	250	8GP1 404-7DA53		1	048	72.0
	6 way	1260	900	250	8GP1 406-7DA53		1	048	78.0
* The switching unit must be fitted with an Overcurrent Release module									
	Incomer Overcurrent Release for 4P Switching Units								
	400A	160A - 400A Overcurrent Release			3VT9 340-6BC00		1	193	0.355
	630A	250A - 630A Overcurrent Release 4P Switch Disconnecter module on request			3VT9 363-6BC00		1	193	0.355
	630A NGG Extension Units								
	Fault Rating: 25kA, 1 sec								
	4 way	265	900	250	8GP1 913-0DA21		1	048	
	8 way	420	900	250	8GP1 913-0DA22		1	048	
	12 way	580	900	250	8GP1 913-0DA23		1	048	
	630A 3VT2 Extension Unit								
	Fault Rating: 50kA, 1 sec								
	8 way	583	900	250	8GP1 912-7DA43		1	048	
	Terminal extensions for TP or 4P incomers (1 per pole required)								
	Box Terminal		Max cable csa	Cable Conn Type					
			35...240mm ²	Cu/Al	3VT9 300-4TC00		1	193	0.580
	Terminals for circular conductors								
			25...150mm ²	Cu/Al	3VT9 315-4TD00		1	193	0.400
			150...240mm ²	Cu/Al	3VT9 324-4TD00		1	193	0.370
			2x25...150mm ²	Cu/Al	3VT9 315-4TF00		1	193	0.500
			2x150...240mm ²	Cu/Al	3VT9 324-4TF00		1	193	0.960
		6x6...35mm ²	Cu/Al	3VT9 303-4TF00		1	193	0.500	
	Front connection bars for increased pole spacing								
	50mm Centres		-	Cu/Al	3VT9 300-4ED30		1	193	0.490
	70mm Centres		-	Cu/Al	3VT9 363-4EE30		1	193	0.628

ALPHA BS III 250

Panelboards

Integral & Outgoing Meter Kits

Selection and ordering data

Application

Integral meter current transformer cable connection info:

- 400A - 30mmx10mm copper bar - M10 connection
- 630A - 30mmx10mm copper bar - M10 connection

Outgoing meter ct internal dims info:

- 63A & 125A - 16mmWx31mmH slot
- 160A & 250A - 21mmWx25mmH slot
- MID Versions: 125/160 = 21 mm dia
250 = 28mm dia

Features:

- Suitable for balanced or unbalanced loads
- Standard or MID meter kit options available
- Lightning or Surge Arrester options available
- Rated Voltage: 400V 3ph 50Hz 4w

2

**Rating
Amps**

Order No

**List
Price**

**Pack
Unit**

**Price
Group**

**Weight
1 item (kg)**

Integral Incoming Meter Kits

400A	3ph 4w CT Operated Energy Meter	8GP1 921-6DA10	1	048	5.4
630A	3ph 4w CT Operated Energy Meter	8GP1 921-7DA10	1	048	5.4

Integral Incoming MID Meter Kits

400A	3ph 4w CT Operated Energy Meter	8GP1 991-6DA10	1	048	5.4
630A	3ph 4w CT Operated Energy Meter	8GP1 991-7DA10	1	048	5.4

Contains: Digital meter offering amps, volts, kWh readout plus pulsed output, ct, fuses, mounting plates & cable looms. The latter supplied loose for connection by others

Integral Overvoltage Protection Kits

Combination Lightning & Surge Arrester Kit, types 1 & 2	8GP1 927-0DA10	1	048	7.3
Lightning Arrester Kit, type 1	8GP1 926-0DA10	1	048	7.5
Surge Arrester Kit, type 2	8GP1 928-0DA10	1	048	5.2

Contains: Lightning, Surge or Combination Arrester, mccb, mounting plate & cable loom. The latter supplied loose for connection by others. Please note: Only one of the integral Lightning/Surge Arrester options is possible per panelboard with mccb mtd in bottom left hand 3VT2 position.

Outgoing Meter Kits *

63A	3ph 4w CT Operated Energy Meter	8GP1 923-0DA10	1	048	1.75
125A	3ph 4w CT Operated Energy Meter	8GP1 925-2DA10	1	048	1.75
160A	3ph 4w CT Operated Energy Meter	8GP1 922-0DA10	1	048	1.80
250A	3ph 4w CT Operated Energy Meter	8GP1 925-4DA10	1	048	1.80

Outgoing MID Meter Kits *

125A	3ph 4w CT Operated Energy Meter	8GP1 918-2DA10	1	048	1.70
160A	3ph 4w CT Operated Energy Meter	8GP1 917-0DA10	1	048	1.65
250A	3ph 4w CT Operated Energy Meter	8GP1 918-4DA10	1	048	1.70

Contains: Digital meter offering amps, volts, kWh readout plus pulsed output, 3 ct's, fuses, mounting plates & cable looms. The latter supplied loose for connection by others

* Each bank of Outgoing Meter Kits require a:

Meter Pack Voltage Supply Cable Loom

8GP1 925-0DA10

1

048

0.60

Selection and ordering data

Features:

- Choice of cableways with or without meter knock-outs
- Add-on Cable Spreader Box

	Type	External Dimensions H x W x D (mm)				Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
	Main Unit Cableways									
	2 way	1050	250	205		8GP1 943-ODA18		1	048	13.0
	4 way	1155	250	205		8GP1 943-ODA11		1	048	14.0
	6 way	1260	250	205		8GP1 943-ODA12		1	048	15.5
	Main Unit Cableways (with meter knock-outs)									
					available k/o's					
	2 way	1050	418	205	6	8GP1 914-ODA18		1	048	19.0
	4 way	1155	418	205	6	8GP1 914-ODA11		1	048	20.0
	6 way	1260	418	205	7	8GP1 914-ODA12		1	048	22.0
	Extension Unit Cableways									
	4 way NGG	265	250	205		8GP1 944-ODA11		1	048	3.7
	8 way NGG	420	250	205		8GP1 944-ODA13		1	048	5.4
	12 way NGG	580	250	205		8GP1 944-ODA14		1	048	7.1
	8 way 3VT2	580	250	205		8GP1 944-ODA14		1	048	7.1
	Extension Unit Cableways (with meter knock-outs)									
					available k/o's					
	4 way NGG	265	400	205	1	8GP1 946-ODA11		1	048	3.0
	8 way NGG	420	400	205	2	8GP1 946-ODA13		1	048	6.0
	12 way NGG	580	400	205	3	8GP1 946-ODA14		1	048	10.0
	8 way 3VT2	580	400	205	3	8GP1 946-ODA14		1	048	10.0
	Add-on Cable Spreader Box									
	Cable Spreader Box	265	900	205		8GP1 913-ODA31		1	048	

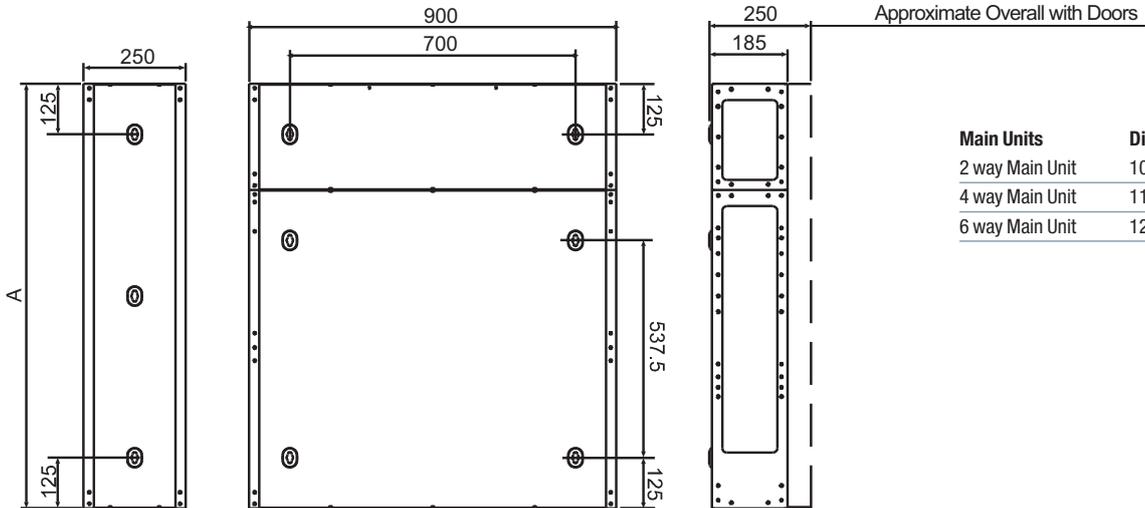
ALPHA BS III 250

Panelboards

Dimensional Drawings

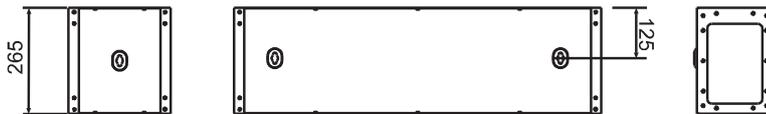
2

Main Units

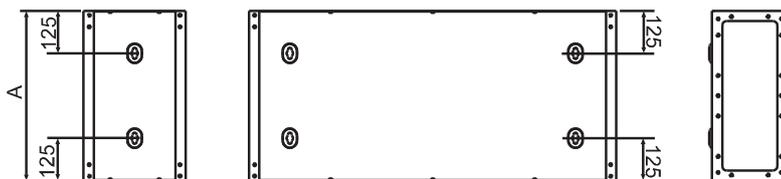


Main Units	Dim A (mm)
2 way Main Unit	1050
4 way Main Unit	1155
6 way Main Unit	1260

4 Way NGG Extension Unit



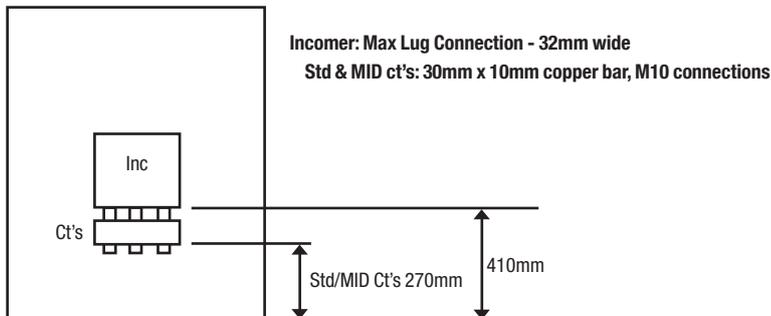
8 & 12 Way Extension Units

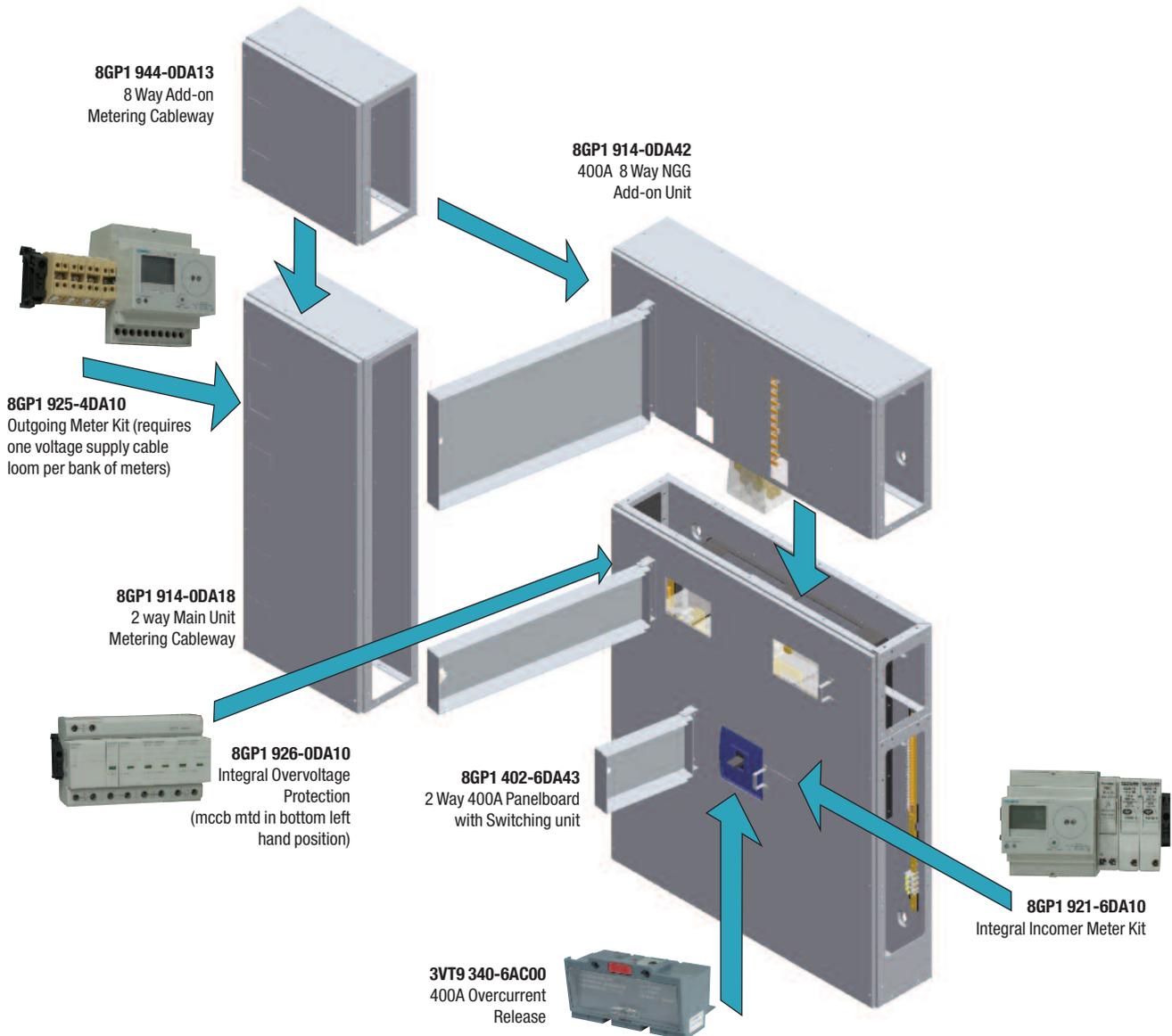


Unit	Dim A (mm)
8 way NGG Extension Unit	420
12 way NGG Extension Unit	580
8 way 3VT2 Extension Unit	580

Available spreading room for incoming cables

ALPHA BS III 250 - 400A & 630A Incomers





ALPHA BS III 250 Panelboard System

No of outgoing ways	400A rated Main Unit - 35kA		Cableways		4 way NGG	Extension Unit 400A 25kA			400A 35kA 8 way 3VT2
	TP Incomer	4P Incomer	without meter knock-outs	with meter knock-outs		8 way NGG	12 way NGG	8 way 3VT2	
2	8GP1 402-6DA43	8GP1 402-6DA53	8GP1 943-0DA18	8GP1 914-0DA18	8GP1 914-0DA41	8GP1 914-0DA42	8GP1 914-0DA43	8GP1 912-6DA43	
4	8GP1 404-6DA43	8GP1 404-6DA53	8GP1 943-0DA11	8GP1 914-0DA11					
6	8GP1 406-6DA43	8GP1 406-6DA53	8GP1 943-0DA12	8GP1 914-0DA12					

No of outgoing ways	630A rated Main Unit - 50kA		Cableways		4 way NGG	Extension Unit 630A 25kA			630A 25kA 8 way 3VT2
	TP Incomer	4P Incomer	without meter knock-outs	with meter knock-outs		8 way NGG	12 way NGG	8 way 3VT2	
2	8GP1 402-7DA43	8GP1 402-7DA53	8GP1 943-0DA18	8GP1 914-0DA18	8GP1 913-0DA21	8GP1 913-0DA22	8GP1 913-0DA23	8GP1 912-7DA43	
4	8GP1 404-7DA43	8GP1 404-7DA53	8GP1 943-0DA11	8GP1 914-0DA11					
6	8GP1 406-7DA43	8GP1 406-7DA53	8GP1 943-0DA12	8GP1 914-0DA12					

No of outgoing ways	Extension Unit Cableways		
		without meter knock-outs	with meter knock-outs
2	4w NGG	8GP1 944-0DA11	8GP1 946-0DA11
4	8w NGG	8GP1 944-0DA13	8GP1 946-0DA13
6	12w NGG/8w 3VT2	8GP1 944-0DA14	8GP1 946-0DA14

- An appropriate overcurrent release or switch disconnector module must be selected for the incoming switching unit (overcurrent release only available on 4P versions).
- If the integral overvoltage protection option is required the bottom left 3VT2 mccb position must be reserved for the fitting of this kit.
- Each bank of outgoing meter packs require a voltage supply cable loom (8GP1 925-0DA10)
- Product order numbers and descriptions can be found within the body of the catalogue

Moulded Case Circuit Breakers

NGG - 25kA rated

Selection and ordering data

Technical data:

- Standards: IEC 60947-2
- 25kA Breaking Capacity
- Degree of protection: IP00
- Rated Voltage 230V/400V 50/60Hz
- Max conductor cross-sections:
 - Up to & including 40A rating - 16mm²
 - Above 40A rating - 50mm²
- Fixed thermal & mag trips
- Factory calibrated to 40°C

2



Rating	In A	NGG, 25kA Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
1 pole						
	15	NGG1 B015L		1	193	0.400
	20	NGG1 B020L		1	193	0.400
	25	NGG1 B025L		1	193	0.400
	30	NGG1 B030L		1	193	0.400
	40	NGG1 B040L		1	193	0.400
	50	NGG1 B050L		1	193	0.400
	60	NGG1 B060L		1	193	0.400
	80	NGG1 B080L		1	193	0.400
	100	NGG1 B100L		1	193	0.400
	125	NGG1 B125L		1	193	0.400



3 pole						
	15	NGG3 B015L		1	193	1.200
	20	NGG3 B020L		1	193	1.200
	25	NGG3 B025L		1	193	1.200
	30	NGG3 B030L		1	193	1.200
	40	NGG3 B040L		1	193	1.200
	50	NGG3 B050L		1	193	1.200
	60	NGG3 B060L		1	193	1.200
	80	NGG3 B080L		1	193	1.200
	100	NGG3 B100L		1	193	1.200
	125	NGG3 B125L		1	193	1.200

Handle Padlock Device

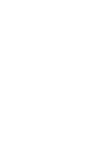
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Note:

- For additional information & technical data please refer to the DVD located in the inside back cover

Technical data:

- Standards: IEC 60947-2
- 36kA or 65kA Breaking Capacities
- Degree of protection: IP20
- Rated Voltage 690V 50/60Hz
- Max conductor cross-sections: 150mm²
- Adjustable Overcurrent Electronic Trip Units (ETU)
- Factory calibrated to 40°C
- Internally fitted accessories

	Type	Order No	List Price	Pack Unit	Price Group	Weight 1 item (kg)
	36kA rated TP Switching Unit*					
	250A	3VT2 725-2AA33-0AA0		1	193	7.400
	65kA rated TP Switching Unit*					
	250A	3VT2 725-3AA33-0AA0		1	193	7.400
	* The switching unit must be fitted with an Overcurrent Release module					
	ETU Overcurrent Release Modules					
	100A 40A - 100A Overcurrent Release	3VT9 210-6AC00		1	193	0.283
	160A 63A - 160A Overcurrent Release	3VT9 216-6AC00		1	193	0.284
	250A 100A - 250A Overcurrent Release	3VT9 225-6AC00		1	193	0.283
	3VT2 & 3VT3 Auxiliary switches & alarm contacts					
	1NO contact 60...500V AC/DC	3VT9 300-2AC10		1	193	0.120
	1NC contact	3VT9 300-2AD10		1	193	0.130
	2NO contact	3VT9 300-2AE10		1	193	0.260
	2NC contact	3VT9 300-2AG10		1	193	0.250
	1C/O contact	3VT9 300-2AH10		1	193	0.130
	3VT2 & 3VT3 Shunt Releases					
	24, 40 & 48VAC/DC	3VT9 300-1SC00		1	193	0.140
	110VAC/DC	3VT9 300-1SD00		1	193	0.140
	230, 400 & 500VAC/220VDC	3VT9 300-1SE00		1	193	0.140
	3VT2 & 3VT3 Undervoltage Releases					
	24, 40 & 48VAC/DC	3VT9 300-1UC00		1	193	0.110
	110VAC/DC	3VT9 300-1UD00		1	193	0.110
	230, 400 & 500VAC/220VDC	3VT9 300-1UE00		1	193	0.110
	mccb toggle locking device	3VT9 200-3HL00		1	193	0.013

SIVACON S4 - Consistent protection, maximum benefits:

Low Voltage Power Distribution Board

SIVACON S4 is part of the comprehensive SIVACON product range, which covers all aspects of power distribution: from the switchgear to the busbar trunking system. The integration in Totally Integrated Power assures full consistency in terms of planning and configuration.

New features for enhanced safety

As type-tested switchgear, SIVACON S4 stands for maximum reliability and a high degree of safety. High-quality, perfectly matched switching devices facilitate an easy integration in the building control technology concept thanks to the system's outstanding feature: built-in intelligence. During operation, an efficient ventilation system prevents heat accumulation and heat pockets, thus assuring long-term system availability. A fast and easy access to the devices for setting purposes is facilitated through doors with central locking, swivel frames and quick release locks. Thanks to the enormously powerful locking system, maximum personal safety is even guaranteed in fault cases.

Forms of internal separation 1, 2b, 3b, 4a, 4b are available.



Construction:

The SIVACON S4 energy distribution concept consists of full galvanised chromed sheet steel frames, of sturdy self standing design.

SIVACON S4 low voltage power distribution are constructed in accordance to a modular design system by means of flexible assembly kits, and can be combined to meet a wide range of power distribution needs.

Assembly kits with SENTRON 3WL

- Rated current 630 – 3200A
- 3 pole and 4 pole
- Withdrawable and fixed mounted design
- Copper assembly kits

Assembly kits with SENTRON 3KA & 3KL

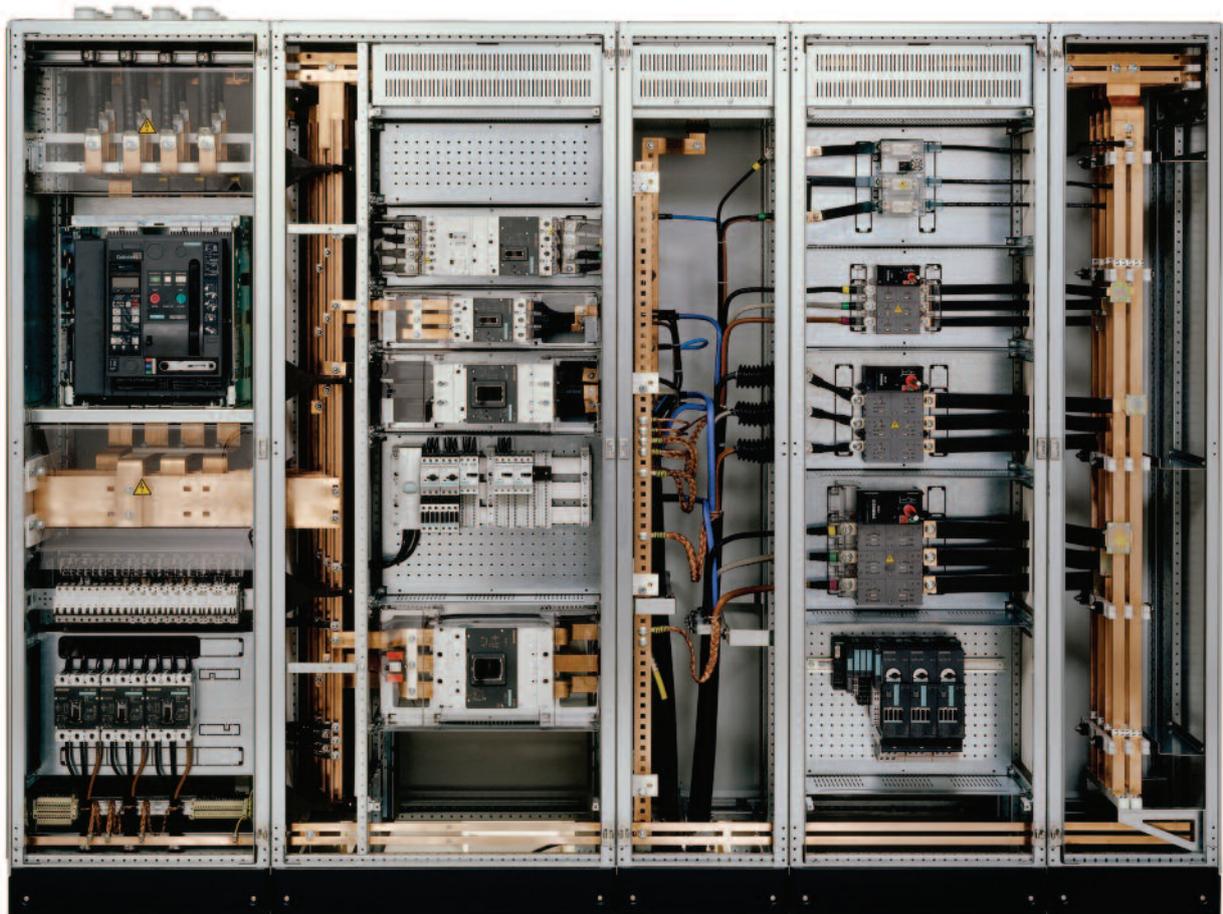
- SENTRON 3KL5/6 (LBS) switch disconnectors.
Rated current up to 630A
- SENTRON 3KL7/3KA7 (LBS) switch disconnectors.
Rated current up to 1250A
- 3 pole and 4 pole
- Fixed mounted design
- Copper assembly kits
- Door coupling rotary drive

Assembly kits with SENTRON 3VL & 3VT MCCB's

- 3 pole and 4 pole
- Plug-in and fixed mounted design
- Copper assembly kits

Assembly kits with built-in installation devices

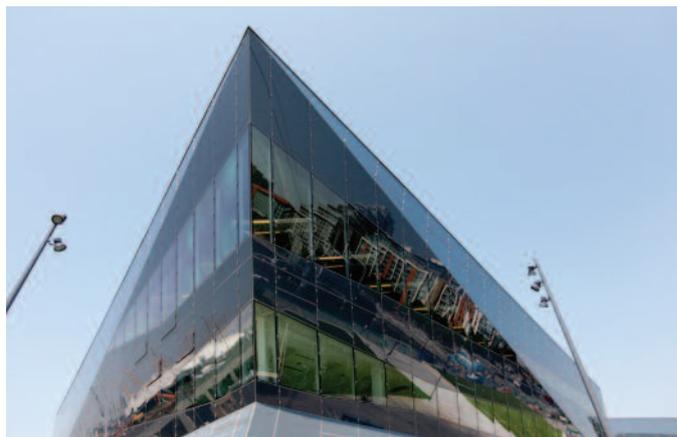
- Modular spacing
24 with 600mm cubicle width
36 with 800mm cubicle width
- 150mm or 200mm matrix
- Depth-adjustable multi profile busbar (AL 35mm)



Special Applications

As building design becomes more innovative and organisations look to extend their premises on site, rather than moving into new build, there are a number of challenges for switchgear and circuit protection.

With such varying requirements from Customers, dependent on the size, shape and functionality of the building, using a team of local UK based manufacturing specialists is essential. This ensures every bespoke distribution solution is specifically designed to meet the needs of the end user. By working closely in collaboration, the manufacturer, partner, and installer can ensure the best results for the end users and enable the most efficient installation process.



Situated at the heart of London's Green Enterprise District, the Crystal, a sustainable cities initiative by Siemens, will be an iconic landmark demonstrating Siemens' commitment to creating sustainable cities. The exciting new building will feature conference facilities, research space and an interactive exhibition.

4



Examples of SPN & TPN Distribution Boards fitted with socket outlets 'plug & play'
Application: Commercial Buildings

We can assist in the design of electrical distribution systems from MV distribution to the main, sub and final LV distribution to provide a bespoke solution from a single source using our considerable expertise and experience in the Low & Medium Voltage distribution markets.

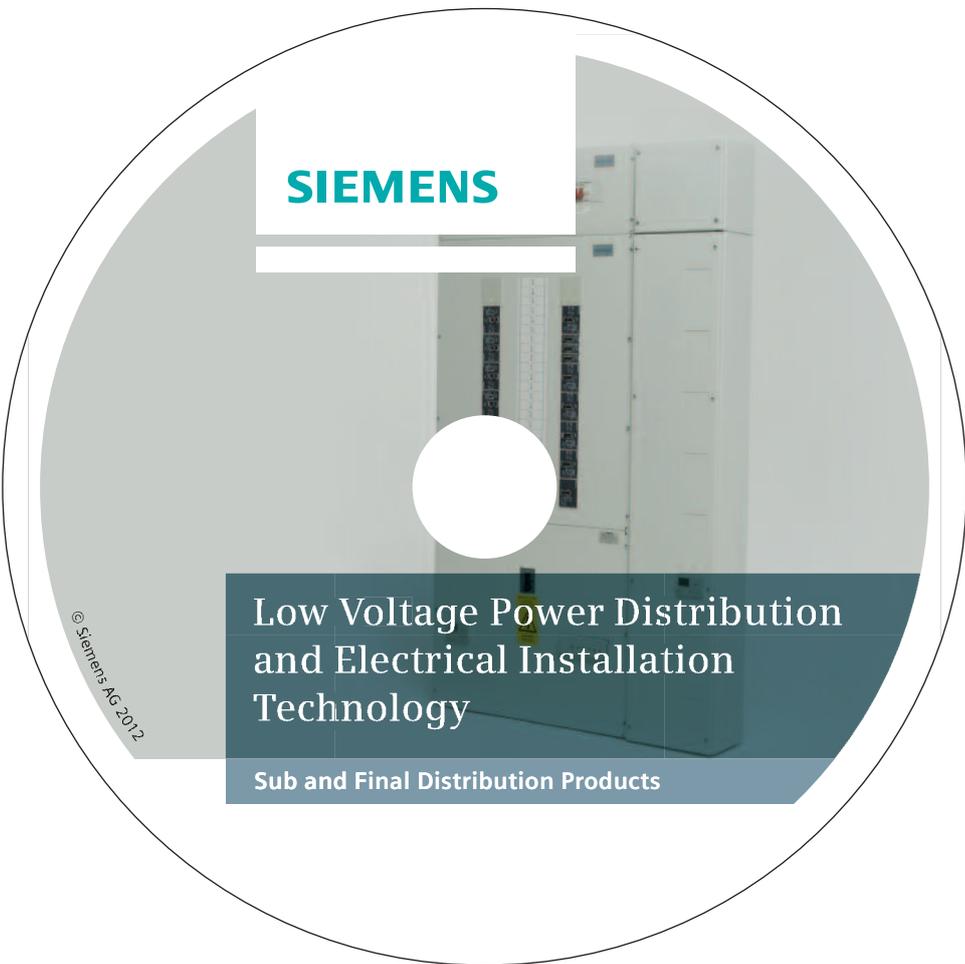
Siemens Industry meets the great challenges of our time. With solutions for technical infrastructure in industrial and non-residential buildings, residential buildings and public facilities, Siemens ensures enhanced comfort and energy efficiency in buildings, as well as the protection and safety of persons, property and business processes. As a long standing and professional partner with all round expertise in the industry sector, we offer tailored solutions that generate sustainable added value for our Customers.



Example of a 25kA rated Power Distribution Unit (PDU) fitted with integral metering allowing both local and remote monitoring of each mcb phase.
Application: Data Centres

The Siemens logo, consisting of the word "SIEMENS" in a bold, teal, sans-serif font, is positioned in the upper left quadrant of the circular graphic. It is overlaid on a white rectangular background that partially obscures the underlying image of the electrical cabinet.

SIEMENS

The background of the circular graphic is a photograph of a large, white industrial electrical cabinet with multiple doors and internal components visible. The cabinet is set against a light-colored wall. The image is partially obscured by white and teal overlays.

**Low Voltage Power Distribution
and Electrical Installation
Technology**

Sub and Final Distribution Products

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