



SIEMENS

LOW-VOLTAGE POWER DISTRIBUTION

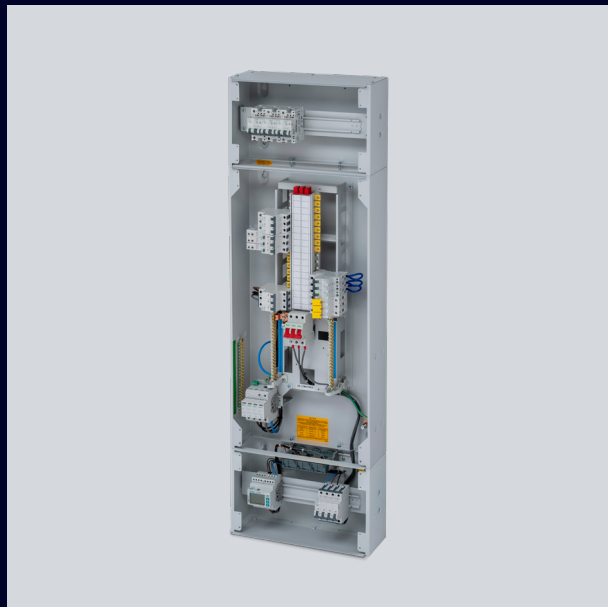
ALPHA BSII 125A & 250A MCB **Distribution**
Boards and ALPHA BSIII 160 MCCB
Panel Boards

Safe and Intelligent **power distribution**

ALPHA BSII. Totally Integrated Power Distribution.

Features

- Designed and manufactured in the UK
- Type tested and certified in the UK in our ASTA approved laboratories
- Fully supported by our UK based technical services team
- Modular construction
- 1mm sheet steel enclosure painted in RAL 7035 light grey
- Degree of protection: IP3X
- 10kA for 0.1 second short circuit rating
- Utilises 5SL & 5SY MCB, 5SU RCBO, and 5SV AFDD technologies



**Sivacon S4
Switchboard.
800A to 3200A.**





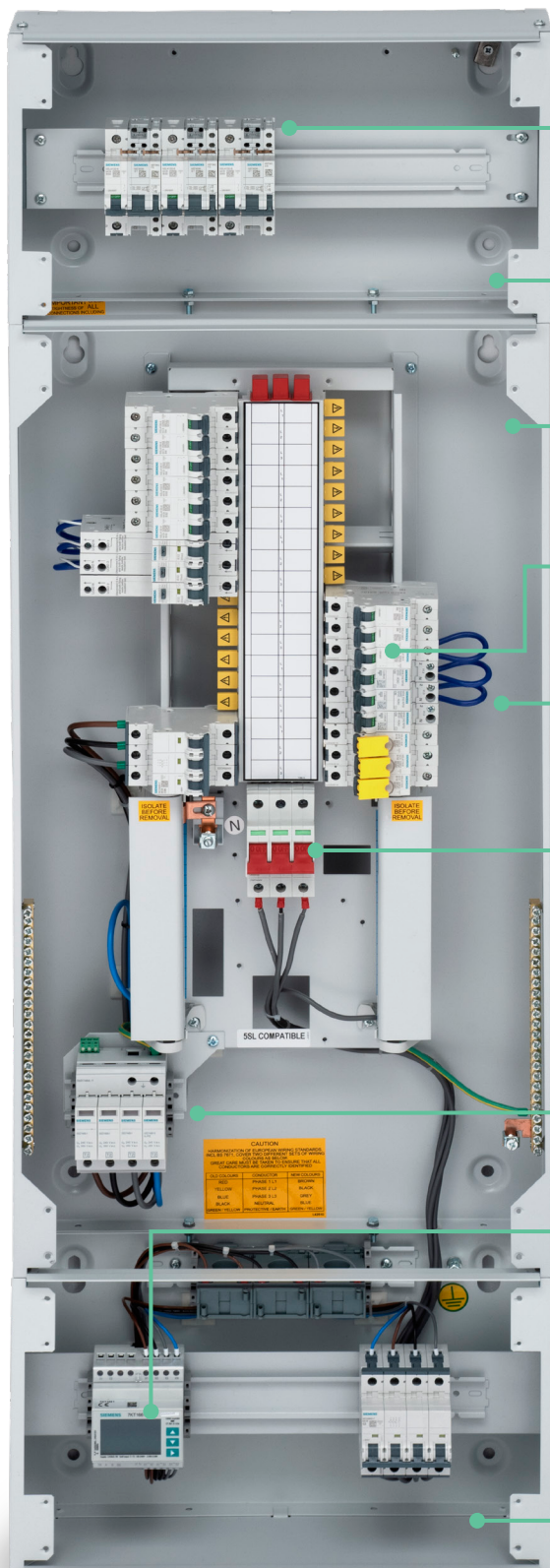
ALPHA BSII
Distribution
Boards from
125A to 250A

Alpha BSIII
Panel Boards
250A to 800A



Specification Highlights

125A



Extension enclosures for DIN devices

Modular construction

Accepts MCBs up to 80A–250A DBs only

Accommodates 1 module wide 10kA miniature AFDDs

RCBOs with extra-long neutral lead

Fully type tested to IEC/BS EN 61439-3

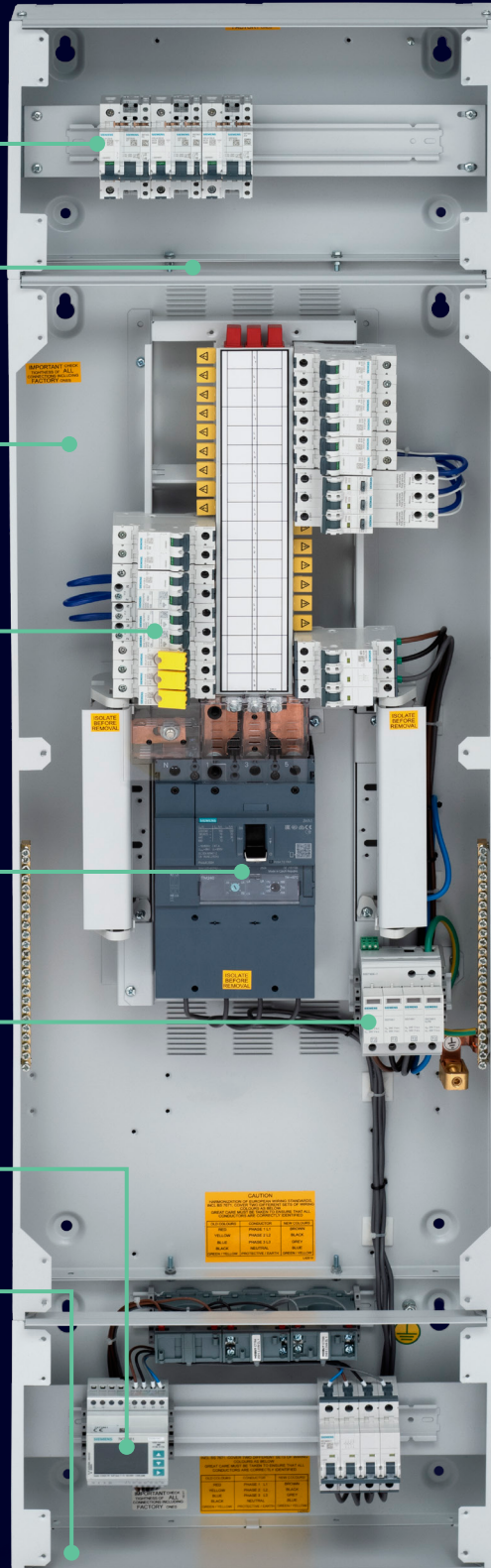
Integral Type 2 surge protection kits

Integral & Add-on meter options. Standard or MID

Removable gland plates for top and bottom cable entry exit

Specification Highlights

250A



Suitable Applications

- Offices
- Tall Buildings
- Hotels
- Campuses
- Entertainment and Leisure
- Healthcare
- Mixed-use developments

Featured Product

Miniature 10kA AFDD/RCBO

conforms to BS EN 62606



- Full 10kA short circuit rating
- Single module 'miniature' MCB sized device
- 6A to 32A overload ratings
- B and C tripping characteristic curves
- 30mA type A RCD
- 1200mm neutral tail
- For use in Alpha BSII distribution Boards

No need for short circuit recalculations
No need for additional back up protection
No need for AFDD only distribution boards or add on sections
No need for additional space or wasted circuits within distribution boards
No need for additional wiring

Applicable regulation

Regulation 421.1.17 of BS 7671 – The 18th Edition of the IEE Wiring Regulations, Amendment 2, states:

Arc Fault Detection Devices (AFDDs) conforming to BS EN 62606 shall be provided for single-phase AC circuits supplying socket outlets with a rated current not exceeding 32A in:



High Risk Residential Buildings (HRRB)

Assumed to be residential buildings over 18m in height or greater than 6 stories. These can also be defined in risk management procedures adopted by fire and rescue services.



Houses of Multiple Occupancy (HMO)

A property that has more than 3 tenants forming more than 1 household sharing toilet, bathroom, or kitchen facilities with other tenants.



Purpose-built student accommodation (PBSA)

Built specifically by private developers for students to live in including both cluster flats and private studios and can also include a variety of leisure facilities.

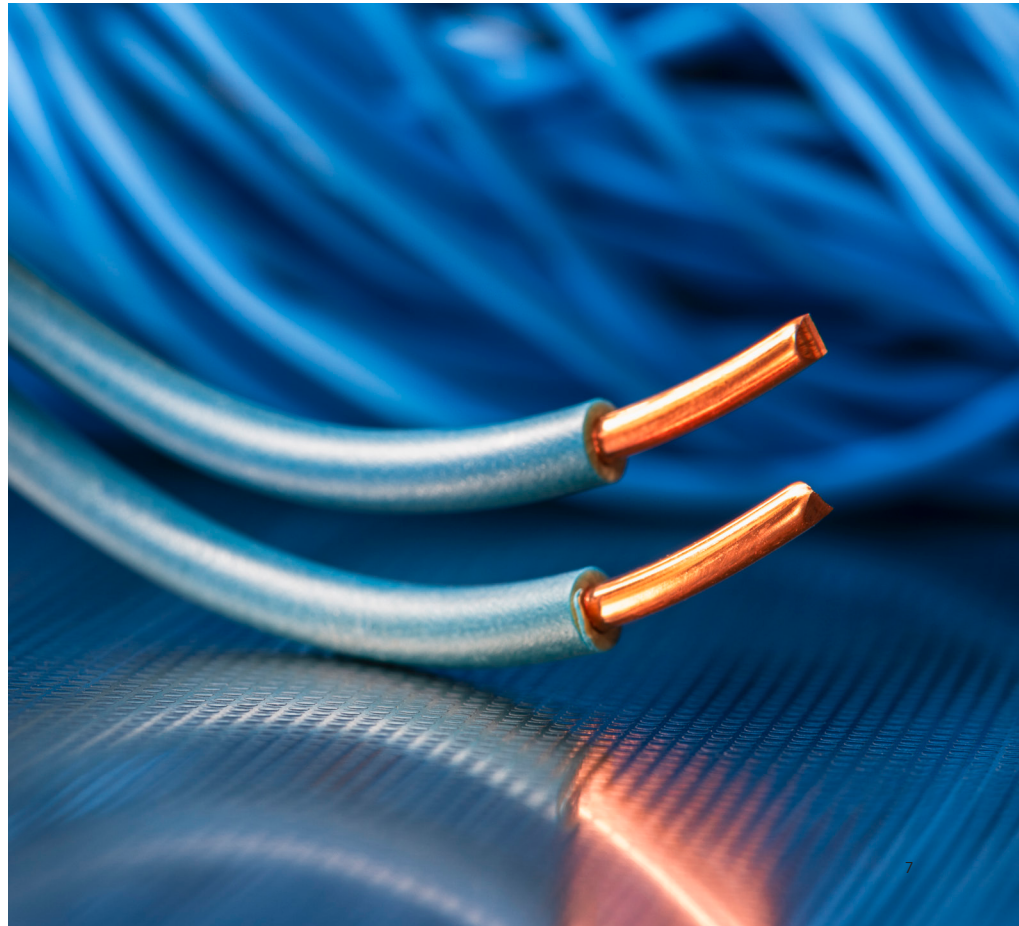


Care Homes

Residential or nursing homes providing accommodation, personal care, nursing and support for a variety of people.

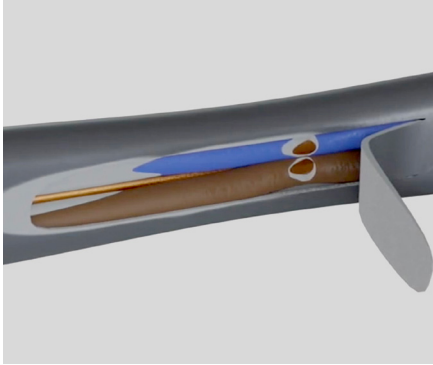
For all other premises the use of AFDDs conforming to BS EN 62606 is recommended for single phase AC circuits supplying socket outlets not exceeding 32A.

Where used AFDDs shall be placed at the origin of the circuit to be protected.



Causes of Arc Faults

Arc faults are unpredictable and can occur over a variety of durations from hours to years and depend on the initial cause. Temperatures of up to 6000°C can be generated which can lead to an eventual fire.



Cable / insulation damage

Caused by foreign object (nails, sharp edges, or drilling), kinks and incorrect bends in cables, frequent use and movement of cables (vacuum cleaners etc).



Rodent damage

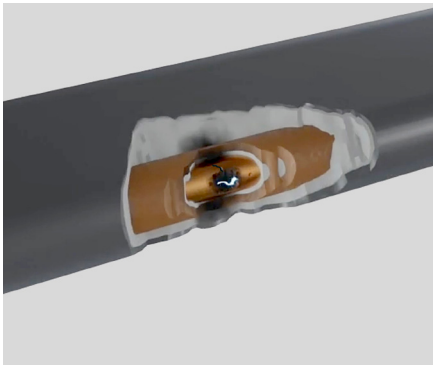
Rats or mice chewing through cables or damaging their insulation.



Loose terminations

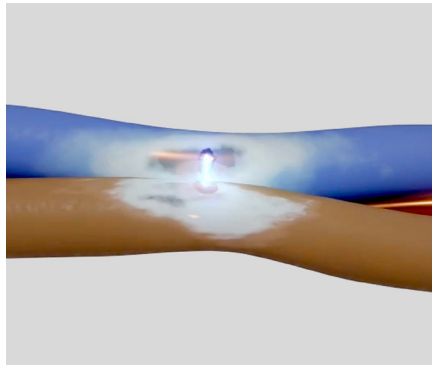
Incorrectly connected plugs and sockets, incorrect wire stripping, loose screw connections.

Types of Arc Faults



Series arc faults

Originate from damaged cables and loose connections.



Parallel arc faults

Fault between L-N / L-E or High impedance due to damage.



Examples of potential uses in Commercial applications



Museums

Valuable or irreplaceable items that are left unattended for extended periods of time.



Offices

Computers and data hubs at risk where the power remains on overnight whilst the building is unoccupied.



Commercial & mixed use

Where fires can cause major loss to business in terms of stock and turnover, as well as disruption in trade. Also required to protect residential premises in mixed use developments.



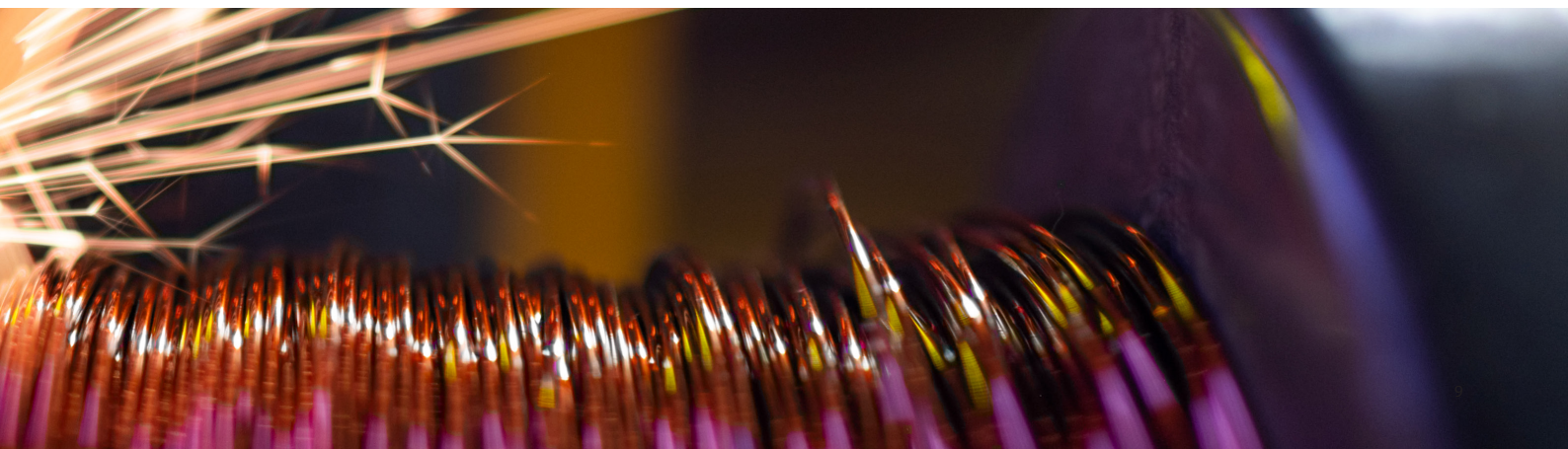
Schools, Universities, Education

Fire can cause inconvenience and potential injury in densely populated buildings.



Properties with high fire risk and combustible materials

Such as barns, stores, wood working shops and timber framed buildings.



SP&N Distribution Boards

100A



8GP1202-1DA24

100A MCB Distribution Boards

Description	H (mm)	W (mm)	D (mm)	List No
5 Way	235	188	133	8GP1201-1DA24
8 Way	235	242	133	8GP1202-1DA24
11 Way	235	293	133	8GP1203-1DA24
14 Way	235	343	133	8GP1204-1DA24
16 Way	235	437	133	8GP1205-1DA24
19 Way	235	437	133	8GP1206-1DA24

Features

- 100A rated with main switch fitted
- For use with 5SL or 5SY MCBs
- Compatible with MCBs, RCBOs & AFDDs
- Type tested to IEC BS EN 61439-3
- IP3X
- Sturdy steel enclosure, light grey RAL 7035

TP&N Distribution Boards

125A



8GP1212-2DA54

125A MCB Distribution Boards

Description	H (mm)	W (mm)	D (mm)	List No
4 Way	490	430	155	8GP1204-2DA54
6 Way	570	430	155	8GP1206-2DA54
8 Way	650	430	155	8GP1208-2DA54
12 Way	815	430	155	8GP1212-2DA54
16 Way	895	430	155	8GP1216-2DA54
20 Way	1000	430	155	8GP1220-2DA54
24 Way	1140	430	155	8GP1224-2DA54

Features

- 125A rated for use with 5SL or 5SY MCB
- Type tested & ASTA certified to IEC 61439-3
- IP3X (door closed)
- 230/415V AC 50/60Hz
- Integral meter kit options available
- Integral surge kit options available
- 1mm steel enclosure finished in RAL 7035 light grey



5TE1302-0DA

125A Incomer Options

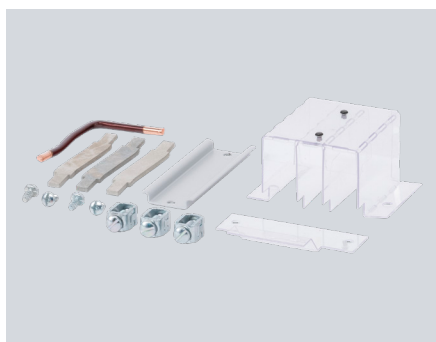
Description	List No
125A 4P Switch Disconnecter **	5TE1402-0DA
125A 3P Switch Disconnecter	5TE1302-0DA
125A 2P Switch Disconnecter *	5TE1202-0DA
125A Direct Connection Kit	8GP1854-0DA10

Features

- RCCB option is Instantaneous Trip
- Switch Disconnecter accepts up to 50mm²
- Direct Connection Kit accepts up to 50mm²

* Requires single pole connection kit: 8GP1853-0DA20

** Requires four pole connection kit: 8GP1886-0DA10



8GP1886-0DA10

125A Incomer Options – Connection Kits

Description	List No
TP&N --> SP&N kit	8GP1853-0DA20
TP&N --> 4P kit (For RCCB)	8GP1886-0DA10
Oversize Incoming Cable Kit – 120mm ²	8GP1856-0DA10

Vertical Lighting & Power Distribution Boards

125A – STD & MID



8GP1635-2DA44

Standard Meter Option

Description	H (mm)	W (mm)	D (mm)	List No
10 way (6w & 4w)	1303	430	155	8GP1508-2DA44
16 way (12w & 4w)	1463	430	155	8GP1524-2DA44
14 way (8w & 6w)	1543	430	155	8GP1517-2DA44
18 way (12w & 6w)	1548	430	155	8GP1525-2DA44
22 way (16w & 6w)	1628	430	155	8GP1533-2DA44
16 way (8w & 8w)	1708	430	155	8GP1518-2DA44
20 way (12w & 8w)	1823	430	155	8GP1526-2DA44
24 way (16w & 8w)	1708	430	155	8GP1534-2DA44
24 way (12w & 12w)	1788	430	155	8GP1527-2DA44
28 way (16w & 12w)	1953	430	155	8GP1535-2DA44

Features

- Pre-assembled solution complete with 2 x STD Integral Meter kits
- Contains 2 x PAC1600 energy meter
- Isolation of individual sections or total board
- Fully rated 125A top Distribution Board
- Part L2 compliant
- Meter output in Pulsed Output & Modbus RTU
- Measured values include: kWh, kvarh, V, A, kW, kvar, PF, Hz
- Accepts 8GP1904-0DA50 Integral Type 2 SPD kit
- Other configurations available upon request

MID Meter option

Description	H (mm)	W (mm)	D (mm)	List No
14 way (8w & 6w)	1463	430	155	8GP1617-2DA44
20 way (12w & 8w)	1708	430	155	8GP1626-2DA44
28 way (16w & 12w)	1953	430	155	8GP1635-2DA44

Features

- Pre-assembled solution complete with 2 x MID Integral Meter kits
- Contains 2 x PAC1600 energy meter
- Isolation of individual sections or total board
- Fully rated 125A top Distribution Board
- Part L2 compliant
- Meter output in Pulsed Output & Modbus RTU
- Measured values include: kWh, kvarh, V, A, kW, kvar, PF, Hz.
- Accepts 8GP1904-0DA50 Integral Type 2 SPD kit

TP&N Distribution Boards

250A



8GP1212-4DA54

250A MCB Distribution Boards

Description	H (mm)	W (mm)	D (mm)	List No
4 Way	769	430	155	8GP1204-4DA54
6 Way	823	430	155	8GP1206-4DA54
8 Way	877	430	155	8GP1208-4DA54
12 Way	985	430	155	8GP1212-4DA54
16 Way	1093	430	155	8GP1216-4DA54
20 Way	1201	430	155	8GP1220-4DA54
24 Way	1309	430	155	8GP1224-4DA54

Features

- 250A rated for use with 5SL or 5SY MCB
- Type tested & ASTA certified to IEC 61439-3
- IP3X (door closed)
- 230/415V AC 50/60Hz
- Integral meter kit options available
- Integral surge kit options available
- 1mm steel enclosure finished in RAL 7035
- Compatible with 80A MCB



8GP1601-4DA50

250A Incomer Options

Description	List No
250A 3P Switch Disconnecter	8GP1600-4DA40
250A 4P Switch Disconnecter	8GP1600-4DA50
250A 3P MCCB	8GP1601-4DA40
250A 4P MCCB	8GP1601-4DA50
250A Direct Connection Kit	8GP1867-0DA10

Features

- MCCB complete with Box Terminals
- MCCB is 3VA – TM240 – ATAM
- MCCB is adjustable 70% to 100% of I_n for Thermal Overload
- MCCB is adjustable 5x to 10x I_n for Magnetic Short-Circuit
- MCCB accepts 6mm² to 120mm²*
- Switch Disconnecter complete with Box Terminals
- Switch Disconnecter accepts 6mm² to 120mm²*
- Direct Connection Kit accepts 6mm² to 120mm²



3VA9214-0JC22

250A Incomer Accessories

Box Terminals	Conductor Capacity	List No
3 single terminals	6 ... 120mm ²	3VA9253-0JA11
	50 ... 185mm ²	3VA9253-0JA12
4 single terminals	6 ... 120mm ²	3VA9254-0JA11
	50 ... 185mm ²	3VA9254-0JA12
Nut keeper kits	Max. Busbar Capacity	List No
3 single terminals	25 x 8mm	3VA9213-0QA00
4 single terminals	25 x 8mm	3VA9214-0QA00
Circular conductor terminals	Conductor Capacity	List No
3P – One conductors*	50 ... 240mm ²	3VA9213-0JC13
3P – Two conductors*	25 ... 150mm ²	3VA9213-0JC22
4P – One conductors*	50 ... 240mm ²	3VA9214-0JC13
4P – Two conductors*	25 ... 150mm ²	3VA9214-0JC22

*Supplied with extended terminal shroud

Surge Protection Kits

125A & 250A



8GP1904-0DA50

125A & 250A Integral Surge Protection Kits

Description	List No
125A Integral SPD kit with 10kA MCB	8GP1904-0DA50
125A Integral SPD kit with 15kA MCB	8GP1904-0DA51
250A Integral SPD kit with 10kA MCB	8GP1904-0DA52
250A Integral SPD kit with 15kA MCB	8GP1904-0DA53

Features

- Complete with mounting bracket, cable looms & protective MCB
- 5SD7 Type 2 Surge Arrestor
- Suitable for TNS earthing systems
- Remote signalling contact included
- Cannot be used in conjunction with integral meter kit. For use with add-on meter option only
- Can be installed within Lighting & Power Boards



8GP1904-0DA56

Enclosed Surge Protection Kits

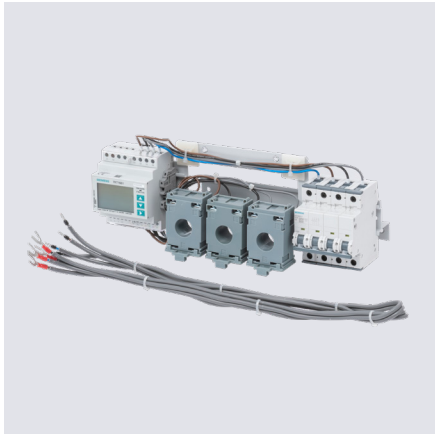
Description	H (mm)	W (mm)	D (mm)	List No
8GP1904-0DA57	212	180	124	BSII 10kA Enclosed SPD kit Type 1&2
8GP1904-0DA58	212	180	124	BSII 10kA Enclosed SPD kit Type 1
8GP1904-0DA56	142	180	124	BSII 10kA Enclosed SPD kit Type 2

Features

- Complete with cable looms, enclosure, protective MCB, 32mm nut & washer, and hole cut out template
- Can be mounted either on the left or right hand side of the distribution board
- Suitable for TNS earthing systems
- Remote signalling contact included
- Can be installed beside any 125A or 250A Alpha BSII distribution board
- Requires 32mm holesaw (not supplied)

Integral Meter Kits

125A & 250A



8GP1921-2DA80

125A & 250A Integral Meter Kits

Description	List No
125A Integral Meter Pack – Std	8GP1921-2DA80
125A Integral Meter Pack – MID	8GP1991-2DA80
250A Integral Meter Pack – Std	8GP1933-0DA11
250A Integral Meter Pack – MID	8GP1933-0DA13

Features

- Contains PAC1600 energy meter
- Includes all cable looms, mounting bracket, protective MCB & CTs
- Meter output in Pulsed Output & Modbus RTU
- Measured values include: kWh, kvarh, V, A, kW, kvar, PF, Hz.

Add-on Meter Kits

125A & 250A



8GP1990-4DA10

125A & 250A Add-on Meter Kits

Description	H (mm)	W (mm)	D (mm)	List No
125A Add-on Meter Pack – Std	245	430	155	8GP1990-2DA10
125A Add-on Meter Pack – MID	245	430	155	8GP1991-2DA10
250A Add-on Meter Pack – Std	245	430	155	8GP1990-4DA10
250A Add-on Meter Pack – MID	245	430	155	8GP1991-4DA10
250A Add-on Meter Pack 185mm ² – Std	245	430	155	8GP1933-0DA12
250A Add-on Meter Pack 185mm ² – MID	245	430	155	8GP1933-0DA14

Features

- Includes painted steel enclosure
- Contains PAC1600 energy meter
- Includes all cable looms, mounting bracket, protective MCB & CTs
- Meter output in Pulsed Output & Modbus RTU
- Measured values include: kWh, kvarh, V, A, kW, kvar, PF, Hz.

Horizontal Lighting & Power Add-on 125A & 250A



8GP1992-4DA10

125A & 250A Horizontal Lighting & Power Add-on

Description	H (mm)	W (mm)	D (mm)	List No
125A Twin Meter Horizontal L&P – Std	410	860	155	8GP1992-2DA10
125A Twin Meter Horizontal L&P – MID	410	860	155	8GP1993-2DA10
250A Twin Meter Horizontal L&P – Std	735	860	155	8GP1992-4DA10
250A Twin Meter Horizontal L&P – MID	735	860	155	8GP1993-4DA10

Features

- Includes painted steel enclosure
- Contains 2 x PAC1600 energy meter
- Pre-wired with all necessary cabling for out-of the box installation to DBs
- Dual power tail connections provided
- Meter output in Pulsed Output & Modbus RTU
- Measured values include: kWh, kvarh, V, A, kW, kvar, PF, Hz.

Vertical Lighting & Power Kit



8GP1904-0DA55

125A Vertical Lighting & Power Kit

Description	H (mm)	W (mm)	D (mm)	List No
Enclosed lighting & power meter kit				8GP1904-0DA55

Features

- Suitable for use with 2 x 125A type B Distribution Boards. (Vertically mounted)
- Kit consists of 3 phase and neutral connection cables, cable clamps and shrouding.
- 125A integral meter kits to be ordered separately
- Maximum 3 phase load on upper board should not exceed 100A.
- Provides separate lighting and combined load readings. Power load calculated by subtracting top section load, from total load measurement.

Distribution Board Add-on Enclosures 125A & 250A



8GP1995-0DA13

Description	H (mm)	W (mm)	D (mm)	List No
Cable Spreader Box	245	430	155	8GP1910-0DA10
Service Centre – 18 Modular Width	245	430	155	8GP1995-0DA13
Service Centre – 36 Modular Width	410	430	155	8GP1995-0DA14

Features

- Service Centre contains DIN rail mounting for modular devices



8GP1903-0DA10

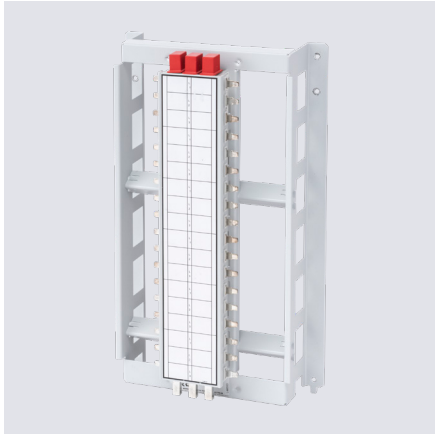
Description	H (mm)	W (mm)	D (mm)	List No
1 Row x 18 Modular Width Extension Box	245	430	155	8GP1901-0DA10
2 Row x 18 Modular Width Extension Box	410	430	155	8GP1902-0DA10
3 Row x 18 Modular Width Extension Box	570	430	155	8GP1903-0DA10
4 Row x 18 Modular Width Extension Box	735	430	155	8GP1904-0DA10
5 Row x 18 Modular Width Extension Box	815	430	155	8GP1905-0DA10

Features

- Contains Earth & Neutral Terminal bars for termination of devices

MCB Pan Assemblies

250A



8GP1940-4DA44

250A Pan Assemblies

Description	H (mm)	W (mm)	D (mm)	List No
4 Way	154	224	133*	8GP1940-4DA41
8 Way	262	224	133*	8GP1940-4DA43
12 Way	370	224	133*	8GP1940-4DA44
16 Way	478	224	133*	8GP1940-4DA45
20 Way	586	224	133*	8GP1940-4DA46
24 Way	694	224	133*	8GP1940-4DA47

Features

- 250A rated for use with 5SL or 5SY** MCB
- 230/415V AC 50/60Hz

* Depth is indicative of pan assembly with MCB fitted to busbar



8GP1603-4DA40

250A Pan Assembly Incomer Options

Description	List No
250A 3P Switch Disconnecter	8GP1603-4DA40
250A 3P MCCB	8GP1604-4DA40
250A Direct Connection Kit	8GP1605-4DA40

Features

- MCCB complete with Box Terminals
- MCCB is 3VA – TM240 – ATAM
- MCCB is adjustable 70% to 100% of I_n for Thermal Overload
- MCCB is adjustable 5x to 10x I_n for Magnetic Short-Circuit
- MCCB accepts 6mm² to 120mm² *
- Switch Disconnecter complete with Box Terminals
- Switch Disconnecter accepts 6mm² to 120mm² *
- Direct Connection Kit accepts 6mm² to 120mm²

MCBs

1P



5SL4110-7

10kA Breaking Capacity @ 230/415V AC in accordance with BS EN 60898

Rated Current	Characteristic		
	B	C	D
6A	5SL4106-6MB	5SL4106-7MB	5SL4106-8MB
10A	5SL4110-6MB	5SL4110-7MB	5SL4110-8MB
16A	5SL4116-6MB	5SL4116-7MB	5SL4116-8MB
20A	5SL4120-6MB	5SL4120-7MB	5SL4120-8MB
25A	5SL4125-6MB	5SL4125-7MB	5SL4125-8MB
32A	5SL4132-6MB	5SL4132-7MB	5SL4132-8MB
40A	5SL4140-6MB	5SL4140-7MB	5SL4140-8MB
50A	5SL4150-6MB	5SL4150-7MB	5SL4150-8MB
63A	5SL4163-6MB	5SL4163-7MB	5SL4163-8MB
80A	-	5SY4180-7	-

80A MCBs – For use in 250A distribution boards and pan assemblies only

MCBs

2P



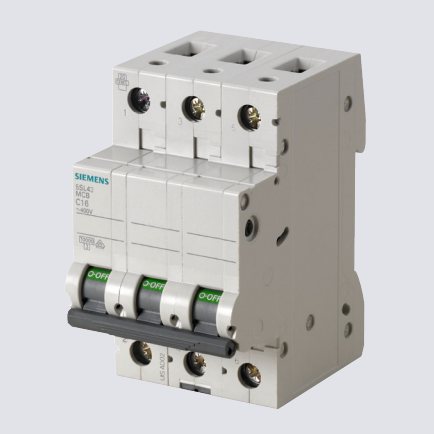
5SL4206-7MB

10kA Breaking Capacity @ 230/415V AC in accordance with BS EN 60898

Rated Current	Characteristic		
	B	C	D
6A	5SL4206-6MB	5SL4206-7MB	5SL4206-8MB
10A	5SL4210-6MB	5SL4210-7MB	5SL4210-8MB
16A	5SL4216-6MB	5SL4216-7MB	5SL4216-8MB
20A	5SL4220-6MB	5SL4220-7MB	5SL4220-8MB
25A	5SL4225-6MB	5SL4225-7MB	5SL4225-8MB
32A	5SL4232-6MB	5SL4232-7MB	5SL4232-8MB
40A	5SL4240-6MB	5SL4240-7MB	5SL4240-8MB
50A	5SL4250-6MB	5SL4250-7MB	5SL4250-8MB
63A	5SL4263-6MB	5SL4263-7MB	5SL4263-8MB

MCBs

3P



5SL4310-7

10kA Breaking Capacity @ 415V AC in accordance with BS EN 60898

Rated Current	Characteristic		
	B	C	D
6A	5SL4306-6MB	5SL4306-7MB	5SL4306-8MB
10A	5SL4310-6MB	5SL4310-7MB	5SL4310-8MB
16A	5SL4316-6MB	5SL4316-7MB	5SL4316-8MB
20A	5SL4320-6MB	5SL4320-7MB	5SL4320-8MB
25A	5SL4325-6MB	5SL4325-7MB	5SL4325-8MB
32A	5SL4332-6MB	5SL4332-7MB	5SL4332-8MB
40A	5SL4340-6MB	5SL4340-7MB	5SL4340-8MB
50A	5SL4350-6MB	5SL4350-7MB	5SL4350-8MB
63A	5SL4363-6MB	5SL4363-7MB	5SL4363-8MB
80A	-	5SY4380-7	-

80A MCBs – For use in 250A distribution boards and pan assemblies only

RCBOs

Standard Tails (600mm)



5SU9304-7KK32

10kA Breaking Capacity @ 230/240V AC in accordance with BS EN 61009
Type A
1P+N (1MW)

Rated Residual Current	Rated Current	Characteristic	
		B	C
30	6	5SU9304-6KK06	5SU9304-7KK06
	10	5SU9304-6KK10	5SU9304-7KK10
	16	5SU9304-6KK16	5SU9304-7KK16
	20	5SU9304-6KK20	5SU9304-7KK20
	25	-	5SU9304-7KK25
	32	5SU9304-6KK32	5SU9304-7KK32
	40	5SU9304-6KK40	5SU9304-7KK40
	50	5SU9304-6KK50	5SU9304-7KK50

RCBOs

Extended Tails (1200mm)



5SU9304-6PK16

10kA Breaking Capacity @ 230/240V AC in accordance with BS EN 61009
Type A
1P+N (1MW)

Rated Residual Current	Rated Current	Characteristic	
		B	C
30	6	5SU9304-6PK06	5SU9304-7PK06
	10	5SU9304-6PK10	5SU9304-7PK10
	16	5SU9304-6PK16	5SU9304-7PK16
	20	5SU9304-6PK20	5SU9304-7PK20
	32	5SU9304-6PK32	5SU9304-7PK32
	40	5SU9304-6PK40	5SU9304-7PK40
	50	5SU9304-6PK50	5SU9304-7PK50

AFDDs

10kA

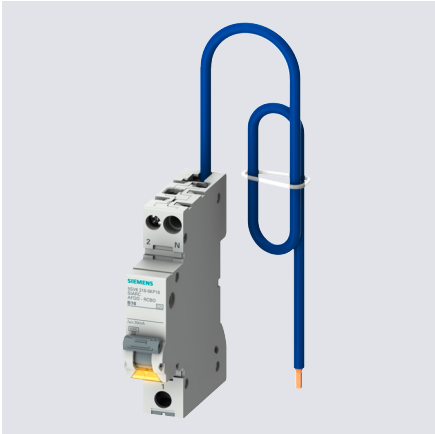


RCBO + AFDD Combination Devices (10kA)
 10kA Breaking Capacity @ 230V AC in accordance with BS EN 60898/62606

Rated Residual Current	Rated Current	Characteristic	
		B	C
30	6	5SV6314-6KP06	5SV6314-7KP06
	10	5SV6314-6KP10	5SV6314-7KP10
	13	5SV6314-6KP13	5SV6314-7KP13
	16	5SV6314-6KP16	5SV6314-7KP16
	20	5SV6314-6KP20	5SV6314-7KP20
	25	5SV6314-6KP25	5SV6314-7KP25
	32	5SV6314-6KP32	5SV6314-7KP32

For use in 125A & 250A B type distribution boards as well as 100A A type distribution boards

AFDDs



5SV6316-7KP06

RCBO + AFDD Combination Devices (6kA)

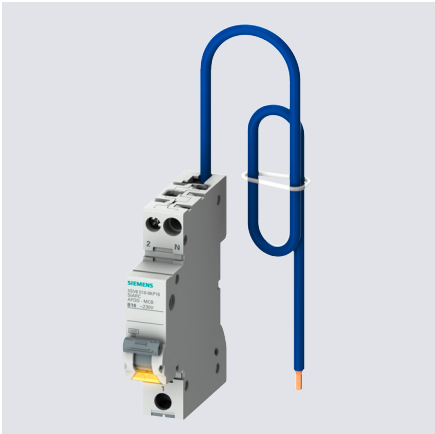
6kA Breaking Capacity @ 230V AC in accordance with BS EN 60898/62606

Rated Residual Current	Rated Current	Tripping Characteristic	
		B	C
30	6	5SV6316-6KP06	5SV6316-7KP06
	10	5SV6316-6KP10	5SV6316-7KP10
	13	5SV6316-6KP13	5SV6316-7KP13
	16	5SV6316-6KP16	5SV6316-7KP16
	20	5SV6316-6KP20	5SV6316-7KP20
	25	5SV6316-6KP25	5SV6316-7KP25
	32	5SV6316-6KP32	5SV6316-7KP32
	40	5SV6316-6KP40	5SV6316-7KP40

Features

- Can be used with 5ST Accessory Range

See following pages for compatible accessories
For use in 125A distribution boards only



5SV6016-6KP16

MCB + AFDD Combination Devices (6kA)

6kA Breaking Capacity @ 230V AC in accordance with BS EN 60898/62606

	Rated Current	Tripping Characteristic	
		B	C
	6	5SV6016-6KP06	5SV6016-7KP06
	10	5SV6016-6KP10	5SV6016-7KP10
	13	5SV6016-6KP13	5SV6016-7KP13
	16	5SV6016-6KP16	5SV6016-7KP16
	20	5SV6016-6KP20	5SV6016-7KP20
	25	5SV6016-6KP25	5SV6016-7KP25
	32	5SV6016-6KP32	5SV6016-7KP32
	40	5SV6016-6KP40	5SV6016-7KP40

Features

- Can be used with 5ST Accessory Range

See following pages for compatible accessories
For use in 125A distribution boards only

DIN Mounted Contactors



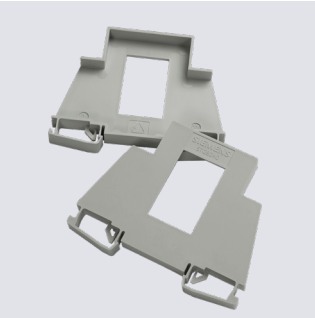
5TT5031-0



5TT5052-0



5TT5001-2



5TG8240

Description	List No
20A Contactors (230V AC coil)	
Contactor 2 NO contacts 20A control 230V AC 1MW	5TT5000-0
Contactor 2 NC contacts 20A control 230V AC 1MW	5TT5002-0
Contactor 1 NO + 1 NC contacts 20A control 230V AC 1MW	5TT5001-0
25A Contactors (230V AC coil)	
Contactor 2 NO + 2 NC contacts 25A control 230V AC 2MW	5TT5032-0
Contactor 4 NC contacts 25A control 230V AC 2MW	5TT5033-0
Contactor 3 NO + 1 NC contacts 25A control 230V AC 2MW	5TT5031-0
Contactor 4 NO contacts 25A control 230V AC 2MW	5TT5030-0
40A Contactors (230V AC coil)	
Contactor 4 NC contacts 40A control 230V AC 3MW	5TT5043-0
Contactor 2 NO + 2 NC contacts 40A control 230V AC 3MW	5TT5042-0
Contactor 3 NO + 1 NC contacts 40A control 230V AC 3MW	5TT5041-0
Contactor 4 NO contacts 40A control 230V AC 3MW	5TT5040-0
63A Contactors (230V AC coil)	
Contactor 2 NO + 2 NC contacts 63A control 230V AC 3MW	5TT5052-0
Contactor 3 NO + 1 NC contacts 63A control 230V AC 3MW	5TT5051-0
Contactor 4 NO contacts 63A control 230V AC 3MW	5TT5050-0

Description	List No
20A Contactors (24V DC coil)	
Contactor 1 NO + 1 NC contacts 20A control 24V AC 1MW	5TT5001-2
Contactor 2 NC contacts 20A control 24V AC 1MW	5TT5002-2
25A Contactors (24V DC coil)	
Contactor 4 NC contacts 25A control 24V AC 2MW	5TT5033-2
Contactor 2 NO + 2 NC contacts 25A control 24V AC 2MW	5TT5032-2
Contactor 3 NO + 1 NC contacts 25A control 24V AC 2MW	5TT5031-2
40A Contactors (24V DC coil)	
Contactor 4 NC contacts 40A control 24V AC 3MW	5TT5043-2
Contactor 2 NO + 2 NC contacts 40A control 24V AC 3MW	5TT5042-2
Contactor 3 NO + 1 NC contacts 40A control 24V AC 3MW	5TT5041-2
63A Contactors (24V DC coil)	
Contactor 2 NO + 2 NC contacts 63A control 24V AC 3MW	5TT5052-2
Contactor 3 NO + 1 NC contacts 63A control 24V AC 3MW	5TT5051-2

Description	List No
1/2 Module Spacer	5TG8240

DIN Mounted 125A RCCBs Type A



5SV3345-6

Description	List No
30mA Type A RCCB	
25A 30mA 4P Type A 5SV3 RCCB	5SV3342-6
40A 30mA 4P Type A 5SV3 RCCB	5SV3344-6
63A 30mA 4P Type A 5SV3 RCCB	5SV3346-6
125A 30mA 4P Type A 5SV3 RCCB	5SV3345-6



5SV3445-6KK01

Description	List No
100mA Type A RCCB	
125A 100mA 4P Type A 5SV3 RCCB	5SV3445-6
125A 100mA 4P Time Delay Type A 5SV3 RCCB	5SV3445-6KK01



5SV3345-6

Description	List No
300mA Type A RCCB	
125A 300mA 4P Type A SSV3 RCCB	5SV3645-6
125A 300mA 4P Time Delay Type A 5SV3 RCCB	SSV3645-6KK01

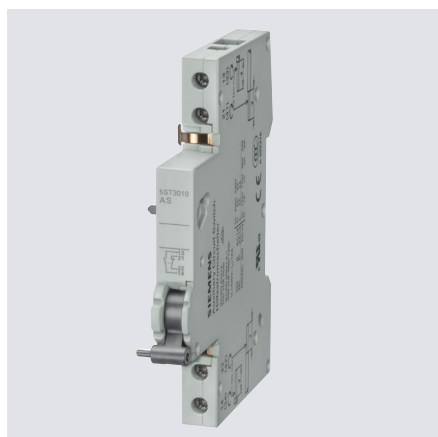
MCB & AFDD

Accessories



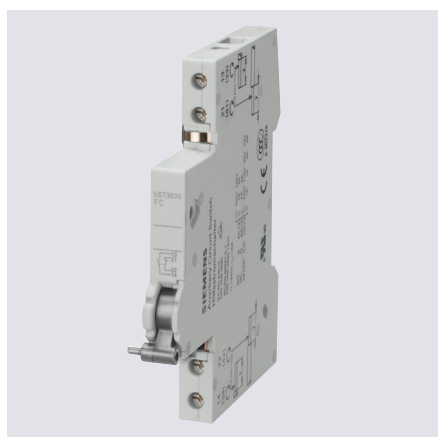
5ST3806

Description	List No
MCB Handle Lock-off Device	5ST3806
5SU9 RCBO Locking Handle	5ST3801
Padlock for the above (Supplied with 2 keys)	5ST3802



5ST3010

Auxiliary switches		List No	5SL4	5SV6
1 NO + 1 NC	Standard	5ST3010	•	•
	For low power	5ST3013	•	•
2 NO	Standard	5ST3011	•	•
	For low power	5ST3014	•	•
2 NC	Standard	5ST3012	•	•
	For low power	5ST3015	•	•
1 CO	Standard	5ST3016	•	•



5ST3020

Fault signal contacts (FC)		List No	5SL4	5SV6
1 NO + 1 NC		5ST3020	•	•
2 NO		5ST3021	•	•
2 NC		5ST3022	•	•

Go to the Industry Mall for the full MCB Accessory range

Auxiliary switches and fault signal contacts (AS+FC)		List No	5SL4	5SV6
1 CO (AS) + 1 CO (FC)	Standard	5ST3062	•	•

Distribution Board

Accessories 125A & 250A



8GP1960-0DA10



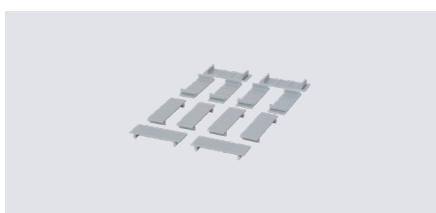
8GP1961-0DA10

Description

Door Cylinder Lock & Key
Pad-Lockable Door Cylinder with Padlock & Key

List No

8GP1960-0DA10
8GP1961-0DA10



8GP1971-1DA11

Description

Blanking Strip (6 x 1 Mod)
Blanking Strip (12 x 1 Mod)
Blanking Strip (4 x 3 Mod)
Blanking Strip (2 x 12 Mod)
1MW MCB Profile Blank
Half module spacer

List No

8GP1970-0DA11
8GP1971-1DA11
8GP1972-0DA12
8GP1973-0DA15
8GP1974-0DA11
5TG8240



8GP1976-0DA17

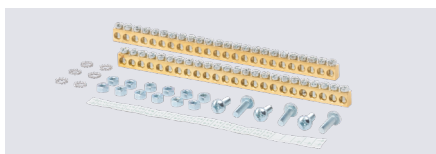
Description

Spare Fixings Kit*

List No

8GP1976-0DA17

*Contains all possible fixings supplied with 125 & 250A DBs. Does not include fixings for wall-mounting.



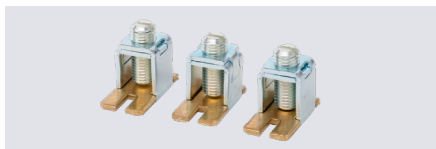
8GP1920-0DA44

Description

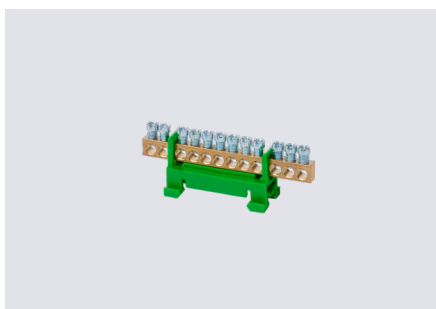
Additional Earth Bar Kit (4 Way TPN)
Additional Earth Bar Kit (6 Way TPN)
Additional Earth Bar Kit (8 Way TPN)
Additional Earth Bar Kit (12 Way TPN)
Additional Earth Bar Kit (16 Way TPN)
Additional Earth Bar Kit (20 Way TPN)
Additional Earth Bar Kit (24 Way TPN)
Cable Clamp Assembly (Converts 16mm ² to 70mm ²)

List No

8GP1920-0DA41
8GP1920-0DA42
8GP1920-0DA43
8GP1920-0DA44
8GP1920-0DA45
8GP1920-0DA46
8GP1920-0DA47
8GP1976-0DA16



8GP1976-0DA16



8GP1931-0DA47

Description

DIN Rail Mounted Neutral Bar – 7 x 10mm ² Terminals
DIN Rail Mounted Neutral Bar – 12 x 10mm ² Terminals
DIN Rail Mounted Neutral Bar – 15 x 10mm ² Terminals
DIN Rail Mounted Earth Bar – 7 x 10mm ² Terminals
DIN Rail Mounted Earth Bar – 12 x 10mm ² Terminals
DIN Rail Mounted Earth Bar – 15 x 10mm ² Terminals

List No

8GP1933-0DA47
8GP1934-0DA47
8GP1935-0DA47
8GP1930-0DA47
8GP1931-0DA47
8GP1932-0DA47

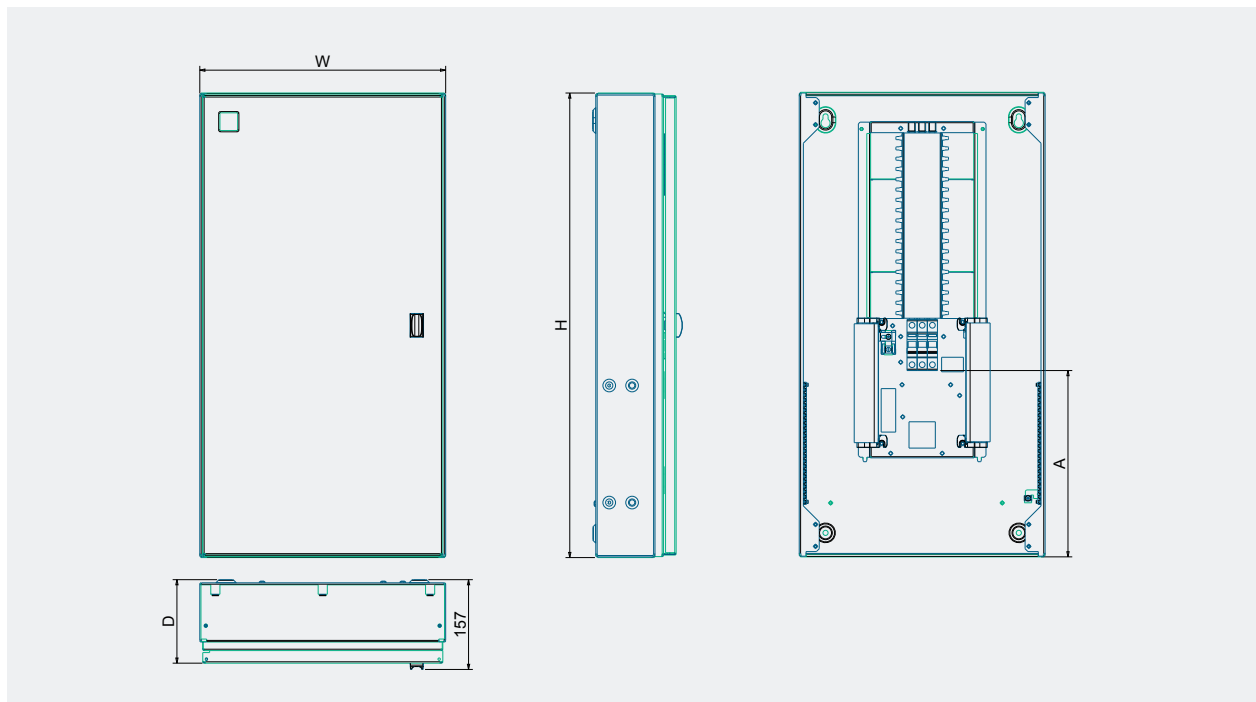
ALPHA BSII Distribution Boards

Technical Data

Distribution Boards					
Description		Dimensions (mm)			Distance from Gland Plate to Incoming Terminals (mm)
		(H)	(W)	(D)	A (Spreading Room)
125A	4 Way	488	430	146	218
	6 Way	569	430	146	245
	8 Way	650	430	146	272
	12 Way	812	430	146	326
	16 Way	893	430	146	299
	20 Way	999	430	146	297
	24Way	1136	430	146	297
250A	4 Way	768	430	146	389
	6 Way	822	430	146	389
	8 Way	876	430	146	389
	12 Way	984	430	146	389
	16 Way	1092	430	146	389
	20 Way	1200	430	146	389
	24 Way	1308	430	146	389
		125A		250A	
Compliance with:		IEC/BS EN 61439-3			
Short Circuit Withstand Rating:		10kA for 0.1s			
Rated Voltage:		230/415V AC, 3PH, 50Hz			
Mounting:		Wall			
Incoming Cable Entry:		Bottom			
Access Panels:		All Fascias			
Ingress Protection:		IP3X as Standard (Door Closed)			
Finish:		Powder Coated RA7035 Light Grey			

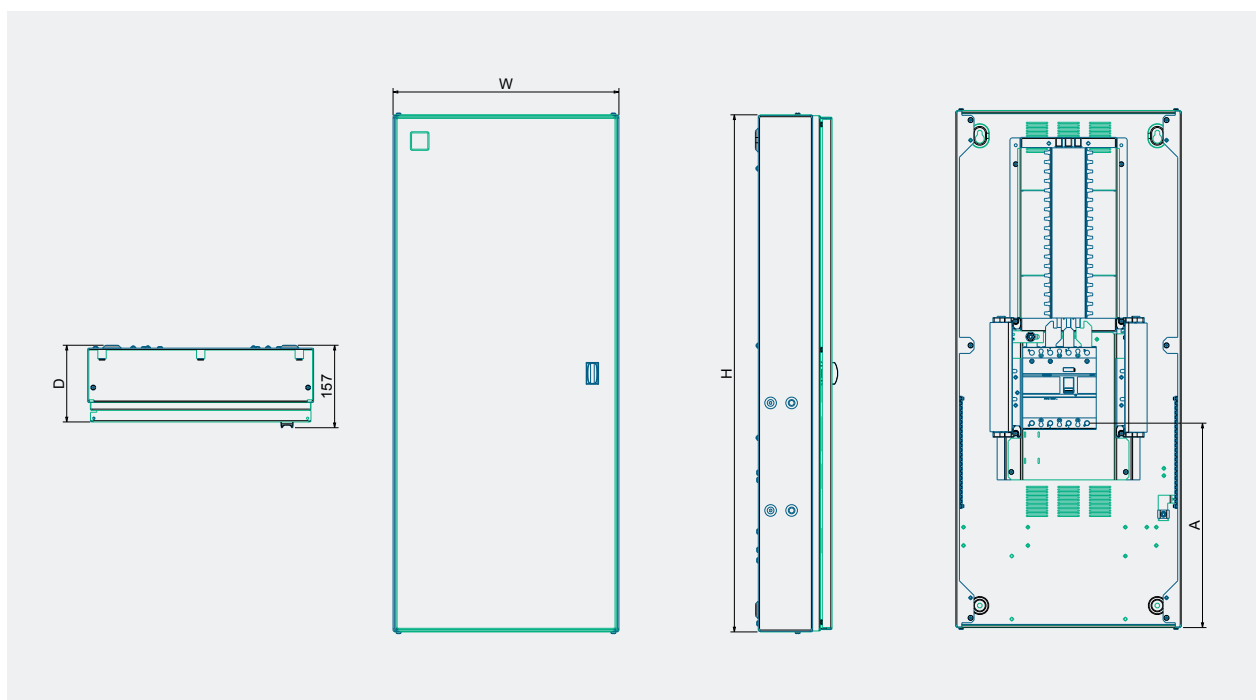
Distribution Boards

125A



Distribution Boards

250A



Add-on Units

Description	Dimensions (mm)		
	(H)	(W)	(D)
Cable Spreader Box	243	430	146
Service Centre – 18 Mod	243	430	146
Service Centre – 36 Mod	405	430	146
1x Rowboard	243	430	146
2x Rowboard	405	430	146
3x Rowboard	567	430	146
4x Rowboard	729	430	146
5x Rowboard	810	430	146
12 Way Add-on Board	675	430	146

Add-on Meter Packs

Description		Dimensions (mm)		
		(H)	(W)	(D)
125A	Single Meter - STD	243	430	146
	Single Meter - MID	243	430	146
	Dual Meter - STD	413	860	146
	Dual Meter - MID	413	860	146
250A	Single Meter - STD	243	430	146
	Single Meter - MID	243	430	146
	Single Meter - STD (185mm ²)	243	430	146
	Single Meter - MID (185mm ²)	243	430	146
	Dual Meter - STD	738	860	139
	Dual Meter - MID	738	860	139

Cable Capacity & terminal Connections – Maximum Stranded Copper Cable

	Incoming Options					Outgoing Options	
	Switch Disconnecter	MCCB	RCCB	Neutral	Earth	Neutral	Earth
125A	50mm ²	-	35mm ²	70mm ²	70mm ²	25mm ²	25mm ²
250A	25 x 8mm Max. (Cable Lug)	25 x 8mm Max. (Cable Lug)	-	120mm ²	120mm ²	25mm ²	25mm ²

Safe and Intelligent **power** **distribution**

ALPHA BSIII 160. Totally Integrated
Power Distribution.

Features

- Fully Type tested to IEC / BS EN 61439-2
- Manufactured in the UK
- Compact with a flexible modular design
- Degree of Protection IP3X
- Busbar systems from 250A to 800A
- Icn from 25kA for 1s up to 65kA for 1s
- Form 3bT2 or 4bT6 GM
- Utilises Siemens 3VA MCCBs
- Quick and easy installation
- Full UK based technical support available
- 1P, 3P and 4P Devices
- 160A Outgoing Devices as standard
- 250A Outgoing Device Add-on Options available





**ALPHA BSII
Distribution
Boards from
125A to 250A**

**ALPHA BSIII 160
Panel Boards
250A to 800A**



Specification Highlights

Outgoing meter options. Standard or MID

Modular construction

3VA Moulded Case Circuit Breaker technology

1.2mm thick mild steel powder coated construction

Outgoing Earth Leakage Protection options

Slim, compact design with ample room for cable dressing

Keyhole fixings for easy power tool access

Fully type tested to IEC / BS EN 61439-2

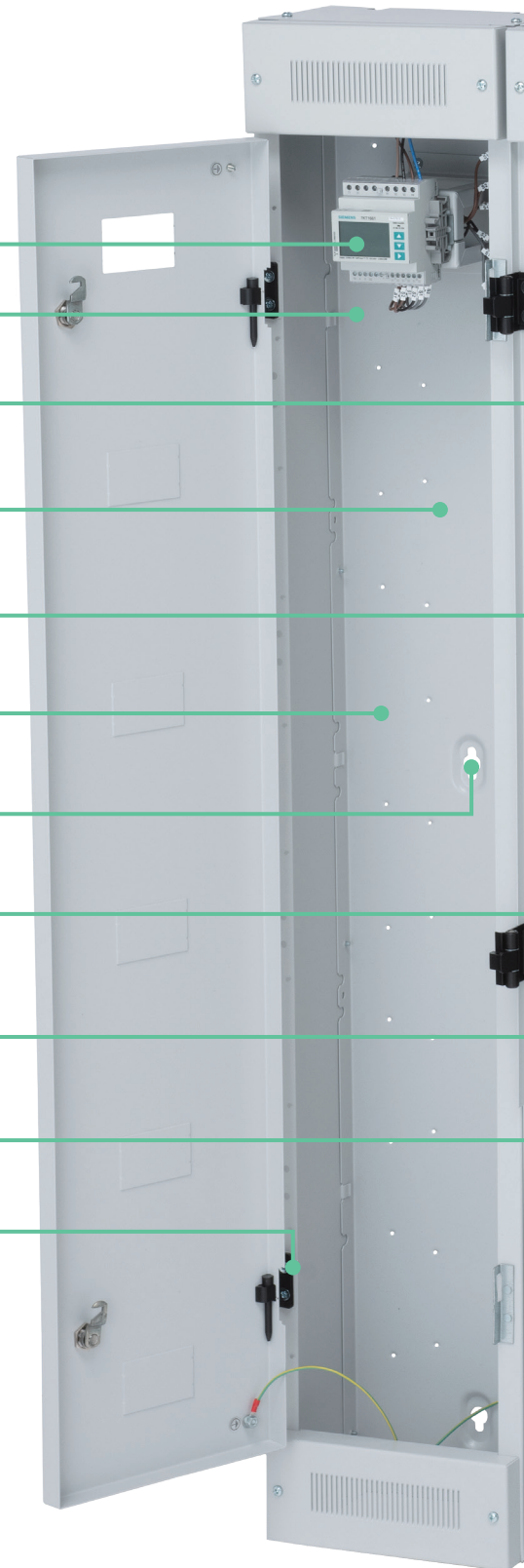
Integral surge protection kits. Type 1, Type 2 or combined

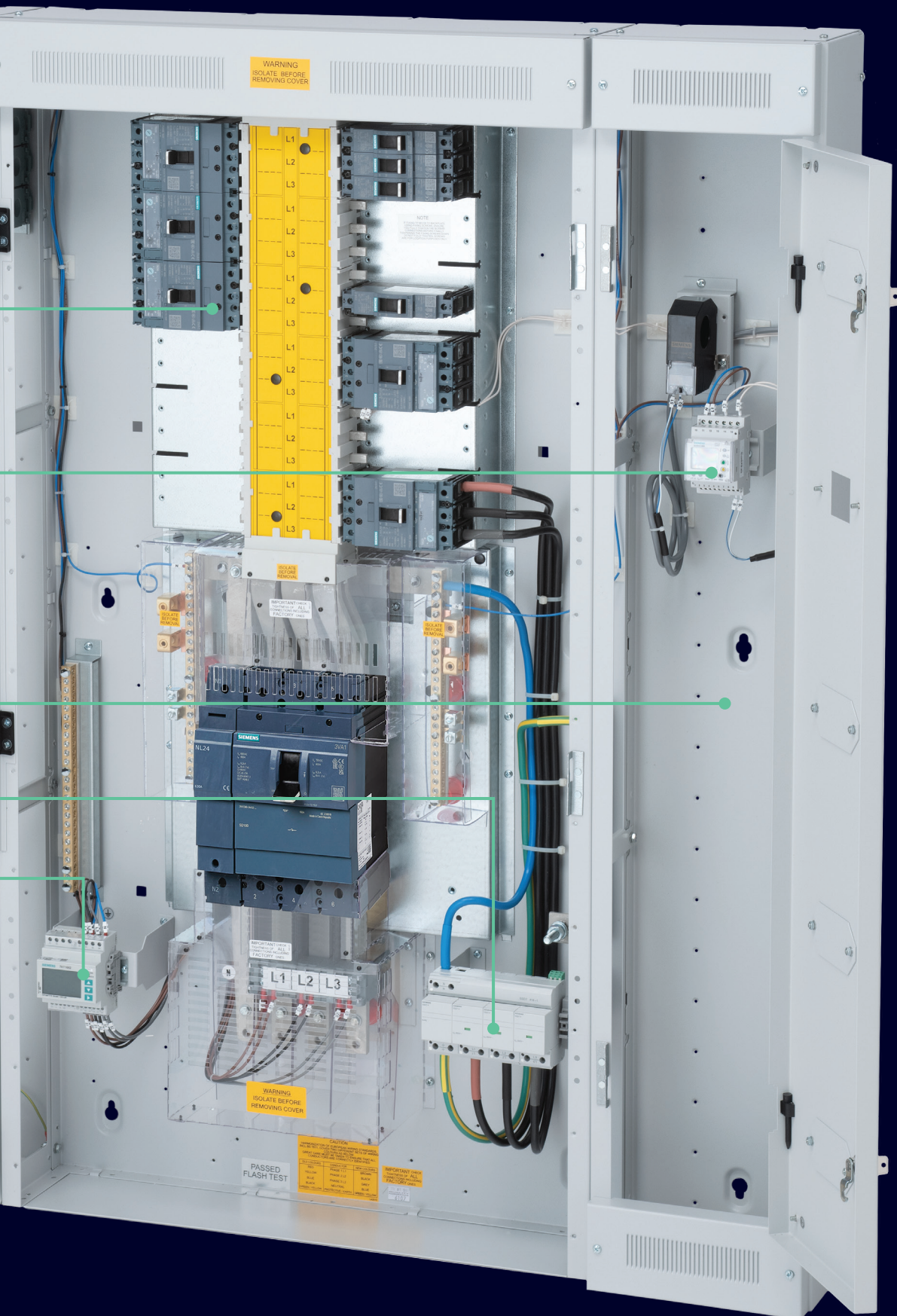
Integral Incoming meter options. Standard or MID

Hinged/removeable Cableway doors

Suitable Applications

- Offices
- Tall Buildings
- Hotels and residential
- Campuses
- Industrial
- Process and Production
- Entertainment and Leisure
- Healthcare





MCCB Panel Boards

ALPHA BSIII 160



8GP1306-4DA54

250A Panel Board

Outgoing ways	H (mm)	W (mm)	D (mm)	List No
6 Way	902	700	198	8GP1306-4DA54
12 Way	1132	700	198	8GP1312-4DA54
18 Way	1361	700	198	8GP1318-4DA54

Features

- 250A rated Busbar
- Type tested & ASTA certified to IEC 61439-2; Ed 2 2011-08
- 25kA for 1s Short Circuit Withstand

Strength

- Form 3b Type 2 Form of Separation
- IP3X (door closed)



3VA1225-1AA32-0AA0

250A Panel Board Incomers

Description	List No
250A 3P Switch Disconnecter	3VA1225-1AA32-0AA0
250A 4P Switch Disconnecter	3VA1225-1AA42-0AA0
250A Direct Connection Coppers	8GP1921-0DA71
Incoming Device Interconnections 3P*	8GP1921-0DA88
Incoming Device Interconnections 4P*	8GP1921-0DA70

Switch Disconnectors

- Fixed Short Circuit Release (SD100)
- Max cable lug connection 25mm wide

- Max busbar/lug 8mm thick

* Interconnections are necessary when selecting a Switch Disconnecter or MCCB incoming device



3VA9253-0JA12

Incomer Accessories

3P		List No
Box Terminals	50...185mm ²	3VA9253-0JA12
Circular Conductor Terminals	50...185mm ²	3VA9213-0JJ13
Extended Terminal Bars	M10 fixing 25mm palm	3VA9253-0QB00
Extended Terminal Bars (Offset)	M10 fixing 30mm palm	3VA9253-0QC00
Terminal Shroud		3VA9211-0WF30
Terminal Shroud (Offset)		3VA9211-0WG30
4P		List No
Box Terminals	50...185mm ²	3VA9254-0JA12
Circular Conductor Terminals	50...185mm ²	3VA9214-0JJ13
Extended Terminal Bars	M10 fixing 25mm palm	3VA9254-0QB00
Extended Terminal Bars (Offset)	M10 fixing 30mm palm	3VA9254-0QC00
Terminal Shroud		3VA9211-0WF40
Terminal Shroud (Offset)		3VA9211-0WG40

If Extended Terminal Bars are selected, we recommend the use of cable spreader box. See Page 16

MCCB Panel Boards

ALPHA BSIII 160



8GP1312-5DA54

400A Panel Board

Outgoing ways	H (mm)	W (mm)	D (mm)	List No
6 way	1132	700	198	8GP1306-5DA54
12 way	1361	700	198	8GP1312-5DA54
18 way	1591	700	198	8GP1318-5DA54

Features

- 400A rated Busbar
- Type tested & ASTA certified to IEC 61439-2; Ed 2 2011-08
- 35kA for 1s Short Circuit Withstand
- Strength
 - Form 3b Type 2 Form of Separation
 - IP3X (door closed)



3VA2340-5HN42-0AA0

400A Panel Board Incomers

Description	List No
400A 3P Switch Disconnecter	3VA1340-1AA32-0AA0
400A 4P Switch Disconnecter	3VA1340-1AA42-0AA0
400A 3P MCCB	3VA2340-5HN32-0AA0
400A 4P MCCB	3VA2340-5HN42-0AA0
400A Direct Connection Coppers	8GP1921-0DA74
Incoming Device Interconnections 3P*	8GP1921-0DA72
Incoming Device Interconnections 4P*	8GP1921-0DA73

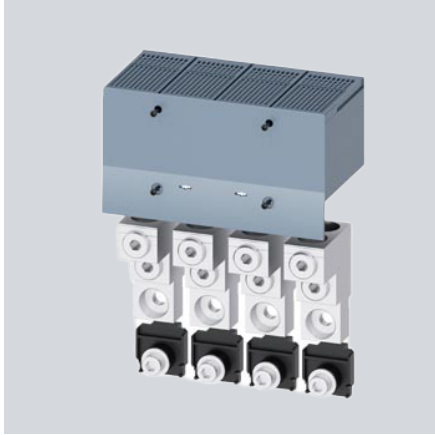
* Interconnections are necessary when selecting a Switch Disconnecter or MCCB incoming device

MCCBs:

- Electronic Trip Unit (ETU350) LSI Protection
- 630A Frame
- $I_n = 400A$
- $I_{cu} = 55kA @ 415V$
- $I_r = 160A...400A$
- $I_{sd} = 1.5...10 \times I_r$
- $I_i = 10 \times I_n$
- N conductor protection adjustable: OFF, 50%, 100% (4P only)
- Max cable lug connection 35mm wide
- Max busbar/lug 10mm thick

Switch Disconnecter

- Fixed Short Circuit Release (SD100)
- Max cable lug connection 35mm wide
- Max busbar/lug 10mm thick



3VA9404-0JJ23

Incomer Accessories

3P		List No
Box Terminals	50...300mm ²	3VA9483-0JA13
Twin Circular Conductor Terminals	2x70...300mm ²	3VA9403-0JJ23
Extended Terminal Bars	M10 fixing 35mm palm	3VA9483-0QB00
Extended Terminal Bars (Offset)	M12 fixing 45mm palm	3VA9483-0QC00
Terminal Shroud		3VA9481-0WF30
Terminal Shroud (Offset)		3VA9401-0WG30

4P		List No
Box Terminals	50...300mm ²	3VA9484-0JA13
Twin Circular Conductor Terminals	2x70...300mm ²	3VA9404-0JJ23
Extended Terminal Bars	M10 fixing 35mm palm	3VA9484-0QB00
Extended Terminal Bars (Offset)	M12 fixing 45mm palm	3VA9484-0QC00
Terminal Shroud		3VA9481-0WF40
Terminal Shroud (Offset)		3VA9401-0WG40

- If Extended Terminal Bars are selected, we recommend the use of cable spreader box.
See Page 16

MCCB Panel Boards

ALPHA BSIII 160



8GP1312-5DA54

630A Panel Board

Outgoing ways	H (mm)	W (mm)	D (mm)	List No
6 way	1132	700	198	8GP1306-7DA54
12 way	1361	700	198	8GP1312-7DA54
18 way	1591	700	198	8GP1318-7DA54

Features

- 630A rated Busbar
- Type tested & ASTA certified to IEC 61439-2; Ed 2 2011-08
- 35kA for 1s Short Circuit Withstand

Strength

- Form 3b Type 2 Form of Separation
- IP3X (door closed)



3VA2340-5HN42-0AA0

630A Panel Board Incomers

Description	List No
630A TP Switch Disconnecter	3VA1463-1AA32-0AA0
630A 4P Switch Disconnecter** (max load 500A)	3VA1450-1AA42-0AA0
630A TP MCCB	3VA2463-5HN32-0AA0
630A 4P MCCB	3VA2463-5HN42-0AA0
630A Direct Connection Coppers	8GP1801-0DA10
Incoming Device Interconnections TP*	8GP1801-0DA07
Incoming Device Interconnections 4P*	8GP1801-0DA08

* Interconnections are necessary when selecting a Switch Disconnecter or MCCB incoming device

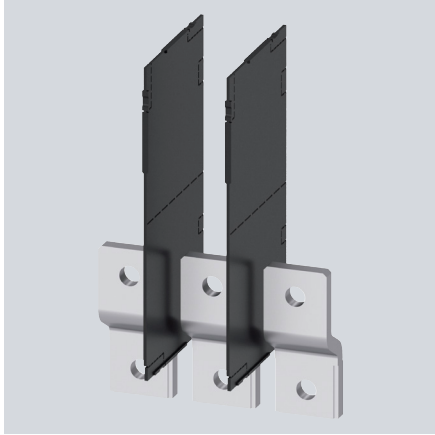
**To be de-rated to 500A

MCCBs:

- Electronic Trip Unit (ETU350) LSI Protection
- 630A Frame
- $I_n = 630A$
- $I_{cu} = 55kA @ 415V$
- $I_r = 250A...630A$
- $I_{sd} = 1.5...9 \times I_r$
- $I_l = 9 \times I_n$
- N conductor protection adjustable: OFF, 50%, 100% (4P only)
- Max cable lug connection 35mm wide
- Max busbar/lug 10mm thick

Switch Disconnecter

- Fixed Short Circuit Release (SD100)
- Max cable lug connection 35mm wide
- Max busbar/lug 10mm thick



3VA9483-QJB00

Incomer Accessories

3P		List No
Box Terminals	50...300mm ²	3VA9483-0JA13
Twin Circular Conductor Terminals	2x70...300mm ²	3VA9403-0JJ23
Extended Terminal Bars	M10 fixing 35mm palm	3VA9483-QJB00
Extended Terminal Bars (Offset)	M12 fixing 45mm palm	3VA9483-QQC00
Terminal Shroud		3VA9481-0WF30
Terminal Shroud (Offset)		3VA9401-0WG30

4P		List No
Box Terminals	50...300mm ²	3VA9484-0JA13
Twin Circular Conductor Terminals	2x70...300mm ²	3VA9404-0JJ23
Extended Terminal Bars	M10 fixing 35mm palm	3VA9484-QJB00
Extended Terminal Bars (Offset)	M12 fixing 45mm palm	3VA9484-QQC00
Terminal Shroud		3VA9481-0WF40
Terminal Shroud (Offset)		3VA9401-0WG40

- If Extended Terminal Bars are selected, we recommend the use of cable spreader box.
See Page 16

MCCB Panel Boards

ALPHA BSIII 160



8GP1921-0DA75

800A Panel Board

Outgoing ways	H (mm)	W (mm)	D (mm)	List No
4 way	1361	700	226	8GP1921-0DA75
8 way	1591	700	226	8GP1921-0DA76
12 way	1820	700	226	8GP1921-0DA77

Features

- 800A rated
- 4P Panel Board (Form 4b Type 6 GM)
- Type tested & ASTA certified to IEC 61439-2; Ed 2 2011-08
- 65kA for 1s Short Circuit Withstand Strength
- Form 4b Type 6 Form of Separation
- IP3X (door closed)



3VA2780-2AC13-0AA0

800A Panel Board Incomers

Description	List No
800A 4P Switch Disconnecter	3VA2780-1AA13-0AA0
800A 4P Push Button Operated MCCB	3VA2780-2AC13-0AA0
800A Direct Connection Coppers	8GP1921-0DA81
Incoming Device Interconnections 4P*	8GP1921-0DA80

* Interconnections are necessary when selecting a Switch Disconnecter or MCCB incoming device

Push Button Operated MCCB

- Electronic Trip Unit (ETU350) LSI Protection
- 1600A Frame
- $I_n = 800A$
- $I_{cu} = 85kA @ 415V$
- $I_r = 320A...800A$
- $I_{sd} = 1...10 \times I_n$
- $I_i = 1.5...15 \times I_n$
- N conductor protection adjustable: OFF, 50%, 100%, 200%
- See data sheet for connection spacing

Switch Disconnecter

- Fixed Short Circuit Release (SD100)
- $I_n = 800A$
- $I_{cu} = 55kA @ 415V$
- Max cable lug connection/busbar 50mm wide
- See data sheet for connection spacing



3VW9011-0AL72

Incomer Accessories

4P		List No
Extended Terminal Bars		3VW9011-0AL78
Quad Circular Conductor Terminals	4 x 240mm ²	3VW9011-0AL72
Terminal Shroud		3VW9724-0WF40

Integral Incoming Metering



250A Panel Board Metering

List No

Standard 250A Meter Kit	8GP1921-0DA82
MID 250A Meter Kit	8GP1921-0DA83

- Contains PAC1600 Meter offering Amps, Volts & kWh readout along with appropriate Current Transformers, Mounting Plates & Cable Looms. The latter supplied loose for connection by Installer
- Only one of the above options is possible per Panel Board
- Voltage supply loom kit required for ANY metering option. Please see page 16



400A Panel Board Metering

List No

Standard 400A Meter Kit	8GP1921-0DA84
MID 400A Meter Kit	8GP1921-0DA85

- Contains PAC1600 Meter offering Amps, Volts & kWh readout along with appropriate Current Transformers, Mounting Plates & Cable Looms. The latter supplied loose for connection by Installer
- Only one of the above options is possible per Panel Board
- Voltage supply loom kit required for ANY metering option. Please see page 16



630A Panel Board Metering

List No

Standard 630A Meter Kit	8GP1802-0DA03
MID 630A Meter Kit	8GP1802-0DA04

- Contains PAC1600 Meter offering Amps, Volts & kWh readout along with appropriate Current Transformers, Mounting Plates & Cable Looms. The latter supplied loose for connection by Installer
- Only one of the above options is possible per Panel Board
- Voltage supply loom kit required for ANY metering option. Please see page 16



800A Panel Board Metering

List No

Standard 800A Meter Kit	8GP1921-0DA86
MID 800A Meter Kit	8GP1921-0DA87

- Contains PAC1600 Meter offering Amps, Volts & kWh readout along with appropriate Current Transformers, Mounting Plates & Cable Looms. The latter supplied loose for connection by Installer
- Only one of the above options is possible per Panel Board
- Voltage supply loom kit required for ANY metering option. Please see page 16

Integral Surge Protection Kits



8GP1802-0DA08

250A, 400A & 630A Panel Boards

	List No
Lighting Arrester Kit (Type 1)	8GP1802-0DA08
Surge Arrester Kit (Type 2)	8GP1802-0DA07
Combo Lighting & Surge Arrester Kit (Type 1/2)	8GP1802-0DA10

- Each kit contains: Arrester, 3P MCCB, mounting base & cables
- Kits will utilise the bottom right hand outgoing way for MCCB connection
- Only one of the above options is possible per Panel Board



800A Panel Boards

	List No
Lighting Arrester Kit (Type 1)	8GP1802-0DA28
Surge Arrester Kit (Type 2)	8GP1802-0DA27
Combo Lighting & Surge Arrester Kit (Type 1/2)	8GP1802-0DA30

- Each kit contains: Arrester, 4P MCCB, mounting base & cables
- Kits will utilise the bottom right hand outgoing way for MCCB connection
- Only one of the above options is possible per Panel Board

Outgoing Metering



8GP1917-0DA01

Standard Metering

Available outputs: Pulsed Output & ModBus (RTU)

List No

160A 3P Meter Kit	8GP1917-0DA01
250A 3P Meter Kit	8GP1802-0DA21

- 250A kit for use with 2W 250A add-on unit only
- Contains PAC1600 Meter offering Amps, Volts & kWh readout along with appropriate Current Transformers, Mounting Plates & Cable Looms. The latter supplied loose for connection by Installer
- Available data outputs can be used simultaneously

MID Metering

Available outputs: Pulsed Output & ModBus (RTU)

List No

160A 3P 4w Meter Kit	8GP1917-0DA02
250A 3P 4w Meter Kit	8GP1802-0DA22

- 250A kit for use with 2W 250A add-on unit only
- Contains PAC1600 Meter offering Amps, Volts & kWh readout along with appropriate Current Transformers, Mounting Plates & Cable Looms. The latter supplied loose for connection by Installer
- For multiple 1P MID meter kits contact our custom built panel team (FBA)
- Available data outputs can be used simultaneously



8GP1802-0DA23

Meter Pack Voltage Supply Loom

Description

List No

250A, 400A, 630A & 800A Panel Boards	8GP1802-0DA23
--------------------------------------	---------------

- Voltage supply loom kit required for any metering option
- One voltage supply loom required per cableway

Outgoing Earth Leakage Protection



8GP1921-0DA13

Outgoing Earth Leakage Kit

Consisting of:

Modular Residual Current Device (MRCD) with adjustable earth leakage sensitivity from 30mA to 3A (0,03A, 0.1A, 0.3A, 0.5A, 1A, 2A, 3A)

Adjustable time delay from 0 to 10s (INS, SEL, 0.06s, 0.1s, 0.3s, 0.4s, 0.5s, 1s, 3s, 5s, 10s) and Summation Current Transformer

	List No
35mm Internal Diameter	8GP1921-0DA13
70mm Internal Diameter	8GP1921-0DA14

- Outgoing Earth leakage kits for use with 3P or 4P MCCB's only



8GP1802-0DA24

Earth Leakage Voltage Supply Loom

Description

List No

250A, 400A, 630A & 800A Panel Boards	8GP1802-0DA24
--------------------------------------	---------------

- Voltage supply loom kit required for any earth leakage option
- One voltage supply loom required per cableway

Cableways



Meter Cableways

Description	Meter Knockouts	250	400	630	800	List No
Size 1	4	6W	-	-	-	8GP1921-ODA16
Size 2	4	12W	6W	6W	-	8GP1921-ODA17
Size 3	6	18W	12W	12W	4W	8GP1921-ODA18
Size 4	8	-	18W	18W	8W	8GP1921-ODA20
Size 5	8	-	-	-	12W	8GP1921-ODA40

- If metered cableway & earth leakage cableway options are required simultaneously, please contact our custom built panel team (FBA). Please see contact details on the back page of this document.

8GP1921-ODA18



Earth Leakage Cableways

Description	MRCD Knockouts	250	400	630	800	List No
Size 1	3	6W	-	-	-	8GP1921-ODA41
Size 2	4	12W	6W	6W	-	8GP1921-ODA42
Size 3	5	18W	12W	12W	4W	8GP1921-ODA43
Size 4	6	-	18W	18W	8W	8GP1921-ODA44
Size 5	7	-	-	-	12W	8GP1921-ODA45

- If metered cableway & earth leakage cableway options are required simultaneously, please contact our custom built panel team (FBA). Please see contact details on the back page of this document.

8GP1921-ODA43

Add-on Options



8GP1921-0DA25

Add-on MCCB Enclosure for 630A Panel Boards

Description	List No
1 way 250A & 1 way 200A 3P Outgoing MCCB Housing	8GP1921-0DA25

- Includes all interconnections
- Accepts 3VA12 range of MCCBs up to 250A (limited to 450A max load)
- Busbar 25kA for 1s Short Circuit Withstand Strength
- Includes L/H & R/H cableways to suit 2W add-on unit.
- Dims: 380mm high x 1200mm wide x 198mm deep

Add-on MCCB Enclosure for 800A Panel Board

Description	List No
2 way 250A 4P Outgoing MCCB Housing	8GP1921-0DA26

- Requires interconnections
- Accepts 3VA12 range of MCCB's up to 250A (limited to 400A max load)
- Busbar 25kA for 1s Short Circuit Withstand Strength

Description	List No
Interconnection - 800A 4 way panel board	8GP1921-1DA01
Interconnection - 800A 8 way panel board	8GP1921-1DA02
Interconnection - 800A 12 way panel board	8GP1921-1DA03

Add-on Control Module Enclosure

Description	List No
Add-on Control Module Enclosure	8GP1921-0DA21

- 24 module (each 18mm wide), DIN rail
- Dims: 230mm high x 700mm x 198mm deep

Add-on Distribution Board (Not for use with 800A Panel Board)

Description	List No
Add-on 100A 1P+N Distribution Board - 20 way 1P+N	8GP1921-0DA22

- Supplied with 100A 2P Switch Disconnecter and comb busbar
- Accepts Siemens MCBs up to 63A.
- Dims: 230mm high x 700mm wide x 198mm deep

Add-on Options



8GP1921-0DA23

Add-on Distribution Board (not for use with 800A Panel Board)

Description	List No
Add-on 80A 3P+N Distribution Board - 6 way 3P+N	8GP1921-0DA23

- Supplied with 80A 3P+N Switch Disconnecter and comb busbar
- Accepts Siemens MCBs up to 63A.
- Dims: 230mm high x 700mm wide x 198mm deep

Add-on Cable Spreader Box

Description	List No
Add-on Cable Spreader Box	8GP1921-0DA24

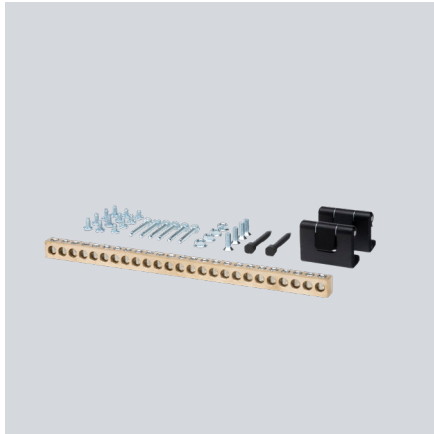
- Empty Enclosure
- Dims: 230mm high x 700mm wide x 198mm deep

Corner Unit

Description	List No
Corner Unit	8GP1921-0DA15

- Two corner units needed per add on option - Excludes 2 Way add on options
- Dims: 230mm high x 249mm wide x 198mm deep

Panel Board Accessories



8GP1921-0DA56

Spares / Replacement Parts

Description	List No
Replacement Gland Plates - Panel Board	8GP1921-0DA27
Replacement Gland Plates - Cableway	8GP1921-0DA28
Door Hinge (set of 2)	8GP1921-0DA53
Door Lock Latch	8GP1921-0DA55
Lock & Key	8GP1921-0DA54
Oversized Cable Clamps for Terminal Bar (35mm ²) pack of 3	8GP1921-0DA50
Oversized Cable Clamps for Terminal Bar (70mm ²) pack of 3	8GP1921-0DA51
Incoming Earth Connection	8GP1921-0DA52
Replacement Fixing Kit	8GP1921-0DA56
Terminal Bar (11 Connections)	8GP1921-0DA57
Terminal Bar (21 Connections)	8GP1921-0DA58
Terminal Bar (31 Connections)	8GP1921-0DA67

Way Labels

Way Labels	List No
6-Way	8GP1921-0DA60
12-Way	8GP1921-0DA61
18-Way	8GP1921-0DA62
4-Way(4P)	8GP1921-0DA63
8-Way(4P)	8GP1921-0DA64
12-Way(4P)	8GP1921-0DA65

Gland Plates

Gland Plates	List No
Aluminium Gland Plate, 3mm - Panel Board	8GP1921-0DA30
Aluminium Gland Plate, 3mm - Cableway	8GP1921-0DA31
Brass Gland Plate, 3mm- Panel Board	8GP1921-0DA32

Blanking Kits

Blanking Kits	List No
Busbar & Shield blanking kit – 1P	8GP1921-0DA10
Busbar & Shield blanking kit – 3P	8GP1921-0DA11
Busbar & Shield blanking kit – 4P	8GP1921-0DA12

TM210 - FTFM Fixed Thermal & Fixed Magnetic Protection



Breaking Capacity @ 240V AC

Rated Current 1P	25kA	36kA	55kA	70kA
16A	3VA1196-3ED16-0AA0	3VA1196-4ED16-0AA0	3VA1196-5ED16-0AA0	-
20A	3VA1120-3ED16-0AA0	3VA1120-4ED16-0AA0	3VA1120-5ED16-0AA0	-
25A	3VA1125-3ED16-0AA0	3VA1125-4ED16-0AA0	3VA1125-5ED16-0AA0	-
32A	3VA1132-3ED16-0AA0	3VA1132-4ED16-0AA0	3VA1132-5ED16-0AA0	-
40A	3VA1140-3ED16-0AA0	3VA1140-4ED16-0AA0	3VA1140-5ED16-0AA0	-
50A	3VA1150-3ED16-0AA0	3VA1150-4ED16-0AA0	3VA1150-5ED16-0AA0	-
63A	3VA1163-3ED16-0AA0	3VA1163-4ED16-0AA0	3VA1163-5ED16-0AA0	-
80A	3VA1180-3ED16-0AA0	3VA1180-4ED16-0AA0	3VA1180-5ED16-0AA0	-
100A	3VA1110-3ED16-0AA0	3VA1110-4ED16-0AA0	3VA1110-5ED16-0AA0	-
125A	3VA1112-3ED16-0AA0	3VA1112-4ED16-0AA0	3VA1112-5ED16-0AA0	-
160A	3VA1116-3ED16-0AA0	3VA1116-4ED16-0AA0	3VA1116-5ED16-0AA0	-



Breaking Capacity @ 415V AC

Rated Current 3P	25kA	36kA	55kA	70kA
16A	3VA1196-3ED36-0AA0	3VA1196-4ED36-0AA0	3VA1196-5ED36-0AA0	3VA1196-6ED36-0AA0
20A	3VA1120-3ED36-0AA0	3VA1120-4ED36-0AA0	3VA1120-5ED36-0AA0	3VA1120-6ED36-0AA0
25A	3VA1125-3ED36-0AA0	3VA1125-4ED36-0AA0	3VA1125-5ED36-0AA0	3VA1125-6ED36-0AA0
32A	3VA1132-3ED36-0AA0	3VA1132-4ED36-0AA0	3VA1132-5ED36-0AA0	3VA1132-6ED36-0AA0
40A	3VA1140-3ED36-0AA0	3VA1140-4ED36-0AA0	3VA1140-5ED36-0AA0	3VA1140-6ED36-0AA0
50A	3VA1150-3ED36-0AA0	3VA1150-4ED36-0AA0	3VA1150-5ED36-0AA0	3VA1150-6ED36-0AA0
63A	3VA1163-3ED36-0AA0	3VA1163-4ED36-0AA0	3VA1163-5ED36-0AA0	3VA1163-6ED36-0AA0
80A	3VA1180-3ED36-0AA0	3VA1180-4ED36-0AA0	3VA1180-5ED36-0AA0	3VA1180-6ED36-0AA0
100A	3VA1110-3ED36-0AA0	3VA1110-4ED36-0AA0	3VA1110-5ED36-0AA0	3VA1110-6ED36-0AA0
125A	3VA1112-3ED36-0AA0	3VA1112-4ED36-0AA0	3VA1112-5ED36-0AA0	3VA1112-6ED36-0AA0
160A	3VA1116-3ED36-0AA0	3VA1116-4ED36-0AA0	3VA1116-5ED36-0AA0	3VA1116-6ED36-0AA0

- If selecting 1P or 3P devices for use in the 4P Panel Board (800A), please ensure a Neutral Link is selected to allow termination of the Neutral Connection. Please see page 24



Breaking Capacity @ 415V AC

Rated Current 4P	25kA	36kA	55kA	70kA
16A	3VA1196-3GD46-0AA0	3VA1196-4GD46-0AA0	3VA1196-5GD46-0AA0	3VA1196-6GD46-0AA0
20A	3VA1120-3GD46-0AA0	3VA1120-4GD46-0AA0	3VA1120-5GD46-0AA0	3VA1120-6GD46-0AA0
25A	3VA1125-3GD46-0AA0	3VA1125-4GD46-0AA0	3VA1125-5GD46-0AA0	3VA1125-6GD46-0AA0
32A	3VA1132-3GD46-0AA0	3VA1132-4GD46-0AA0	3VA1132-5GD46-0AA0	3VA1132-6GD46-0AA0
40A	3VA1140-3GD46-0AA0	3VA1140-4GD46-0AA0	3VA1140-5GD46-0AA0	3VA1140-6GD46-0AA0
50A	3VA1150-3GD46-0AA0	3VA1150-4GD46-0AA0	3VA1150-5GD46-0AA0	3VA1150-6GD46-0AA0
63A	3VA1163-3GD46-0AA0	3VA1163-4GD46-0AA0	3VA1163-5GD46-0AA0	3VA1163-6GD46-0AA0
80A	3VA1180-3GD46-0AA0	3VA1180-4GD46-0AA0	3VA1180-5GD46-0AA0	3VA1180-6GD46-0AA0
100A	3VA1110-3GD46-0AA0	3VA1110-4GD46-0AA0	3VA1110-5GD46-0AA0	3VA1110-6GD46-0AA0
125A	3VA1112-3GD46-0AA0	3VA1112-4GD46-0AA0	3VA1112-5GD46-0AA0	3VA1112-6GD46-0AA0
160A	3VA1116-3GD46-0AA0	3VA1116-4GD46-0AA0	3VA1116-5GD46-0AA0	3VA1116-6GD46-0AA0

TM220 - ATFM Adjustable Thermal & Fixed Magnetic Protection



Thermal adjustment = 70% ... 100% of I_n
Breaking Capacity @ 415V AC

Rated Current 3P	25kA	36kA	55kA	70kA
16A	3VA1196-3EE36-0AA0	3VA1196-4EE36-0AA0	3VA1196-5EE36-0AA0	3VA1196-6EE36-0AA0
20A	3VA1120-3EE36-0AA0	3VA1120-4EE36-0AA0	3VA1120-5EE36-0AA0	3VA1120-6EE36-0AA0
25A	3VA1125-3EE36-0AA0	3VA1125-4EE36-0AA0	3VA1125-5EE36-0AA0	3VA1125-6EE36-0AA0
32A	3VA1132-3EE36-0AA0	3VA1132-4EE36-0AA0	3VA1132-5EE36-0AA0	3VA1132-6EE36-0AA0
40A	3VA1140-3EE36-0AA0	3VA1140-4EE36-0AA0	3VA1140-5EE36-0AA0	3VA1140-6EE36-0AA0
50A	3VA1150-3EE36-0AA0	3VA1150-4EE36-0AA0	3VA1150-5EE36-0AA0	3VA1150-6EE36-0AA0
63A	3VA1163-3EE36-0AA0	3VA1163-4EE36-0AA0	3VA1163-5EE36-0AA0	3VA1163-6EE36-0AA0
80A	3VA1180-3EE36-0AA0	3VA1180-4EE36-0AA0	3VA1180-5EE36-0AA0	3VA1180-6EE36-0AA0
100A	3VA1110-3EE36-0AA0	3VA1110-4EE36-0AA0	3VA1110-5EE36-0AA0	3VA1110-6EE36-0AA0
125A	3VA1112-3EE36-0AA0	3VA1112-4EE36-0AA0	3VA1112-5EE36-0AA0	3VA1112-6EE36-0AA0
160A	3VA1116-3EE36-0AA0	3VA1116-4EE36-0AA0	3VA1116-5EE36-0AA0	3VA1116-6EE36-0AA0



Thermal adjustment = 70% ... 100% of I_n
Breaking Capacity @ 415V AC

Rated Current 4P	25kA	36kA	55kA	70kA
16A	3VA1196-3GE46-0AA0	3VA1196-4GE46-0AA0	3VA1196-5GE46-0AA0	3VA1196-6GE46-0AA0
20A	3VA1120-3GE46-0AA0	3VA1120-4GE46-0AA0	3VA1120-5GE46-0AA0	3VA1120-6GE46-0AA0
25A	3VA1125-3GE46-0AA0	3VA1125-4GE46-0AA0	3VA1125-5GE46-0AA0	3VA1125-6GE46-0AA0
32A	3VA1132-3GE46-0AA0	3VA1132-4GE46-0AA0	3VA1132-5GE46-0AA0	3VA1132-6GE46-0AA0
40A	3VA1140-3GE46-0AA0	3VA1140-4GE46-0AA0	3VA1140-5GE46-0AA0	3VA1140-6GE46-0AA0
50A	3VA1150-3GE46-0AA0	3VA1150-4GE46-0AA0	3VA1150-5GE46-0AA0	3VA1150-6GE46-0AA0
63A	3VA1163-3GE46-0AA0	3VA1163-4GE46-0AA0	3VA1163-5GE46-0AA0	3VA1163-6GE46-0AA0
80A	3VA1180-3GE46-0AA0	3VA1180-4GE46-0AA0	3VA1180-5GE46-0AA0	3VA1180-6GE46-0AA0
100A	3VA1110-3GE46-0AA0	3VA1110-4GE46-0AA0	3VA1110-5GE46-0AA0	3VA1110-6GE46-0AA0
125A	3VA1112-3GE46-0AA0	3VA1112-4GE46-0AA0	3VA1112-5GE46-0AA0	3VA1112-6GE46-0AA0
160A	3VA1116-3GE46-0AA0	3VA1116-4GE46-0AA0	3VA1116-5GE46-0AA0	3VA1116-6GE46-0AA0

TM240 - ATAM Adjustable Thermal & Adjustable Magnetic Protection



Thermal adjustment = 70% ... 100% of I_n
Magnetic adjustment = 5x ... 10x I_n
Breaking Capacity @ 415V AC

Rated Current 3P	25kA	36kA	55kA	70kA
16A	3VA1196-3EF36-0AA0	3VA1196-4EF36-0AA0	3VA1196-5EF36-0AA0	3VA1196-6EF36-0AA0
20A	3VA1120-3EF36-0AA0	3VA1120-4EF36-0AA0	3VA1120-5EF36-0AA0	3VA1120-6EF36-0AA0
25A	3VA1125-3EF36-0AA0	3VA1125-4EF36-0AA0	3VA1125-5EF36-0AA0	3VA1125-6EF36-0AA0
32A	3VA1132-3EF36-0AA0	3VA1132-4EF36-0AA0	3VA1132-5EF36-0AA0	3VA1132-6EF36-0AA0
40A	3VA1140-3EF36-0AA0	3VA1140-4EF36-0AA0	3VA1140-5EF36-0AA0	3VA1140-6EF36-0AA0
50A	3VA1150-3EF36-0AA0	3VA1150-4EF36-0AA0	3VA1150-5EF36-0AA0	3VA1150-6EF36-0AA0
63A	3VA1163-3EF36-0AA0	3VA1163-4EF36-0AA0	3VA1163-5EF36-0AA0	3VA1163-6EF36-0AA0
80A	3VA1180-3EF36-0AA0	3VA1180-4EF36-0AA0	3VA1180-5EF36-0AA0	3VA1180-6EF36-0AA0
100A	3VA1110-3EF36-0AA0	3VA1110-4EF36-0AA0	3VA1110-5EF36-0AA0	3VA1110-6EF36-0AA0
125A	3VA1112-3EF36-0AA0	3VA1112-4EF36-0AA0	3VA1112-5EF36-0AA0	3VA1112-6EF36-0AA0
160A	3VA1116-3EF36-0AA0	3VA1116-4EF36-0AA0	3VA1116-5EF36-0AA0	3VA1116-6EF36-0AA0
200A*	-	3VA1220-4EF32-0AA0	3VA1220-6EF32-0AA0	3VA1220-6EF32-0AA0
250A*	-	3VA1225-4EF32-0AA0	3VA1225-5EF32-0AA0	3VA1225-6EF32-0AA0



Thermal adjustment = 70% ... 100% of I_n
Magnetic adjustment = 5x ... 10x I_n
Breaking Capacity @ 415V AC

Rated Current 4P	25kA	36kA	55kA	70kA
16A	3VA1196-3GF46-0AA0	3VA1196-4GF46-0AA0	3VA1196-5GF46-0AA0	3VA1196-6GF46-0AA0
20A	3VA1120-3GF46-0AA0	3VA1120-4GF46-0AA0	3VA1120-5GF46-0AA0	3VA1120-6GF46-0AA0
25A	3VA1125-3GF46-0AA0	3VA1125-4GF46-0AA0	3VA1125-5GF46-0AA0	3VA1125-6GF46-0AA0
32A	3VA1132-3GF46-0AA0	3VA1132-4GF46-0AA0	3VA1132-5GF46-0AA0	3VA1132-6GF46-0AA0
40A	3VA1140-3GF46-0AA0	3VA1140-4GF46-0AA0	3VA1140-5GF46-0AA0	3VA1140-6GF46-0AA0
50A	3VA1150-3GF46-0AA0	3VA1150-4GF46-0AA0	3VA1150-5GF46-0AA0	3VA1150-6GF46-0AA0
63A	3VA1163-3GF46-0AA0	3VA1163-4GF46-0AA0	3VA1163-5GF46-0AA0	3VA1163-6GF46-0AA0
80A	3VA1180-3GF46-0AA0	3VA1180-4GF46-0AA0	3VA1180-5GF46-0AA0	3VA1180-6GF46-0AA0
100A	3VA1110-3GF46-0AA0	3VA1110-4GF46-0AA0	3VA1110-5GF46-0AA0	3VA1110-6GF46-0AA0
125A	3VA1112-3GF46-0AA0	3VA1112-4GF46-0AA0	3VA1112-5GF46-0AA0	3VA1112-6GF46-0AA0
160A	3VA1116-3GF46-0AA0	3VA1116-4GF46-0AA0	3VA1116-5GF46-0AA0	3VA1116-6GF46-0AA0
200A*	-	3VA1220-4GF42-0AA0	3VA1220-5GF42-0AA0	3VA1220-6GF42-0AA0
250A*	-	3VA1225-4GF42-0AA0	3VA1225-5GF42-0AA0	3VA1225-6GF42-0AA0

* 200A & 250A circuit breakers require additional box terminal kit to be ordered"

* 200A & 250A circuit breakers only for use with 250A 2 Way Add-on unit

MCCB Accessories

For the full range of available accessories see Catalogue LV10



8GP1921-0DA66

Neutral Links

	List No
160A Neutral Link Outgoing	8GP1921-0DA66
250A Neutral Link Outgoing	8GP1921-0DA34

- Neutral links required for terminating the Neutral connection in 4P Panel Boards & Add-on units



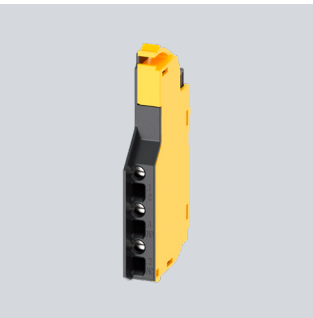
MCCB Dolly Locking Device

	List No
For use with 3VA11/12	3VA9088-0LB10
For use with 3VA13/14 & 3VA22/23/24	3VA9388-0LB10



Aux Switch - SP C/O

	List No
	3VA9988-0AA12



Trip Alarm Switch - SP C/O

	List No
	3VA9988-0AB12



Undervoltage Release

	List No
110V AC 50/60Hz	3VA9908-0BB23
208...230V AC 50/60Hz	3VA9908-0BB25
24VDC	3VA9908-0BB11



Shunt Trip

	List No
24V AC/24...30V DC	3VA9988-0BL30
208...277V AC 50/60Hz 220...250V DC	3VA9988-0BL33

Blanking kits

	List No
Busbar & Shield blanking kit – 1P	8GP1921-0DA10
Busbar & Shield blanking kit – 3P	8GP1921-0DA11
Busbar & Shield blanking kit – 4P	8GP1921-0DA12

MCCB Accessories 800A

For the full range of available accessories see Catalogue LV10



Shunt Trip

	List No
Trip contact S24	3VW9011-0AH14
UVR 24V DC Undervoltage release	3VW9011-0AE01
UVR 110V AC/DC Undervoltage release	3VW9011-0AE05
UVR 230V AC/DC Undervoltage release	3VW9011-0AE08
Shunt 24V DC Shunt trip	3VW9011-0AD01
Shunt 110V AC/DC Shunt trip	3VW9011-0AD05
Shunt 230V AC/DC Shunt trip	3VW9011-0AD07

MCCB Accessories for outgoing circuits

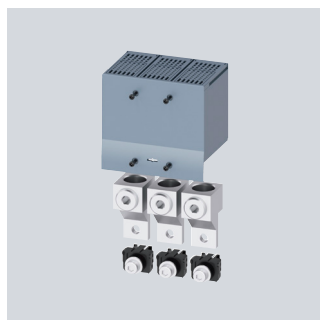
For the full range of available accessories see Catalogue LV10



Terminals

Terminal type	No. Pcs	Cable size	To fit frame	List No
Box Terminal Kit*	3	6...120mm ²	250A 3VA12	3VA9253-OJA11
Box Terminal Kit*	4	6...120mm ²	250A 3VA12	3VA9254-OJA11
Box Terminal Kit	3	50...185mm ²	250A 3VA12	3VA9253-OJA12
Box Terminal Kit	4	50...185mm ²	250A 3VA12	3VA9254-OJA12

*Required for connecting 250A MCCB's within 8GP1921-ODA25



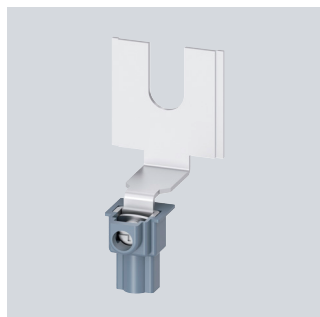
Terminals

Terminal type	No. Pcs	Cable size	To fit frame	List No
External Cu/Al Cable kit inc. extended shroud	3	25...150mm ²	160A 3VA11	3VA9113-OJJ12
External Cu/Al Cable kit inc. extended shroud	4	25...150mm ²	160A 3VA11	3VA9114-OJJ12
External Cu/Al Cable kit inc. extended shroud	3	50...240mm ²	250A 3VA12	3VA9213-OJJ13
External Cu/Al Cable kit inc. extended shroud	4	50...240mm ²	250A 3VA12	3VA9214-OJJ13



Terminals

Terminal type	No. Pcs	To fit frame	List No
Extended bar connections kit inc phase barriers	3	160A 3VA11	3VA9153-0QB00
Extended bar connections kit inc phase barriers	4	160A 3VA11	3VA9154-0QB00
Extended bar connections kit inc phase barriers	3	250A 3VA12	3VA9253-0QB00
Extended bar connections kit inc phase barriers	4	250A 3VA12	3VA9254-0QB00



Control Wire Taps

Terminal type	No. Pcs	To fit frame	List No
Box terminals	1	160A 3VA11	3VA9110-0WB00
		250A 3VA12	3VA9200-0WB00
Busbar	1	160A 3VA11	3VA9110-0WC00
		250A 3VA12	3VA9200-0WC00



Terminal Shrouds

Shroud type	No. Pcs	To fit frame	List No
1P 3VA Short	1	160A 3VA11	3VA9111-0WD10
3P 3VA Short Terminal Shroud	1	160A 3VA11	3VA9111-0WD30
		250A 3VA12	3VA9211-0WD30
4P 3VA Short Terminal Shroud	1	160A 3VA11	3VA9111-0WD40
		250A 3VA12	3VA9211-0WD40
3P 3VA Extended Terminal Shroud	1	160A 3VA11	3VA9111-0WF30
		250A 3VA12	3VA9211-0WF30
4P 3VA Extended Terminal Shroud	1	160A 3VA11	3VA9111-0WF40
		250A 3VA12	3VA9211-0WF40

- If using extended shrouds a cableway is required on Alpha BS III 160 Panel Boards.
- Terminal shrouds are required on the 800A Panel Board to ensure Form 4b Type 6 GM form of separation.

Technical Data

Alpha BSIII 160 Panel Boards

Panel Boards

Description		Dimensions (mm)			Distance from Gland Plate to Incoming Terminals (mm)	
		(H)	(W)	(D)	Without Meter Kit	With Integral Meter Kit
(Spreading Room)						
250A	6 Way	902	700	198	257	109
	12 Way	1132	700	198	257	109
	18 Way	1361	700	198	257	109
400A	6 Way	1132	700	198	342	204
	12 Way	1361	700	198	342	204
	18 Way	1591	700	198	342	204
630A	6 Way	1132	700	198	342	204
	12 Way	1361	700	198	342	204
	18 Way	1591	700	198	342	204
800A	4 Way	1361	700	226	278	95
	8 Way	1591	700	226	278	95
	12 Way	1820	700	226	278	95

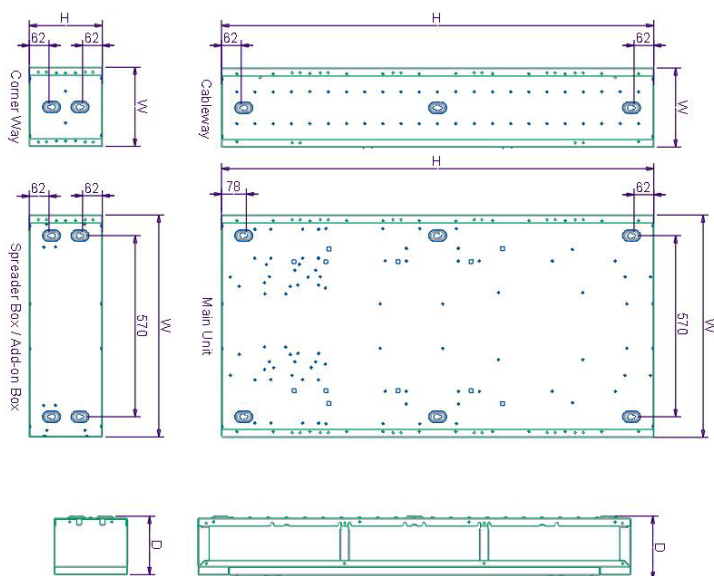
Cableways

Description		Dimensions (mm)			Distance from Gland Plate to Incoming Terminals (mm)	
		(H)	(W)	(D)	Without Meter Kit	With Integral Meter Kit
(Spreading Room)						
Corner Unit		230	249	198	-	-
Size 1		902	249	198	-	-
Size 2		1132	249	198	-	-
Size 3		1361	249	198	-	-
Size 4		1591	249	198	-	-
Size 5			249	198	-	-

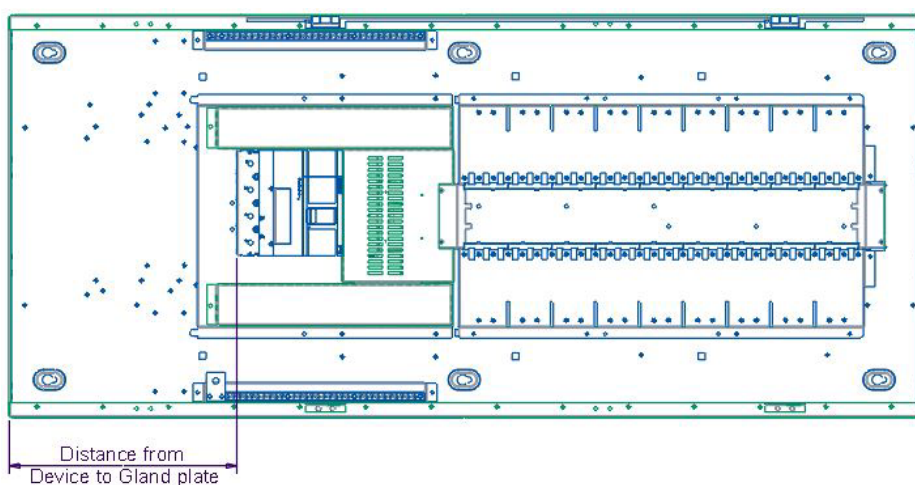
Add-on Units

Description		Dimensions (mm)			Distance from Gland Plate to Incoming Terminals (mm)	
		(H)	(W)	(D)	Without Meter Kit	With Integral Meter Kit
(Spreading Room)						
2 x 250A 3P Outgoer		380	700	198	-	-
2 x 250A 4P Outgoer		380	700	226	-	-
Control Module		230	700	198	-	-
1P+N Dist. Board		230	700	198	-	-
3P+N Dist. Board		230	700	198	-	-
Spreader Box		230	700	198	-	-

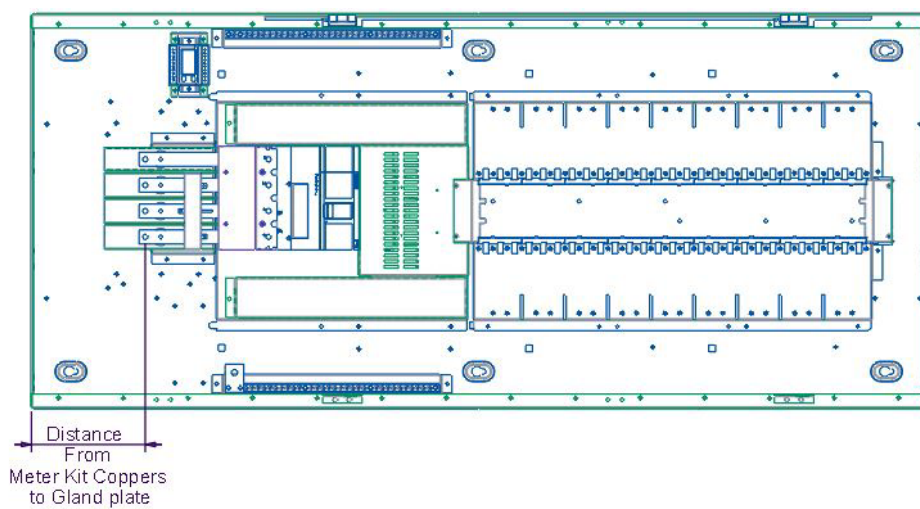
- For full Technical Support Information on Devices, please refer to the Siemens Industry Online Support Tool (SIOS) found here: <https://support.industry.siemens.com/cs/start?lc=en-GB>



Panel Board Dimensions



Distance from Gland Plate to Incoming Terminal – Without Meter Kit



Distance from Gland Plate to Incoming Terminal – With Integral Meter Kit

Technical Data

Alpha BSIII 160 Panel Boards

	250A Panel	400A Panel	630A Panel	800A Panel
Compliance with:	IEC / BS EN 61439-2	IEC / BS EN 61439-2	IEC / BS EN 61439-2	IEC / BS EN 61439-2
Short Circuit Withstand Rating:	25kA for 1s	35kA for 1s	35kA for 1s	65kA for 1s
Rated Voltage:	230 / 400V 3PH 50Hz	230 / 400V 3PH 50Hz	230 / 400V 3PH 50Hz	230 / 400V 3PH 50Hz
Mounting:	Wall or Floor	Wall or Floor	Wall or Floor	Wall or Floor
Incoming Cable Entry:	Bottom	Bottom	Bottom	Bottom
Access Panels:	All Fascias	All Fascias	All Fascias	All Fascias
Form of Separation:	3b Type 2	3b Type 2	3b Type 2	4b Type 6 GM
Ingress Protection:	IP3X as Standard (Door Closed)	IP3X as Standard (Door Closed)	IP3X as Standard (Door Closed)	IP3X as Standard (Door Closed)
Finish:	Powder Coated RAL7035 Light Grey	Powder Coated RAL7035 Light Grey	Powder Coated RAL7035 Light Grey	Powder Coated RAL7035 Light Grey

Cable Capacity & Terminal Connections - Maximum Stranded C_u Cable

	Incoming Options				Outgoing Options (Box Terminals)			
	Sw Disc or MCCB	Direct Connect	Neutral	Earth	Up to 160A MCCB	200A & 250A MCCB	Neutral	Earth
250A	25... 185mm ²	M8	M10	M10	70mm ²	120mm ²	35mm ²	35mm ²
400A	50... 300mm ²	M10	M10	M10	70mm ²	120mm ²	35mm ²	35mm ²
800A	Lug... 40mm	M12	M10	M10	70mm ²	120mm ²	35mm ²	35mm ²

- For full Technical Support Information on Devices, please refer to the Siemens Industry Online Support Tool (SIOS) found here: <https://support.industry.siemens.com/cs/start?lc=en-GB>

Zs Values

Max Z values based on 230V phase to Earth Voltage in accordance with BS7671

3VA10, 3VA11 with TM210 FTFM release

In	5s Disconnection	0.4 s Disconnection
A	Ohms	Ohms
3VA10/11 16A	1.62	0.57
3VA10/11 20A	1.60	0.57
3VA10/11 25A	1.69	0.57
3VA10/11 32A	1.40	0.57
3VA10/11 40A	1.13	0.46
3VA10/11 50A	0.77	0.36
3VA10/11 63A	0.82	0.29
3VA10/11 80A	0.48	0.23
3VA10/11 100A	0.37	0.18
3VA10/11 125A	0.15	0.14
3VA10/11 160A	0.11	0.11

3VA10, 3VA11 with TM220 AFTM release

In	5s Disconnection		0.4 s Disconnection	
A	Ohms		Ohms	
Thermal setting	Min	Max	Min	Max
3VA10/11 16A	2.31	1.62	0.64	0.57
3VA10/11 20A	2.28	1.59	0.69	0.57
3VA10/11 25A	2.42	1.69	0.73	0.57
3VA10/11 32A	2.00	1.39	0.61	0.57
3VA10/11 40A	1.61	1.12	0.49	0.46
3VA10/11 50A	1.11	0.77	0.36	0.36
3VA10/11 63A	1.17	0.82	0.37	0.29
3VA10/11 80A	0.68	0.47	0.23	0.23
3VA10/11 100A	0.52	0.36	0.18	0.18
3VA10/11 125A	0.14	0.14	0.14	0.14
3VA10/11 160A	0.16	0.11	0.11	0.11

3VA11, 3VA12 with TM240 ATAM release

In	5s Disconnection				0.4 s Disconnection			
A	Ohms				Ohms			
Setting (Thermal/Magnetic)	Min/Min	Min/Max	Max/Min	Max/Max	Min/Min	Min/Max	Max/Min	Max/Max
3VA11 16A	94.8	2.30	1.63	1.63	1.14	0.91	1.14	0.57
3VA11 20A	96.5	2.26	1.61	1.61	1.14	0.70	1.14	0.57
3VA11 25A	90.23	2.42	1.70	1.70	1.14	0.73	1.14	0.57
3VA11 32A	108.2	2.02	1.40	1.39	1.14	0.62	1.14	0.57
3VA11 40A	135.8	1.61	1.13	1.13	0.91	0.50	0.91	0.46
3VA11 50A	198.6	1.10	0.77	0.77	0.73	0.36	0.73	0.36
3VA11 63A	187.3	1.17	0.82	0.58	0.73	0.37	0.58	0.29
3VA11 80A	318.8	0.69	0.48	0.48	0.46	0.23	0.46	0.23
3VA11 100A	413.5	0.53	0.37	0.37	0.36	0.18	0.36	0.18
3VA11 125A	750	0.15	0.29	0.15	0.29	0.15	0.29	0.15
3VA11 160A	960	0.16	0.23	0.11	0.23	0.11	0.23	0.11
3VA12 160A	980	0.19	0.23	0.14	0.23	0.11	0.23	0.11
3VA12 200A	1200	0.16	0.18	0.11	0.18	0.09	0.18	0.09
3VA12 250A	1500	0.13	0.15	0.09	0.15	0.07	0.15	0.07

ALPHA BSII and BSIII is manufactured in the UK

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