



# SIEMENS

LOW-VOLTAGE POWER DISTRIBUTION

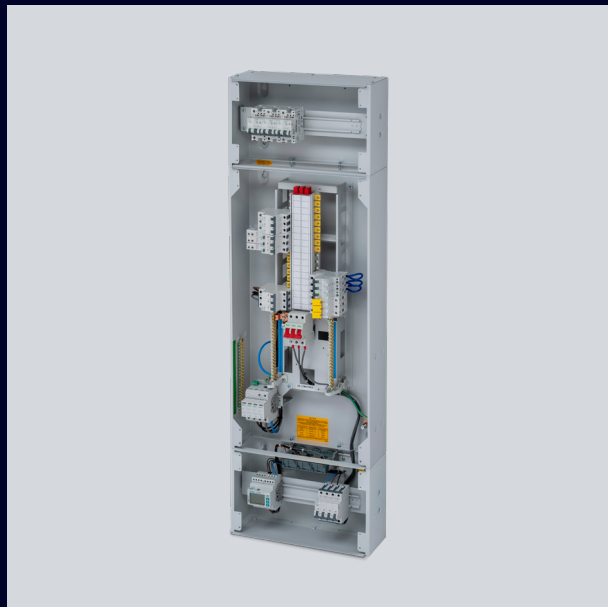
ALPHA BSII 125A & 250A MCB **Distribution**  
**Boards** and ALPHA BSIII 160 MCCB  
**Panel Boards**

# 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.**



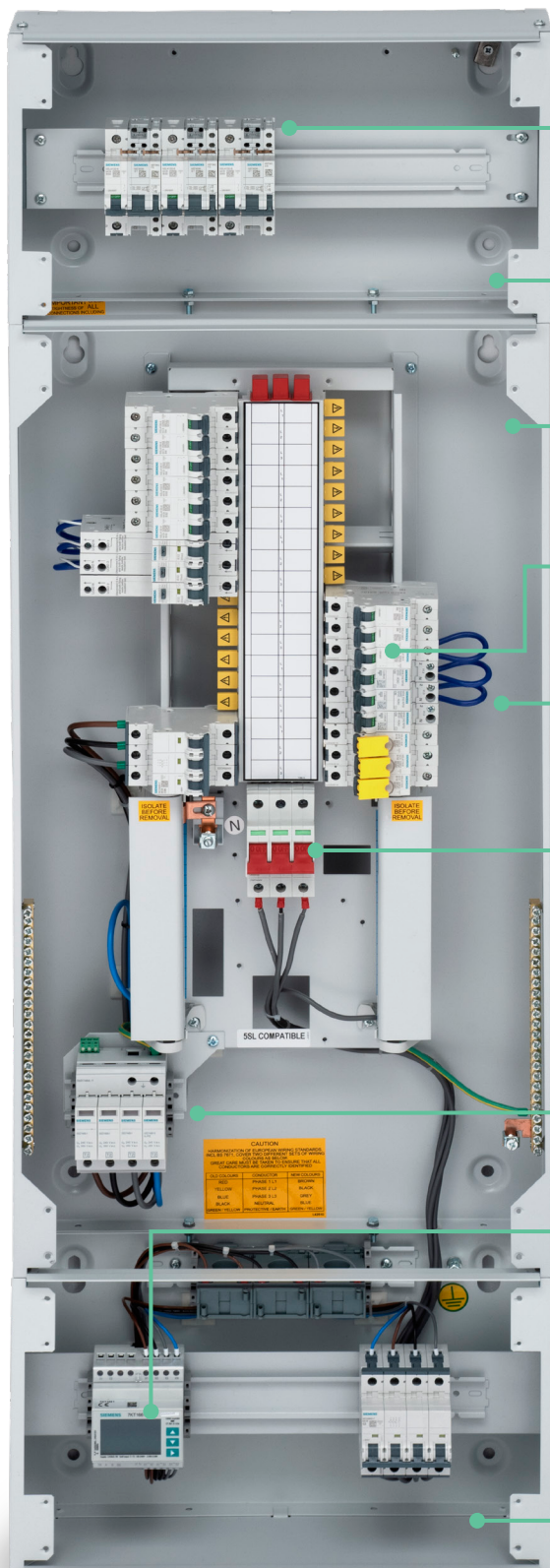
**ALPHA BSII  
Distribution  
Boards from  
125A to 250A**

**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**

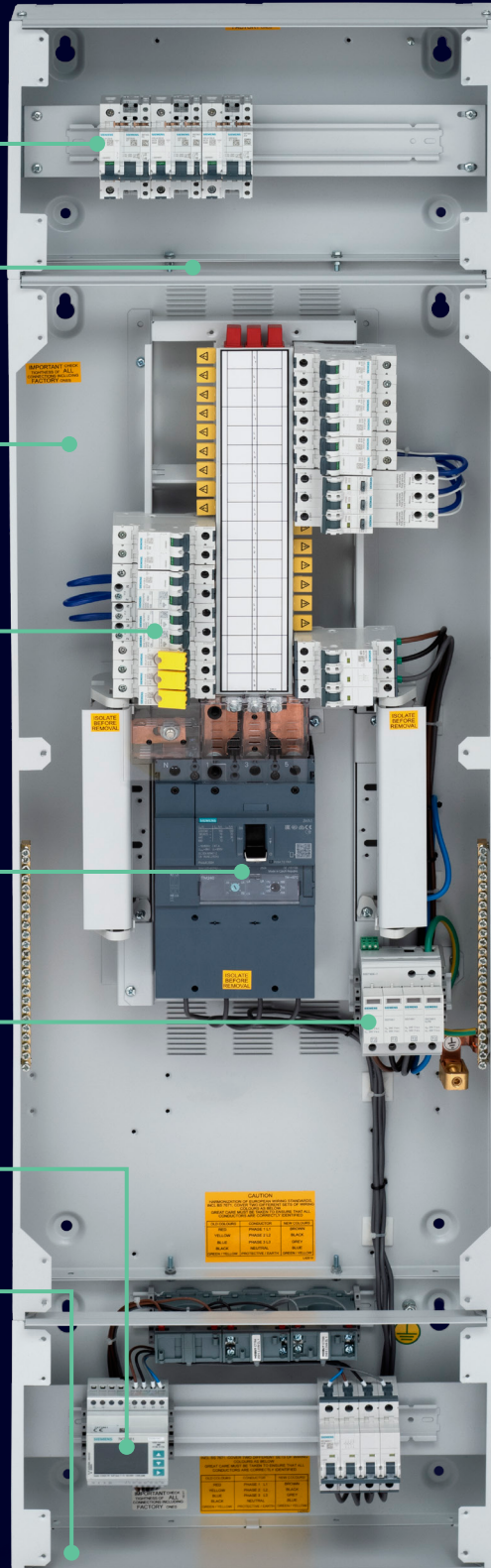
**Integral Type 2 surge protection kits**

**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.

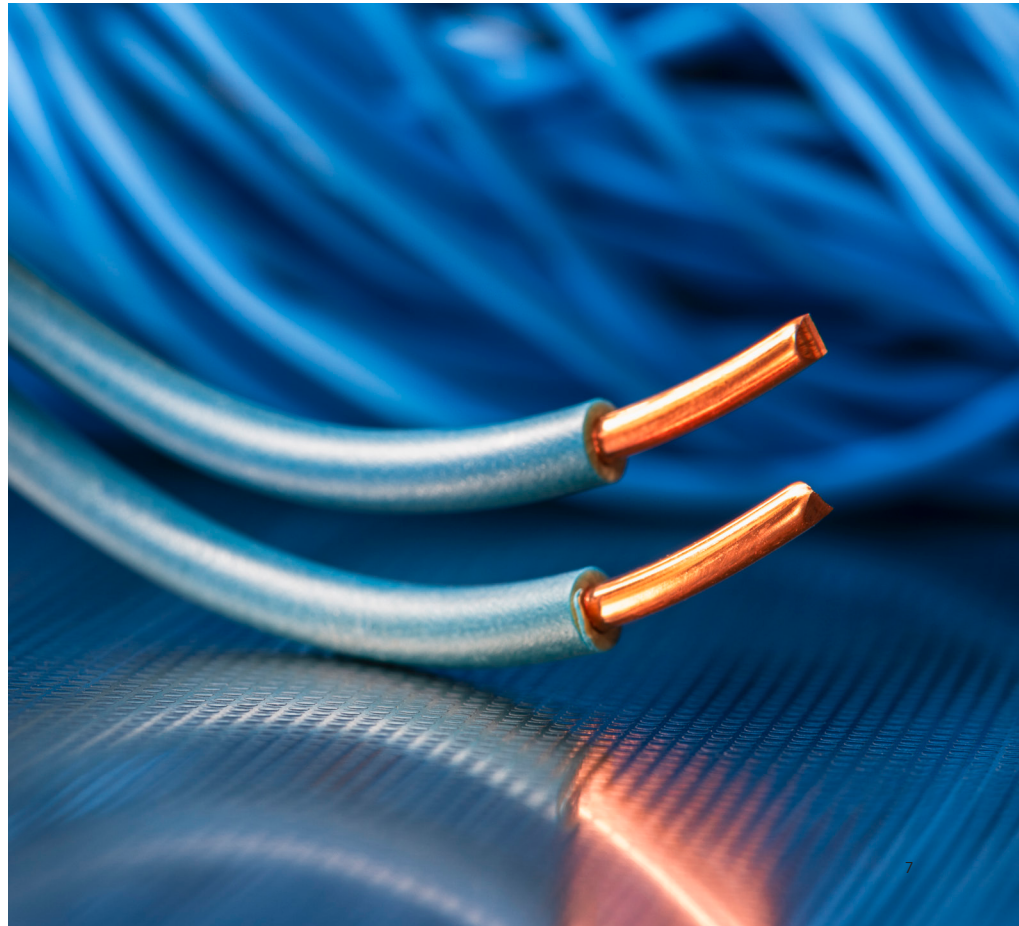


### Care Homes

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

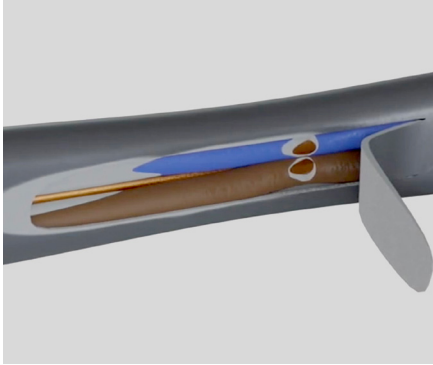
For all other premises the use of AFDDs conforming to BS EN 62606 is recommended for single phase AC circuits supplying socket outlets not exceeding 32A.

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

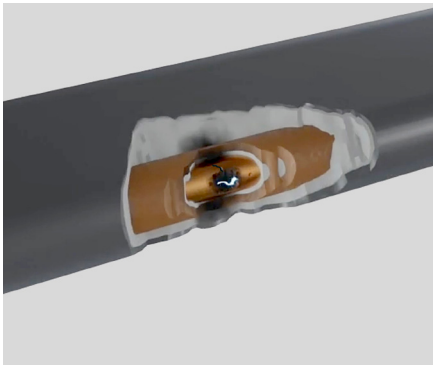
Rats or mice chewing through cables or damaging their insulation.



## Loose terminations

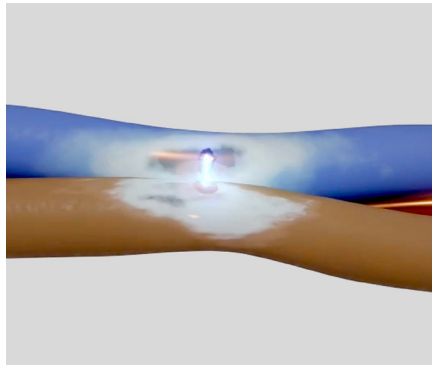
Incorrectly connected plugs and sockets, incorrect wire stripping, loose screw connections.

# 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.



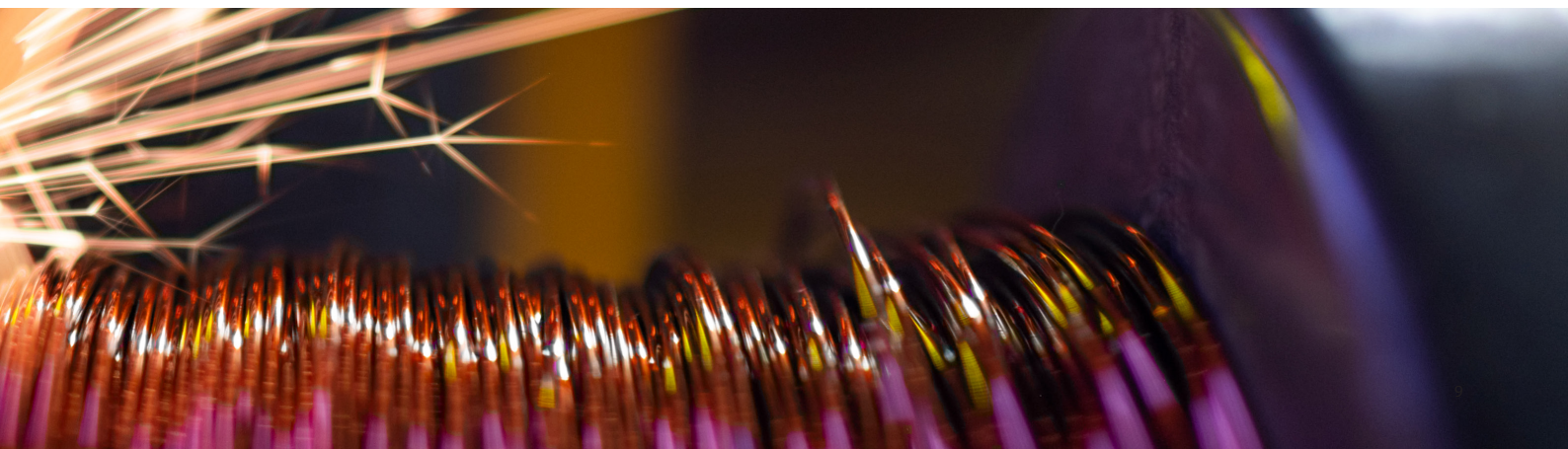
## **Schools, Universities, Education**

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

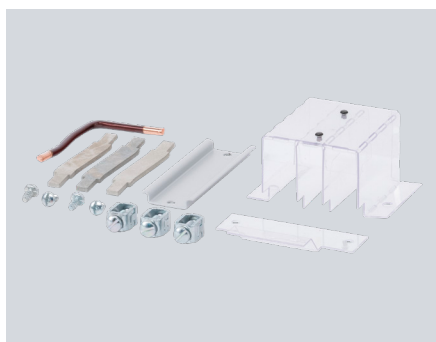
| Description                    | List No       |
|--------------------------------|---------------|
| 125A 4P Switch Disconnector ** | 5TE1402-0DA   |
| 125A 3P Switch Disconnector    | 5TE1302-0DA   |
| 125A 2P Switch Disconnector *  | 5TE1202-0DA   |
| 125A Direct Connection Kit     | 8GP1854-0DA10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

### Features

- RCCB option is Instantaneous Trip
- Switch Disconnector accepts up to 50mm<sup>2</sup>
- Direct Connection Kit accepts up to 50mm<sup>2</sup>

\* 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 <sup>2</sup> | 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 6mm<sup>2</sup> to 120mm<sup>2</sup>\*
- Switch Disconnecter complete with Box Terminals
- Switch Disconnecter accepts 6mm<sup>2</sup> to 120mm<sup>2</sup>\*
- Direct Connection Kit accepts 6mm<sup>2</sup> to 120mm<sup>2</sup>



3VA9214-0JC22

### 250A Incomer Accessories

| Box Terminals                | Conductor Capacity        | List No       |
|------------------------------|---------------------------|---------------|
| 3 single terminals           | 6 ... 120mm <sup>2</sup>  | 3VA9253-0JA11 |
|                              | 50 ... 185mm <sup>2</sup> | 3VA9253-0JA12 |
| 4 single terminals           | 6 ... 120mm <sup>2</sup>  | 3VA9254-0JA11 |
|                              | 50 ... 185mm <sup>2</sup> | 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 <sup>2</sup> | 3VA9213-0JC13 |
| 3P – Two conductors*         | 25 ... 150mm <sup>2</sup> | 3VA9213-0JC22 |
| 4P – One conductors*         | 50 ... 240mm <sup>2</sup> | 3VA9214-0JC13 |
| 4P – Two conductors*         | 25 ... 150mm <sup>2</sup> | 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

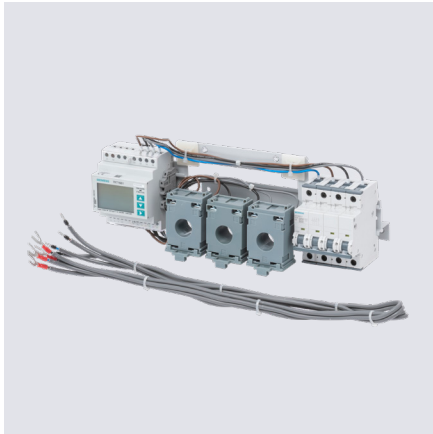
| Description   | H (mm) | W (mm) | D (mm) | List No                             |
|---------------|--------|--------|--------|-------------------------------------|
| 8GP1904-0DA57 | 212    | 180    | 124    | BSII 10kA Enclosed SPD kit Type 1&2 |
| 8GP1904-0DA58 | 212    | 180    | 124    | BSII 10kA 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 <sup>2</sup> – Std | 245    | 430    | 155    | 8GP1933-0DA12 |
| 250A Add-on Meter Pack 185mm <sup>2</sup> – 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

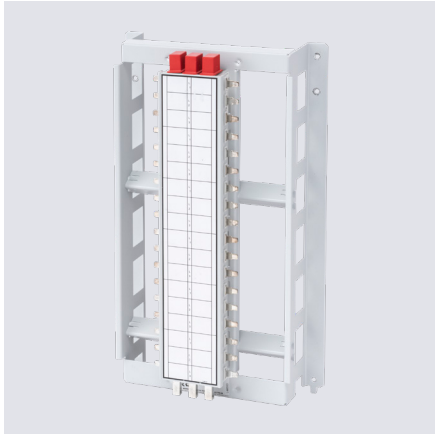
| Description                            | H (mm) | W (mm) | D (mm) | List No       |
|----------------------------------------|--------|--------|--------|---------------|
| 1 Row x 18 Modular Width Extension Box | 245    | 430    | 155    | 8GP1901-0DA10 |
| 2 Row x 18 Modular Width Extension Box | 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 6mm<sup>2</sup> to 120mm<sup>2</sup> \*
- Switch Disconnecter complete with Box Terminals
- Switch Disconnecter accepts 6mm<sup>2</sup> to 120mm<sup>2</sup> \*
- Direct Connection Kit accepts 6mm<sup>2</sup> to 120mm<sup>2</sup>

# 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



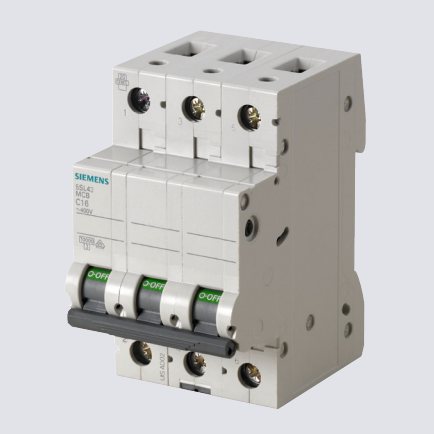
5SL4206-7MB

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

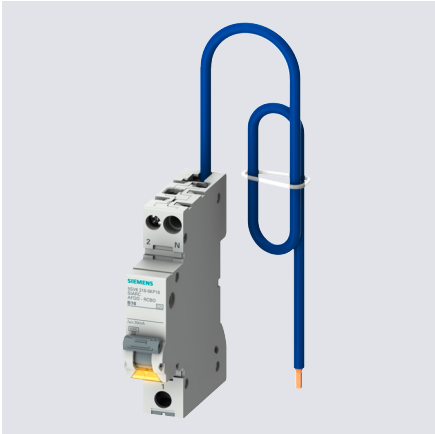


**RCBO + AFDD Combination Devices (10kA)**  
 10kA Breaking Capacity @ 230V AC in accordance with BS EN 60898/62606

| 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)

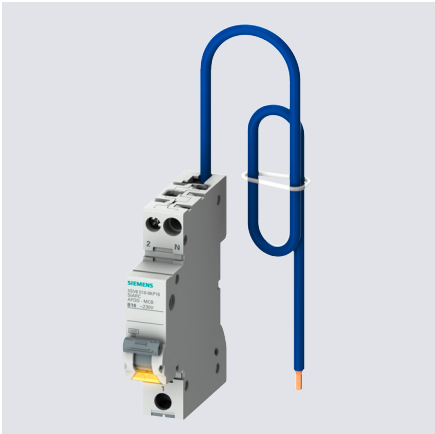
6kA Breaking Capacity @ 230V AC in accordance with BS EN 60898/62606

| 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



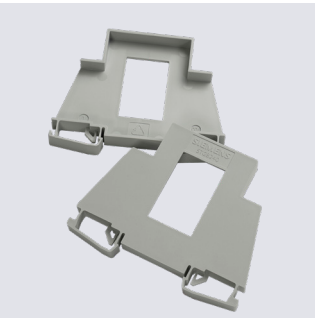
5TT5031-0



5TT5052-0



5TT5001-2



5TG8240

| Description                                            | List No   |
|--------------------------------------------------------|-----------|
| <b>20A Contactors (230V AC coil)</b>                   |           |
| 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 |
| <b>25A Contactors (230V AC coil)</b>                   |           |
| 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 |
| <b>40A Contactors (230V AC coil)</b>                   |           |
| 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 |
| <b>63A Contactors (230V AC coil)</b>                   |           |
| 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   |
|-------------------------------------------------------|-----------|
| <b>20A Contactors (24V DC coil)</b>                   |           |
| Contactor 1 NO + 1 NC contacts 20A control 24V AC 1MW | 5TT5001-2 |
| Contactor 2 NC contacts 20A control 24V AC 1MW        | 5TT5002-2 |
| <b>25A Contactors (24V DC coil)</b>                   |           |
| 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 |
| <b>40A Contactors (24V DC coil)</b>                   |           |
| 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 |
| <b>63A Contactors (24V DC coil)</b>                   |           |
| 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 |

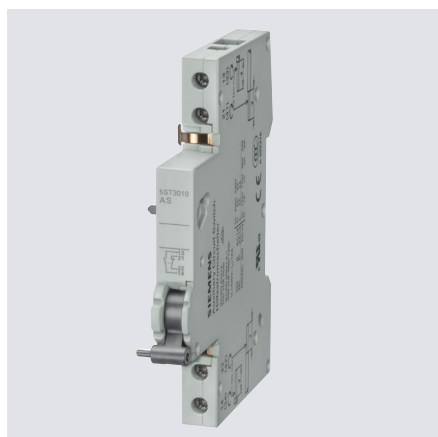
# MCB & AFDD

## Accessories



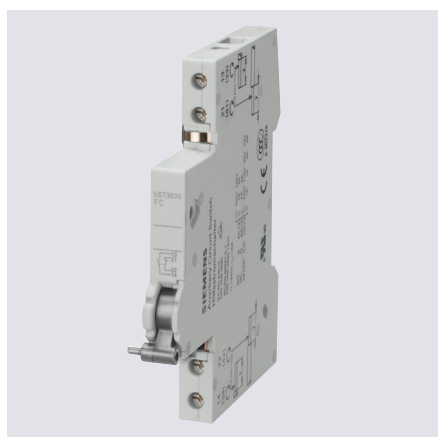
5ST3806

| 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



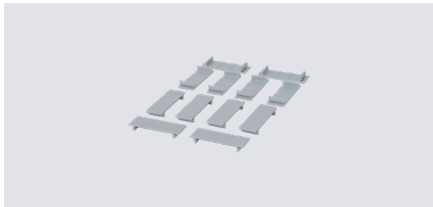
8GP1961-0DA10

### 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

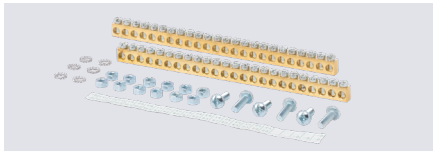
### Description

|                    |
|--------------------|
| 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

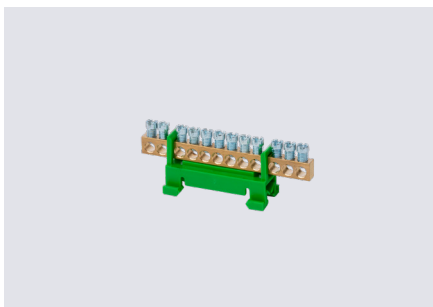
|                                                                         |
|-------------------------------------------------------------------------|
| Additional Earth Bar Kit (4 Way TPN)                                    |
| Additional Earth Bar Kit (6 Way TPN)                                    |
| 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 <sup>2</sup> to 70mm <sup>2</sup> ) |

### 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 <sup>2</sup> Terminals  |
| DIN Rail Mounted Neutral Bar – 12 x 10mm <sup>2</sup> Terminals |
| DIN Rail Mounted Neutral Bar – 15 x 10mm <sup>2</sup> Terminals |
| DIN Rail Mounted Earth Bar – 7 x 10mm <sup>2</sup> Terminals    |
| DIN Rail Mounted Earth Bar – 12 x 10mm <sup>2</sup> Terminals   |
| DIN Rail Mounted Earth Bar – 15 x 10mm <sup>2</sup> Terminals   |

### List No

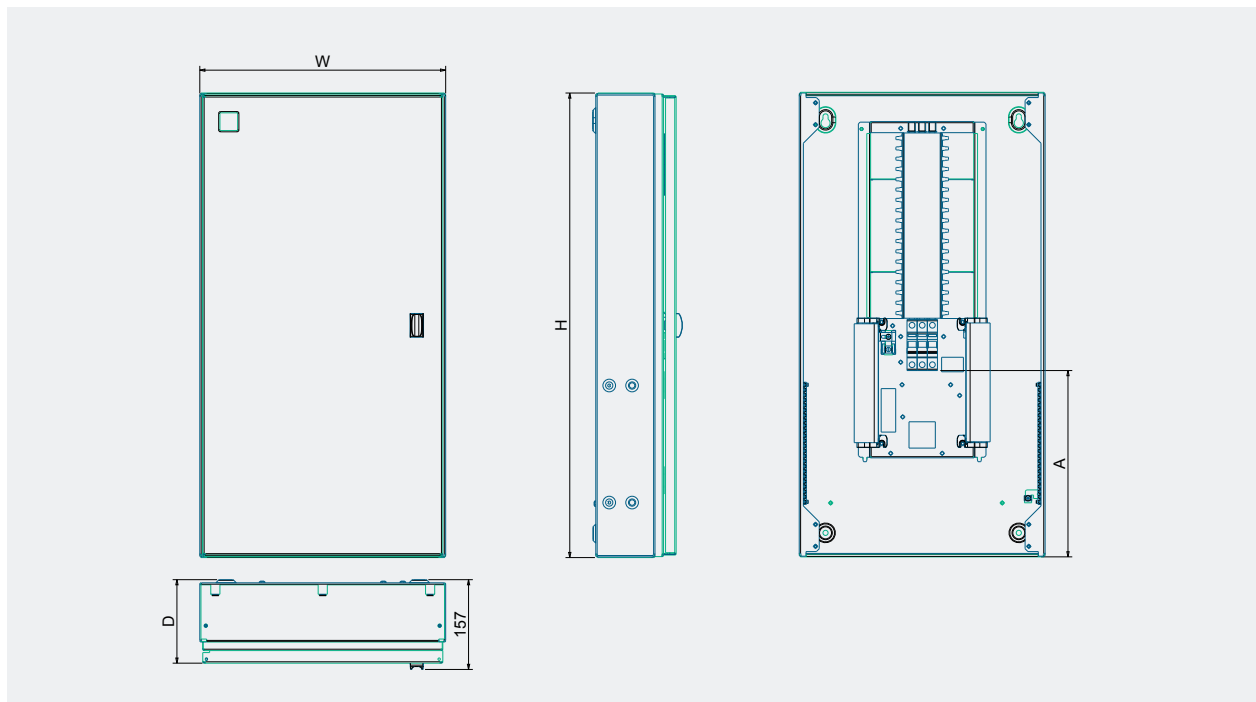
|               |
|---------------|
| 8GP1933-0DA47 |
| 8GP1934-0DA47 |
| 8GP1935-0DA47 |
| 8GP1930-0DA47 |
| 8GP1931-0DA47 |
| 8GP1932-0DA47 |

# ALPHA BSII Distribution Boards

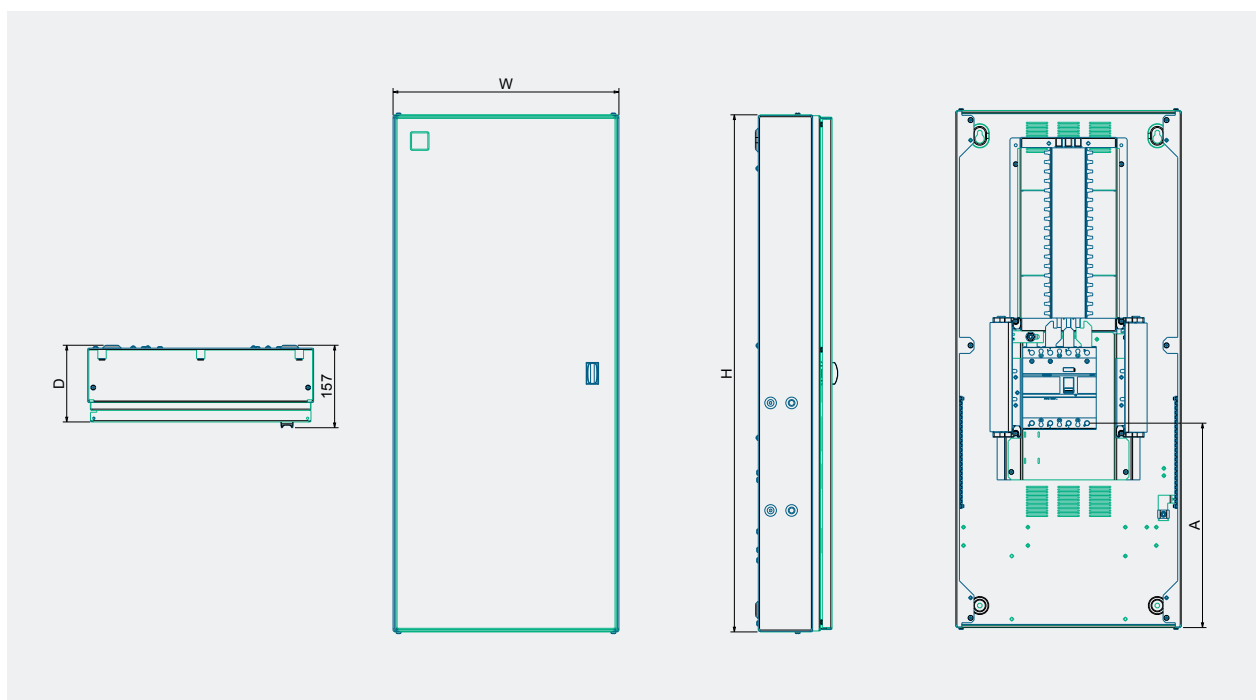
## Technical Data

| 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 <sup>2</sup> ) | 243             | 430 | 146 |
|             | Single Meter - MID (185mm <sup>2</sup> ) | 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<br>Disconnecter       | MCCB                         | RCCB              | Neutral            | Earth              | Neutral           | Earth             |
| 125A | 50mm <sup>2</sup>            | -                            | 35mm <sup>2</sup> | 70mm <sup>2</sup>  | 70mm <sup>2</sup>  | 25mm <sup>2</sup> | 25mm <sup>2</sup> |
| 250A | 25 x 8mm Max.<br>(Cable Lug) | 25 x 8mm Max.<br>(Cable Lug) | -                 | 120mm <sup>2</sup> | 120mm <sup>2</sup> | 25mm <sup>2</sup> | 25mm <sup>2</sup> |

# 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

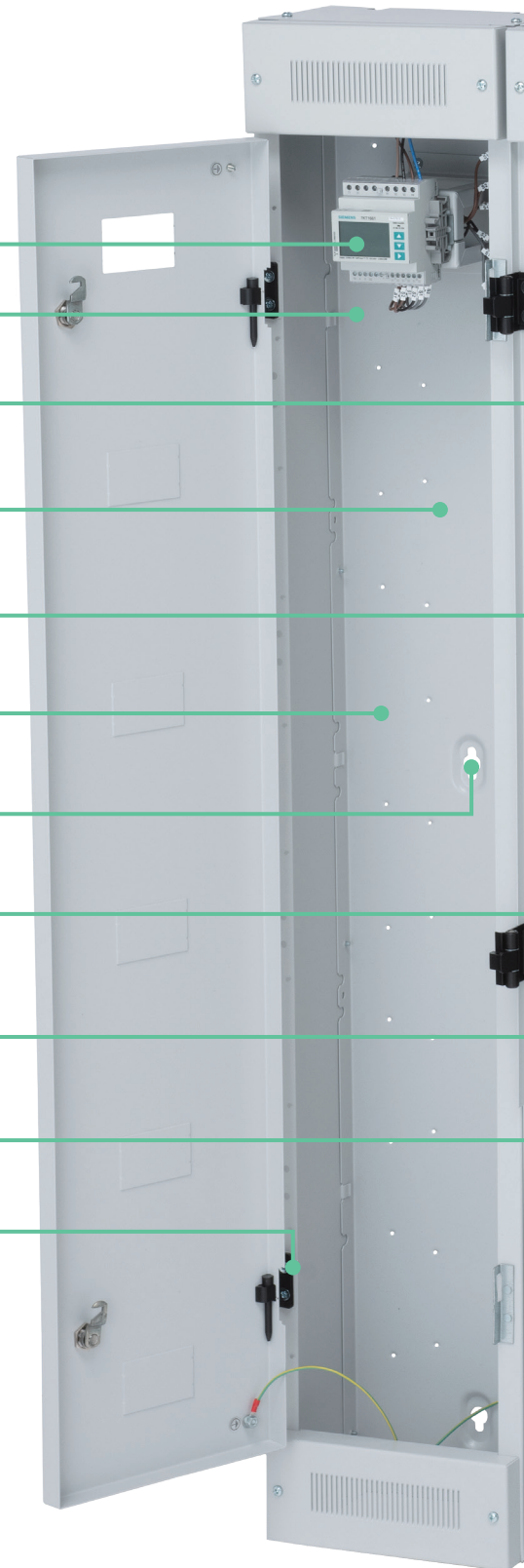
Integral surge protection kits. Type 1, Type 2 or combined

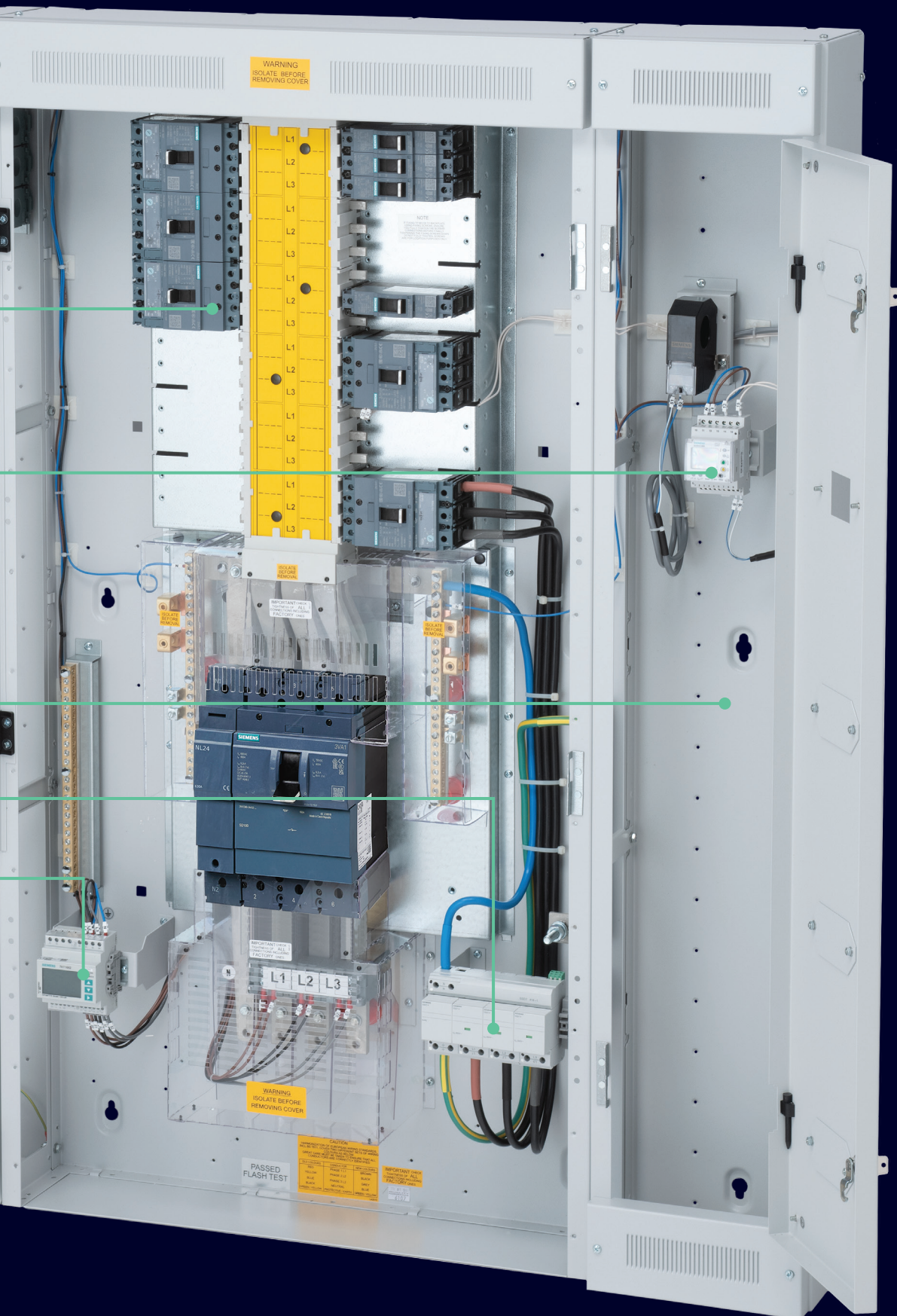
Integral Incoming meter options. Standard or MID

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 <sup>2</sup> | 3VA9253-0JA12 |
| Circular Conductor Terminals    | 50...185mm <sup>2</sup> | 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 <sup>2</sup> | 3VA9254-0JA12 |
| Circular Conductor Terminals    | 50...185mm <sup>2</sup> | 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      |

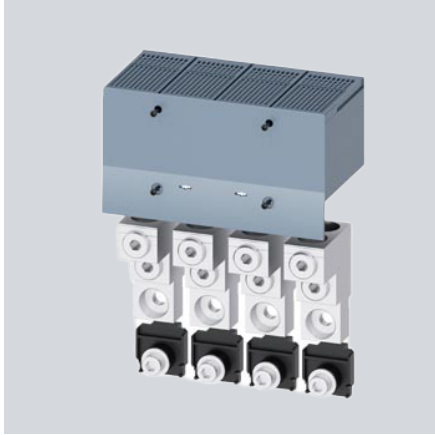
\* Interconnections are necessary when selecting a Switch Disconnecter or MCCB incoming device

### 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 <sup>2</sup>   | 3VA9483-0JA13 |
| Twin Circular Conductor Terminals | 2x70...300mm <sup>2</sup> | 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 <sup>2</sup>   | 3VA9484-0JA13 |
| Twin Circular Conductor Terminals | 2x70...300mm <sup>2</sup> | 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

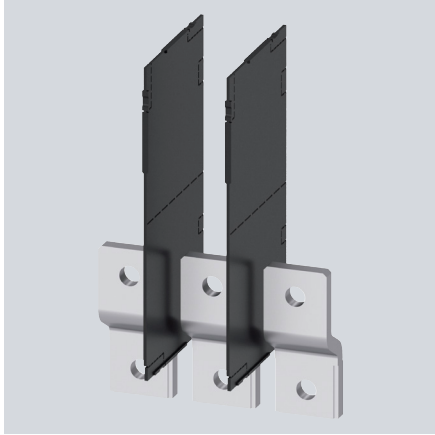
\*\*To be de-rated to 500A

### 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-QB00

### Incomer Accessories

| 3P                                |                           | List No       |
|-----------------------------------|---------------------------|---------------|
| Box Terminals                     | 50...300mm <sup>2</sup>   | 3VA9483-0JA13 |
| Twin Circular Conductor Terminals | 2x70...300mm <sup>2</sup> | 3VA9403-0JJ23 |
| Extended Terminal Bars            | M10 fixing 35mm palm      | 3VA9483-QB00  |
| 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 <sup>2</sup>   | 3VA9484-0JA13 |
| Twin Circular Conductor Terminals | 2x70...300mm <sup>2</sup> | 3VA9404-0JJ23 |
| Extended Terminal Bars            | M10 fixing 35mm palm      | 3VA9484-QB00  |
| 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 <sup>2</sup> | 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 |

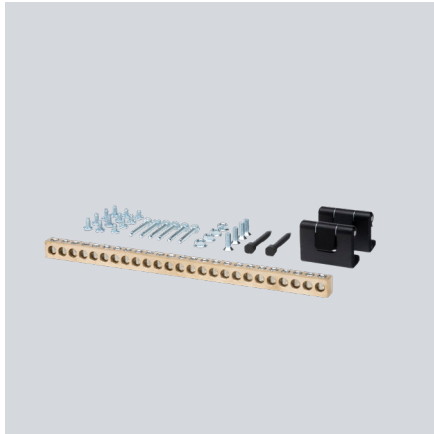
- Empty Enclosure
- Dims: 230mm high x 700mm wide x 198mm deep

## 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 <sup>2</sup> ) pack of 3 | 8GP1921-0DA50 |
| Oversized Cable Clamps for Terminal Bar (70mm <sup>2</sup> ) 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<br>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



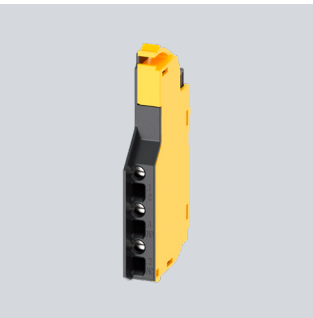
## MCCB Dolly Locking Device

|                                     | 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

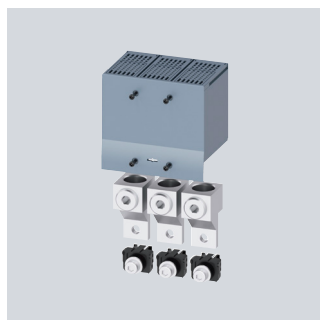
For the full range of available accessories see Catalogue LV10



## Terminals

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

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



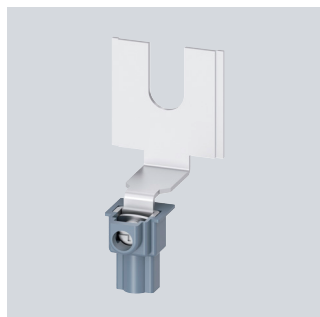
## Terminals

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

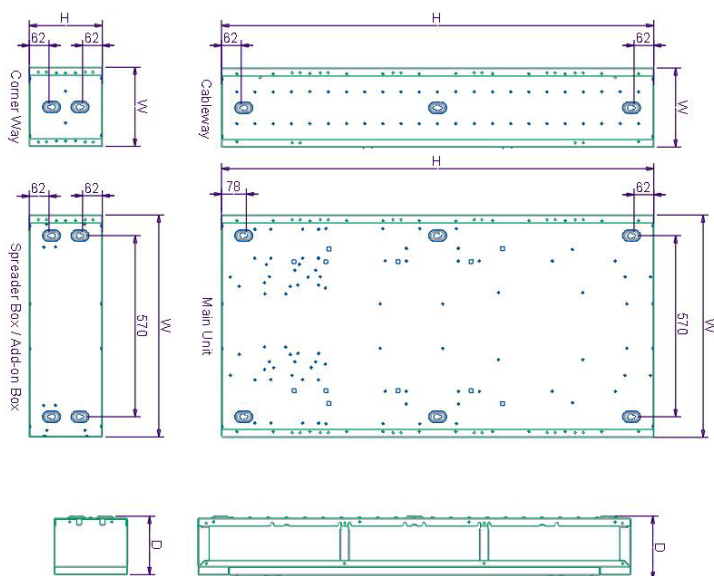
### Cableways

| 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 | -                                                    | -                       |

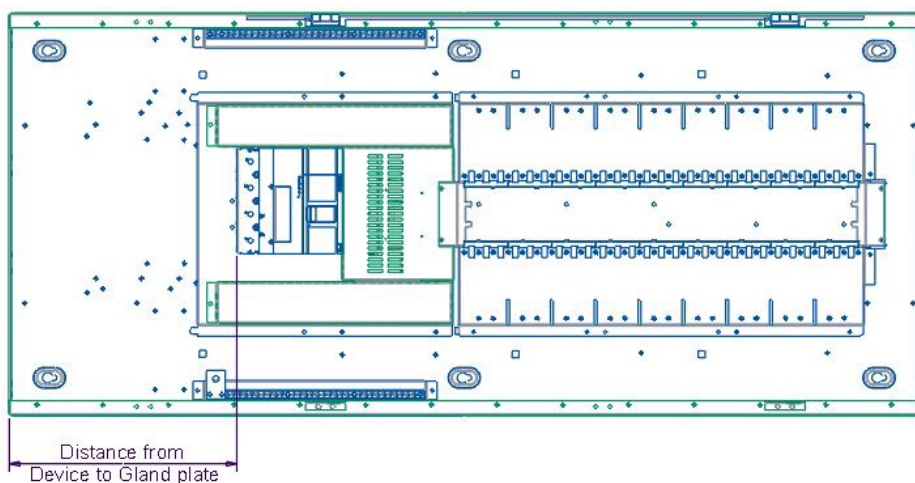
### Add-on Units

| 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 | -                                                    | -                       |

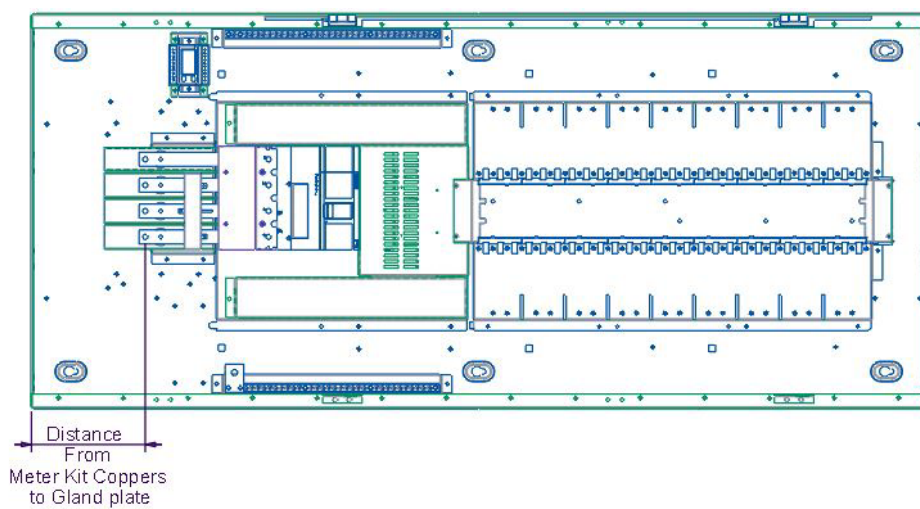
- For full Technical Support Information on Devices, please refer to the Siemens Industry Online Support Tool (SIOS) found here: <https://support.industry.siemens.com/cs/start?lc=en-GB>



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<sub>u</sub> 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 <sup>2</sup> | M8             | M10     | M10   | 70mm <sup>2</sup>                | 120mm <sup>2</sup> | 35mm <sup>2</sup> | 35mm <sup>2</sup> |
| 400A | 50... 300mm <sup>2</sup> | M10            | M10     | M10   | 70mm <sup>2</sup>                | 120mm <sup>2</sup> | 35mm <sup>2</sup> | 35mm <sup>2</sup> |
| 800A | Lug... 40mm              | M12            | M10     | M10   | 70mm <sup>2</sup>                | 120mm <sup>2</sup> | 35mm <sup>2</sup> | 35mm <sup>2</sup> |

- 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<br>(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**

**Siemens Electrical Products (EP)**

Commercial Centre  
Lakeside Plaza  
Walkmill Lane  
Cannock  
WS11 0XE

**UK Sales:**

email: [siemens.technical@electrium.co.uk](mailto:siemens.technical@electrium.co.uk)  
[estimating.uk@siemens.com](mailto:estimating.uk@siemens.com)

Tel: Sales – 01543 455000

Although every effort has been made to ensure accuracy in the compilation of this publication, specifications and performance data are constantly changing. Latest details can be obtained by contacting us.