

TECHNICAL DATA SHEET

DIN Mount and PPM Range

Module Combination DIN Mount (DR)

Single or 3 phase combinations

- Pre-wired, DIN-Rail mounted, ready for quick install
- Customisable to kA rating capacity
- Dedicated neutral-earth protector



Compact Enclosure (PPM)

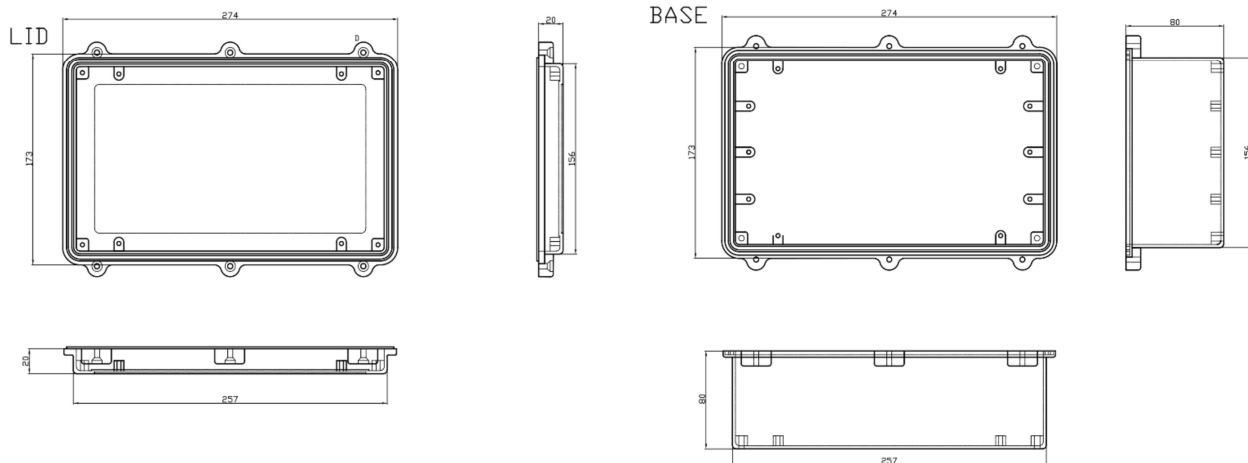
- IP67
- Surface mount
- Aluminium enclosure
- Single or 3 phase applications
- With or without integrated connection leads
- Small compact installation
- Connection leads Flexible multi-core (4 core + earth), 16 mm², Earth 4 mm², XHF-110 supplied as 1.5 m length. Installer should cut to length to suit installation
- Screw down lid



Notes:

1. Refer to Page 5 for SST150B specification detail.
2. Refer to Page 11 for neutral to earth protector specification detail.
3. Refer to page 12 for alarm module specification detail.

Enclosure



IP67 base complete with gasket, aluminium light grey painted, surface mount via external feet

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DIN Mount & PPM Part Number Key

Key	Connection Type	Code	Key	Mounting	Code	Key	Surge Rating	Code
A	Single Phase	1	A	Metal Enclosure	PPM	A	50 kA	50KA
B	3 Phase	3	B	Din Mounted (No Enclosure)	DR	B	100 kA	100KA
C	Split Phase	2	C	Backplane	BP	C	150 kA	150KA
						D	200 kA	200KA

Key	MCOV	Code	Key	Neutral / Earth	Code	Key	Alarm Module	Code
A	230 V	230V	A	NE15	NE15	A	Contact / Bluetooth	AIMCB
B	385 V	385V	B	NE100	NE100	B	Alarm Module Not Required	
C	480 V	480V	C	Neutral / Earth Not Required				

Sample

AAB-B-A-A = 1PPM100KA-385V-NE15-AIMCB

Connection Lead for PPM

- If connection lead is required to be supplied with PPM add “T” to product code following “PPM”
Example: 1PPMT100KA-385V-NE15-AIMCB
- Connection lead is supplied as a 1.5 m length
- Installation contractor should cut length of lead to suit installation

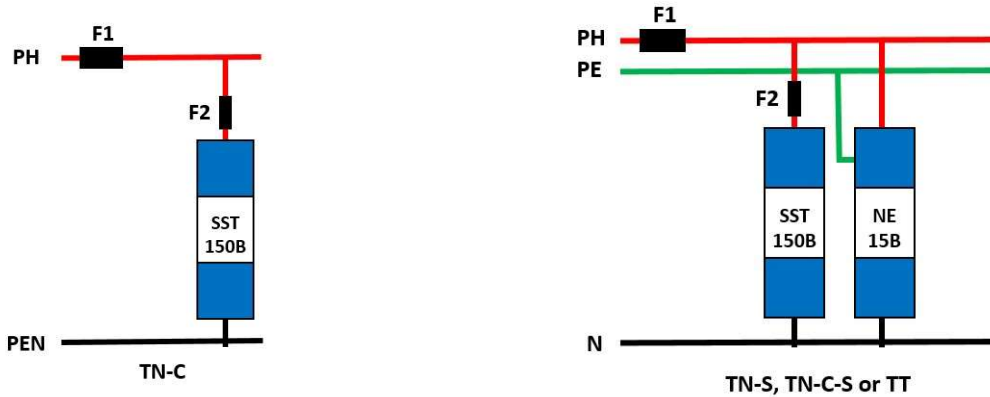
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Installation Guide for DR Product Range Including Neutral/Earth Range

IMPORTANT INFORMATION:

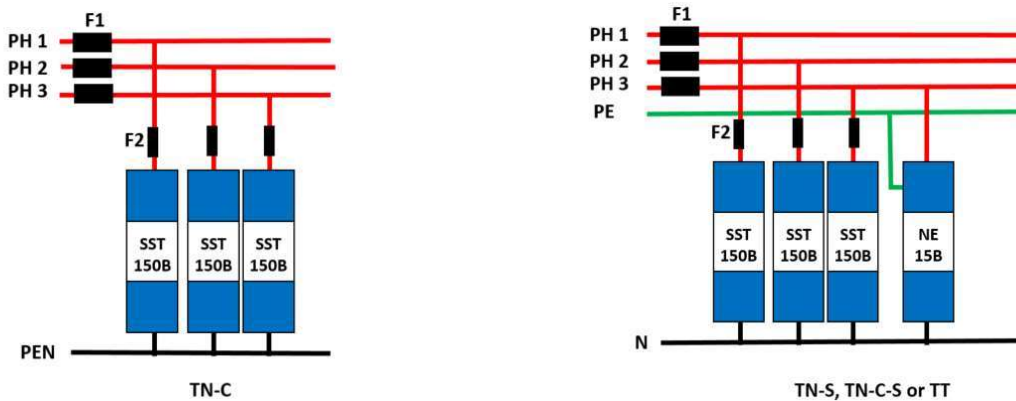
NE-15B: The Neutral and phase terminals are polarity sensitive, installation to be completed as per illustrations below.

Connection Diagram for 1DR50KA-385-NE15



Note: For 100 kA and above, connect the Ph1 to one of the SST150B modules only.

Connection for 3DR50KA-385-NE15



Note: For 100 kA and above, connect the Ph1, Ph2 and Ph3 to the first, third and fifth SST150B modules only

Recommended Fuse and Cable Sizes

Fuse F1 gL/gG	C2 mm ² connection at F2	C3 mm ² connection to gnd	Fuse F2 gL/gG
25 A-80 A	10	16	-
100 A	16	16	-
125 A	16	16	-
160 A	25	25	-
≥160 A	25	25	160 A

Fuse and cable size for NE-15B

Fuse F1 gL/gG	C2 mm ² connection at F2	C3 mm ² connection to gnd	Fuse F2 gL/gG
25 A-80 A	10	16	-
100 A-125 A	16	16	-
160 A	25	25	-
200 A-315 A	35	35	-
≥500 A	35	35	315 A

Fuse and cable size for NE-100

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Installation Guide for DR Product Range including Neutral/Earth Range

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Installation Guide for PPM Product Range

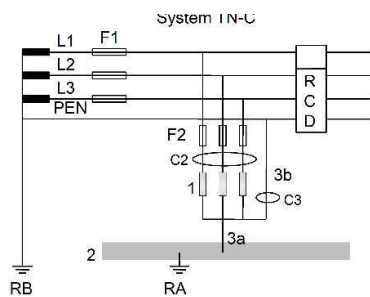
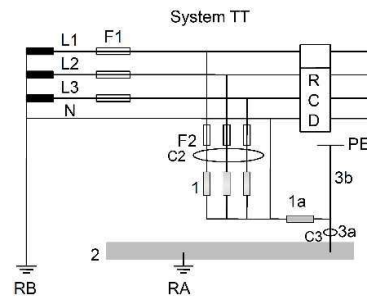
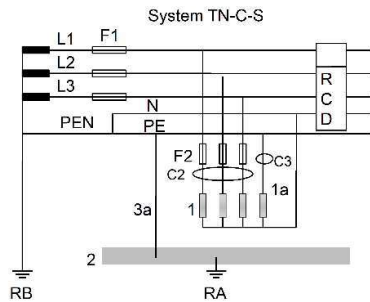
All installation work must be carried out by licensed electrical personnel

Location

The Shunt Protection device should be installed at the “Point of Entry” of the power mains, but after the power meter and main breaker so as to protect the downstream power connected equipment.

Ensure power is disconnected prior to commencing installation.

1. The unit is labelled showing the incoming (point of entry) terminals to be used. PHASE IN are at the top of the unit whilst the EARTH and NEUTRAL are at the bottom.
2. Ensure that the “V” or Kelvin connections, refer Page 8.
3. Incoming cabling should enter the enclosure on the left-hand side and load side cables should exit the enclosure on the right-hand side. This separation is important to ensure induction from “dirty” to “clean” lines does not occur.
4. The earth terminal must be connected to a low impedance earth (<10 Ohms) deploying a single point earthing system, which should be connected to an equipotential earth plane. Integral to this is the elimination of earth loops. It is common, but incorrect from the point of lightning protection to have separate earths for various services. The use of single or multi core copper earth cable of not less than 25 mm² (Max. 50 mm²) is recommended.
5. Once connections are completed apply power and observe correct operation.



Legend

- 1 - LPI SST150B
- 1a - LPI NE100
- 2 - Main equipotential bus bar
- 3a, 3b - Grounding wires for arresters
- F1 - Main back-up fuse of service main
- F2 - Recommended back-up fuse 315 AgL/gG (only if the main back-up fuse F1 is fitted with back-up fuses >315 AgL/gG)
- RA - Equipment grounding
- RB - Grounding system

Recommended Fuse and Cable Sizes

Fuse F1 gL/gG	C2 mm ² connection at F2	C3 mm ² connection to gnd	Fuse F2 gL/gG
25 A-80 A	10	16	-
100 A-125 A	16	16	-
160 A	25	25	-
200 A-315 A	35	35	-
≥500 A	35	35	315 A

All PPMs are supplied with cable ties securing SST150B modules for transport purposes only. Remove all cable ties when installing.