

HORIZONTAL DISTRIBUTION BOARD

TPN & SPN Instruction leaflet DOC: 042926REV01

FuseBox®

HORIZONTAL DISTRIBUTION BOARD

(2P&4P 100A main switch fitted)

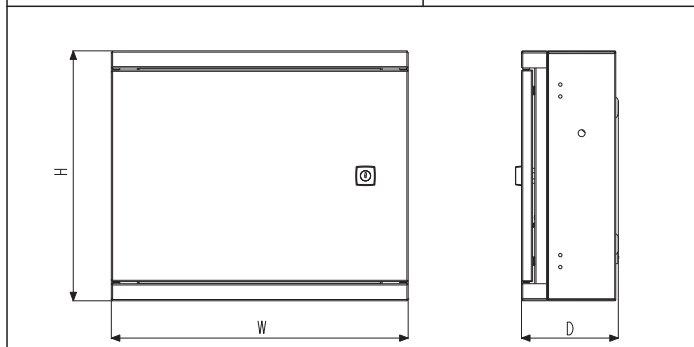
Suitable for 6kA and 10kA FuseBox devices.

This distribution board must be installed and tested by a qualified electrician in accordance with the current IET Wiring Regulations BS7671.

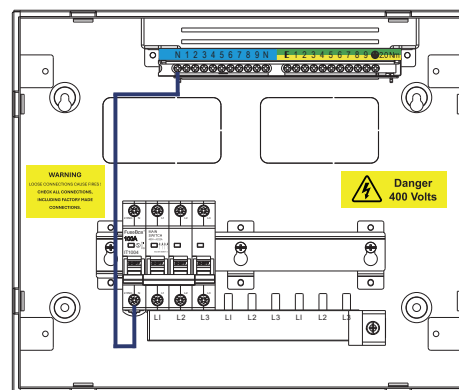
Standards (TABLE 1)	
Device	Standard
Consumer Unit	EN 61439-3
Main Switch	IEC EN 60947-3
RCD	IEC EN 61008-1
MCB	IEC EN 60898-1
RCBO	IEC EN 61009-1
SPD	IEC EN 61643-11
IP RATING	IP3X
Main Switch	100A 2 pole & 4 pole
Busbar Current Rating	100A
Busbar Rating	16kA
Voltage Rating	230/400~
Number of Ways	TPN: 2, 4, 6, 8 SPN: 8,14,20,26
Material	Steel 1mm SPCC
Finish	RAL 9001 powder coated finish
Mounting	Keyhole fixings in all corners
Lock	Standard coin slot

Recommended Torque Settings (TABLE 2)		
Device	Max. Cable Capacity	Torque
MAIN SWITCH	35mm ²	2.5Nm
RCD	25mm ²	2.5Nm
MCB	16mm ²	2.5Nm
Earth/Neutral Terminals	16mm ²	2.5Nm

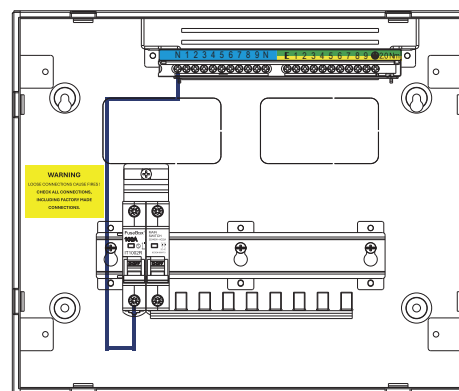
Dimensions Value	
Part number	Dimensions (HxWxD)mm
HTPN02 HSP08 HSP07Z HTPNSPDT2 HTPNSF0100	295 x 348 x 113
HTPN04 HSP14 HSP13Z HTPNEV32SPD	295 x 470 x 113
HTPN06 HSP20 HSP19Z	295 x 550 x 113
HTPN08 HSP26 HSP25Z	295 x 644 x 113



HTPN02 100A 2 WAY 4P MAIN SWITCH



HSP08 100A 8 WAY 2P MAIN SWITCH



1 Technical information

- 1a Distribution Board must be installed by a qualified electrician in accordance with the current IET Wiring Regulations BS 7671
- 1b Total load must not exceed the rating of the incoming isolator or any additional limitation.
- 1c The total sum of the individual MCBs may exceed this value where there is appropriate diversity in the installation.
- 1d The distribution board and associated components have been manufactured to the following specifications (table 1).
- 1e Ambient Temperature: MCBs are calibrated at 30°C according to the calibration temperature requirements of EN60898. At other temperatures the following rating factors should be used: At 60°C 0.85 At 20°C 1.0 At 0°C 1.15
- 1f Adjacent thermal-magnetic MCBs should not be continuously loaded at their nominal rated currents when mounted in enclosures. We recommend a 60% de-rating factor is applied to the MCBs nominal rated current where it is intended to load the MCBs continuously.

2 Enclosure Mounting

- 2a Remove front cover and door assembly (4x screws).
- 2b Gland plates are fitted top and bottom and should be removed if drilling holes to prevent swarf inside the enclosure. In order to maintain the IP rating and fire containment of the enclosure we recommend glands are used.
- 2c Fix base to wall using 4 screws and rawl plugs as appropriate and remove any debris from inside the Distribution Board.
- 2d Adjust to the square.
- 2e Route incoming cables to desired positions.

After installation and testing of this product it is essential that the INSTRUCTION LEAFLET is available for reference

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3 Connection of Tails

- 3a Cut and dress the main incoming cables and earth conductor.
3b Connect into the appropriate terminals on Main Switch and earth terminal bar and torque (TABLE 2).

4 Connections

- 4a Cut, dress and connect circuit conductors to appropriate MCBs neutral and earth terminals.
4b ALL CONNECTIONS (including factory made connections) MUST BE TORQUED (TABLE 2).
4c Make sure that each earth and neutral outgoing circuit is correctly made to the corresponding numbered terminals as this will ensure final testing and fault finding is easier.

5 Circuit Identification

- 5a All circuits must be clearly labelled on the front cover.

6 Enclosure Earthing

- 6a An M8 hole is punched into the base (bung fitted).

7 Operation of the TEST button on RCD/RCBOs

- 7a When newly fitted systems do not trip on the TEST button of the RCD/RCBO or using the RCD tester the problem is normally caused by an earth to neutral fault on the circuit (PME supply).

8 Testing

- 8a After completion of the installation, it must be tested in accordance with the latest edition of the IET Wiring regulations for Electrical Installations (BS 7671).

Before fitting the front cover, check all connections including factory made connections are TORQUED (table 2).

Loose connections can cause fires!

ATTENTION

ENSURE SUPPLY IS SAFELY ISOLATED BEFORE COMMENCING INSTALLATION



1 Pole 10kA MCB			
Current rating	B curve	C curve	D curve
6A	MT10B061	MT10C061	MT10D061
10A	MT101061	MT10C101	MT10D101
16A	MT10B161	MT10C161	MT10D161
20A	MT10B201	MT10C201	MT10D201
25A	MT10B251	MT10C251	MT10D251
32A	MT10B321	MT10C321	MT10D321
40A	MT10B401	MT10C401	MT10D401
50A	MT10B501	MT10C501	MT10D501
63A	MT10B631	MT10C631	MT10D631

RCBO 1 P+N 10kA			
Current rating	B curve	C curve	
6A	RTA100630B	RTA100630C	
10A	RTA101030B	RTA101030C	
16A	RTA101630B	RTA101630C	
20A	RTA102030B	RTA102030C	
25A	RTA102530B	RTA102530C	
32A	RTA103230B	RTA103230C	
40A	RTA104030B	RTA104030C	
50A	RTA105030B	RTA105030C	
63A	RTA106330B	RTA106330C	

PRODUCT RANGE	
Part number	Description
TPN MAIN SWITCH 100A 4P HORIZONTAL	
HTPN02	100A 2 WAY TPN HORIZONTAL
HTPN04	100A 4 WAY TPN HORIZONTAL
HTPN06	100A 6 WAY TPN HORIZONTAL
HTPN08	100A 8 WAY TPN HORIZONTAL
SP MAIN SWITCH 100A 2P HORIZONTAL POWER	
HSP08	100A MAIN SWITCH 2P 8 WAY HORIZONTAL
HSP14	100A MAIN SWITCH 2P 14 WAY HORIZONTAL
HSP20	100A MAIN SWITCH 2P 20 WAY HORIZONTAL
HSP26	100A MAIN SWITCH 2P 26 WAY HORIZONTAL
SP MAIN SWITCH 100A 2P + SPD HORIZONTAL POWER	
HSP07Z	7 WAY T2 100A MS 2P(HORIZONTAL)
HSP13Z	13 WAY T2 100A MS 2P (HORIZONTAL)
HSP19Z	19 WAY T2 100A MS 2P (HORIZONTAL)
HSP25Z	25 WAY T2 100A MS 2P (HORIZONTAL)
TPN SPD / FUSE SWITCH / EV	
HTPNSPDT2	3 PHASE SPD ENC
HTPNSF0100	3 PHASE FUSED SWITCH
HTPNEV32SPD	3 PHASE EV CHARGER DISTRIBUTION

RCBO 3P+N 10kA				
Current rating	B curve	C curve	D curve	
6A	R3PN10B0630BD	R3PN10C0630BD	R3PN10D0630BD	
10A	R3PN10B1030BD	R3PN10C1030BD	R3PN10D1030BD	
16A	R3PN10B1630BD	R3PN10C1630BD	R3PN10D1630BD	
20A	R3PN10B2030BD	R3PN10C2030BD	R3PN10D2030BD	
25A	R3PN10B2530BD	R3PN10C2530BD	R3PN10D2530BD	
32A	R3PN10B3230BD	R3PN10C3230BD	R3PN10D3230BD	
40A	R3PN10B4030BD	R3PN10C4030BD	R3PN10D4030BD	
45A	R3PN10B4530BD	R3PN10C4530BD	R3PN10D4530BD	
50A	R3PN10B5030BD	R3PN10C5030BD	R3PN10D5030BD	

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