DATASHEET

Mains power protection

MMP BT+CT Series

Type 1 (Class I / B) Gas Discharge Tube protector (BT Series)
Type 2 (Class II / C) Gas Discharge Tube protector (CT Series)
***I*max = 100 kA 8/20 µs (BT Series) and 40 kA 8/20 µs (CT Series)**
***I*imp = 100 kA 10/350 µs (BT Series) and 12.5 kA 10/350 µs (CT Series)**

Features & benefits

- Suitable to provide galvanic separation between N - PE conductors (in TT systems)
- Two red indicators show when the protector requires replacement (BT Series)
- If only one indicator is displayed then there is still limited or reduced protection offered by the unit (BT Series)
- A red indicator shows when the protection module requires replacement (CT Series - replacement module part no. MMP CT255)
- This indication can also trigger a remote signal contact to interface with a building management system. Please use '/S' after the part no. to order the remote indication (change-over) contact version

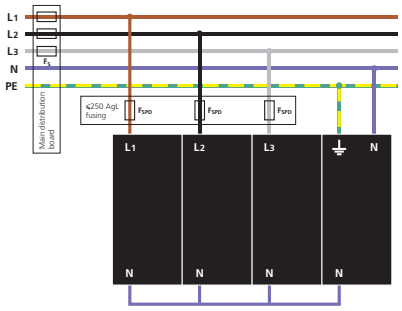
Application

Use in conjunction with other Type 1 or Type 2 varistor based surge protection devices. The BT Series protect against both direct and indirect lightning strikes whereas the CT Series protect primarily against indirect lightning strikes.

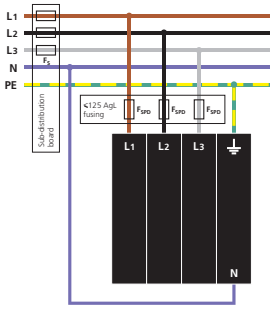
Installation

The BT Series should be installed in a main distribution panel. The CT Series should be installed in a sub-distribution panel or as close as possible to the equipment to be protected. The protector's base is suitable for attachment to a 35 mm top hat DIN rail.

The diagrams below illustrate how to wire the appropriate MMP protector according to your chosen electrical system.



TT - MMP BT

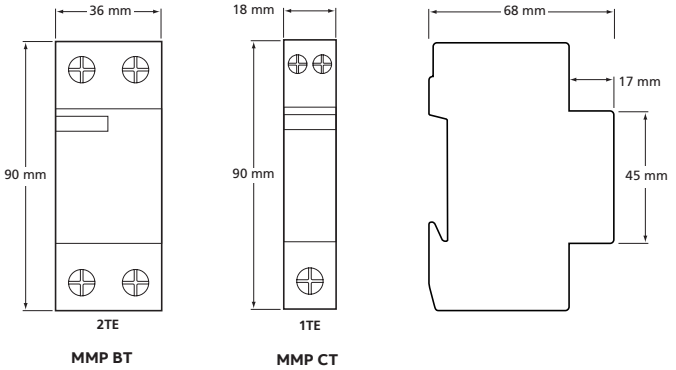


TT - MMP CT

MMP BT+CT Series - Technical specification

Electrical specification	**MMP BT255B/1**	**MMP CT255/1**
Installation	TT	TT
SPD protective element	GDT	GDT
Nominal voltage (U_o)	220-240 VRMS	220-240 VRMS
Nominal frequency range	47-63 Hz	47-63 Hz
Maximum continuous operating voltage (U_c)	255 Vac	255 Vac
Maximum back up fuse	250 AgL	125 AgL
Short circuit capability	25 kA / 50 Hz	25 kA / 50 Hz
Signal contact ratings	250 VRMS / 0.5 A	250 VRMS / 0.5 A
Part numbers:		
SPD part no.	MMP BT255B/1	MMP CT255/1
SPD part no. with signal contact	MMP BT255B/1/S	MMP CT255/1/S
Replacement module part no.	-	MMP CT255
Transient specification	**MMP BT255B/1**	**MMP CT255/1**
Arrester classification[1]		
EN	1 (1 + 2)	2
IEC	I (I + II)	I + II
E DIN VDE 0675	B (B + C)	C
Let-through voltage (Up)[2] at 1.2/50 µs	< 1.75 kV	< 2.0 kV
Nominal discharge current *I*n (8/20 µs)	100 kA	20 kA
Maximum discharge current		
*I*max (8/20 µs)	100 kA	40 kA
*I*imp (10/350 µs)	100 kA	12.5 kA
Mechanical specification	**MMP BT255B/1**	**MMP CT255/1**
Temperature range	-40 to +80 °C	
Connection type		
for power, MMP BT	100 kA	40 kA
for power, MMP CT	35 mm² solid conductor, 25 mm² stranded conductor - maximum torque 3.0 Nm	
for signal (remote contact), MMP CT	1.5 mm² conductor (/S option) - maximum torque 0.25 Nm	
Mounting	Indoor, 35 mm top hat DIN rail	
Degree of protection	IP20	
Case material	Thermoplastic, UL 94 V-0	
Weight	260 g	145 g[3]
Dimensions to DIN 43880	90 mm x 68 mm x 36 mm (2TE) Units with the remote signal contact terminals (removable) are 100 mm high	90 mm x 68 mm x 18 mm (1TE) Units with the remote signal contact terminals (removable) are 100 mm high

[1] Tested to BS EN/IEC-61643
[2] Values stated are per pole
[3] Remote signal contact adds 5 g to weight



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