

Surge-Trap[®] Pluggable STPT12 Series - 25kA

SURGE PROTECTION FOR POWER LINES

DIN-RAIL IEC TYPE 1+2 / CLASS I+II



STP T12 25 is the series of combined Type 1+2/Class I+II devices for discharging lightning currents and protecting against voltage surges, in accordance with EN/IEC 61643. Suitable as the first step of protection in incoming power supply panels and areas with exposure to the atmosphere, where installations are usually provided with an external lightning protection system.

TECHNICAL DATA OVERVIEW

Class	Type 1+2 / Class I+II
U_n	230/400V
I_{imp}	25 kA
I_{max}	100 kA
I_n (8/20)	25 kA
Body Material	PA66 CT1; V-0
System type	TT, TNS, TNC
Number of Poles	1,2,3,4
Format	Pluggable
Temperature range	-40 ... 80 ° C
I_{cc}	25 kA
IP Code	20
Back-up fuse	315 A gG
Stranded wire Section	6 ... 25 mm ²
Rigid wire Section	6 ... 35 mm ²

FEATURES & BENEFITS

- Lightning impulse current (10/350 μ s): 25kA per phase
- Maximum discharge current (8/20 μ s): 100kA per phase
- Nominal discharge current (8/20 μ s): 25kA per phase
- TNS, TNC and TT networks
- U_n (L-N/L-L): 230/400V
- DIN-rail mountable, plug-in format
- Visual and remote end of life indicators
- Reversible chassis to allow cable entry from above or below
- Mechanically coded cartridges to avoid cartridge replacement errors
- Back-up fuse: 315 A gG

APPLICATIONS

- Industry and automation
- Commercial and residential installations
- Telecom & IT & Data Centers
- Water treatment
- Smart grid & LV Metering
- Photovoltaic & wind

STANDARDS

- IEC 61643-11
- EN 61643-11



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PRODUCT RANGE

1 Pole

STPT12-25K275V-1PM

Catalog number	Item number	U _n	U _c	I _{imp} (10/350)	I _{max} (8/20)	I _n (8/20)	U _p at I _n	Remote	Weight
L-N (1Ph)									
STPT12-25K275V-1P	83120152	230 VAC	275 V	25 kA	100 kA	25 kA	≤ 1.5 kV	No	0.35 kg
STPT12-25K275V-1PM	83120153	230 VAC	275 V	25 kA	100 kA	25 kA	≤ 1.5 kV	Yes	0.38 kg
N-PE (N)									
STPT12-100K-N	83120166	Neutral	255 V	100 kA	100 kA	50 kA	≤ 1.5 kV	No	0.31 kg

2 Poles

STPT12-25K275V-2PM

Catalog number	Item number	U _n	U _c	I _{imp} (10/350)	I _{max} (8/20)	I _n (8/20)	U _p at I _n	Remote	Weight
TT (1Ph+N)									
STPT12-25K275V-2PG	83120154	230 / - VAC	275 V	25 kA	100 kA	25 kA	≤ 1.5 kV	No	0.7 kg
STPT12-25K275V-2PGM	83120155	230 / - VAC	275 V	25 kA	100 kA	25 kA	≤ 1.5 kV	Yes	0.76 kg
TNS (1Ph+N)									
STPT12-25K275V-2P	83120156	230 / - VAC	275 V	25 kA	100 kA	25 kA	≤ 1.5 kV	No	0.7 kg
STPT12-25K275V-2PM	83120157	230 / - VAC	275 V	25 kA	100 kA	25 kA	≤ 1.5 kV	Yes	0.76 kg

3 Poles

STPT12-25K275V-3PM

Catalog number	Item number	U _n	U _c	I _{imp} (10/350)	I _{max} (8/20)	I _n (8/20)	U _p at I _n	Remote	Weight
TNC (3Ph)									
STPT12-25K275V-3P	83120158	- / 400 VAC	275 V	25 kA	100 kA	25 kA	≤ 1.5 kV	No	1.05 kg
STPT12-25K275V-3PM	83120159	- / 400 VAC	275 V	25 kA	100 kA	25 kA	≤ 1.5 kV	Yes	1.08 kg

MERSEN reserves the right to change, update or correct, without notice, any information contained in this datasheet.

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PRODUCT RANGE

4 Poles

STPT12-25K275V-4PM

Catalog number	Item number	U_n	U_c	I_{imp} (10/350)	I_{max} (8/20)	I_n (8/20)	U_p at I_n	Remote	Weight
TT (3Ph+N)									
STPT12-25K275V-4PG	83120150	230 / 400 VAC	275 V	25 kA	100 kA	25 kA	≤ 1.5 kV	No	1.31 kg
STPT12-25K275V-4PGM	83120151	230 / 400 VAC	275 V	25 kA	100 kA	25 kA	≤ 1.5 kV	Yes	1.36 kg
TNS (3Ph+N)									
STPT12-25K275V-4P	83120160	230 / 400 VAC	275 V	25 kA	100 kA	25 kA	≤ 1.5 kV	No	1.31 kg
STPT12-25K275V-4PM	83120161	230 / 400 VAC	275 V	25 kA	100 kA	25 kA	≤ 1.5 kV	Yes	1.36 kg

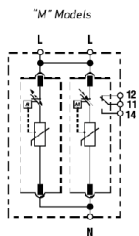
Replacement cartridges

SP12-25K275V

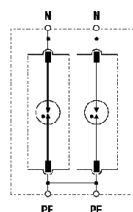
Catalog number	Item number	U_n	U_c	I_{imp} (10/350)	I_{max} (8/20)	I_n (8/20)	U_p at I_n	Weight
L-N (1Ph)								
SP12-25K275V	83120007	230 VAC	275 V	25 kA	100 kA	25 kA	≤ 1.5 kV	0.24 kg
N-PE (N)								
SP12-50K-2PN	83120009	Neutral	255 V	50 kA	100 kA	25 kA	≤ 1.5 kV	0.24 kg
SP12-100K-N	83120008	Neutral	255 V	100 kA	100 kA	50 kA	≤ 1.5 kV	0.24 kg

ELECTRICAL DIAGRAMS

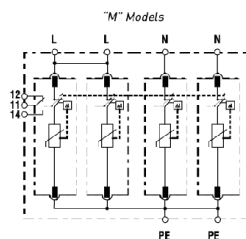
L-N (1Ph)



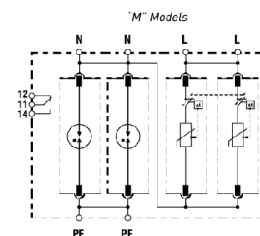
N-PE (N)



TNS (1Ph+N) - 2P



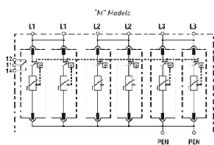
TT (1Ph+N) - 2PG



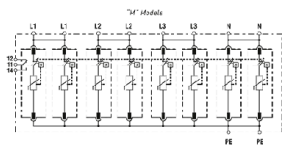
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ELECTRICAL DIAGRAMS

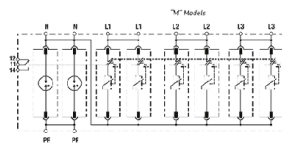
TNC (3Ph) - 3P



TNS (3Ph+N) - 4P

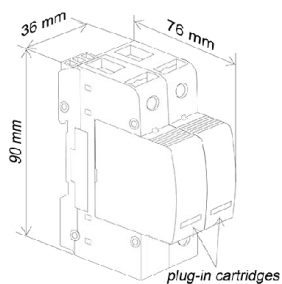


TT (3Ph+N) - 4PG

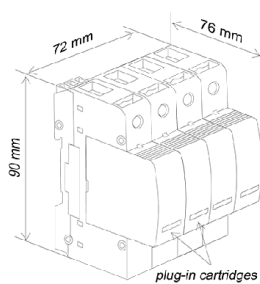


DIMENSIONS

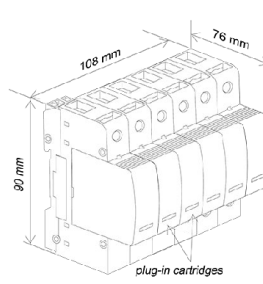
1 Pole



2 Poles



3 Poles



4 Poles

