

Surge-Trap[®] Monobloc STMT1 Series - 50kA

SURGE PROTECTION FOR POWER LINES

DIN-RAIL IEC TYPE 1 / CLASS I



STM T1 50 is the most robust series of single pole Type 1/Class I lightning current arresters, able to discharge energy (current) from a direct lightning strike (10/350 μ s) on an external lightning protection system (LPS) or overhead supplies, in accordance with EN/IEC 61643. Suitable as the first step of protection in incoming power supply panels and areas with high exposure to lightning strikes, fitted with an external lightning protection system.

TECHNICAL DATA OVERVIEW

Class	Type 1 / Class I
U _n	120/208V, 230/400V, 277/480V, 400/690V
I _{imp}	50 kA
I _n (8/20)	50 kA
Body Material	PC+GF; V-0
I _{fi}	50000 A
System type	L-N, N-PE
Number of Poles	1
Format	Monobloc
Temperature range	-40 ... -80 ° C
I _{cc} Range	25 ... 50 kA
IL	0
IP Code	20
Back-up fuse	500 A gG
Stranded wire Section	16 ... 25 mm ²
Rigid wire Section	16 ... 35 mm ²

FEATURES & BENEFITS

- Lightning impulse current (10/350 μ s): 50kA
- Follow current quenching capacity (I_{fi}): 50kA
- Leakage current free (LCF)
- Multi-discharge technology
- Single pole devices for TNS, TNC, IT and TT earthing systems
- U_n(L-N/L-L): 120/208V, 230/400V, 277/480V, 400/690V
- DIN-rail mountable, monobloc format
- Back-up fuse: 500 A gG

APPLICATIONS

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

STANDARDS

- IEC 61643-11
- EN 61643-11



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PRODUCT RANGE

STMT1-50K275V-1P

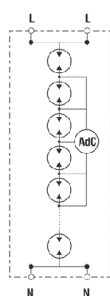
STMT1-100K-N

1 Pole

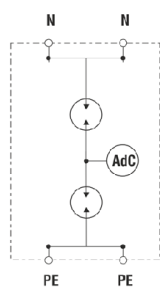
Catalog number	Item number	U_n	U_c	I_{imp} (10/350)	I_n (8/20)	U_p at I_n	Weight
L-N (1Ph)							
STMT1-50K150V-1P	83010103	120 VAC	150 V	50 kA	50 kA	≤ 2 kV	0.26 kg
STMT1-50K275V-1P	83010100	230 VAC	275 V	50 kA	50 kA	≤ 2 kV	0.26 kg
STMT1-50K320V-1P	83010104	277 VAC	320 V	50 kA	50 kA	≤ 2 kV	0.26 kg
STMT1-50K440V-1P	83010107	400 VAC	440 V	50 kA	50 kA	$\leq 2,5$ kV	0.26 kg
N-PE (N)							
STMT1-100K-N	83010102	Neutral	255 V	100 kA	100 kA	≤ 2 kV	0.26 kg

ELECTRICAL DIAGRAMS

L-N (1Ph)



N-PE (N)



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DIMENSIONS

1 Pole

