

# Surge-Trap<sup>®</sup> 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 (10/350µs) on an external lightning protection system (LPS) or overhead supplies, in accordance with EN/IEC 61643-11. 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 <sub>n</sub>	120/208V, 230/400V, 277/480V, 400/690V
I <sub>imp</sub>	50 kA
I <sub>n</sub> (8/20)	50 kA
Body Material	PC+GF; V-0
I <sub>fi</sub>	50000 A
System type	L-N, N-PE
Number of Poles	1
Format	Monobloc
Temperature range	-40 ... 80 ° C
I <sub>cc</sub> Range	25 ... 50 kA
IP Code	20
Back-up fuse	500 A gG
Stranded wire Section	16 ... 25 mm <sup>2</sup>
Rigid wire Section	16 ... 35 mm <sup>2</sup>

## FEATURES & BENEFITS

- Lightning impulse current (10/350µs): 50kA
- Follow current quenching capacity (I<sub>fi</sub>): 50kA
- Leakage current free (LCF)
- Multi-discharge technology
- Single pole devices for TNS, TNC, IT and TT earthing systems
- U<sub>n</sub>(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



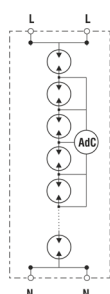
STMT1-50K275V-1P

### 1 Pole

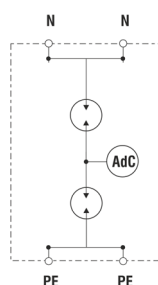
Catalog number	Item number	$U_n$	$U_c$	$I_{imp} (10/350)$	$I_n (8/20)$	$U_p$ at $I_n$
<b>L-N (1Ph)</b>						
STMT1-50K150V-1P	83010103	120 VAC	150 V	50 kA	50 kA	$\leq 2$ kV
STMT1-50K275V-1P	83010100	230 VAC	275 V	50 kA	50 kA	$\leq 2$ kV
STMT1-50K320V-1P	83010104	277 VAC	320 V	50 kA	50 kA	$\leq 2$ kV
STMT1-50K440V-1P	83010107	400 VAC	440 V	50 kA	50 kA	$\leq 2.5$ kV
<b>N-PE (N)</b>						
STMT1-100K-N	83010102	Neutral	255 V	100 kA	100 kA	$\leq 2$ kV

## ELECTRICAL DIAGRAMS

### L-N (1Ph)

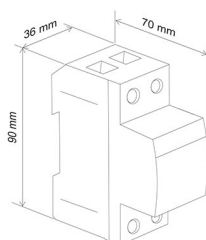


### N-PE (N)



## DIMENSIONS

### 1 Pole



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