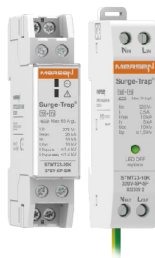


# Surge-Trap<sup>®</sup> Monobloc STMT23 Series - 20kA Slim

**SURGE PROTECTION FOR POWER LINES**

DIN-RAIL IEC TYPE 2+3 / CLASS II+III



STM T23 20 S is the series of combined Type 2+3/Class II+III devices for discharging voltage surges while providing a very fine voltage protection level, in accordance with EN/IEC 61643. Suitable as the final stage of protection in panels with Type 2 protection devices installed upstream. These SPDs should be installed as close as possible to the equipment being protected. Ideal for limited spaces. Wide range of voltage ratings.

## TECHNICAL DATA OVERVIEW

Class	Type 2+3 / Class II+III
$U_n$	12V, 24V, 48V, 60V, 120V, 230V
$I_{max}$ Range	6 ... 20 kA
Body Material	PC+GF; V-0
Number of Poles	2
Format	Slim monobloc
$I_n$ (8/20) Range	3 ... 10 kA
$U_{oc}$ Range	6 ... 10 kV
Back-up fuse	25 ... 63 A gG
Response Time	25 ns

## FEATURES & BENEFITS

- Maximum discharge current (8/20 $\mu$ s): 20kA, 10kA, 6kA
- Nominal discharge current (8/20 $\mu$ s): 10kA, 5kA, 3kA
- Combined voltage pulse (1.2/50 $\mu$ s): 10kV, 6kV
- Single phase TT and TNS networks
- $U_n$ : 12V, 24V, 48V, 60V, 120V, 230V
- Typically for use also in the corresponding DC voltages
- DIN-rail mountable, monobloc format
- For DIN-rail fuseboxes (in the pole of the luminaire)
- Visual (LED) and remote end of life indicators
- Power status (LED) indicator
- Space saving "slim" format
- Rated current load for Fusebox models (IL): 5 A
- Back-up fuse: 25 ... 63 A gG

## APPLICATIONS

- Industry and automation
- Commercial and residential installations
- Telecom & IT & Data Centers
- LED outdoor lighting
- Water treatment

## STANDARDS

- IEC 61643-11
- EN 61643-11



# Surge-Trap® Monobloc STMT23 Series - 20kA Slim

## PRODUCT RANGE

### 2 Poles (Parallel)

STMT23-20K275V-SP-SM

Catalog number	Item number	U <sub>n</sub>	U <sub>c</sub>	I <sub>max</sub> (8/20)	I <sub>n</sub> (8/20)	U <sub>oc</sub>	U <sub>p</sub> at I <sub>n</sub>	Weight
<b>TT/TNS (1Ph+N)</b>								
STMT23-6K20V-SP-S	83230500	12 V	20 VAC 25 VDC	6 kA	3 kA	6 kV	≤ 0.22 kV (L1-L2) ≤ 0.7 kV (L1/L2-PE)	55 g
STMT23-6K20V-SP-SM	83230501	12 V	20 VAC 25 VDC	6 kA	3 kA	6 kV	≤ 0.22 kV (L1-L2) ≤ 0.7 kV (L1/L2-PE)	76 g
STMT23-6K30V-SP-S	83230504	24 V	30 VAC 36 VDC	6 kA	3 kA	6 kV	≤ 0.22 kV (L1-L2) ≤ 0.7 kV (L1/L2-PE)	55 g
STMT23-6K30V-SP-SM	83230505	24 V	30 VAC 36 VDC	6 kA	3 kA	6 kV	≤ 0.22 kV (L1-L2) ≤ 0.7 kV (L1/L2-PE)	76 g
STMT23-6K60V-SP-S	83230506	48 V	60 VAC 77 VDC	6 kA	3 kA	6 kV	≤ 0.33 kV (L1-L2) ≤ 0.7 kV (L1/L2-PE)	55 g
STMT23-6K60V-SP-SM	83230507	48 V	60 VAC 77 VDC	6 kA	3 kA	6 kV	≤ 0.33 kV (L1-L2) ≤ 0.7 kV (L1/L2-PE)	76 g
STMT23-6K75V-SP-S	83230508	60 V	75 VAC 100 VDC	6 kA	3 kA	6 kV	≤ 0.5 kV (L1-L2) ≤ 0.9 kV (L1/L2-PE)	55 g
STMT23-6K75V-SP-SM	83230509	60 V	75 VAC 100 VDC	6 kA	3 kA	6 kV	≤ 0.5 kV (L1-L2) ≤ 0.9 kV (L1/L2-PE)	76 g
STMT23-6K150V-SP-S	83230502	120 V	150 VAC 200 VDC	6 kA	3 kA	6 kV	≤ 0.7 kV (L1-L2) ≤ 0.9 kV (L1/L2-PE)	55 g
STMT23-6K150V-SP-SM	83230503	120 V	150 VAC 200 VDC	6 kA	3 kA	6 kV	≤ 0.7 kV (L1-L2) ≤ 0.9 kV (L1/L2-PE)	76 g
STMT23-20K275V-SP-S	83230510	230 V	275 VAC 365 VDC	20 kA	10 kA	10 kV	≤ 1.4 kV (L1-L2) ≤ 1.4 kV (L1/L2-PE)	55 g
STMT23-20K275V-SP-SM	83230511	230 V	275 VAC 365 VDC	20 kA	10 kA	10 kV	≤ 1.4 kV (L1-L2) ≤ 1.4 kV (L1/L2-PE)	76 g

### 2 Poles (Series/Parallel) for Fusebox

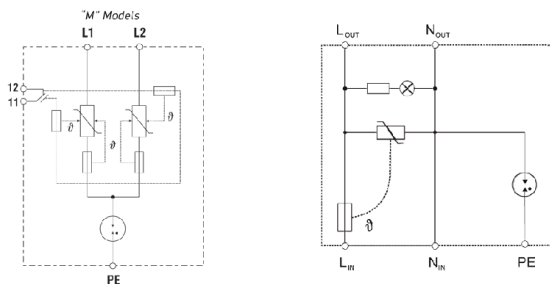
STMT23-10K320V-SP-SF

Catalog number	Item number	U <sub>n</sub>	U <sub>c</sub>	I <sub>max</sub> (8/20)	I <sub>n</sub> (8/20)	U <sub>oc</sub>	U <sub>p</sub> at I <sub>n</sub>	Weight
<b>C4 (1Ph+N)</b>								
STMT23-10K320V-SP-SF	83230512	230 VAC	320 V	10 kA	5 kA	10 kV	≤ 1.5 kV (L-N) ≤ 1.8 kV (N-PE)	55 g

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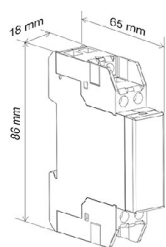
## ELECTRICAL DIAGRAMS

TT/TNS (1Ph+N) - Parallel C4(1Ph+N) - (Series/Parallel)



## DIMENSIONS

Slim SPD



Slim SPD Fusebox

