

Surge-Trap[®] Type 2+3 - for LED Lighting

SURGE PROTECTION FOR OUTDOOR AND COMMERCIAL LED LIGHTING

POWER LINE PROTECTION FOR THE LED DRIVER IN THE FIXTURE (UL & IEC)



STL T23 is the series of robust 10-20 kV 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 for protection of LED outdoor luminaires (street-light). Due to the exposure of the extremely sensitive LED electronics to lightning-induced overvoltages, STL T23 is a widespread market solution amongst OEM manufacturers of LED lighting systems.

TECHNICAL DATA OVERVIEW

Class	Type 2+3 / Class II+III
U_n	230 V
I_{max} Range	10 ... 20 kA
Body Material	PA66 CT1; V-0
Format	Hardwired
Temperature range	-40 ... 80 °C
I_{cc} Range	1 ... 10 A
I_n (8/20) Range	5 ... 10 kA
U_{oc} Range	10 ... 20 kV
IL	2.5 ... 10 A
IP Code	20
Back-up fuse	25 ... 32 A gG
Stranded wire Section	0.7 ... 2.5 mm ²
Response Time	25 ns

FEATURES & BENEFITS

- STL, STLB
- Combined voltage pulse (1.2/50 μ s): 10 kV, 20 kV (U_{oc})
- Maximum discharge current (8/20 μ s): 10 kA, 20 kA
- Nominal discharge current (8/20 μ s): 5 kA, 10 kA
- Class 1 and Class 2 luminaires, universal solutions
- Miniature size and easy to install
- Hardwired, in-line format
- End of life indication
- Rated current load (IL): 2.5 A, 10 A (series)
- Optional: "surge tested and certified" luminaire with STL T23 by accredited LAB
- Back-up fuse: 25 A gG

APPLICATIONS

- LED outdoor lighting

STANDARDS

- IEC 61643-11
- EN 61643-11
- IEE/ANSI C62.41.2



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PRODUCT RANGE



STLT23-10K320V-C12

STL

Catalog number	Item number	U _n	U _c	I _{max} (8/20)	I _n (8/20)	U _{oc}	U _p at I _n	IL
STL C12: 1Ph+N / 2Ph-Universal								
STLT23-10K320V-C12	83230302	230 VAC	320 V	10 kA	5 kA	10 kV	≤ 1.5 kV (L-N) ≤ 1.8 kV (L/N-GND)	< 10 A
STL C2: 1Ph+N								
STLT23-10K320V-C2-WD	83230323	230 VAC	320 V	10 kA	5 kA	10 kV	≤ 1.5 kV (L-N)	< 2.5 A
STL C4: 1Ph+N								
STLT23-10K320V-C4-WD	83230322	230 VAC	320 V	10 kA	5 kA	10 kV	≤ 1.5 kV (L-N) ≤ 1.8 kV (L/N-GND)	< 2.5 A



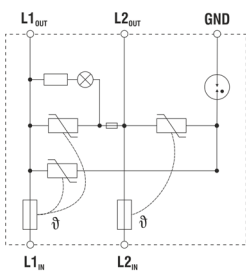
STLBT23-20K275V-C4-DD

STLB

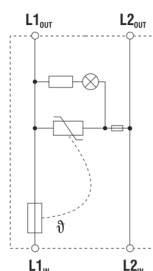
Catalog number	Item number	U _n	U _c	I _{max} (8/20)	I _n (8/20)	U _{oc}	U _p at I _n	IL
STB C4: 1Ph+N								
STLBT23-20K275V-C4-DD	83230321	230 VAC	275 V	20 kA	10 kA	20 kV	≤ 1.5 kV (L-N) ≤ 1.8 kV (L/N-GND)	2.5 A

ELECTRICAL DIAGRAMS

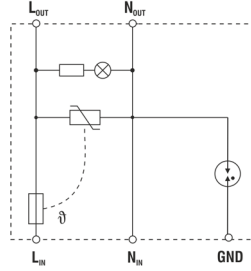
STL C12: 1Ph+N



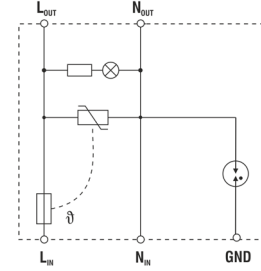
STL C2: 1Ph+N



STL C4: 1Ph+N



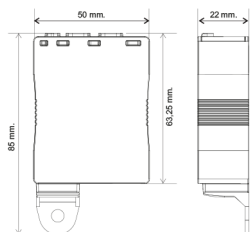
STLB C4: 1Ph+N



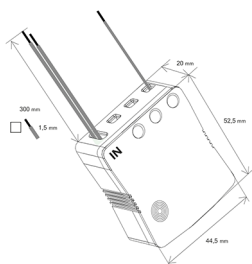
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DIMENSIONS

STLB

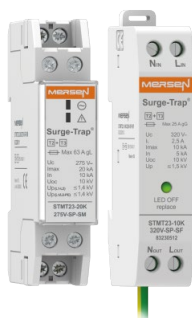


STL



RELATED SERIES

Surge-Trap® Monobloc STMT23 Series - 20kA Slim



Surge-Trap® POP + SPD Type 2 - For Contactor

