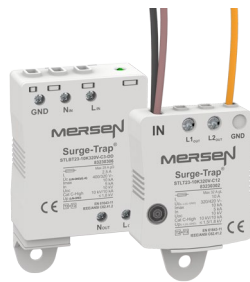


Surge-Trap® Type 2+3 - for LED Lighting

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, 277/480 V
I_{max} Range	10 ... 20 kA
Body Material	PA66 CT1; V-0
Format	Hardwired
Temperature range	-40 ... 80 ° C
I_{cc}	10 kA
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	32 A gG
Stranded wire Section	0.7 ... 2.5 mm ²
Response Time	25 ns

FEATURES & BENEFITS

- STL, STLb, STLH
- Combined voltage pulse (1.2/50µs): 10 kV, 20 kV (U_{oc})
- Maximum discharge current (8/20µs): 10 kA, 20 kA
- Nominal discharge current (8/20µs): 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: 32 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	Reference 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 (L1-L2) ≤ 1.8 kV (L1/L2-GND)	2.5 ... 10 A



STLBT23-10K320V-C3-DD

STLB

Catalog number	Reference number	U _n	U _c	I _{max} (8/20)	I _n (8/20)	U _{oc}	U _p at I _n	IL
C3: 1Ph+N/2Ph - Universal								
STLBT23-10K320V-C3-DD	83230306	230 VAC	320 V	10 kA	5 kA	10 kV	≤ 1.8 kV (L-N) ≤ 1.8 kV (L/N-GND)	2.5 ... 10 A
STLBT23-10K320V-C3-WW	83230305	230 VAC	320 V	10 kA	5 kA	10 kV	≤ 1.8 kV (L-N) ≤ 1.8 kV (L/N-GND)	2.5 ... 10 A
STLBT23-10K320V-C3-WW-IP	83230304	230 VAC	320 V	10 kA	5 kA	10 kV	≤ 1.8 kV (L-N) ≤ 1.8 kV (L/N-GND)	2.5 ... 10 A
C4: 1Ph+N								
STLBT23-10K320V-C4-DD	83230313	230 VAC	320 V	10 kA	5 kA	10 kV	≤ 1.5 kV (L-N) ≤ 1.8 kV (N-GND)	2.5 ... 10 A



STLHT23-20K530V-C3-WP

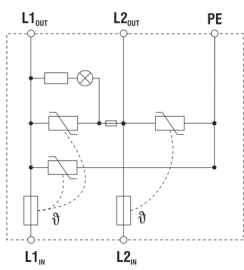
STLH

Catalog number	Reference number	U _n	U _c	I _{max} (8/20)	I _n (8/20)	U _{oc}	U _p at I _n	IL
C3: 1Ph+N/2Ph - Universal								
STLHT23-20K530V-C3-WP	83230317	277/480 VAC	530 V	20 kA	10 kA	20 kV	≤ 2.5 kV(L1(N)-L2) ≤ 2.5 kV (L1(N)/L2-GND)	2.5 ... 10 A

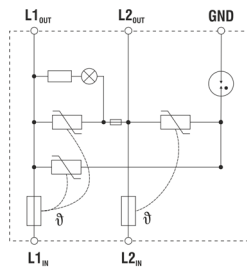
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ELECTRICAL DIAGRAMS

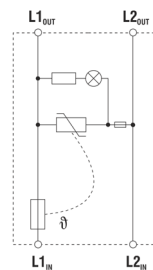
STL C1: 1Ph+N



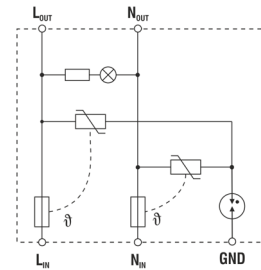
STL C12: 1Ph+N



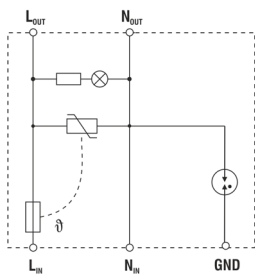
STL C2: 1Ph+N



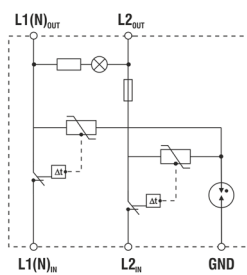
STL B C3: 1Ph+N/2Ph



STL B C4: 1Ph+N

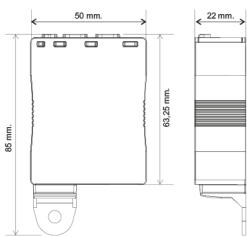


STL H C3: 1Ph+N/2Ph

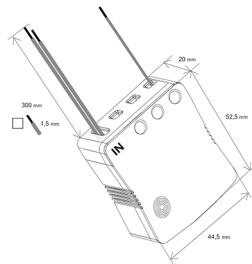


DIMENSIONS

STLB



STL



STLH

