

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

DIN Rail IEC Type 2+3 / Class II+III

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.

Features Benefits

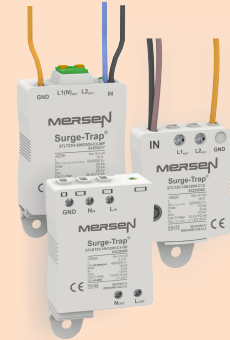
- STL, STLБ, STLH
- Combined voltage pulse (1.2/50µs): 10 kV, 20 kV (Uoc)
- Maximum discharge current (8/20µs): 10 kA, 20 kA
- Nominal discharge current (8/20µs): 5 kA, 10 kA
- Class 1 and Class 2 luminaires, universal solutions
- Miniature size and easy to install
- Hardwired, in-line format
- End of life indication
- Rated current load (IL): 2.5 A, 10 A (series)
- Optional: "surge tested and certified" luminaire with STL T23 by accredited LAB

Applications

- LED outdoor lighting

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	10 A
IP Code	20 65
Back-up fuse	32 A gG
Stranded wire Section	0.7 ... 2.5 mm ²
Response Time	25 ns



Standards

IEC 61643-11

EN 61643-11

IEE/ANSI C62.41.2



Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://mersen.nt-rt.ru/> || mnh@nt-rt.ru

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

Product range



STLT23-10K320V-C1

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 C1: 1Ph+N

STLT23-10K320V-C1	83230300	230 VAC	320 V	10 kA	5 kA	10 kV	≤ 1.5 kV (L1-L2) ≤ 1.8 kV (L1/L2-PE)	10 A
-------------------	----------	---------	-------	-------	------	-------	---	------

STL C12: 1Ph+N

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)	10 A
--------------------	----------	---------	-------	-------	------	-------	--	------

STL C2: 1Ph+N

STLT23-10K320V-C2	83230301	230 VAC	320 V	10 kA	5 kA	10 kV	≤ 1.5 kV (L1-L2)	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 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 A
STLBT23-10K320V-C3-WD	83230307	230 VAC	320 V	10 kA	5 kA	10 kV	≤ 1.8 kV (L-N) ≤ 1.8 kV (L/N-GND)	2.5 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 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 A
STLBT23-10K320V-C4-WW	83230312	230 VAC	320 V	10 kA	5 kA	10 kV	≤ 1.5 kV (L-N) ≤ 1.8 kV (N-GND)	2.5 A
STLBT23-10K320V-C4-WD	83230314	230 VAC	320 V	10 kA	5 kA	10 kV	≤ 1.5 kV (L-N) ≤ 1.8 kV (N-GND)	2.5 A
STLBT23-10K320V-C4-WW-IP	83230311	230 VAC	320 V	10 kA	5 kA	10 kV	≤ 1.5 kV (L-N) ≤ 1.8 kV (N-GND)	2.5 A

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

Product range



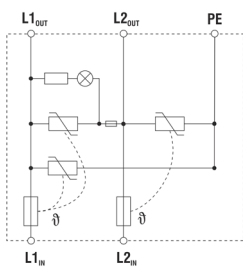
STLHT23-
20K530V-C3-WP

STLH

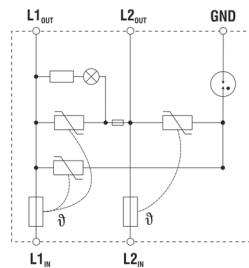
Catalog number	Reference number	U_n	U_c	I_{max} (8/20)	I_n (8/20)	U_{oc}	U_p at I_n	IL
C3: 1Ph+N/2Ph - Universal								
STLHT23-20K530V-C3-WP	83230317	277/480 VAC	530 V	20 kA	10 kA	20 kV	≤ 2.5 kV(L1(N)-L2) ≤ 2.5 kV (L1(N)/L2-GND)	10 A

Electrical diagrams

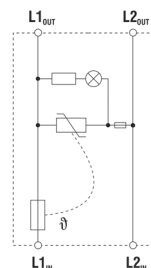
STL C1: 1Ph+N



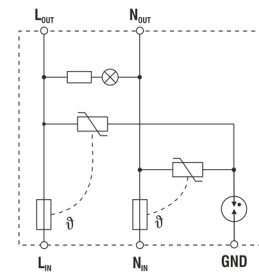
STL C12: 1Ph+N



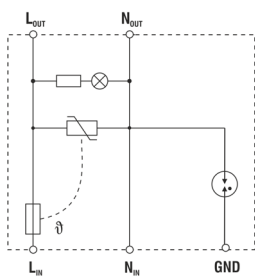
STL C2: 1Ph+N



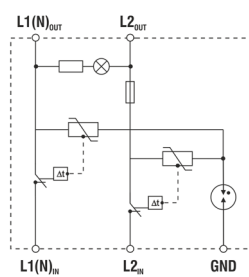
STLB C3: 1Ph+N/2Ph



STLB C4: 1Ph+N



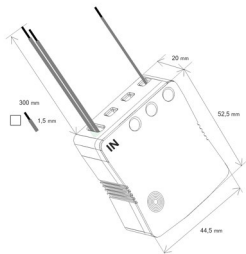
STLH C3: 1Ph+N/2Ph



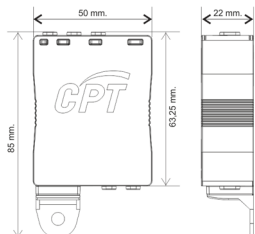
Surge-Trap® Type 2+3 - For LED Lighting

Dimensions

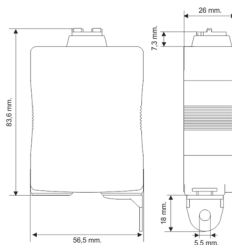
STL



STLB



STLH



Архангельск (8182)63-90-72
Астана (7172)727-132
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89
Иваново (4932)77-34-06

Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижегород (831)429-08-12
Новокузнецк (3843)20-46-81
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16

Пермь (342)205-81-47
Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13

Сургут (3462)77-98-35
Тверь (4822)63-31-35
Томск (3822)98-41-53
Тула (4872)74-02-29
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Ярославль (4852)69-52-93

Киргизия (996)312-96-26-47

Россия (495)268-04-70

Казахстан (772)734-952-31

<https://mersen.nt-rt.ru/> || mnh@nt-rt.ru