TRIDONIC

SPD 10kV PC1 CE SNC

Surge protection



Product description

- _ Terminal L' is the fused output which would disconnect the LED driver from the mains line in the event of an over temperature or during an above maximum surge pulse
- _ Universal use for street, tunnel or object lighting
- _ Flexible installation
- _ Fixed via integrated elongated holes
- _ Compact dimensions
- _ Optical status indicator
- _ Stub or through-wiring connection
- _ Double or reinforced insulation
- _ 5 years guarantee (conditions at https://www.tridonic.com/en/int/services/manufacturerguarantee-conditions)

Housing properties

- _ Casing: plastic, grey _ Type of protection IP20

Typical applications

_ Perfect for in-built applications for protection class I luminaires

Website http://www.tridonic.com/28003023





Data sheet 07/25-LC788-2 Subject to change without notice.

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Ordering data

Туре	Article number	Packaging, carton	Packaging, pallet	Weight per pc.
SPD 10kV PC1 CE SNC	28003023	10 pc(s).	5,040 pc(s).	0.038 kg
Technical data				
Rated supply voltage				100 – 277 V
AC voltage range				100 - 320 V
Mains frequency				50 / 60 Hz
Mode of protection				L-N, L-PE, N-PE
AC system				TN-C-S, TN- S, TT
Type 2 surge protection (Г2)			Yes
Type 3 surge protection (ГЗ)			Yes
Rated load current				16 A
Nominal discharge current	t (8/20 μs), L-N, L-PE,	N-PE		5 kA, 5 kA, 10 kA
— Max. discharge current (8/20 μs), L-N, L-PE, N-PE				
Combination wave (1.2/50	μs), L-N, L-PE, N-PE			10 kV (5 kA), 10 kA, 20 kA
Short-circuit current rating	g			3 kA
Voltage protection level (at nom. discharge I (8/20 µs) + at 6 kV (1.2/50 µs)), L-N, L-PE, N-PE				
– Residual voltage (at nominal discharge Ι (8/20 μs) + at comb. wave (1.2/50 μs)), L-N, L-PE, N-PE				
TOV behavior (5 s / withst	tand mode)			400 V AC
TOV behavior (120 min. / s	safe failure mode)			528 V AC
Response time L-N, N-PE				≤ 25 ns, ≤ 100 ns
Max. backup fuse ^①				16 A
Ambient temperature ta				
Storage temperature ts				
Type of protection				
Altitude (above sea level)				
Dimensions L x W x H				

Approval marks



LED drivers

Accessories

Standards

EN 61643-11

1 MCB type B and C.

1. Standards

EN 61643-11

1.1 Glow-wire test

according to EN 61643-11 with increased temperature of 850 °C passed.

2. Guarantee conditions

5-year guarantee of the product. Surge capability: 10 x 10 kV Combination Wave pulses (1.2 / 50 μs).

3. Installation / wiring

3.1 Circuit diagrams



Through wiring with connection of L':



Branch wiring:



Single-branch wiring with connection of L':



3.2 Wiring type and cross section

Screw thread	M3
Tightening torque	0.6 Nm
2 conductors with same cross section, stranded	0.2 – 1.5 mm ²
Conductor cross section, flexible	0.2 – 2.5 mm²
2 conductors with same cross section, solid	0.2 – 1.5 mm ²
Conductor cross section, solid	0.2 - 4.0 mm ²

4. Functions

4.1 Status indicator

Indicator window turn red and AC network cut-off. If the red indicator lights up, the device is damaged and must be replaced by appropriately qualified expert personnel.



4.2 Fault message

Optical surge protection fault message.

5. Miscellaneous

5.1 Insulation testing

It is not necessary to disconnect the arrester during insulating strength measurement in electrical systems with 250 V because the measurements remain unaffected by the device.

5.2 Conditions of use and storage

Humidity:	5 % up to max. 95 %,
	not condensed

Storage temperature: -40 °C up to max. +80 °C

5.3 Additional information

Additional technical information at <u>www.tridonic.com</u> \rightarrow Technical Data

Guarantee conditions at <u>www.tridonic.com</u> \rightarrow Services

Lifetime declarations are informative and represent no warranty claim. No warranty if device was opened.