

## Type 2 surge arrester - BLT-T2-1S-320-UT - 2906101

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Type 2 surge arrester for universal mounting in lights, cable connection boxes, installation boxes, sill-type trunking, underfloor installations or direct installation in the end device. Specifically for insulation class I with optical fault indication. Installation in branch or through wiring. Version: 230 V AC

### Why buy this product

- L' signalizes the failure of the surge protective device due to disconnection of the power supply to the lights.
- Universal use for street, tunnel or object lighting
- Flexible installation
- Fixed via integrated elongated holes
- compact design
- Optical status indicator via LED
- Stub or through-wiring connection



### Key Commercial Data

Packing unit	10 pc
Minimum order quantity	10 pc
GTIN	 4 055626 058085
Weight per Piece (excluding packing)	44.84 g
Custom tariff number	85363030
Country of origin	China

### Technical data

#### Dimensions

Height	56 mm
Width	36.5 mm
Depth	34 mm

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C

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### Ambient conditions

Altitude	≤ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % ... 95 %

### General

Standards/specifications	IEC 61643-11 2011
	EN 61643-11 2012
IEC test classification	II / III
	T2 / T3
	T3
EN type	T2 / T3
	T3
IEC power supply system	TN-S
	TT
Number of ports	One
SPD design	Combination type
Mode of protection	L-N
	L-PE
	N-PE
Mounting type	4 mm screw
Color	traffic grey A RAL 7042
Housing material	PA 6.6
Pollution degree	2
Inflammability class according to UL 94	V-0
Protection class	I
Type	Installation module
Surge protection fault message	optical

### Protective circuit

Nominal voltage $U_N$	100 V AC ... 277 V AC (TN-S)
	100 V AC ... 277 V AC (TT)
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$ (L-N)	320 V AC
Maximum continuous operating voltage $U_C$ (L-PE)	305 V AC
Maximum continuous voltage $U_C$ (N-PE)	305 V AC
Rated load current $I_L$	16 A
Residual current $I_{PE}$	≤ 5 $\mu$ A
Nominal discharge current $I_n$ (8/20) $\mu$ s (L-N)	5 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (L-PE)	5 kA
Nominal discharge current $I_n$ (8/20) $\mu$ s (N-PE)	10 kA
Maximum discharge current $I_{max}$ (8/20) $\mu$ s (L-N)	10 kA
Maximum discharge current $I_{max}$ (8/20) $\mu$ s (L-PE)	10 kA

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### Protective circuit

Maximum discharge current $I_{max}$ (8/20) $\mu$ s (N-PE)	20 kA
Total discharge current $I_{Total}$ (8/20) $\mu$ s	20 kA
Follow current interrupt rating $I_{fi}$ (N-PE)	100 A (305 V AC)
Short-circuit current rating $I_{SCCR}$	3 kA
Voltage protection level $U_p$ (L-N)	$\leq 1.3$ kV
Voltage protection level $U_p$ (L-PE)	$\leq 1.5$ kV
Voltage protection level $U_p$ (N-PE)	$\leq 1.4$ kV
Residual voltage $U_{res}$ (L-N)	$\leq 1.3$ kV (at $I_n$ )
	$\leq 1.3$ kV (at $U_{OC}$ )
TOV behavior at $U_T$ (L-N)	400 V AC (5 s / withstand mode)
	528 V AC (120 min / safe failure mode)
TOV behavior at $U_T$ (L-PE)	528 V AC (5 s / withstand mode)
	528 V AC (120 min / safe failure mode)
	1505 V AC (200 ms / withstand mode)
TOV behavior at $U_T$ (N-PE)	1200 V AC
Response time $t_A$ (L-N)	$\leq 25$ ns
Response time $t_A$ (N-PE)	$\leq 100$ ns
Max. backup fuse with branch wiring	16 A AC (MCB B/C)
Max. backup fuse with V-type through wiring	16 A AC (MCB B/C)

### Connection data

Connection method	Screw terminal blocks
Conductor cross section flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm <sup>2</sup>
Conductor cross section solid max.	4 mm <sup>2</sup>
2 conductors with same cross section, stranded min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, stranded max.	1.5 mm <sup>2</sup>
2 conductors with same cross section, solid min.	0.2 mm <sup>2</sup>
2 conductors with same cross section, solid max.	1.5 mm <sup>2</sup>
Screw thread	M3
Tightening torque	0.6 Nm

## Classifications

### eCl@ss

eCl@ss 5.1	27130801
eCl@ss 6.0	27130805

### ETIM

ETIM 5.0	EC000941
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## Approvals

Approvals

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Approvals

KEMA-KEUR

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Ex Approvals

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Approvals submitted

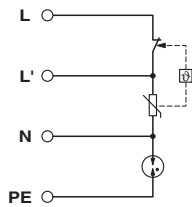
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## Approval details



## Drawings

Circuit diagram



Dimensional drawing

