

# BLT-T2-320-UT - Type 2 surge arrester



2906100

<https://www.phoenixcontact.com/us/products/2906100>

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Type 2 surge arrester for universal mounting in lights and cable connection boxes. Specifically for insulation class II with optical fault indication. Installation in branch or through wiring. Version: 230 V AC

## Your advantages

- Optimal additional protection of the building installation for longer service life and increased availability of the end devices
- Optimal protection of the power supply for longer service life and increased availability of the LED lighting
- Excellent level of information provided, thanks to shutdown function for the load circuit in the event of an error
- Simple condition monitoring without voltage on the device with a mechanical/visual status indicator
- Flexible installation, thanks to mounting via integrated elongated holes
- Specifically for insulation class II with double or reinforced insulation
- Flexible installation
- Fixed via integrated elongated holes
- Compact design
- Optical status indicator
- Stub or through-wiring connection
- Double or reinforced insulation
- Universal use for street, tunnel or object lighting
- L' signalizes the failure of the surge protective device due to disconnection of the power supply to the lights

## Commercial data

Item number	2906100
Packing unit	10 pc
Minimum order quantity	10 pc
Product key	CL1361
GTIN	4055626058078
Weight per piece (including packing)	39 g
Weight per piece (excluding packing)	39 g
Country of origin	CN

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## Technical data

### Product properties

Product type	Surge arrester
IEC test classification	II / III
	T2 / T3
EN type	T2 / T3
IEC power supply system	TT
	TN-C
	IT
Type	Installation module
Surge protection fault message	optical
Number of ports	One

### Insulation characteristics

Protection class	II
Overvoltage category	III
Pollution degree	2

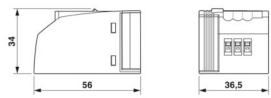
### Electrical properties

Nominal frequency $f_N$	50 Hz (60 Hz)
Nominal voltage $U_N$	100 V AC ... 277 V AC
Dielectric strength	< 6 kV

### Connection data

Connection method	Screw terminal blocks
Screw thread	M3
Tightening torque	0.6 Nm
Conductor cross-section flexible	0.2 mm <sup>2</sup> ... 2.5 mm <sup>2</sup>
Conductor cross-section rigid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>

### Dimensions

Dimensional drawing	
Width	36.5 mm
Height	56 mm
Depth	34 mm

### Material specifications

Color	light gray (RAL 7035)
Flammability rating according to UL 94	V-0
CTI value of material	600

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Insulating material	PA 6.6
Material group	I
Housing material	PA 6.6

## Protective circuit

Mode of protection	L-N
Direction of action	1L-N
Nominal voltage $U_N$	100 V AC ... 277 V AC
Nominal frequency $f_N$	50 Hz (60 Hz)
Maximum continuous operating voltage $U_C$	320 V AC
Rated load current $I_L$	16 A
Nominal discharge current $I_n$ (8/20) $\mu$ s	5 kA
Maximum discharge current $I_{max}$ (8/20) $\mu$ s	10 kA
Combination wave $U_{OC}$	10 kV
Short-circuit current rating $I_{SCCR}$	3 kA
Voltage protection level $U_p$	$\leq 1.3$ kV
Residual voltage $U_{res}$	$\leq 1.3$ kV (at $I_n$ ) $\leq 1.3$ kV (at $U_{OC}$ )
TOV behavior at $U_T$	400 V AC (5 s / withstand mode) 528 V AC (120 min / safe failure mode)
Response time $t_A$	$\leq 25$ ns
Max. backup fuse with V-type through wiring	16 A (MCB B/C)
Max. backup fuse with branch wiring	16 A (MCB B/C)

## Environmental and real-life conditions

### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 80 °C
Ambient temperature (storage/transport)	-40 °C ... 80 °C
Altitude	$\leq 2000$ m (amsl)
Permissible humidity (operation)	5 % ... 95 %

## Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

## Mounting

Mounting type	4 mm screw
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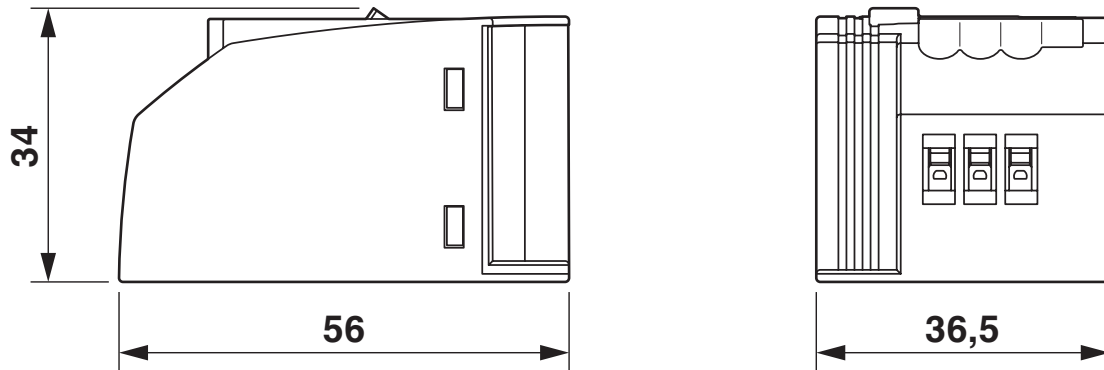
# BLT-T2-320-UT - Type 2 surge arrester

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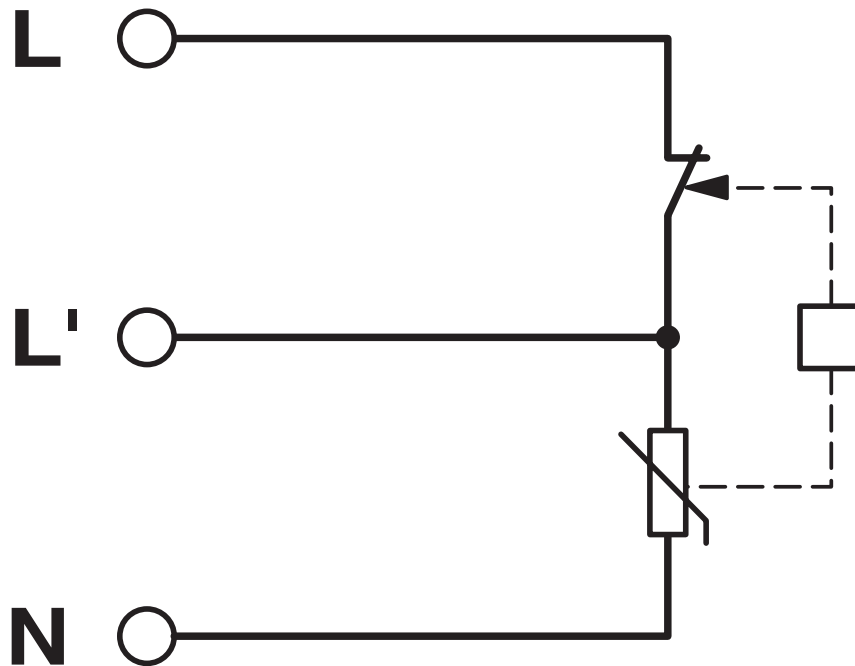
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## Drawings

Dimensional drawing



Circuit diagram



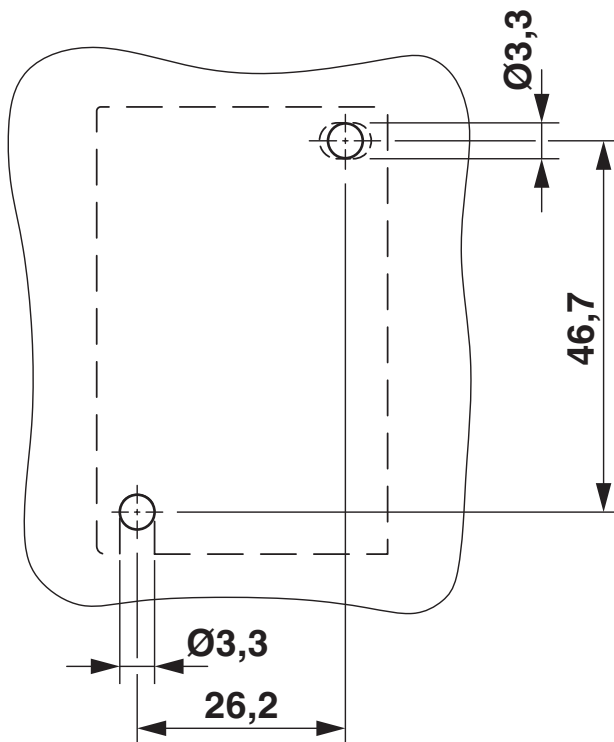
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Drilling plan/solder pad geometry



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## Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/2906100>



**IECEE CB Scheme**

Approval ID: NL-36565

**CCA**

Approval ID: NTR-NL 7418



**KEMA-KEUR**

Approval ID: 2179938.01

**UAE-RoHS**

Approval ID: 23-10-88350

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## Classifications

### ECLASS

ECLASS-13.0	27171202
ECLASS-15.0	27171202

### ETIM

ETIM 10.0	EC000941
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### UNSPSC

UNSPSC 21.0	39121600
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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