

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

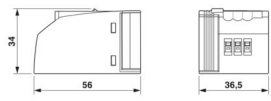
Electrical properties

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 ² ... 2.5 mm ²
Conductor cross-section rigid	0.2 mm ² ... 4 mm ²

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) μ s	5 kA
Maximum discharge current I_{max} (8/20) μ s	10 kA
Combination wave U_{OC}	10 kV
Short-circuit current rating I_{SCCR}	3 kA
Voltage protection level U_p	≤ 1.3 kV
Residual voltage U_{res}	≤ 1.3 kV (at I_n) ≤ 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	≤ 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	≤ 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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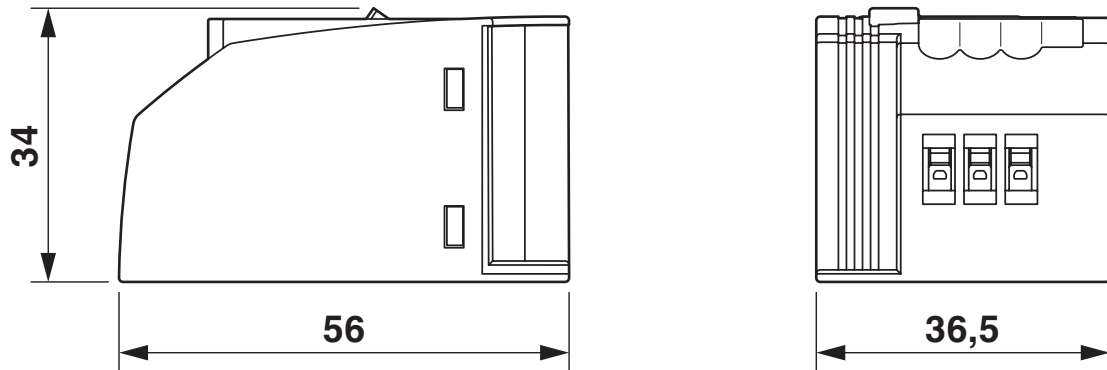
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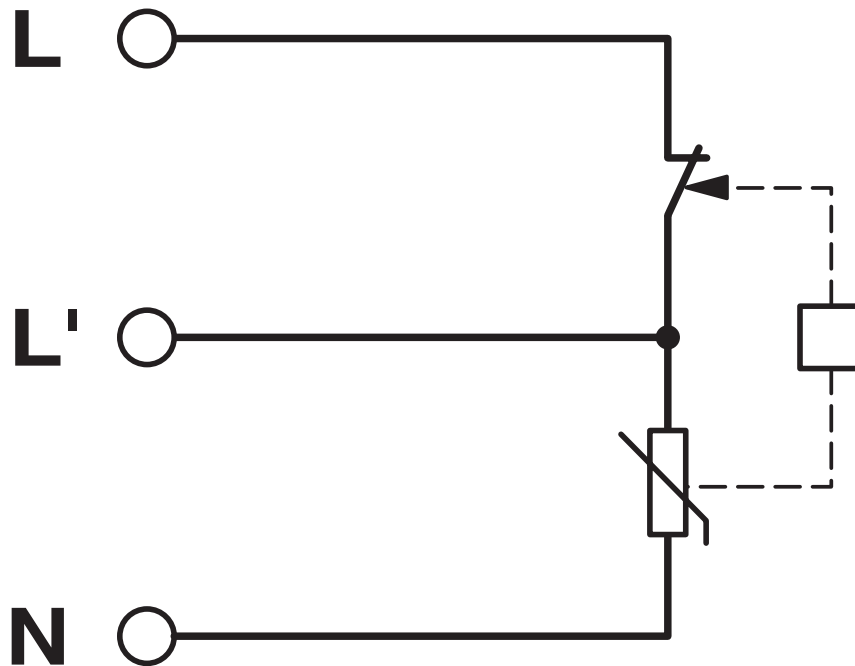
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Drawings

Dimensional drawing



Circuit diagram



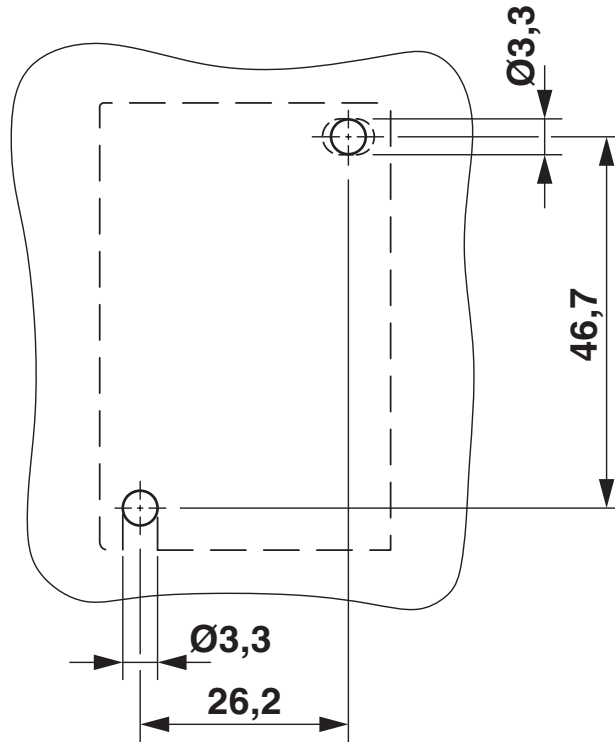
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Drilling plan/solder pad geometry



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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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