

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



2906100

<https://www.phoenixcontact.com/au/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	1 pc
Sales key	CL1361
Product key	CL1361
Catalog page	Page 77 (C-4-2019)
GTIN	4055626058078
Weight per piece (including packing)	39 g
Weight per piece (excluding packing)	39 g
Customs tariff number	85363030
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

Insulation characteristics

Protection class	II
Overvoltage category	III
Pollution degree	2

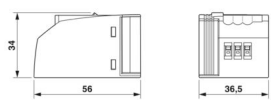
Electrical properties

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
Insulating material	PA 6.6

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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 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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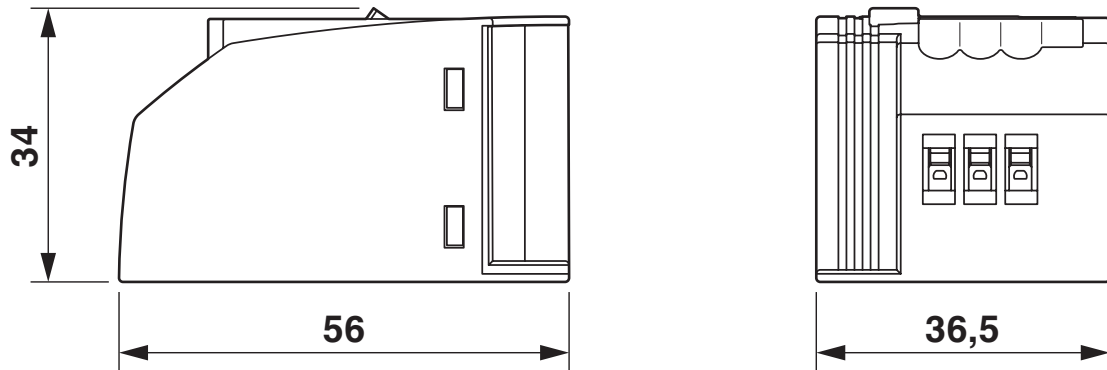
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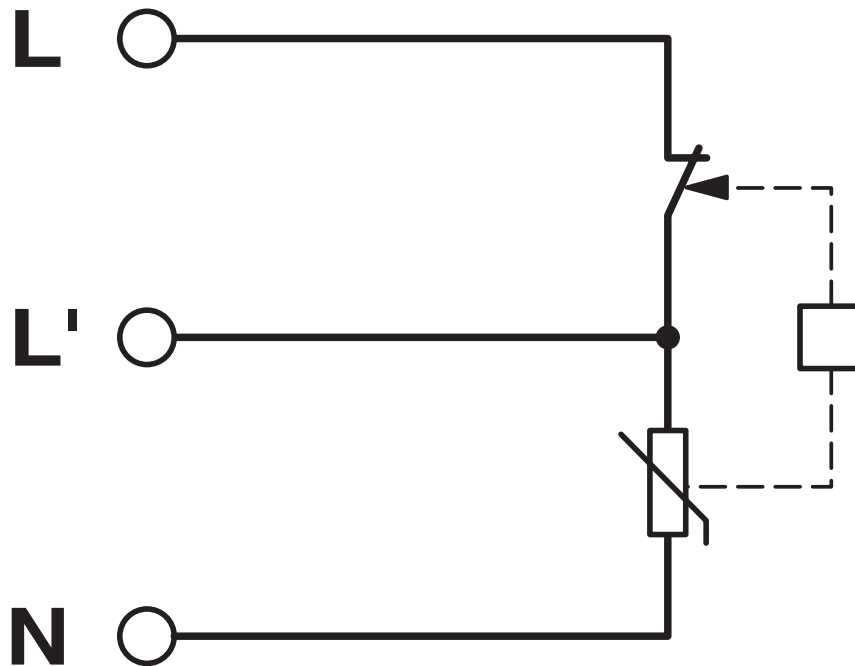
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Drawings

Dimensional drawing



Circuit diagram



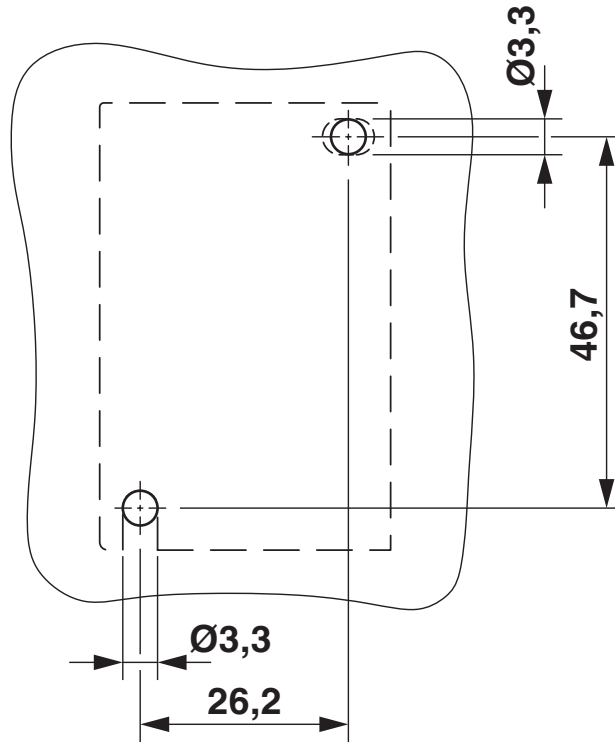
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Drilling plan/solder pad geometry



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Approvals

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



IECEE CB Scheme

Approval ID: NL-36565



EAC

Approval ID: RU C-DE.*09.B.00169

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

ETIM

ETIM 9.0

EC000941

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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