

BLT-T2-1S-305-UT - Type 2 surge arrester



1078433

<https://www.phoenixcontact.com/us/products/1078433>

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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

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
- Stub or through-wiring connection
- Flexible installation
- Fixed via integrated elongated holes
- Compact design
- Optical, mechanical status indicator
- Compact design
- 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	1078433
Packing unit	10 pc
Minimum order quantity	10 pc
Product key	CL1361
GTIN	4055626793344
Weight per piece (including packing)	42 g
Weight per piece (excluding packing)	40 g
Country of origin	CN

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Technical data

Product properties

Product type	Surge arrester
IEC test classification	II / III
EN type	T2 / T3
IEC power supply system	TN-S TT
Distance between live and grounded parts	3 mm
Installation location of the disconnect device	Internal
Accessibility	Accessible
End-of-life mode	OCM
Surge protection fault message	optical

Insulation characteristics

Protection class	I
Overvoltage category	III
Pollution degree	2

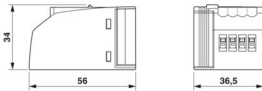
Electrical properties

Nominal frequency f_N	50 Hz (60 Hz)
Nominal voltage U_N	100 V AC ... 230 V AC (TN-S) 100 V AC ... 230 V AC (TT)
Dielectric strength	< 2.2 kV (1 min)

Connection data

Connection method	Screw terminal blocks
Screw thread	M3
Tightening torque	0.6 Nm
Stripping length	8 mm
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)
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Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6
Material group	I
Housing material	PA 6.6

Protective circuit

Mode of protection	L-N
	L-PE
	N-PE
Nominal voltage U_N	100 V AC ... 230 V AC (TN-S)
	100 V AC ... 230 V AC (TT)
Nominal frequency f_N	50 Hz (60 Hz)
Maximum continuous operating voltage U_C (L-N)	305 V AC
Maximum continuous operating voltage U_C (L-PE)	265 V AC
Maximum continuous operating voltage U_C (N-PE)	265 V AC
Rated load current I_L	16 A
Protective conductor current I_{PE}	$\leq 5 \mu A$
Nominal discharge current I_n (8/20) μs (L-N)	5 kA
Nominal discharge current I_n (8/20) μs (L-PE)	5 kA
Nominal discharge current I_n (8/20) μs (N-PE)	10 kA
Maximum discharge current I_{max} (8/20) μs (L-N)	10 kA
Maximum discharge current I_{max} (8/20) μs (L-PE)	10 kA
Maximum discharge current I_{max} (8/20) μs (N-PE)	20 kA
Combination wave U_{OC} (L-N)	10 kV
Combination wave U_{OC} (L-PE)	10 kV
Combination wave U_{OC} (N-PE)	20 kV
Total discharge current I_{Total} (8/20) μs	20 kA
Follow current interrupt rating I_{fi} (N-PE)	100 A (265 V AC)
Short-circuit current rating I_{SCCR}	10 kA (6 A gG backup fuse)
	3 kA (16 A MCB B/C backup fuse)
Voltage protection level U_p (L-N)	≤ 1.3 kV
Voltage protection level U_p (L-PE)	≤ 1.5 kV
Voltage protection level U_p (N-PE)	≤ 1.5 kV
TOV behavior at U_T (L-N)	336 V AC (5 s / withstand mode)
	440 V AC (120 min / safe failure mode)
TOV behavior at U_T (L-PE)	440 V AC (5 s / withstand mode)
	440 V AC (120 min / safe failure mode)
TOV behavior at U_T (N-PE)	1200 V AC (200 ms / safe failure mode)
Response time t_A (L-N)	≤ 25 ns
Response time t_A (L-PE)	≤ 100 ns
Response time t_A (N-PE)	≤ 100 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)

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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 %
Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (5 ... 500 Hz / 2.5 h / X, Y, Z)

Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011

EN 61643-11

Standards/specifications	EN 61643-11
Note	2012

Mounting

Mounting type	4 mm screw
Mounting position	Internal

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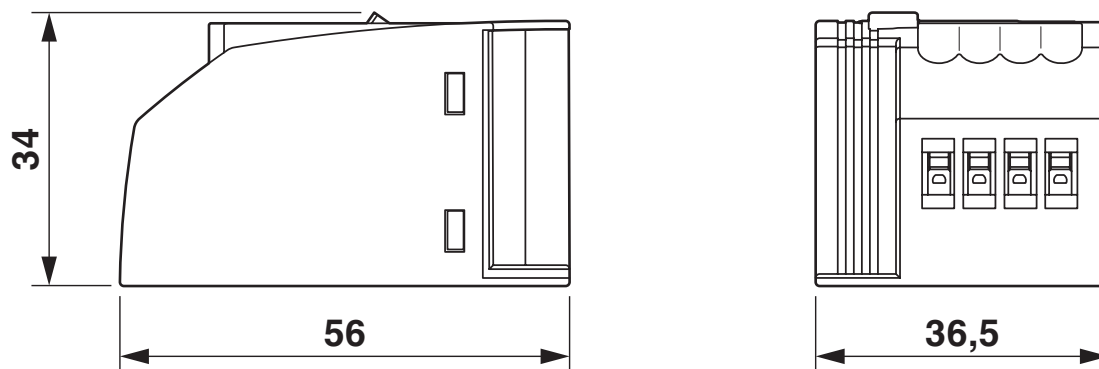
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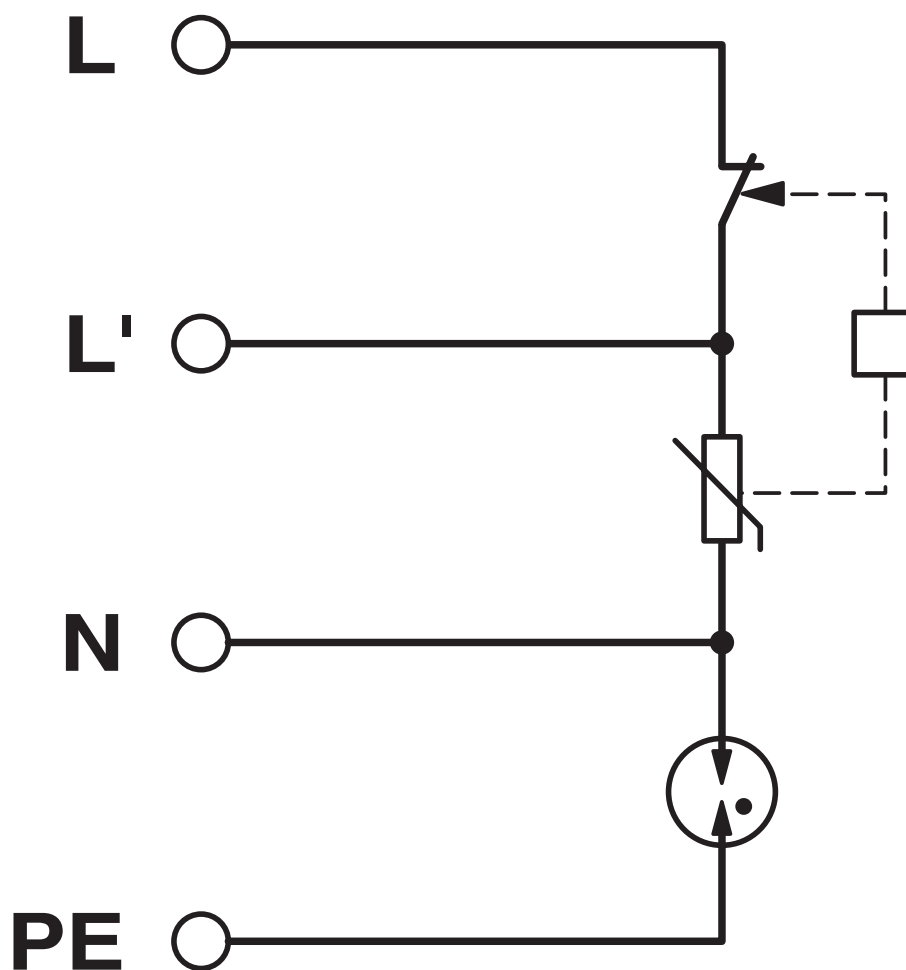


Drawings

Dimensional drawing



Circuit diagram



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Approvals

📄 To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/1078433>



EAC

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

UAE-RoHS

Approval ID: 23-10-88350

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Classifications

ECLASS

ECLASS-13.0	27171202
ECLASS-15.0	27171202

ETIM

ETIM 9.0	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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