

# Type 2 surge arrester - BLT-T2-1S-305-UT - 1078433


Please be informed that the data shown in this PDF Document is generated from our Online Catalog. Please find the complete data in the user's documentation. Our General Terms of Use for Downloads are valid (<http://phoenixcontact.com/download>)



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



## Key Commercial Data

Packing unit	10 pc
Minimum order quantity	10 pc
GTIN	 4 055626 793344
GTIN	4055626793344
Weight per Piece (excluding packing)	40.000 g
Custom tariff number	85354000
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
Altitude	≤ 2000 m (amsl (above mean sea level))
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)

### General

IEC test classification	II / III
-------------------------	----------

# Type 2 surge arrester - BLT-T2-1S-305-UT - 1078433

## Technical data

### General

EN type	T2 / T3
IEC power supply system	TN-S
	TT
SPD failure behavior	OCM
Accessibility	Accessible
Installation location of the disconnect device	Internal
Mode of protection	L-N
	L-PE
	N-PE
Mounting type	4 mm screw
Color	light grey RAL 7035
Housing material	PA 6.6
Degree of pollution	2
Distance between live and grounded parts	3 mm
Flammability rating according to UL 94	V-0
Protection class	I

### Protective circuit

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 voltage $U_C$ (N-PE)	265 V AC
Rated load current $I_L$	16 A
Residual current $I_{PE}$	$\leq 5 \mu A$
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
Maximum discharge current $I_{max}$ (8/20) $\mu s$ (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) $\mu s$	20 kA
Follow current interrupt rating $I_{fi}$ (N-PE)	100 A ()
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)	$\leq 1.3$ kV

# Type 2 surge arrester - BLT-T2-1S-305-UT - 1078433

## Technical data

### Protective circuit

Voltage protection level $U_p$ (L-PE)	$\leq 1.5$ kV
Voltage protection level $U_p$ (N-PE)	$\leq 1.5$ 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)	$\leq 25$ ns
Response time $t_A$ (L-PE)	$\leq 100$ ns
Response time $t_A$ (N-PE)	$\leq 100$ 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)

### Connection data

Connection method	Screw terminal blocks
Screw thread	M3
Tightening torque	0.6 Nm
Stripping length	8 mm
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>
Conductor cross section flexible	0.2 mm <sup>2</sup> ... 2.5 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>
Conductor cross section solid	0.2 mm <sup>2</sup> ... 4 mm <sup>2</sup>

### Standards and Regulations

Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

## Classifications

### eCl@ss

eCl@ss 8.0	27130805
eCl@ss 9.0	27130805

### ETIM

ETIM 5.0	EC000941
----------	----------

## Approvals

### Approvals

## Type 2 surge arrester - BLT-T2-1S-305-UT - 1078433

### Approvals

Approvals

EAC

---

Ex Approvals

---

### Approval details

EAC		RU C- DE.A*30.B01561
-----	---	-------------------------

---