

2859547

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Plug-in surge arrester for 3-phase power supply networks with N and PE in a common conductor (4-conductor system: L1, L2, L3, PEN), with remote indication contact.

Commercial data

Item number	2859547
Packing unit	1 pc
Note	Made to order (non-returnable)
Sales key	CL01
Product key	CL1311
Catalog page	Page 40 (C-6-2013)
GTIN	4017918960827
Weight per piece (including packing)	321 g
Weight per piece (excluding packing)	320.5 g
Customs tariff number	85363030
Country of origin	DE



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Technical data

Product properties

Product type	Surge arrester
IEC test classification	Ш
	T2
EN type	T2
IEC power supply system	TN-C
Туре	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	Optical, remote indicator contact
Insulation characteristics	
Overvoltage category	
Pollution degree	2
ectrical properties Nominal frequency f _N	50 Hz (60 Hz)
Nominal frequency f _N	50 Hz (60 Hz)
Indicator/remote signaling	
Connection name	Remote fault indicator contact
Switching function	Changeover contact
Operating voltage	5 V AC 250 V AC
	125 V DC (200 mA DC)
Operating current	5 mA AC 1 A AC
	1 A DC (30 V DC)
onnection data	
Connection method	Screw connection

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross section flexible	2.5 mm ² 16 mm ²
Conductor cross section rigid	2.5 mm ² 25 mm ²
Conductor cross section AWG	12 4

Remote fault indicator contact

Connection method	Pluggable screw connection
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section flexible	0.14 mm ² 1.5 mm ²
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16



2859547

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Dimensions

Dimensional drawing	
Width	37.25 mm
Height	98 mm
Depth	71.5 mm
Horizontal pitch	2 Div.

Material specifications

Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PBT-FR
Material group	I
Housing material	PBT-FR

Protective circuit

Mode of protection	L-PEN
Direction of action	3L-N/PE
Nominal voltage U _N	240/415 V AC (TN-C)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous operating voltage U_{C} (L-PEN)	350 V AC
Rated load current IL	40 A (Biconnect M4 fork-type cable lug 6 mm ²)
	63 A (TWIN ferrule 2 x 10 mm ²)
Nominal discharge current I _n (8/20) µs (L-PEN)	20 kA
Maximum discharge current I _{max} (8/20) μs (L-PEN)	40 kA
Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U _p (L-PEN)	≤ 1.5 kV
Residual voltage U _{res} (L-PEN)	≤ 1.5 kV (at I _n)
	≤ 1.3 kV (at 10 kA)
	≤ 1.2 kV (at 5 kA)
	≤ 1.1 kV (at 4 kA)
	≤ 1 kV (at 2 kA)
TOV behavior at U _T (L-PEN)	415 V AC (5 s / withstand mode)
	440 V AC (120 min / safe failure mode)
Response time t _A (L-PEN)	≤ 25 ns
Max. backup fuse with V-type through wiring	40 A (gG / Biconnect M4 fork-type cable lug, 6 mm ²)
	63 A (gG / TWIN ferrule 2x 10mm ²)
Max. backup fuse with branch wiring	315 A (gG)



2859547

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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)	30g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 500 Hz / 2.5 h / X, Y, Z)

Approvals

UL specifications

700 V AC
050.1/4.0
350 V AC
20 kA
20 kA
L-L
L-N
277/480 V AC
Wye
50/60 Hz
3280 V
2000 V
4CA
125 V AC
1 A AC
40 lb _f -in 50 lb _f -in.
14 2 (solid)
14 4 (flexible)

Standards and regulations

Air clearances and creepage distances	
Standards/regulations	DIN VDE 0110-1 / IEC 60664-1 / IEC 61643-1
Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

Mounting





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Mounting type

DIN rail: 35 mm



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Drawings



Dimensional drawing



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Environmental product compliance

Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacture declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
U REACH SVHC	
REACH candidate substance (CAS No.)	No substance above 0.1 wt%



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Accessories

ZBN 18,LGS:ERDE - Marker for terminal blocks

2749589 https://www.phoenixcontact.com/us/products/2749589



Marker for terminal blocks, Strip, white, labeled, horizontal: Grounding symbol, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

ZBN 18,LGS:L1-N,ERDE - Marker for terminal blocks

2749576

https://www.phoenixcontact.com/us/products/2749576



Marker for terminal blocks, Strip, white, labeled, horizontal: L1, L2, L3, N, GND, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

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ZBN 18:UNBEDRUCKT - Zack marker strip

2809128

https://www.phoenixcontact.com/us/products/2809128



Zack marker strip, Strip, white, unlabeled, can be labeled with: CMS-P1-PLOTTER, PLOTMARK, mounting type: snapped, for terminal block width: 18 mm, lettering field size: 18 x 5 mm, Number of individual labels: 5

B-STIFT - Marker pen

1051993 https://www.phoenixcontact.com/us/products/1051993



Marker pen, for manual labeling of unprinted Zack strips, smear-proof and waterproof, line thickness 0.5 $\rm mm$

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DK-BIC-35 - Feed-through terminal block

2749880

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Feed-through terminal block for VAL and FLT applications

VAL-CP-350-ST - Type 2 surge protection plug

2859602 https://www.phoenixcontact.com/us/products/2859602



Replacement plug for VAL-CP surge protective device with high-capacity varistor with a low leakage current.

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