

1466642

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Plug-in surge arrester, in accordance with Type 2/Class II, for 3-phase power supply networks with combined PE and N installed in one conductor (4-conductor system: L1, L2, L3, PEN), with remote indication contact.

Your advantages

- · Easy and safe installation with forward-thinking handling and safety features
- · Reliable system protection with maximum performance and endurance
- · Can be used in a wide range of applications due to the optimized design and broad portfolio
- · Simple planning due to comprehensive digital data and selectors

Commercial data

Item number	1466642
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL1385
Product key	CL1385
GTIN	4063151860158
Weight per piece (including packing)	540.5 g
Weight per piece (excluding packing)	510.3 g
Customs tariff number	85363010
Country of origin	DE



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Technical data

DC operating current

Insulation type

Notes	
General	
Note	Only for use in IT systems between L-PE if the exposed conductive parts of the equipment of the low-voltage electrical installation are connected to the grounding system of the transformer station (common grounding of the HV transformer station and the exposed conductive part of the LV load system). RE = RA according to VDE 0100-442:2013, Figure 44.A1 and Table 44.A1
	Depending on the installation height, additional minimum lateral distances to grounded, conductive surfaces may need to be observed. See the table in the download area under the item Packing slip in the installation notes.
Product properties	
Product type	Surge arrester
Product family	VAL-SPP
IEC test classification	II
	T2
EN type	T2
IEC power supply system	IT
Туре	DIN rail module, two-section, divisible
Number of positions	2
Surge protection fault message	Optical, remote indicator contact
Insulation characteristics	
Overvoltage category	III
Pollution degree	2
Electrical properties	
Nominal frequency f _N	50 Hz (60 Hz)
Indicator/remote signaling	
Connection name	Remote fault indicator contact
Switching function	Changeover contact
Max. required back-up fuse	1 A (gG)
AC operating voltage	5 V AC 250 V AC (≤2000 m (amsl))
	5 V AC 150 V AC (≤ ⊕ ₩ m (amsl))
AC operating current	5 mA AC 1 A AC
DC operating voltage	30 V DC (≤ ⊕₩₩ m (amsl))
DC operating current	1 A DC
DC operating voltage	125 V DC (≤ ⊕ \\

200 mA DC

The product has double/reinforced insulation between the main



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Horizontal pitch

	and auxiliary circuit.
nnection data	
Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm 3.5 Nm
Stripping length	18 mm
Conductor cross section flexible	1.5 mm ² 35 mm ² (without ferrule)
	2x 1.5 mm ² 16 mm ² (2 conductors with the same cross- section)
Conductor cross section rigid	1.5 mm² 50 mm²
	2x 1.5 mm ² 16 mm ² (2 conductors with the same cross- section)
Conductor cross section AWG	15 2
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	1.5 mm² 16 mm²
Conductor cross section, flexible, with ferrule, with plastic sleeve	1.5 mm² 35 mm²
	2x 1.5 mm ² 10 mm ² (2 conductors with the same cross-section)
Conductor cross section flexible, with ferrule without plastic	1.5 mm² 25 mm²
sleeve	2x 1.5 mm ² 16 mm ² (2 conductors with the same cross-section)
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm² 25 mm²
emote fault indicator contact	
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section flexible	0.25 mm² 1.5 mm²
Conductor cross section rigid	0.25 mm² 1.5 mm²
Conductor cross section AWG	24 16
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 0.75 mm ²
nensions	
Dimensional drawing	
	109,1 102,4 71,2
Width	71.2 mm
Height	109.1 mm
Depth	71.5 mm (incl. DIN rail 7.5 mm)
11. 1. (1.51	4.00

4 Div.



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Material specifications

Color	gray (RAL 7042)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6-FR 20 % GF
	PBT
Material group	I
Housing material	PA 6.6-FR 20 % GF
	PBT

Protective circuit

Mode of protection	L-PE
<u> </u>	
Nominal voltage U _N	800 V AC ±10 % (IT)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage U _C	880 V AC
Residual current I _{PE}	≤ 5 µA
Standby power consumption $P_{\mathbb{C}}$	≤ 5 mVA
Nominal discharge current I _n (8/20) μs	20 kA
Maximum discharge current I _{max} (8/20) µs	40 kA
Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U _p	≤ 4.5 kV
Residual voltage U _{res}	≤ 3 kV (at I _n)
	≤ 2.7 kV (at 10 kA)
	≤ 2.5 kV (at 5 kA)
	≤ 2.3 kV (at 3 kA)
Impulse sparkover voltage at 6 kV (1.2/50) µs	≤ 4.5 kV
TOV behavior at U _T	1550 V AC (5 s / withstand mode)
	1550 V AC (120 min / withstand mode)
Response time t _A	≤ 100 ns
Max. backup fuse with V-type through wiring	80 A (gG)
Max. backup fuse with branch wiring	250 A (gG)

Environmental and real-life conditions

Ambient conditions

IP20C (Installed)
-40 °C 85 °C
-40 °C 85 °C
-5 °C 50 °C
≤ 5000 m (amsl)
5 % 95 %
25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
5g (10 500 Hz / 2.5 h / X, Y, Z)



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Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012 + A11:2018

Mounting

Mounting type	DIN rail: 35 mm

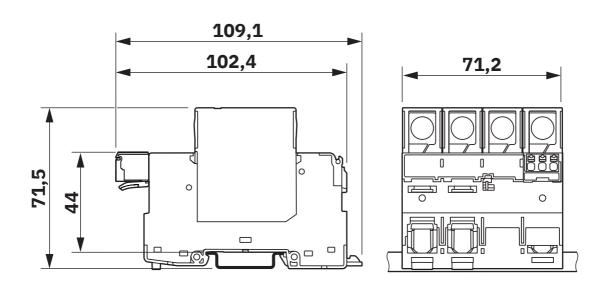


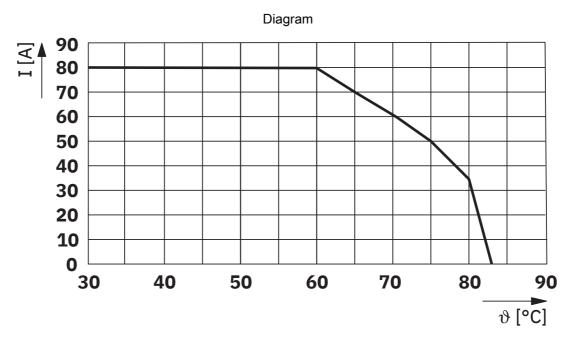
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Drawings

Dimensional drawing



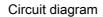


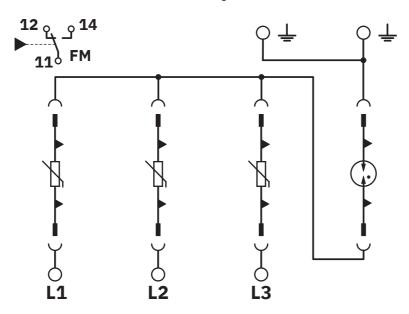
Max. permissible current in relation to the ambient temperature



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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1466642



IECEE CB Scheme

Approval ID: NL-109184

CCA

Approval ID: NTR NL-8052



KEMA-KEUR

Approval ID: 71-138153 REV.2



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Classifications

ECLASS

ECLASS-13.0	27171202

ETIM

ETIM 9.0	EC000941	



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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PHOENIX CONTACT Ltd Halesfield 13, Telford Shropshire, TF7 4PG 01952 681700 info@phoenixcontact.co.uk