

1466619

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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	1466619
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL1381
Product key	CL1381
GTIN	4063151861209
Weight per piece (including packing)	419.5 g
Weight per piece (excluding packing)	390.2 g
Customs tariff number	85363030
Country of origin	DE



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### Technical data

#### Notes

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
	For pollution degree 3, 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.  For pollution degree 2, no additional lateral distances are required.

### Р

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	3
Surge protection fault message	Optical, remote indicator contact
Insulation characteristics	
Overvoltage category	III
Pollution degree	3

### Electrical properties

Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
ndicator/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) at pollution degree 2)
	5 V AC 150 V AC (≤ ⊕ <b>↓↓↓</b> m (amsl))
AC operating current	5 mA AC 1 A AC
DC operating voltage	30 V DC (≤ ⊕ <b>+++</b> m (amsl))
DC operating current	1 A DC
DC operating voltage	125 V DC (≤ ⊕ <b>\\</b> m (amsl))



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DC operating current	200 mA DC
Insulation type	The product has double/reinforced insulation between the main and auxiliary circuit.

### Connection data

Connection method	Corous connection
Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm 3.5 Nm
Stripping length	18 mm
Conductor cross section flexible	1.5 mm² 35 mm² (without ferrule)
	2x 1.5 mm <sup>2</sup> 16 mm <sup>2</sup> (2 conductors with the same cross-section)
Conductor cross section rigid	1.5 mm² 50 mm²
	2x 1.5 mm <sup>2</sup> 16 mm <sup>2</sup> (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 <sup>2</sup> 10 mm <sup>2</sup> (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 <sup>2</sup> 16 mm <sup>2</sup> (2 conductors with the same cross-section)
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm² 25 mm²

### Remote 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 mm² 0.75 mm²

### **Dimensions**

Dimensional drawing	109,1 102,4 53,4 53,4 53,4 53,4 54,5 54,5 54,5 54
Width	53.4 mm
Height	109.1 mm
Depth	71.5 mm (incl. DIN rail 7.5 mm)



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Horizontal pitch	3 Div.
Material specifications	

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Color	gray (RAL 7042)
	light gray (RAL 7035)
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
Nominal voltage U <sub>N</sub>	400 V AC ±10 % (IT)
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous voltage $U_{\mathbb{C}}$	440 V AC
Rated load current I <sub>L</sub>	80 A (25 mm²)
Residual current I <sub>PE</sub>	≤ 1 mA
Standby power consumption $P_{\mathbb{C}}$	≤ 600 mVA
Nominal discharge current $I_n$ (8/20) $\mu$ s	20 kA
Maximum discharge current I <sub>max</sub> (8/20) μs	40 kA
Total discharge current I <sub>Total</sub> (8/20) μs	120 kA
Short-circuit current rating I <sub>SCCR</sub>	50 kA
Voltage protection level U <sub>p</sub>	≤ 2.1 kV
Residual voltage U <sub>res</sub>	≤ 2.1 kV (at I <sub>n</sub> )
	≤ 1.9 kV (at 10 kA)
	≤ 1.6 kV (at 5 kA)
	≤ 1.4 kV (at 3 kA)
TOV behavior at U <sub>T</sub>	581 V AC (5 s / withstand mode)
	762 V AC (120 min / safe failure mode)
Response time t <sub>A</sub>	≤ 25 ns
Max. backup fuse with V-type through wiring	80 A (gG)
Max. backup fuse with branch wiring	315 A (gG)

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20C (Installed)
Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Ambient temperature (assembly)	-5 °C 50 °C
Altitude	≤ 5000 m (amsl)
Permissible humidity (operation)	5 % 95 %



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	Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)			
	Vibration (operation)	5g (10 500 Hz / 2.5 h / X, Y, Z)			
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			

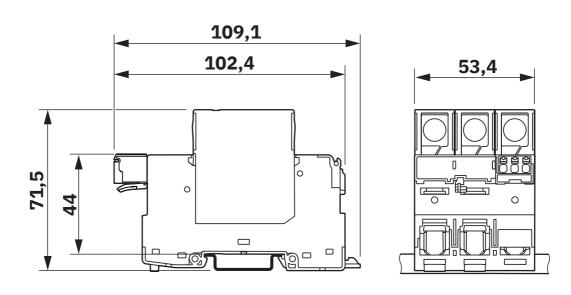


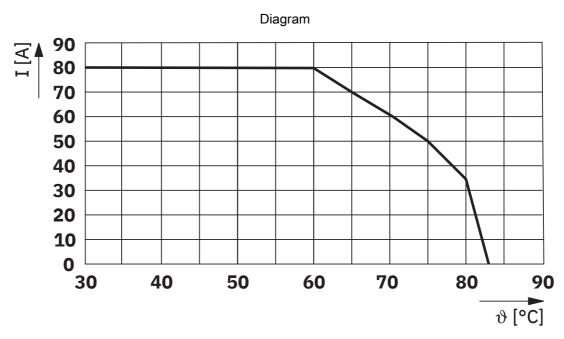
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## **Drawings**

### Dimensional drawing



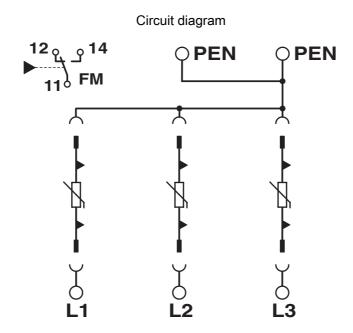


Max. permissible current in relation to the ambient temperature



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### **Approvals**

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**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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