

2920243

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Surge arrester for 4-conductor power supply systems (L1, L2, L3, PEN), consisting of a base element with remote indication contact and protective connectors, for mounting on NS 35.

### Your advantages

- · Quality proven millions of times over in the widest range of applications
- · Rapid installation with bridges, thanks to industry-standard overall width of 1 HP
- · Easy testing and insulation measurement, thanks to pluggable protection modules
- · Wide range of applications due to various nominal voltages
- High degree of modularity provides individual solutions for every application

### Commercial data

Item number	2920243
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL18
Product key	CL1321
GTIN	4046356157087
Weight per piece (including packing)	352.8 g
Weight per piece (excluding packing)	352.7 g
Customs tariff number	85363030
Country of origin	DE



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## Technical data

## Product properties

Product type	Surge arrester
Product family	VALVETRAB MS
IEC test classification	II .
	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	III
Pollution degree	2

### Electrical properties

Nominal frequency f <sub>N</sub>	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
	30 V DC
Operating current	5 mA AC 1.5 A AC
	1 A DC

### Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (1.5 mm <sup>2</sup> 16 mm <sup>2</sup> )
	4.5 Nm (25 mm² 35 mm²)
Stripping length	16 mm
Conductor cross section flexible	1.5 mm² 25 mm²
Conductor cross section rigid	1.5 mm² 35 mm²
Conductor cross section AWG	15 2
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm² 16 mm²

#### Remote fault indicator contact

Connection method	Plug-in/screw connection via COMBICON
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm



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Conductor cross section flexible	0.14 mm² 1.5 mm²
Conductor cross section rigid	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16

#### **Dimensions**

Dimensional drawing	99,7
Width	53.4 mm
Height	98.7 mm
Depth	65.7 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	3 Div.

### Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA 6.6/PBT
Material group	1
Housing material	PA 6.6
	PBT

### Protective circuit

Mode of protection	L-PEN
Direction of action	3L-PEN
Nominal voltage U <sub>N</sub>	240/415 V AC (TN-C)
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous operating voltage $\mathbf{U}_{\mathbb{C}}$	335 V AC
Rated load current I <sub>L</sub>	80 A
Protective conductor current I <sub>PE</sub>	≤ 1.35 mA
Standby power consumption P <sub>C</sub>	≤ 450 mVA
Nominal discharge current I <sub>n</sub> (8/20) μs	20 kA
Maximum discharge current I <sub>max</sub> (8/20) μs	40 kA
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Voltage protection level U <sub>p</sub>	≤ 1.5 kV
Residual voltage U <sub>res</sub>	≤ 1.5 kV (at I <sub>n</sub> )
	≤ 1.3 kV (at 10 kA)
	≤ 1.2 kV (at 5 kA)
	≤ 1.1 kV (at 3 kA)
TOV behavior at U <sub>T</sub>	415 V AC (5 s / withstand mode)
	440 V AC (120 min / safe failure mode)
Response time t <sub>A</sub>	≤ 25 ns



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Max. backup fuse with V-type through wiring	80 A (gG)
Max. backup fuse with branch wiring	125 A (gG)

### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20 (only when all terminal points are used)
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 (10 500 Hz / 2.5 h / X, Y, Z)

## Approvals

#### **UL** specifications

Maximum continuous operating voltage MCOV (L-L)	640 V AC
Maximum continuous operating voltage MCOV (L-G)	320 V AC
Nominal discharge current I <sub>n</sub> (L-L)	20 kA
Nominal discharge current $I_n$ (L-G)	20 kA
Mode of protection	L-L
	L-G
Nominal voltage	240 V AC
Power distribution system	Delta
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-L)	2900 V
Measured limiting voltage MLV (L-G)	2720 V
SPD Type	4CA

#### UL indicator/remote signaling

Operating voltage	125 V AC
AC operating current	1 A AC

#### UL connection data

Tightening torque	30 lb <sub>F</sub> in.
Conductor cross section AWG	14 2

## Standards and regulations

Standards/specifications	IEC 61643-11
Note	2011
Standards/specifications	EN 61643-11
Note	2012

### Mounting

Mounting type	DIN rail: 35 mm

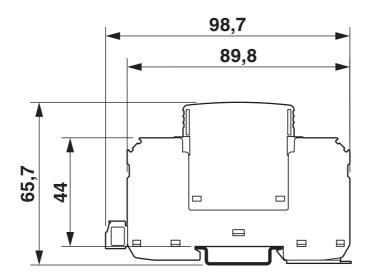


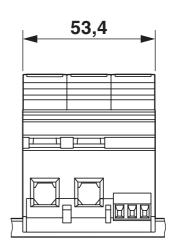
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## Drawings

### Dimensional drawing







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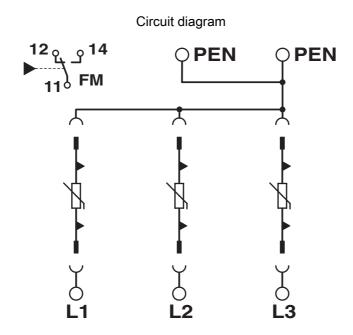
### Product drawing





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## **Approvals**

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cUL Recognized





**UL Recognized** 

Approval ID: FILE E 330181



**IECEE CB Scheme** 

Approval ID: AT 2905/M1



Approval ID: NTR-AT 1947-A



**KEMA-KEUR** 

Approval ID: 71-148002



CSA

Approval ID: 13631



ÖVE

Approval ID: 18583-001-17

**UAE-RoHS** 

Approval ID: 22-09-51250



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## Classifications

### **ECLASS**

	ECLASS-13.0	27171202
	ECLASS-15.0	27171202
ETI	M	
	ETIM 9.0	EC000941
UN	SPSC	

### U

UNSPSC 21.0 39121600



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## Environmental product compliance

#### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits
EU REACH SVHC	
EU REACH SVIIC	

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com