#### 2920447

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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	2920447
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL1321
Product key	CL1321
Catalog page	Page 41 (C-6-2015)
GTIN	4046356163569
Weight per piece (including packing)	388 g
Weight per piece (excluding packing)	386.1 g
Customs tariff number	85363030
Country of origin	DE

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### Technical data

#### Notes

General	
Note	For use in all low-voltage systems between L-PEN. Only for use in IT systems between L-PE if the bodies of the equipment in the low-voltage system are connected to the grounding system of the transformer station. (common grounding of the HV transformer station and the bodies of the LV consumer's installation. $R_E = R_A$ according to IEC 60364-4- 442/VDE 0100-442 Figure 44D/example a)

#### Product properties

Product type	Surge arrester
Product family	VALVETRAB MS
IEC test classification	П
	T2
EN type	T2
IEC power supply system	TN-C
	п
Туре	DIN rail module, two-section, divisible
Distance between live and grounded parts	5 mm
Number of positions	3
Surge protection fault message	Optical, remote indicator contact
Overvoltage category Pollution degree	2
ctrical properties	
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
dicator/remote signaling	
Connection name	Remote fault indicator contact
Connection name Switching function	Remote fault indicator contact       Changeover contact
Switching function	Changeover contact
Switching function	Changeover contact 5 V AC 250 V AC

#### 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



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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
Conductor cross section flexible	0.14 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section rigid	0.14 mm <sup>2</sup> 1.5 mm <sup>2</sup>
Conductor cross section AWG	28 16

#### Dimensions

Dimensional drawing



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	I Contraction of the second seco
Housing material	PA 6.6
	PBT

#### Protective circuit

Mode of protection	L-PE
	L-PEN
Direction of action	3L-PEN
Nominal voltage U <sub>N</sub>	400/690 V AC (TN-C)
	500 V AC (IT)
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous voltage U <sub>C</sub>	580 V AC
Rated load current IL	80 A



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Protective conductor current IPE	≤ 0.75 mA
Standby power consumption $P_C$	≤ 450 mVA
Nominal discharge current $I_n$ (8/20) µs	15 kA
Maximum discharge current I <sub>max</sub> (8/20) µs	30 kA
Short-circuit current rating ISCCR	25 kA
Voltage protection level U <sub>p</sub>	≤ 2.5 kV
Residual voltage U <sub>res</sub>	≤ 2.5 kV (at I <sub>n</sub> )
	≤ 2.3 kV (at 10 kA)
	≤ 2.1 kV (at 5 kA)
	≤ 1.9 kV (at 3 kA)
TOV behavior at U <sub>T</sub>	690 V AC (5 s / withstand mode)
	762 V AC (120 min / withstand 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	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)	1160 V AC
Maximum continuous operating voltage MCOV (L-G)	580 V AC
Nominal discharge current I <sub>n</sub> (L-L)	10 kA
Nominal discharge current I <sub>n</sub> (L-G)	10 kA
Mode of protection	L-L
	L-G
Nominal voltage	400/690 V AC
Power distribution system	Delta
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-L)	4270 V
Measured limiting voltage MLV (L-G)	2310 V
SPD Type	4CA
UL indicator/remote signaling	
Operating voltage	125 V AC
AC operating current	1 A AC



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UL connection	data
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Tightening torque	30 lb <sub>r</sub> -in.
Conductor cross section AWG	14 2
tendered and requilations	

#### Standards and regulations

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

#### Mounting

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### Drawings





Application drawing

Dimensional drawing





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### Approvals

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<b>.91</b>	CUL Recognized Approval ID: FILE E 330181
<b>F/</b>	UL Recognized Approval ID: FILE E 330181
	IECEE CB Scheme Approval ID: AT 2905/M1
	EAC Approval ID: RU C-DE.*09.B.00169
CC App	CA oroval ID: NTR-AT 1947-A
Keur	KEMA-KEUR Approval ID: 71-148002
<b>()</b> ,	CSA Approval ID: 13631
ÖVE	ÖVE Approval ID: 18583-001-17
	NE-ROHS proval ID: 22-09-51251

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### Classifications

#### ECLASS

	ECLASS-13.0	27171202			
ETIM					
	ETIM 9.0	EC000941			
UNSPSC					
	UNSPSC 21.0	39121600			

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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 PTY Ltd Unit 7, 2-8 South Street Rydalmere NSW 2116 1300 786 411 customerservice@phoenixcontact.com.au