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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

- ✓ Varistor arrester with a low leakage current
- ☐ High continuous voltage of 350 V AC for 230/400 V AC networks with high voltage fluctuations
- ☑ Pluggable
- ☑ Optical, mechanical status indicator
- With floating remote indication contact
- ☑ Plugs can be checked with CHECKMASTER 2



## **Key Commercial Data**

Packing unit	1 pc
GTIN	4 046356 948050
GTIN	4046356948050
Weight per Piece (excluding packing)	222.222 g
Weight per piece (including packing)	328.400 g
Custom tariff number	85363030
Country of origin	Germany
Sales Key	K1 - Overvoltage Protect.

#### Technical data

#### **Dimensions**

Height	97.9 mm
Width	37.3 mm
Depth	74.5 mm (incl. DIN rail 7.5 mm)



## Technical data

#### Dimensions

Horizontal pitch	2 Div.
Tionzontal pitch	Z DIV.

#### 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 (above mean sea level))
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)

#### General

IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN-C
Mode of protection	L-PEN
Mounting type	DIN rail: 35 mm
Color	light grey RAL 7035
	traffic grey A RAL 7042
Housing material	PA 6.6-FR 20% GF
	PBT-FR
Degree of pollution	2
Flammability rating according to UL 94	V-0
Туре	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	Optical, remote indicator contact

#### Protective circuit

Nominal voltage U <sub>N</sub>	240/415 V AC (TN-C)
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous voltage U <sub>C</sub>	350 V AC
Rated load current I <sub>L</sub>	40 A (Biconnect M4 fork-type cable lug 6 mm²)
	63 A (TWIN ferrule 2 x 10 mm²)
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 (in case of 315 A gG backup fuse)
	50 kA (in case of 200 A gG backup fuse)
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)



## Technical data

#### Protective circuit

	≤ 1.1 kV (at 4 kA)
	≤ 1 kV (at 2 kA)
TOV behavior at U <sub>T</sub>	415 V AC (5 s / withstand mode)
	457 V AC (120 min / safe failure mode)
Response time t <sub>A</sub>	≤ 25 ns
Max. backup fuse with V-type through wiring	40 A (gG / Biconnect M4 fork-type cable lug, 6 mm²)
	63 A (gG / TWIN ferrule 2x 10mm²)
Max. backup fuse with branch wiring	315 A (gG)

## Indicator/remote signaling

Switching function	PDT 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)
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 mm² 1.5 mm²
Conductor cross section solid	0.14 mm² 1.5 mm²
Conductor cross section AWG	28 16

#### Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross section flexible	2.5 mm² 16 mm²
Conductor cross section solid	2.5 mm² 25 mm²
Conductor cross section AWG	12 4
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm² 6 mm²

## UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (L-L)	700 V AC
Maximum continuous operating voltage MCOV (L-N)	350 V AC
Nom. voltage	277/480 V AC
Mode of protection	L-L
	L-N
Power distribution system	Wye



## Technical data

#### **UL** specifications

Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-L)	3280 V
Measured limiting voltage MLV (L-N)	2000 V
Nominal discharge current I <sub>n</sub> (L-L)	20 kA
Nominal discharge current I <sub>n</sub> (L-N)	20 kA

#### UL indicator/remote signaling

Operating voltage	125 V AC
Operating current	1 A AC
Tightening torque	2 lb <sub>r</sub> in 4 lb <sub>r</sub> in.
Conductor cross section AWG	30 14

#### UL connection data

Conductor cross section AWG	14 2 (solid)
	14 4 (flexible)
Tightening torque	40 lb <sub>r</sub> in 50 lb <sub>r</sub> in.

#### Standards and Regulations

Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

#### **Environmental Product Compliance**

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

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