

2868033

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Surge arrester consisting of base element with remote indicator contact and protective connector with high-capacity varistor, for mounting on NS 35/7.5, 1-channel

#### 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	2868033
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL18
Product key	CL1321
Catalog page	Page 55 (C-4-2017)
GTIN	4017918930059
Weight per piece (including packing)	128.7 g
Weight per piece (excluding packing)	104.67 g
Customs tariff number	85363010
Country of origin	DE



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### Technical data

#### Product properties

IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN
Туре	DIN rail module, two-section, divisible
Product type	Surge arrester
Product family	VALVETRAB MS
Number of positions	1
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 A AC
	1 A DC

#### Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (1.5 mm² 16 mm²)
	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	96.8
Width	17.6 mm
Height	98.8 mm
Depth	65.7 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	1 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
Housing material	PA 6.6
	PBT

### Protective circuit

Mode of protection	L-PEN
Direction of action	1L-N/PE
Nominal voltage U <sub>N</sub>	60 V AC (TN)
	60 V DC
	-48 V DC (RRH)
Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous voltage U <sub>C</sub>	75 V AC
	100 V DC
Rated load current I <sub>L</sub>	80 A
Residual current I <sub>PE</sub>	≤ 0.45 mA
Standby power consumption P <sub>C</sub>	≤ 35.00 mVA
Nominal discharge current I <sub>n</sub> (8/20) μs	15 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>	≤ 0.55 kV
Residual voltage U <sub>res</sub>	≤ 0.55 kV (at I <sub>n</sub> )
	≤ 0.425 kV (at 10 kA)
	≤ 0.325 kV (at 5 kA)
	≤ 0.275 kV (at 3 kA)



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TOV behavior at U <sub>T</sub>	100 V AC (5 s / withstand mode)
Response time t <sub>A</sub>	≤ 25 ns
Max. backup fuse with V-type through wiring	80 A AC (gG)
Max. backup fuse with branch wiring	125 A AC (gG)
	50 A DC (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-N)	75 V AC
Maximum continuous operating voltage MCOV (L+) - (L-)	100 V DC
Nominal discharge current I <sub>n</sub> (L-N)	10 kA
Nominal discharge current I <sub>n</sub> (L+) - (L-)	10 kA
Mode of protection	L-N
	(L+) - (L-)
Nominal voltage	60 V AC
Nominal voltage	60 V DC
Power distribution system	Single phase
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-N)	630 V
Measured limiting voltage MLV (L+) - (L-)	810 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



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	Note	2012
Mounting		
	Mounting type	DIN rail: 35 mm



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### Classifications

#### **ECLASS**

	ECLASS-11.0	27130805
	ECLASS-13.0	27171202
ETIM		
	ETIM 9.0	EC000941
UNSPSC		
	UNSPSC 21.0	39121600

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### Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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