

1033788

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Pluggable surge protective device free of leakage current for 2-pos. isolated and grounded DC voltage systems with linear operating characteristic up to 120 V DC, for DIN rail mounting, 3-pos. base element with remote indication contact, three pluggable temperature-monitored protective elements, status message on each plug.

Your advantages

- · Surge protection family for universal use with optimum energy coordination from the lightning current arrester to the device protection
- · Easy to maintain due to consistently pluggable protection modules
- · Excellent level of information provided by mechanical/visual status indicator and remote indication contact
- · More space in the control cabinet due to the narrow overall width of just 12 mm per position
- · Free of leakage current so there is no influence on insulation monitoring

Commercial data

Item number	1033788
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL01
Product key	CL1353
GTIN	4055626539973
Weight per piece (including packing)	293.2 g
Weight per piece (excluding packing)	287.57 g
Customs tariff number	85363090
Country of origin	DE



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Technical data

Product properties

Product type	Surge arrester	
Product family	SEC Family	
IEC test classification	II	
	T2	
EN type	T2	
IEC power supply system	DC	
Туре	DIN rail module, two-section, divisible	
Number of positions	2	
Surge protection fault message	Optical, remote indicator contact	
Insulation characteristics		
Overvoltage category	III	
Pollution degree	2	

Electrical properties

Nominal voltage U _N	100 V DC 120 V DC
ndicator/remote signaling	
Connection name	Remote fault indicator contact
Switching function	Changeover contact
Operating voltage	5 V AC 250 V AC (Altitude ≤ 2000 m (amsl))
	5 V AC 150 V AC (Altitude > 2000 m (amsl))
	125 V DC (200 mA DC)
Operating current	5 mA AC 1 A AC
	1 A DC (30 V DC)

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 rigid	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

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	97,9
Width	37.3 mm
Height	97.9 mm
Depth	74.5 mm (incl. DIN rail 7.5 mm)
Horizontal pitch	2 Div.

Material specifications

Color (Male connector)	light gray (RAL 7035)
Color (Base element)	gray (RAL 7042)
Flammability rating according to UL 94	V-0
CTI value of material	600
Insulating material	PA6.6-FR 20% GF
	PBT-FR
Material group	1
Housing material	PA 6.6-FR 20 % GF
	PBT-FR

Protective circuit

Mode of protection	(DC+) - (DC-)
	(DC+/DC-) - PE
Direction of action	(DC+/DC-) - PE
Nominal voltage U _N	100 V DC 120 V DC
Maximum continuous operating voltage U_{C}	150 V DC
Rated load current I _L	40 A (Biconnect M4 fork-type cable lug 6 mm²)
	63 A (TWIN ferrule 2 x 10 mm²)
Protective conductor current I _{PE}	≤ 5 µA
Nominal discharge current I _n (8/20) μs	20 kA
Maximum discharge current I _{max} (8/20) μs	40 kA
Total discharge current I _{Total} (8/20) μs	40 kA
Short-circuit current rating I _{SCCR}	0.2 kA (without backup fuse)
	6 kA (for 20 A gG/B backup fuse)
Voltage protection level U _p (DC+) - (DC-)	≤ 1.8 kV
Voltage protection level U _p (DC+/DC-) - PE	≤ 1.3 kV
Front-of-wave sparkover voltage at 6 kV (1.2/50) μ s (DC+/DC-) - PE	≤ 1.1 kV



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OV behavior at U _T	174 V DC (5 s / withstand mode)
Max. backup fuse with V-type through wiring	20 A (gG / B at I _{SCCR} > 200 A)
Max. backup fuse with branch wiring	20 A (gG / B at I _{SCCR} > 200 A)
ditional technical data	
Maximum continuous operating voltage U _C	135 V AC (for operation in safety lighting systems)
conmental and real-life conditions	10 μΑ
onmental and real-life conditions	10 μA IP20
onmental and real-life conditions ient conditions egree of protection	
Continuous operating current I _{CPV} conmental and real-life conditions bient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport)	IP20
conmental and real-life conditions bient conditions Degree of protection Ambient temperature (operation)	IP20 -40 °C 80 °C
conmental and real-life conditions bient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport) Altitude	IP20 -40 °C 80 °C -40 °C 80 °C
conmental and real-life conditions bient conditions Degree of protection Ambient temperature (operation) Ambient temperature (storage/transport)	IP20 -40 °C 80 °C -40 °C 80 °C ≤ 6000 m (amsl)

S

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

2012

Mounting

Note

Mounting type	DIN rail: 35 mm

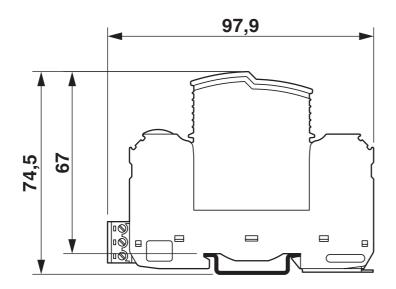


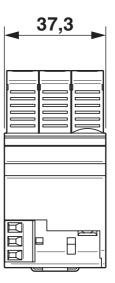
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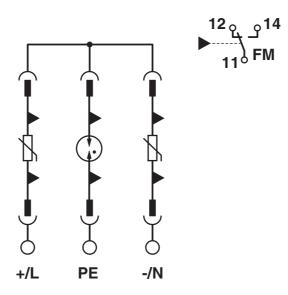
Drawings

Dimensional drawing





Circuit diagram





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Approvals

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UAE-RoHS

Approval ID: 23-10-88707



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Classifications

ECLASS

	ECLASS-13.0	27171302	
	ECLASS-15.0	27171302	
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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