

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	CL1353
Product key	CL1353
Catalog page	Page 59 (C-4-2019)
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	Ш
	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
sulation characteristics	
Overvoltage category	
Pollution degree	2
ctrical properties	
Nominal voltage U _N	100 V DC 120 V DC
	100 V DC 120 V DC
dicator/remote signaling	
dicator/remote signaling Connection name	Remote fault indicator contact
dicator/remote signaling	
dicator/remote signaling Connection name	Remote fault indicator contact
dicator/remote signaling Connection name Switching function	Remote fault indicator contact Changeover contact
dicator/remote signaling Connection name Switching function	Remote fault indicator contact Changeover contact 5 V AC 250 V AC (Altitude ≤ 2000 m (amsl))
dicator/remote signaling Connection name Switching function	Remote fault indicator contact Changeover contact 5 V AC 250 V AC (Altitude ≤ 2000 m (amsl)) 5 V AC 150 V AC (Altitude > 2000 m (amsl))

Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	4.5 Nm
Stripping length	16 mm
Conductor cross section flexible	2.5 mm ² 16 mm ²
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 mm ² 1.5 mm ²
Conductor cross section rigid	0.14 mm ² 1.5 mm ²
Conductor cross section AWG	28 16

Dimensions

Dimensional drawing	
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 voltage U _C	150 V DC
Rated load current IL	40 A (Biconnect M4 fork-type cable lug 6 mm ²)
	63 A (TWIN ferrule 2 x 10 mm ²)
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 Ι _{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
Impulse sparkover voltage at 6 kV (1.2/50) µs (DC+/DC-) - PE	≤ 1.1 kV
TOV behavior at U _T	174 V DC (5 s / withstand mode)



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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)
Additional technical data	
Maximum continuous voltage U _C	135 V AC (for operation in safety lighting systems)

Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-40 °C 80 °C
Ambient temperature (storage/transport)	-40 °C 80 °C
Altitude	≤ 6000 m (amsl)
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)

Standards and regulations

Mounting

Mounting type	DIN rail: 35 mm
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Drawings





Circuit diagram



Dimensional drawing





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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
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