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Lightning/surge arrester for 2-pos. isolated 600 V DC voltage systems, for DIN rail mounting, 3-pos. base element with remote indication contact, three plug-in temperature-monitored protective elements, status message on each plug.

Why buy this product

- ✓ Increased safety, thanks to compliance with standard EN 50539-11
- Reliable contact, thanks to integrated rotating latch
- Easy replacement, thanks to plug-in arresters
- Optimum inverter protection, thanks to low protection level
- Efficient replacement of defective plugs, thanks to visual status indicator
- Optimized maintenance planning, thanks to remote signaling
- Protection against mismatching, thanks to keyed plugs and base elements
- ☑ Always the right arrester, thanks to universal type 1/type 2 protective components



Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 714297
GTIN	4046356714297
Weight per Piece (excluding packing)	380.000 g
Custom tariff number	85363030
Country of origin	Germany

Technical data

Dimensions



Technical data

Dimensions

Height	99 mm
Width	53.4 mm
Depth	65.5 mm
Horizontal pitch	3 Div.

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 (above mean sea level))
Permissible humidity (operation)	5 % 95 %
Shock (operation)	60g (Half sine/11 ms/3x #X#Y#Z)
Vibration (operation)	7.5g (5-500 Hz/2.5 h/XYZ)

General

IEC test classification	PV I / II
	PV T1 / T2
EN type	T1 / T2
SPD failure behavior	OCM (Open-circuit mode)
Connection configuration	Y configuration
Installation location	Inside
Accessibility	Accessible
Installation location of the disconnect device	Internal
Mode of protection	(L+) - (L-)
	(L+) - PE
	(L-) - PE
Mounting type	DIN rail: 35 mm
Color	jet black RAL 9005
Housing material	PA 6.6-FR
	PBT-FR
Degree of pollution	2
Distance between live and grounded parts	8 mm
Flammability rating according to UL 94	V-0
Design	DIN rail module, two-section, divisible
Surge protection fault message	Optical, remote indicator contact

Additional descriptions



Technical data

Additional descriptions

The device is intended for touch proof installation in a housing. Ensure that there is a gap of at least 8 mm between the active and grounded parts in the connection area.
the connection area.

Protective circuit DC voltage side (DC)

1 Totalive official Do Voltage Side (Do)	
Maximum continuous operating voltage U _{CPV}	720 V DC
Open circuit voltage U _{OCSTC}	≤ 600 V DC
Short-circuit current rating I _{SCPV}	1000 A
Continuous operating current I _{CPV}	< 20 μA
Rated load current I _L	80 A
Residual current I _{PE}	≤ 20 µA DC
	≤ 350 µA AC
Standby power consumption P _C	≤ 25 mVA
Nominal discharge current (8/20) μs	15 kA
Maximum discharge current I _{max} (8/20) μs	40 kA
Impulse discharge current (10/350) µs, charge	2.5 As
Impulse discharge current (10/350) µs, specific energy	6.25 kJ/Ω
Impulse discharge current (10/350) µs, peak value l _{imp}	5 kA
Total discharge current I _{total} (8/20) µs	40 kA
Total discharge current I _{total} (10/350) μs	7 kA
Voltage protection level U _p	≤ 2.6 kV
Residual voltage U _{res}	\leq 2.6 kV (at I _n)
	≤ 2 kV (at 5 kA)
	≤ 2.3 kV (at 10 kA)
	≤ 2.8 kV (at 20 kA)
	≤ 3.1 kV (at 30 kA)
	≤ 3.6 kV (at 40 kA)
Response time t _A	≤ 25 ns
Insulation resistance R _{iso}	> 5 GΩ (at 500 V DC)

Indicator/remote signaling

Switching function	PDT contact
Operating voltage	5 V AC 250 V AC
	30 V DC
Operating current	5 mA AC 1.5 A AC
	1 A DC
Connection method	Screw connection



Technical data

Indicator/remote signaling

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	1.5 mm² 25 mm²
Conductor cross section solid	1.5 mm² 35 mm²
Conductor cross section AWG	15 2
Connection method	Biconnect terminal blocks
Screw thread	M5
Conductor cross section flexible	1.5 mm² 16 mm²

UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (L+) - (L-)	720 V DC
Maximum continuous operating voltage MCOV (L+) - G	720 V DC
Maximum continuous operating voltage MCOV (L-) - G	720 V DC
Nominal voltage	600 V DC
Mode of protection	(L+) - (L-)
	(L+) - G
	(L-) - G
Power distribution system	1
Measured limiting voltage MLV (L+) - (L-)	2990 V
Measured limiting voltage MLV (L+) - G	2870 V
Measured limiting voltage MLV (L-) - G	2950 V
Nominal discharge current I _n (L+) - (L-)	20 kA
Nominal discharge current I _n (L+) - G	20 kA
Nominal discharge current I _n (L-) - G	20 kA

UL indicator/remote signaling



Technical data

UL indicator/remote signaling

Operating voltage	125 V AC
Operating current	1 A AC
Tightening torque	4 lb _r in.
Conductor cross section AWG	30 14

UL connection data

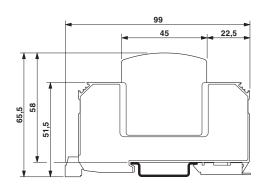
Conductor cross section AWG	10 2
Tightening torque	30 lb _f -in.

Standards and Regulations

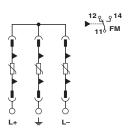
Standards/regulations	EN 50539-11 2013
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Drawings

Dimensional drawing



Circuit diagram



Approvals

Approvals

Approvals

UL Recognized / KEMA-KEUR / cUL Recognized / EAC / cULus Recognized

Ex Approvals

Approval details



Approvals

UL Recognized	7.1	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
KEMA-KEUR	KEMA	http://www.dekra-certification.com	2171492.01
cUL Recognized	. A	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
EAC	EAC		RU C- DE.A*30.B01561
cULus Recognized	c Al us	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	

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