imall

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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

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)
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Technical data

Ambient conditions

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

Note	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.
	parts in the connection area.

Protective circuit DC voltage side (DC)

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 IL	80 A
Residual current I _{PE}	≤ 20 μA DC



Technical data

Protective circuit DC voltage side (DC)

	≤ 350 μA AC
Standby power consumption P _c	\leq 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) $\mu s,$ peak value I_{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)
	\leq 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
Screw thread	M2
Tightening torque	0.25 Nm
Stripping length	7 mm
Conductor cross section flexible	0.14 mm ² 1.5 mm ²
Conductor cross section solid	0.14 mm ² 1.5 mm ²
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



Technical data

Connection data

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 In (L+) - (L-)	20 kA
Nominal discharge current In (L+) - G	20 kA
Nominal discharge current In (L-) - G	20 kA

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 _r -in.

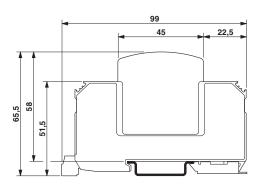
Standards and Regulations

Standards/regulations	EN 50539-11 2013

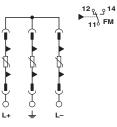
Drawings



Dimensional drawing



Circuit diagram



Approvals

Approvals

Approvals

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

Ex Approvals

Approval details

UL Recognized	71	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
KEMA-KEUR	KEWA	http://www.dekra-certification.com	2171492.01
cUL Recognized	.91	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
EAC	EAC		RU C- DE.A*30.B01561



Approvals

cULus Recognized



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm

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