

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 1000 V DC voltage systems, for DIN rail mounting, 3-pos. base element, 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
- Optimum inverter protection, thanks to low protection level
- Efficient replacement of defective plugs, thanks to visual status indicator
- 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 714334
GTIN	4046356714334

Technical data

Dimensions

Height	90 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



Technical data

Ambient conditions

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
ILO (est classification	
	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

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}	1050 V DC
Open circuit voltage U _{OCSTC}	≤ 875 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



Technical data

Protective circuit DC voltage side (DC)

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	5 kA
Voltage protection level U _p	≤ 3.5 kV
Residual voltage U _{res}	\leq 3.5 kV (at I _n)
	≤ 2.9 kV (at 5 kA)
	≤ 3.2 kV (at 10 kA)
	≤ 3.7 kV (at 20 kA)
	≤ 4.1 kV (at 30 kA)
	≤ 4.6 kV (at 40 kA)
Response time t _A	≤ 25 ns
Insulation resistance R _{iso}	> 5 GΩ (at 500 V DC)

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-)	1050 V DC
Maximum continuous operating voltage MCOV (L+) - G	1050 V DC
Maximum continuous operating voltage MCOV (L-) - G	1050 V DC
Nominal voltage	875 V DC
Mode of protection	(L+) - (L-)
	(L+) - G
	(L-) - G
Power distribution system	1



Technical data

UL specifications

Measured limiting voltage MLV (L+) - (L-)	3700 V
Measured limiting voltage MLV (L+) - G	3630 V
Measured limiting voltage MLV (L-) - G	3690 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 connection data

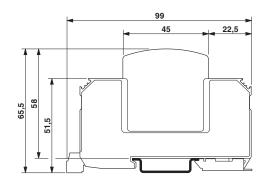
Conductor cross section AWG	10 2
Tightening torque	30 lb _r -in.

Standards and Regulations

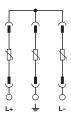
Standards/regulations	EN 50539-11 2013

Drawings

Dimensional drawing



Circuit diagram



The illustration shows the dimensional drawing for a version with remote indicator contact

Approvals

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

Ex Approvals



Approvals

Approval details

UL Recognized	71	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	.71	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 91 us	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	

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