

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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Universal varistor-based plug-in lightning/surge arrester for 1-phase power supply networks with common N and PE (2-conductor system: L1, PEN), with remote indication contact.

Why buy this product

- ☑ Plugs can be checked with CHECKMASTER
- With floating remote indication contact
- Secure hold of plugs in the event of high lightning current loads and strong vibrations thanks to new latching
- Optical, mechanical status indication for the individual arresters
- Pluggable
- Mechanical coding of all slots



Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 750189
GTIN	4046356750189

Technical data

Dimensions

Height	97 mm
Width	17.5 mm
Depth	77.5 mm
Horizontal pitch	1 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)	30g (half sinus / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	7.5g (10 500 Hz / 2.5 h / X, Y, Z)

General

IEC test classification	1/11	
	T1 / T2	
	1	
EN type	T1 / T2	
IEC power supply system	TN-C	
Mode of protection	L-N	
	L-PEN	
	(L+) - (L-)	
	(L-) - PE	
	(L+) - PE	
Mounting type	DIN rail: 35 mm	
Color	jet black RAL 9005	
Housing material	PA 6.6	
	PBT	
Degree of pollution	2	
Flammability rating according to UL 94	V-0	
Design	DIN rail module, two-section, divisible	
Number of positions	1	
Surge protection fault message	Optical, remote indicator contact	

Protective circuit

Nominal voltage U _N	60 V AC ±10 % (TN)
	60 V DC ±10 %
	-48 V DC ±10 % (RRH)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage U _C	75 V AC
	100 V DC
Rated load current I _L	80 A
Residual current I _{PE}	≤ 0.6 mA
Standby power consumption P _C	≤ 45 mVA
Nominal discharge current I _n (8/20) μs	12.5 kA
Maximum discharge current I _{max} (8/20) μs	30 kA
Impulse discharge current (10/350) μs, charge	6.25 As



Technical data

Protective circuit

Impulse discharge current (10/350) µs, specific energy	39 kJ/Ω
Impulse discharge current (10/350) µs, peak value I _{imp}	12.5 kA
Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U _p	≤ 0.4 kV
Residual voltage U _{res}	\leq 0.4 kV (at I _n)
	≤ 0.35 kV (at 10 kA)
	≤ 0.3 kV (at 5 kA)
	≤ 0.275 kV (at 4 kA)
	≤ 0.25 kV (at 3 kA)
TOV behavior at U _T	100 V AC (5 s / withstand mode)
	130 V DC (5 s / withstand mode)
Response time t _A	≤ 25 ns
Max. backup fuse with branch wiring	160 A (gG)
Max. backup fuse with V-type through wiring	80 A (gG - 16 mm²)

Additional technical data

Maximum discharge current I _{max} (8/20) μs	65 kA
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Indicator/remote signaling

Switching function	PDT contact
Operating voltage	5 V AC 250 V AC
	125 V DC (200 mA DC)
Operating current	5 mA AC 1.5 A AC
	1 A DC (30 V DC)
Connection method	Screw connection
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



Technical data

UL specifications

SPD Type	1CA
Maximum continuous operating voltage MCOV (L+) - (L-)	100 V DC
Nominal voltage	60 V DC
Mode of protection	(L+) - (L-)
Voltage protection rating VPR (L+) - (L-)	400 V
Nominal discharge current I _n (L+) - (L-)	20 kA
Short-circuit current rating (SCCR)	5 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 _f -in.

Standards and Regulations

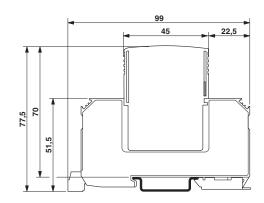
Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

Environmental Product Compliance

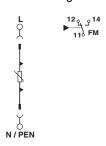
China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

Drawings

Dimensional drawing



Circuit diagram





Approvals			
Approvals			
Approvals UL Recognized / cUL Recognized	ed / KEMA-KEUR	/ VDE Zeichengenehmigung / EAC / CCA / IECEE CB Scheme / EAC / cULus	s Recognized
Ex Approvals			
Approval details			
UL Recognized	<i>7</i> .1	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
cUL Recognized	. P. L	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
KEMA-KEUR	KEMA	http://www.dekra-certification.com	2158241.01
VDE Zeichengenehmigung	Ô ^V E	http://www.vde.com/en/Institute/OnlineService/ VDE-approved-products/Pages/Online-Search.aspx	40037097
EAC	ERC		EAC-Zulassung
CCA			DE1-34244
IECEE CB Scheme	CB scheme	http://www.iecee.org/	DE1-51927
EAC	ERC		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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