

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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Surge protection, consisting of protective plug and base element, with integrated status indicator for two signal wires with common reference potential, e.g., Digital IN/OUT.

Why buy this product

- Space-saving installation due to the narrow overall width of 6.2 mm
- Signaling without additional auxiliary power, thanks to the mechanical status indicator
- Optional remote signaling module monitors up to 40 items, without additional wiring
- The signal is not influenced during maintenance work, thanks to the impedance-neutral insertion and removal of protective plugs
- Safe behavior in the event of overload, thanks to the integrated disconnect device
- Simple testing and documentation with CHECKMASTER 2, thanks to pluggable protective modules





















Key Commercial Data

Packing unit	1 pc
GTIN	4 055626 282855
GTIN	4055626282855

Technical data

Dimensions

Height	105.8 mm
Width	6.2 mm +0.1 mm
Depth	100 mm (incl. DIN rail 7.5 mm)

Ambient conditions

Ambient temperature (operation)	-40 °C 85 °C	
Ambient temperature (storage/transport)	-40 °C 85 °C	
Altitude	≤ 4000 m (amsl (above mean sea level))	
Degree of protection	IP20	



Technical data

General

Housing material	PBT	
Flammability rating according to UL 94	V-0	
Color	traffic grey A RAL 7042	
	light gray RAL 7035	
Mounting type	DIN rail: TH 35 - 7.5 mm	
Туре	DIN rail module, two-section, divisible	
Direction of action Line-Line & Line-Signal Ground/Shield & optional Signal Earth Ground		

Protective circuit

IEC test classification	C1	
	C2	
	C3	
	D1	
Nominal voltage U _N	12 V DC	
Maximum continuous voltage U _C	15 V DC	
Rated current	600 mA (56 °C)	
Operating effective current I _C at U _C	≤ 100 µA	
Residual current I _{PE}	≤ 200 µA	
Nominal discharge current I _n (8/20) µs (line-earth)	5 kA	
Pulse discharge current I _{imp} (10/350) μs (line-earth)	0.5 kA	
Total discharge current I _{total} (8/20) µs	10 kA	
Voltage protection level Up (line-earth)	≤ 145 V (C1 - 1 kV/500 A)	
	≤ 285 V (C2 - 10 kV / 5 kA)	
	≤ 25 V (C3 - 25 A)	
	≤ 30 V (C3 - 100 A)	
Voltage protection level U _p static (line-earth)	≤ 35 V (C1 - 1 kV/500 A)	
	≤ 105 V (C2 - 10 kV / 5 kA)	
Response time t _A (line-earth)	≤ 1 ns	
Input attenuation aE, asym.	typ. 0.3 dB (≤ 140 kHz / 150 Ω)	
Cut-off frequency fg (3 dB), asym. (PE) in 150 Ohm system	typ. 440 kHz	
Capacity (line-earth)	typ. 5.2 nF	
Resistance in series	1.65 Ω ±20 %	
Surge protection fault message	optical	
Max. required back-up fuse	630 mA (FF)	
Impulse durability (line-earth)	C1 - 1 kV/500 A	
	C2 - 10 kV/5 kA	
	C3 - 100 A	
	D1 - 500 A	
Pulse reset time (line-earth)	≤ 30 ms	

Additional technical data



Technical data

Additional technical data

Max. total discharge current I total max (8/20) μs	20 kA (1x)
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Connection data

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm 0.6 Nm
Stripping length	8 mm
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section solid	0.2 mm² 4 mm²
Conductor cross section AWG	24 12

Standards and Regulations

Standards/specifications	IEC 61643-21 2000 + corrigendum 2001 + A1:2008, modified + A2:2012	
	EN 61643-21 2001 + A1:2009 + A2:2013	

Environmental Product Compliance

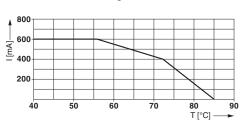
REACh SVHC	Lead 7439-92-1
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Drawings

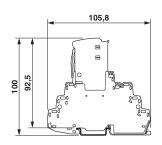
Pictogram



Diagram

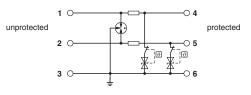


Dimensional drawing





Circuit diagram



Approvals

Approvals

Approvals

UL Listed / CSA / CSAus / DNV GL / cCSAus



Approvals			
Ex Approvals			
Approval details			
UL Listed	LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 138168
CSA	(F	http://www.csagroup.org/services-industries/product-listing/	70136717
CSAus	∰ ° US	http://www.csagroup.org/services-industries/product-listing/	70136717
DNV GL		http://exchange.dnv.com/tari/	TAE000027G
cCSAus	c sp.	http://www.csagroup.org/services-industries/product-listing/	

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