

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 arrester for 4-conductor power supply systems (L1, L2, L3, PEN), consisting of a base element and protective connectors, for mounting on NS 35.

Why buy this product

- Optical, mechanical status indication for the individual arresters
- ☑ Disconnect device on each individual plug
- Mechanical coding of all slots
- ✓ Multi-channel type 2 arresters



Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 163675
GTIN	4046356163675

Technical data

Dimensions

Height	89.8 mm
Width	53.4 mm
Depth	65.7 mm (incl. DIN rail 7.5 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))



Technical data

Ambient conditions

Permissible humidity (operation)	5 % 95 %
Shock (operation)	25g (Half-sine / 11 ms / 3x ±X, ±Y, ±Z)
Vibration (operation)	5g (10 500 Hz / 2.5 h / X, Y, Z)

General

IEC test classification	II
	T2
EN type	T2
IEC power supply system	TN-C
	IT
Mode of protection	L-PE
	L-PEN
Mounting type	DIN rail: 35 mm
Color	jet black RAL 9005
Housing material	PA 6.6
	PBT
Degree of pollution	2
Distance between live and grounded parts	5 mm
Flammability rating according to UL 94	V-0
Туре	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	optical

Additional descriptions

Note	Usable in all low-voltage systems between L-N or L-PEN. Only usable in IT Systems between L-PE, if the exposed-conductive-parts (bodies) of the equipment of the low-voltage installation is connected to the earthing arrangement of the transformer substation. (interconnected earthing arrangement of the HV-transformer substation with the bodies of the LV-installation. $R_{\rm E} = R_{\rm A}$ accordance to IEC
	60364-4-442 / VDE 0100-442 Fig. 44D / Example a)

Protective circuit

Nominal voltage U _N	400/690 V AC (TN-C)
	500 V AC (IT)
Nominal frequency f _N	50 Hz (60 Hz)
Maximum continuous voltage U _C	580 V AC
Rated load current I _L	80 A
Residual current I _{PE}	≤ 0.75 mA
Standby power consumption P _C	≤ 450 mVA
Nominal discharge current I _n (8/20) µs	15 kA
Maximum discharge current I _{max} (8/20) μs	30 kA
Short-circuit current rating I _{SCCR}	25 kA
Voltage protection level U _p	≤ 2.5 kV



Technical data

Protective circuit

Residual voltage U _{res}	\leq 2.5 kV (at I _n)
	≤ 2.3 kV (at 10 kA)
	≤ 2.1 kV (at 5 kA)
	≤ 1.9 kV (at 3 kA)
TOV behavior at U _T	690 V AC (5 s / withstand mode)
	762 V AC (120 min / withstand mode)
Response time t _A	≤ 25 ns
Max. backup fuse with V-type through wiring	80 A (gG)
Max. backup fuse with branch wiring	125 A (gG)

Connection data

Connection method	Screw connection
Screw thread	M5
Tightening torque	3 Nm (1,5 mm² 16 mm²)
	4.5 Nm (25 mm ² 35 mm ²)
Stripping length	16 mm
Conductor cross section flexible	1.5 mm ² 25 mm ²
Conductor cross section solid	1.5 mm ² 35 mm ²
Conductor cross section AWG	15 2
Connection method	Fork-type cable lug
Conductor cross section flexible	1.5 mm² 16 mm²

UL specifications

SPD Type	4CA
Maximum continuous operating voltage MCOV (L-L)	1160 V AC
Maximum continuous operating voltage MCOV (L-G)	580 V AC
Nom. voltage	400/690 V AC
Mode of protection	L-L
	L-G
Power distribution system	3D
Nominal frequency	50/60 Hz
Measured limiting voltage MLV (L-L)	4270 V
Measured limiting voltage MLV (L-G)	2310 V
Nominal discharge current I _n (L-L)	10 kA
Nominal discharge current I _n (L-G)	10 kA

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



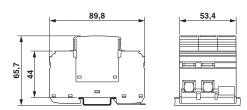
Technical data

Environmental Product Compliance

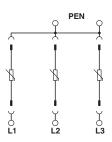
China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

Drawings

Dimensional drawing



Circuit diagram



Approvals

Approvals

Approvals

UL Recognized / KEMA-KEUR / ÖVE / cUL Recognized / CCA / IECEE CB Scheme / EAC / CSA / cULus Recognized

Ex Approvals

Approval details

UL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 330181

KEMA-KEUR http://www.dekra-certification.com 2170208.01

ÖVE https://www.ove.at/en/certification-pz/certification-register/ 18583-001-13

cUL Recognized



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

FILE E 330181



Approvals

CCA			NTR-AT 1947-A
IECEE CB Scheme	CB scheme	http://www.iecee.org/	AT 2905/M1
EAC	EAC		RU C- DE.A*30.B01561
CSA	⊕ ^	http://www.csagroup.org/services-industries/product-listing/	13631
cULus Recognized	c 71 us	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	

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