# 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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Base element for type 2 arresters of the VALVETRAB MS product range, with remote indication contact. Version for 3-phase power supplies with PEN conductor.

## RoHS

## Key Commercial Data

Packing unit	1 STK
GTIN	4 046356 182621
GTIN	4046356182621

## Technical data

#### Dimensions

Height	99 mm
Width	53.4 mm
Depth	44 mm

## 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	$\leq$ 2000 m (amsl (above mean sea level))
Permissible humidity (operation)	5 % 95 %
Shock (operation)	25g
Vibration (operation)	5g

#### General

IEC test classification	Ш
	Τ2
EN type	Τ2



## Technical data

## General

Mounting type	DIN rail: 35 mm
Color	black
Housing material	РВТ
Degree of pollution	2
Flammability rating according to UL 94	V-0
Design	DIN rail module, two-section, divisible
Number of positions	3
Surge protection fault message	Remote indication contact

## Additional descriptions

Note	For installation into a touch protected cabinet. For applications with $U_c > 500 \text{ V}$ distances at the side and distances at the connection area must be minimum of 8 mm between different active parts including earthed
	parts.

#### Protective circuit

Nominal frequency f <sub>N</sub>	50 Hz (60 Hz)
Maximum continuous voltage U <sub>C</sub>	1000 V AC
Rated load current IL	80 A
Short-circuit current rating I <sub>SCCR</sub>	25 kA
Max. backup fuse with branch wiring	200 A AC (gG)
Max. backup fuse with V-type through wiring	80 A AC (gG)

## 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 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



## Technical data

## Connection data

Conductor cross section flexible	1.5 mm <sup>2</sup> 25 mm <sup>2</sup>
Conductor cross section solid	1.5 mm <sup>2</sup> 35 mm <sup>2</sup>
Conductor cross section AWG	15 2

## UL specifications

SPD Type	4 (for Type 2 applications)
Nom. voltage	690 V AC

#### UL indicator/remote signaling

Operating voltage	125 V AC
Operating current	1 A AC
Tightening torque	4 lb <sub>f</sub> -in.
Conductor cross section AWG	30 14

#### UL connection data

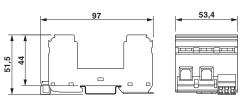
Conductor cross section AWG	10 2
Tightening torque	30 lb <sub>r</sub> −in.

## Standards and Regulations

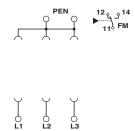
Standards/regulations	IEC 61643-11 2011
	EN 61643-11 2012

## Drawings

#### Dimensional drawing



## Circuit diagram



## Approvals

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

## Ex Approvals



Approvals

Approval details			
UL Recognized	91	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
KEMA-KEUR	Kema Keur	http://www.dekra-certification.com	2170208.01
ÖVE	ÖVE	https://www.ove.at/en/certification-pz/certification-register/	18583-001-12
cUL Recognized	.91	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 330181
CCA			NTR-AT 1947-A
IECEE CB Scheme	C <sub>B</sub> scheme	http://www.iecee.org/	AT 2905/M1
EAC	EAC		RU C- DE.A*30.B01561
cULus Recognized	c <b>RL</b> us	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	

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