

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 plug with integrated diagnostic and status indicator on the module and remote indication contact for two signal wires with common reference potential. Nominal voltage: 5 V DC

#### **Product Features**

- ✓ Plugs can be checked with CHECKMASTER
- Maximum ease of maintenance thanks to the two-piece design
- ☑ Base element remains an integral part of the installation
- Permanent and independent monitoring by a diagnostics unit
- Consistent plug-in signal circuit protection
- ✓ Optical status indication for the individual arresters







## Key commercial data

Packing unit	1 pc
Weight per Piece (excluding packing)	30.0 GRM
Custom tariff number	85369010
Country of origin	Germany

### Technical data

#### **Dimensions**

Height	45 mm
Width	17.7 mm
Depth	52 mm
Horizontal pitch	1 Div.
Complete module height	90 mm



# Technical data

## Dimensions

Complete module width	17.7 mm
Complete module depth	65.5 mm

#### Ambient conditions

Ambient temperature (operation)	-40 °C 85 °C
Degree of protection	IP20

#### General

Housing material	PA 6.6
Inflammability class according to UL 94	V0
Color	black
Standards for air and creepage distances	VDE 0110-1
	IEC 60664-1
Mounting type	On base element
Туре	DIN rail module, two-section, divisible
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield- Earth Ground

#### Protective circuit

IEC test classification	C1
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Nominal voltage U <sub>N</sub>	5 V DC
Maximum continuous operating voltage U <sub>C</sub>	6 V DC
	4 V AC
Maximum continuous voltage U <sub>C</sub> (wire-ground)	6 V DC
	4 V AC
Nominal current I <sub>N</sub>	300 mA (45°C)
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 1 mA
Residual current I <sub>PE</sub>	≤ 1 µA (BE: 2x1+F)
	≤ 2 mA (Directly grounded)
Nominal discharge current I <sub>n</sub> (8/20) μs (Core-Earth)	10 kA
Total surge current (8/20) µs	20 kA
Max. discharge current I <sub>max</sub> (8/20) μs maximum (Core-Earth)	10 kA



# Technical data

#### Protective circuit

Nominal pulse current Ian (10/1000) µs (Core-Earth)	145 A (25°C / 1x)
	50 A (25 °C)
Impulse discharge current (10/350)#µs, peak value I <sub>imp</sub>	2.5 kA (per path)
Output voltage limitation at 1 kV/µs (Core-Earth) spike	≤ 14 V
	≤ 600 V (BE: 2x1+F)
Output voltage limitation at 1 kV/µs (Core-GND) spike	≤ 14 V
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 11 V
Output voltage limitation at 1 kV/µs (Core-GND) static	≤ 11 V
Residual voltage at I <sub>n</sub> , (conductor-ground)	≤ 10 V
Residual voltage with Ian (10/1000)µs (conductor-ground)	≤ 12 V
Voltage protection level U <sub>P</sub> (Core-Earth)	≤ 11 V (C1 (500 V/250 A))
	≤ 10 V (C3 - 25 A)
Voltage protection level U <sub>P</sub> (Core-GND)	≤ 11 V (C1 (500 V/250 A))
	≤ 10 V (C3 - 25 A)
Response time tA (Core-Earth)	≤ 1 ns
Input attenuation aE, asym.	typ. 0.5 dB (≤ 200 kHz / 50 Ω)
	typ. 0.2 dB (≤ 100 kHz / 150 Ω)
Cut-off frequency fg (3 dB), asym. (GND) in 50 Ohm system	typ. 1 MHz
Cut-off frequency fg (3 dB), asym. (GND) in 150 Ohm system	typ. 0.4 MHz
Resistance in series	4.7 Ω (7-8/11-12)
Max. required back-up fuse	315 mA (e.g. T ( IEC 127-2/III))
Surge current resistance (conductor-ground)	C2 - 10 kV/5 kA
	D1 - 2,5 kA
	C3 (25 A)
Alternating current carrying capacity (conductor-ground)	5 A - 1 s

#### Connection data

Connection method	Screw connection (in connection with the base element)
Connection type IN	PLUGTRAB plug-in system
Connection type OUT	PLUGTRAB plug-in system
Screw thread	M3
Tightening torque	0.8 Nm
Stripping length	8 mm
Conductor cross section stranded min.	0.2 mm <sup>2</sup>
Conductor cross section stranded max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm <sup>2</sup>



## Technical data

#### Connection data

Conductor cross section AWG/kcmil min.	24
Conductor cross section AWG/kcmil max	12

## Standards and Regulations

Standards/regulations	IEC 61643-21
	DIN EN 61643-21

## Classifications

## eCl@ss

eCl@ss 4.0	27140201
eCl@ss 4.1	27130801
eCl@ss 5.0	27130801
eCl@ss 5.1	27130801
eCl@ss 6.0	27130807
eCl@ss 7.0	27130807
eCl@ss 8.0	27130807

#### **ETIM**

ETIM 2.0	EC000943
ETIM 3.0	EC000943
ETIM 4.0	EC000943
ETIM 5.0	EC000943

## **UNSPSC**

UNSPSC 6.01	30212010
UNSPSC 7.0901	39121610
UNSPSC 11	39121610
UNSPSC 12.01	39121610
UNSPSC 13.2	39121620

# Approvals

#### Approvals

#### Approvals

UL Listed / GOST



# Approvals

Approvals submitted

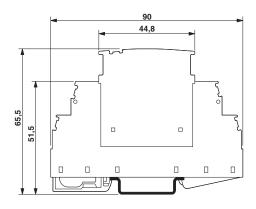
## Approval details





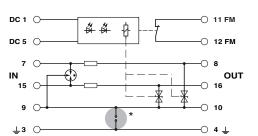
# Drawings

#### Dimensioned drawing



The figure shows the complete module consisting of a base element and connector

## Circuit diagram





Catalog photo



Figure may contain other products.

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