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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 a 2-wire floating signal circuit.

### Why buy this product

- ☑ 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
- With floating remote indication contact
- Permanent and independent monitoring by a diagnostics unit
- Consistent plug-in signal circuit protection
- Impedance-neutral disconnection of plug for test and maintenance purposes
- Optical status indication for the individual arresters



# **Key Commercial Data**

Packing unit	10 STK
GTIN	4 046356 154000
GTIN	4046356154000

## Technical data

### Note

Utilization restriction	EMC: class A product, see manufacturer's declaration in the download area
D: .	

## **Dimensions**

Height	45 mm
Width	17.7 mm
Depth	52 mm
Horizontal pitch	1 Div.



# Technical data

## Dimensions

Complete module height	90 mm
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
Flammability rating according to UL 94	V-0
Color	black
Standards for cearances and creepage distances	VDE 0110-1
	IEC 60664-1
Mounting type	on base element
Туре	Male
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground

## Protective circuit

IEC test classification	C1
120 test diassilication	
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Nominal voltage U <sub>N</sub>	24 V DC
Maximum continuous voltage U <sub>C</sub>	28 V DC
	20 V AC
Rated current	450 mA (45°C)
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 5 µA
Standby power consumption P <sub>C</sub>	≤ 1.78 VA
Residual current I <sub>PE</sub>	≤ 2 μA (Directly grounded)
	≤ 1 μA (with PT 1X2+F-BE)
Nominal discharge current I <sub>n</sub> (8/20) µs (line-line)	10 kA
Nominal discharge current I <sub>n</sub> (8/20) µs (line-earth)	10 kA
Pulse discharge current I <sub>imp</sub> (10/350) µs	2.5 kA
Total discharge current I <sub>total</sub> (8/20) µs	20 kA
Max. discharge current I <sub>max</sub> (8/20) µs maximum (line-line)	10 kA
Max. discharge current I <sub>max</sub> (8/20) µs maximum (line-earth)	10 kA



# Technical data

## Protective circuit

Nominal pulse current lan (10/1000) µs (line-line)	33 A (25 °C)
Output voltage limitation at 1 kV/µs (line-line) spike	≤ 45 V
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 450 V
	≤ 1 kV (with PT 1X2+F-BE)
Output voltage limitation at 1 kV/µs (line-line) static	≤ 40 V
Residual voltage at I <sub>n</sub> (line-line)	≤ 40 V
Residual voltage with Ian (10/1000) µs (line-line)	≤ 50 V
Voltage protection level U <sub>p</sub> (line-line)	≤ 40 V (C1 - 500 V / 250 A)
	≤ 40 V (C3 - 25 A)
Voltage protection level Up (line-earth)	≤ 450 V (C2 - 10 kV / 5 kA)
Response time t <sub>A</sub> (line-line)	≤ 1 ns
Response time t <sub>A</sub> (line-earth)	≤ 100 ns
Input attenuation aE, sym.	typ. 0.5 dB ( $\leq$ 1 MHz / 50 $\Omega$ )
	typ. 0.2 dB (≤ 400 kHz / 150 Ω)
Cut-off frequency fg (3 dB), sym. in 50 Ohm system	typ. 6 MHz
Cut-off frequency fg (3 dB), sym. in 150 Ohm system	typ. 2.5 MHz
Capacity (line-line)	typ. 1.4 nF
Capacity (line-earth)	typ. 4 pF
Resistance in series	2.2 Ω ±10 % (7-8/11-12)
Surge protection fault message	Optical, remote indicator contact
Max. required back-up fuse	500 mA (T)
Impulse durability (line-line)	C2 - 10 kV/5 kA
	C3 - 25 A
Impulse durability (line-earth)	C2 - 10 kV/5 kA
	D1 - 2.5 kA
	C3 - 100 A
Alternating current carrying capacity (line-earth)	5 A - 1 s

## Connection data

Connection method	Screw connection (in connection with the base element)
Screw thread	M3
Tightening torque	0.8 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 2002

## **Environmental Product Compliance**

DEACH 01/110	1 17400 00 4
REACh SVHC	Lead 7439-92-1



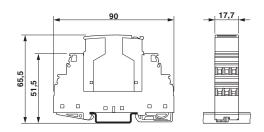
# Technical data

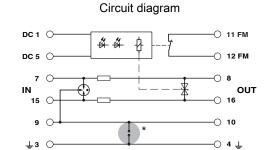
## **Environmental Product Compliance**

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

# **Drawings**

### Dimensional drawing





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

# Approvals

### Approvals

Approvals

UL Listed / EAC / EAC

Ex Approvals

## Approval details

UL Listed http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 138168

EAC EAC-Zulassung

EAC RU C-DE.A\*30.B01561



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