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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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Protective plug PT with HF protective circuit for two 2-core floating signal circuits. Nominal voltage: 24 V DC

### 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
- ☑ Protection for fieldbus systems, PROFIBUS, and signal circuits with 3 to 5-wire technology
- ☑ Impedance-neutral disconnection of plug for test and maintenance purposes













## **Key Commercial Data**

Packing unit	10 STK
GTIN	4 017918 607210
GTIN	4017918607210

### Technical data

#### **Dimensions**

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

#### Ambient conditions

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

#### General

Housing material	PA



## Technical data

## General

Flammability rating according to UL 94	V-0	
Color	black	
Standards for cearances and creepage distances	DIN VDE 0110-1	
	IEC 60664-1	
Mounting type	on base element	
Туре	Male	
Number of positions	5	
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield Earth Ground	
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00	

### Protective circuit

IEC test classification	C1		
	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		
	19.8 V AC		
Rated current	450 mA (45°C)		
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 5 µA		
Residual current I <sub>PE</sub>	≤ 4 μA (with PT 2X2-BE)		
	≤ 1 μA (with PT 2X2+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 2.5 kA		
Pulse discharge current I <sub>imp</sub> (10/350) μs			
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		
Nominal pulse current lan (10/1000) µs (line-line)	30 A		
Output voltage limitation at 1 kV/µs (line-line) spike	≤ 120 V		
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 450 V		
	≤ 1 kV (with PT 2X2+F-BE)		
Output voltage limitation at 1 kV/µs (line-line) static	≤ 45 V		
Output voltage limitation at 1 kV/µs (line-signalground) static	≤ 450 V		
Residual voltage at I <sub>n</sub> (line-line)	≤ 40 V		
Residual voltage with lan (10/1000) µs (line-line)	≤ 50 V		



## Technical data

## Protective circuit

Voltage protection level U <sub>p</sub> (line-line)	≤ 120 V (C2 - 10 kV / 5 kA)	
Voltage protection level U <sub>p</sub> (line-earth)	≤ 450 V (C2 - 10 kV / 5 kA)	
Response time t <sub>A</sub> (line-line)	≤ 500 ns	
Response time t <sub>A</sub> (line-earth)	≤ 500 ns	
Input attenuation aE, sym.	0.2 dB (≤ 5 MHz)	
Cut-off frequency fg (3 dB), sym. in 100 Ohm system	typ. 70 MHz	
Capacity (line-line)	typ. 30 pF	
Resistance in series	2.2 Ω	
Surge protection fault message	none	
Max. required back-up fuse	500 mA (T)	
Impulse durability (line-line)	C2 - 10 kV/5 kA	
Impulse durability (line-earth)	C2 - 10 kV/5 kA	
	D1 - 2.5 kA	

### Connection data

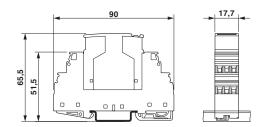
Connection method	Screw connection (in connection with the base element)	
Conductor cross section flexible	0.2 mm² 2.5 mm²	
Conductor cross section solid	0.2 mm² 4 mm²	
Conductor cross section AWG	24 12	

## Standards and Regulations

Standards/regulations	IEC 61643-21
Standards/specifications	IEC 61643-21 2000

## **Drawings**

### Dimensional drawing

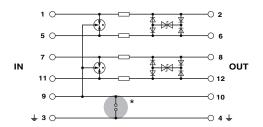


The figure shows the complete module consisting of a base element and connector

## Approvals

### Approvals

### Circuit diagram





## Approvals

Approvals

UL Listed / EAC / EAC

Ex Approvals

UL Listed / cUL Listed / cULus Listed

### Approval details

UL Listed	U <sub>L</sub> LISTED	http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm		FILE E 138168
Nominal voltage UN			24 V	
Nominal current IN			0.45 A	

|--|

EAC	ERC	RU C- DE.A*30.B01561
	LIIL	

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