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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.

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Protective plug PT with protective circuit for 4 conductors of signal circuits grounded on one side. Nominal voltage: 48 V AC

The figure shows the PT 4x1- 24 DC-ST version

Why buy this product

- ☑ Plugs can be checked with CHECKMASTER
- ☑ Installed in conjunction with the PT 4x1...-BE base element
- Maximum ease of maintenance thanks to the two-piece design
- ☑ Base element remains an integral part of the installation
- Consistent plug-in signal circuit protection
- Protection for four conductors with common reference potential













Key Commercial Data

Packing unit	10 STK
GTIN	4 046356 339865
GTIN	4046356339865

Technical data

Dimensions

Elitoriotic	
Height	45 mm
Width	17.7 mm
Depth	52 mm
Horizontal pitch	1 Div.
Complete module height	90 mm
Complete module width	17.7 mm
Complete module depth	65.5 mm



Technical data

Ambient conditions

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

General

Housing material	PA 6.6
Flammability rating according to UL 94	V-0
Color	jet black RAL 9005
Standards for cearances and creepage distances	VDE 0110-1
	IEC 60664-1
Mounting type	On base element
Design	Male
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. 3.17

Additional descriptions

Note	Technical data is valid in association with the following specified base elements:
	with PT 4x1+F-BE
	with PT 4x1-BE

Protective circuit

IEC test classification	C1
	C2
	C3
	D1
Nominal voltage U _N	48 V AC
Maximum continuous voltage U _C	77 V DC
	55 V AC
Rated current	300 mA (45°C)
Operating effective current I _C at U _C	≤ 5 μA
Residual current I _{PE}	≤ 1 µA (with PT 4X1+F-BE)
	≤ 20 μA (with PT 4X1-BE)
Nominal discharge current I _n (8/20) µs (core-earth)	10 kA
Pulse discharge current I _{imp} (10/350) μs	2.5 kA
Total discharge current I _{total} (8/20) μs	20 kA
Max. discharge current I _{max} (8/20) μs maximum (Core-Earth)	10 kA (per path)
	20 kA (in total)
Nominal pulse current Ian (10/1000) µs (Core-Earth)	12 A
Output voltage limitation at 1 kV/µs (core-GND) spike	≤ 110 V (with PT 4X1-BE)
Residual voltage at I _n (conductor-GND)	≤ 160 V
Residual voltage with Ian (10/1000)µs (conductor-GND)	≤ 125 V

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Technical data

Protective circuit

Voltage protection level U _p (core-ground)	≤ 150 V (C2 - 10 kV / 5 kA with PT 4X1-BE)
Response time tA (core-earth)	≤ 1 ns (with PT 4X1+F-BE)
	≤ 1 ns (with PT 4X1-BE)
Input attenuation aE, asym.	$0.5~dB~(\leq 2.5~MHz~/~50~\Omega)$
	$0.2~dB~(\leq 0.5~MHz~/~150~\Omega)$
	0.1 dB (≤ 0.1 MHz / 600 Ω)
Cut-off frequency fg (3 dB), asym. (PE) in 50 Ohm system	typ. 10 MHz
Cut-off frequency fg (3 dB), asym. (PE) in 150 Ohm system	typ. 3.5 MHz
Cut-off frequency fg (3 dB), asym. (PE) in 600 Ohm system	typ. 900 kHz
Capacity (core-earth)	typ. 400 pF (with PT 4X1-BE)
	typ. 2 pF (with PT 4X1+F-BE)
Resistance in series	4.7 Ω ±10 %
Surge protection fault message	None
Max. required back-up fuse	315 mA (e.g. T (IEC 127-2/III))
Impulse durability (conductor-ground)	C2 - 10 kV/5 kA
	D1 - 2.5 kA

Connection data

Connection method	Screw connection (in connection with the base element)
Connection method IN	PLUGTRAB plug-in system
Connection method OUT	PLUGTRAB plug-in system
Screw thread	M3
Tightening torque	0.5 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

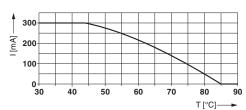
Standards/specifications	IEC 61643-21 A1:2008 (modified)
	EN 61643-21 A1:2009

Drawings

Pictogram

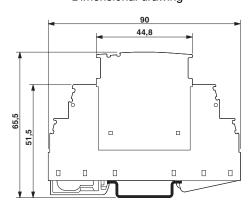


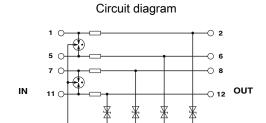
Diagram





Dimensional drawing





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

Approvals

Approvals

Approvals

EAC

Ex Approvals

Approval details



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