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Protective plug PT with protective circuit for 4 conductors of signal circuits grounded on one side. Nominal voltage: 5 V DC

#### **Product Features**

- 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
- Impedance-neutral disconnection of plug for test and maintenance purposes



### **Key Commercial Data**

Packing unit	1 pc
Weight per Piece (excluding packing)	25.06 g
Custom tariff number	85363010
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
Flammability rating according to UL 94	V0
Color	black
Standards for cearances 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
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>	5 V DC
Maximum continuous 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: 4x1+F)
	≤ 4 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



## Technical data

#### Protective circuit

Max. discharge current I <sub>max</sub> (8/20) µs maximum (Core-Earth)	10 kA
Nominal pulse current lan (10/1000) μs (Core-Earth)	125 A
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
Output voltage limitation at 1 kV/µs (Core-Earth) static	≤ 10 V
Residual voltage at I <sub>n</sub> (conductor-ground)	≤ 10 V
Voltage protection level U <sub>p</sub> (core-ground)	≤ 50 V (C2 - 10 kV/5 kA)
Response time tA (Core-Earth)	≤ 1 ns
Input attenuation aE, asym.	0.5 dB (≤ 200 kHz)
Cut-off frequency fg (3 dB), asym. (PE) in 50 Ohm system	typ. 1 MHz
Capacity (Core-Earth)	6 nF
Resistance in series	4.7 Ω (Path 1-2/5-6)
	4.7 Ω (Path 7-8, 11-12)
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 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 flexible min.	0.2 mm <sup>2</sup>
Conductor cross section flexible max.	2.5 mm <sup>2</sup>
Conductor cross section solid min.	0.2 mm²
Conductor cross section solid max.	4 mm²
Conductor cross section AWG min.	24
Conductor cross section AWG max.	12

### Standards and Regulations

Standards/regulations	IEC 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
eCl@ss 9.0	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 / EAC / EAC

Ex Approvals

UL Listed / cUL Listed / cULus Listed

Approvals submitted

Approval details



## Approvals

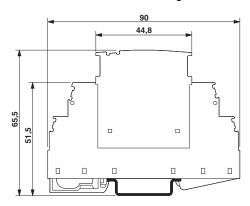
UL Listed (II)		
Nominal current IN	0.3 A	
Nominal voltage UN	5 V	

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LEAC		
1 - 10		

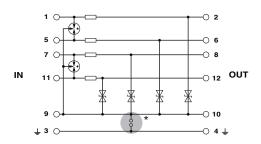
EAC	
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## Drawings

#### Dimensional drawing



#### Circuit diagram



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

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