

2906002

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PT protective plug with HF protective circuit for 4 signal wires. Nominal voltage: 24 V DC

Your advantages

- · Easy testing and documentation with CHECKMASTER 2 with pluggable protective modules
- · Maximum ease of maintenance, thanks to the 2-piece design
- · Easy selection for all possible demands in MCR applications with a complete product portfolio
- · The signal is not influenced during maintenance work, thanks to the impedance-neutral insertion and removal of protective plugs

Commercial data

Item number	2906002
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL03
Product key	CL3121
Catalog page	Page 184 (C-4-2019)
GTIN	4055626013398
Weight per piece (including packing)	35.5 g
Weight per piece (excluding packing)	22.05 g
Customs tariff number	85363010
Country of origin	DE



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Technical data

Product properties

IEC test classification	C1
	C2
	C3
	D1
Туре	Male
Product type	Surge protection for information technology
Product family	PLUGTRAB PT
Number of positions	5
Wire pairs per module	2
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Insulation characteristics	
Overvoltage category	III
Pollution degree	2

Electrical properties

Nominal voltage U _N	24 V DC
Nonlina Voltage on	24 1 00

Connection data

Connection method	Screw connection (in connection with the base element)
Screw thread	M3
Tightening torque	0.8 Nm
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section AWG	24 12

Dimensions

Dimensional drawing	99 91 93 95 95
Width	17.7 mm
Height	45 mm
Depth	52 mm
Horizontal pitch	1 Div.

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
Housing material	PA 6.6



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Mechanical properties

Mechanical data

Open side panel	No
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Protective circuit

Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground
Maximum continuous voltage U _C	28 V DC
Rated current	450 mA (45 °C)
Operating effective current I _C at U _C	≤ 5 µA
Residual current I _{PE}	≤ 5 µA (with PT 2X2-BE)
12	≤ 1 µA (with PT 2X2+F-BE)
Nominal discharge current I _n (8/20) μs (line-line)	10 kA
Nominal discharge current I _n (8/20) μs (line-ground)	10 kA (with PT 2X2+F-BE)
	10 kA (with PT 2X2-BE)
Pulse discharge current I _{imp} (10/350) µs	2.5 kA (with PT 2X2-BE)
	2.5 kA (with PT 2X2+F-BE)
Total discharge current I _{total} (8/20) μs	20 kA
Nominal pulse current lan (10/1000) µs (line-line)	25 A
Voltage protection level U _p (line-line)	≤ 150 V (C1 - 1 kV / 500 A)
	≤ 165 V (C2 - 10 kV / 5 kA)
	≤ 450 V (C2 - 10 kA)
	≤ 50 V (C3 - 25 A)
Voltage protection level U_p (line-earth)	≤ 150 V (C1 - 1 kV / 500 A)
	≤ 700 V (C1 - 1 kV / 500 A with PT 2X2+F-BE)
	≤ 165 V (C2 - 10 kV / 5 kA)
	≤ 900 V (C2 - 10 kV / 5 kA with PT 2X2+F-BE)
	≤ 450 V (C2 - 10 kA)
	≤ 1000 V (C2 - 10 kA with PT 2X2+F-BE)
	≤ 50 V (C3 - 25 A)
	≤ 800 V (C3 - 25 A with PT 2X2+F-BE)
Voltage protection level U_p (line-signal ground)	≤ 150 V (C1 - 1 kV / 500 A)
	≤ 150 V (C1 - 1 kV / 500 A with PT 2X2+F-BE)
	≤ 165 V (C2 - 10 kV / 5 kA)
	≤ 165 V (C2 - 10 kV / 5 kA with PT 2X2-BE)
	≤ 450 V (C2 - 10 kA)
	≤ 450 V (C2 - 10 kV / 5 kA with PT 2X2-BE)
	≤ 50 V (C3 - 25 A)
	≤ 50 V (C3 - 25 A with PT 2X2-BE)
Response time t _A (line-line)	≤ 500 ns
Response time t _A (line-earth)	≤ 500 ns
Input attenuation aE, sym.	typ. 0.3 dB (≤ 13 MHz/100 Ω)
Cut-off frequency fg (3 dB), sym. in 100 Ω system	typ. 70 MHz



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Capacity (Core-Core)	typ. 23 pF
Resistance per path	2.2 Ω ±10 %
Surge protection fault message	none
Max. required back-up fuse	500 mA (T)

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 85 °C
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 2000 m (amsl)

Standards and regulations

Standards/specifications	EN 61643-21/A2
Note	2013
Standards/specifications	IEC 61643-21/A2
Note	2012

Mounting

Mounting type	on base element



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Classifications

ECLASS

	ECLASS-11.0	27130807	
	ECLASS-13.0	27171503	
ETIM			
	ETIM 9.0	EC001466	
UNSPSC			
	UNSPSC 21.0	39121600	



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Environmental product compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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