

https://www.phoenixcontact.com/us/products/2838306

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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

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	2838306
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CL21
Product key	CL2111
Catalog page	Page 135 (C-4-2019)
GTIN	4017918182694
Weight per piece (including packing)	26.25 g
Weight per piece (excluding packing)	21.068 g
Customs tariff number	85363010
Country of origin	DE

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Technical data

Product properties

IEC test classification	C1
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Туре	Male
Product type	Surge protection for MCR technology
Product family	PLUGTRAB PT
Surge protection fault message	none
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00
Insulation characteristics	
Overvoltage category	Ш
Pollution degree	2
Electrical properties	
Nominal voltage U _N	5 V DC
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 mm ² 4 mm ²

Dimensions

Conductor cross section AWG

Dimensional drawing

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

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Complete module height	90 mm
Complete module depth	65.5 mm

Material specifications

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

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
laximum continuous voltage U _C	6 V DC
	4 V AC
Rated current	300 mA (45 °C)
Operating effective current I_C at U_C	≤ 1 mA
Residual current I _{PE}	≤ 1 µA (with PT 4X1+F-BE)
	≤ 4 mA (Directly grounded)
Nominal discharge current Ι _n (8/20) μs (line-ground)	10 kA
Pulse discharge current l _{imp} (10/350) μs	2.5 kA (per path)
Total discharge current I _{total} (8/20) μs	20 kA
Max. discharge current I _{max} (8/20) μs maximum (line-earth)	10 kA
Nominal pulse current Ian (10/1000) μs (line-earth)	125 A
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 14 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 10 V
Residual voltage at I _n (conductor-ground)	≤ 10 V
Voltage protection level U _p (line-earth)	≤ 50 V (C2 - 10 kV / 5 kA)
Response time t _A (line-earth)	≤ 1 ns
Input attenuation aE, asym.	0.5 dB (≤ 200 kHz)
Cut-off frequency fg (3 dB), asym. (PE) in 50 Ω system	typ. 1 MHz
Capacity (Core-Earth)	6 nF
Resistance per path	4.7 Ω
Surge protection fault message	none
Max. required back-up fuse	315 mA (T)
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 2.5 kA

Environmental and real-life conditions

Degree	of	protection
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Ambient temperature (operation)	-40 °C 85 °C		
Standards and regulations			
VDE requirement class	C1		
	C2		
	СЗ		
	D1		
Air clearances and creepage distances			
Standards/regulations	VDE 0110-1 / IEC 60664-1		
Standards Information technology specification			
Standards/regulations	IEC 61643-21		
	IEC 61643-21		
Standards/specifications	IEC 61643-21		
Note	2000		
Mounting			
Mounting type	on base element		



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Classifications

ECLASS

	ECLASS-11.0	27130807	
	ECLASS-13.0	27171501	
ETIM			
	ETIM 9.0	EC001625	
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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