

2838319

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Protective plug PT with protective circuit for 4 conductors of signal circuits grounded on one side. Nominal voltage: 12 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	2838319
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CL21
Product key	CL2111
Catalog page	Page 135 (C-4-2019)
GTIN	4017918182700
Weight per piece (including packing)	26.23 g
Weight per piece (excluding packing)	21.718 g
Customs tariff number	85363010
Country of origin	DE



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Technical data

Product properties

Product type	Surge protection for MCR technology
Product family	PLUGTRAB PT
IEC test classification	C1
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Туре	Male
Surge protection fault message	none
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

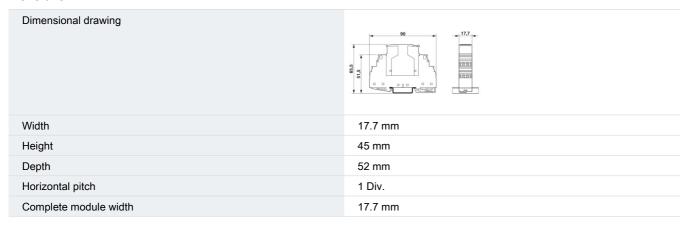
Electrical properties

Nominal voltage U _N	12 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 mm² 2.5 mm²
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section AWG	24 12

Dimensions





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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
Maximum continuous voltage U _C	13 V DC
	9 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 (Directly grounded)
Nominal discharge current I_n (8/20) μ s (line-ground)	10 kA
Pulse discharge current I _{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 lan (10/1000) µs (line-earth)	67 A
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 23 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 18 V
Residual voltage at I _n (conductor-ground)	≤ 18 V
Voltage protection level U_p (line-earth)	≤ 65 V (C2 - 10 kV / 5 kA)
Response time t _A (line-earth)	≤ 1 ns
Input attenuation aE, asym.	0.5 dB (≤ 600 kHz)
Cut-off frequency fg (3 dB), asym. (PE) in 50 Ω system	typ. 3 MHz
Capacity (Core-Earth)	3 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

Ambient conditions

Degree of protection	IP20
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Ambient temperature (operation)	-40 °C 85 °C
Standards and regulations	
VDE requirement class	C1
	C2
	C3
	D1
Air clearances and creepage distances	
Standards/regulations	VDE 0110-1 / IEC 60664-1
Standards Information technology specification	
Standards/regulations	IEC 61643-21
	DIN EN 61643-21
	UL 497B
	IEC 61643-21
	DIN EN 61643-21
	UL 497B
Standards/specifications	IEC 61643-21
Note	2000
Mounting	
Mounting type	on base element

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