

2804856

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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

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	2804856
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CL21
Product key	CL2111
Catalog page	Page 135 (C-4-2019)
GTIN	4046356339865
Weight per piece (including packing)	27.19 g
Weight per piece (excluding packing)	25.95 g
Customs tariff number	85363010
Country of origin	DE



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Technical data

Product properties

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IEC test classification	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. 3.17	
Insulation characteristics		
Overvoltage category	III	
Pollution degree	2	

Electrical properties

Nominal voltage U _N	48 V AC
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Connection data

Connection method	Screw connection (in connection with the base element)
Screw thread	M3
Tightening torque	0.5 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

Dimensional drawing	90 90 90 90 90 90 90 90 90 90 90 90 90 9
Width	17.7 mm
Height	45 mm
Depth	52 mm
Horizontal pitch	1 Div.
Complete module width	17.7 mm
Complete module height	90 mm
Complete module depth	65.5 mm

Material specifications



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

Mechanical properties

Mechanical data

Open side panel	No

Protective circuit

Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal
	Ground/Shield-Earth Ground
aximum 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
desidual current I _{PE}	≤ 1 µA (with PT 4X1+F-BE)
	≤ 20 µA (Directly grounded)
Nominal discharge current I _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 (per path)
	20 kA (in total)
Nominal pulse current lan (10/1000) µs (line-earth)	12 A
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 110 V (with PT 4X1-BE)
	≤ 600 V (with PT 4X1+F-BE)
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 50 V (with PT 4X1+F-BE)
esidual voltage at I _n (conductor-ground)	≤ 160 V (spike)
	≤ 110 V (static)
Residual voltage with Ian (10/1000) µs (line-signalground)	≤ 125 V
Voltage protection level U _p (line-earth)	≤ 150 V (C2 - 10 kV / 5 kA with PT 4X1-BE)
Voltage protection level U _p static (line-earth)	≤ 40 V (C2 - 10 kV / 5 kA with PT 4X1-BE)
Response time t _A (line-earth)	≤ 1 ns (with PT 4X1-BE)
	≤ 100 ns (with PT 4X1+F-BE)
Response time t _A (line-signalground)	≤ 1 ns (with PT 4X1+F-BE)
nput attenuation aE, asym.	0.5 dB (≤ 2.5 MHz / 50 Ω)
	0.2 dB (≤ 0.5 MHz / 150 Ω)
	0.1 dB (≤ 0.1 MHz / 600 Ω)
Cut-off frequency fg (3 dB), asym. (PE) in 50 Ω system	typ. 10 MHz
Cut-off frequency fg (3 dB), asym. (PE) in 150 Ω system	typ. 3.5 MHz
Cut-off frequency fg (3 dB), asym. (PE) in 600 Ω system	typ. 900 kHz
Capacity (Core-Earth)	typ. 400 pF (with PT 4X1-BE)
	typ. 2 pF (with PT 4X1+F-BE)
Resistance per path	4.7 Ω ±10 %
Surge protection fault message	none



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315 mA (T)			
C2 - 10 kV / 5 kA			
D1 - 2.5 kA			
Environmental and real-life conditions Ambient conditions			
IP20			
-40 °C 85 °C			
-40 °C 85 °C			

Standards and regulations

Standards/specifications	IEC 61643-21
Note	2000

Mounting

Mounting type	on base element
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			
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	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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