2856074

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Surge protection plug for the base element, coarse and fine protection for two signal wires with common reference potential, common mode voltage coarse protection to ground. Design: 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	2856074
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CL21
Product key	CL2111
Catalog page	Page 134 (C-4-2019)
GTIN	4017918599171
Weight per piece (including packing)	20.43 g
Weight per piece (excluding packing)	16.27 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
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00

Insulation characteristics

Overvoltage category III	
Pollution degree 2	

Electrical properties

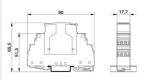
Nominal voltage U _N	12 V DC
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Connection data

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



Width	17.5 mm
Height	44.8 mm
Depth	51.7 mm
Horizontal pitch	1 Div.
Complete module width	17.7 mm
Complete module height	90 mm

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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	Na
Open side panel	No
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 $\rm I_C$ at $\rm U_C$	≤ 5 µA
Residual current I _{PE}	≤ 1 µA (with PT 2X1+F-BE)
	≤ 10 µA (Directly grounded)
Nominal discharge current I_n (8/20) µs (line-ground)	10 kA
Pulse discharge current I _{imp} (10/350) µs	2.5 kA (per path)
Total discharge current Ι _{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
	≤ 600 V (with PT 2X1+F-BE)
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 18 V
Residual voltage at I_n (conductor-ground)	≤ 18 V
Residual voltage with Ian (10/1000) μ s (line-earth)	≤ 23 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)	1.5 nF
Resistance per path	4.7 Ω (1-2/5-6/7-8/11-12)
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



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Degree of protection	IP20	
Ambient temperature (operation)	-40 °C 85 °C	
ndards and regulations		
VDE requirement class	C1	
	C2	
	C3	
	D1	
ir clearances and creepage distances		
ir clearances and creepage distances Standards/regulations	VDE 0110-1 / IEC 60664-1	
	VDE 0110-1 / IEC 60664-1	
Standards/regulations	VDE 0110-1 / IEC 60664-1	
Standards/regulations		
Standards/regulations	IEC 61643-21	
Standards/regulations	IEC 61643-21 DIN EN 61643-21	
Standards/regulations	IEC 61643-21 DIN EN 61643-21 UL 497B	
Standards/regulations	IEC 61643-21 DIN EN 61643-21 UL 497B IEC 61643-21	
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Mounting

Mounting type on base element

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