

2856087

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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: 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	2856087
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CL21
Product key	CL2111
Catalog page	Page 134 (C-4-2019)
GTIN	4017918599164
Weight per piece (including packing)	20.44 g
Weight per piece (excluding packing)	20.1 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
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00
sulation characteristics	
Overvoltage category	III
Pollution degree	2

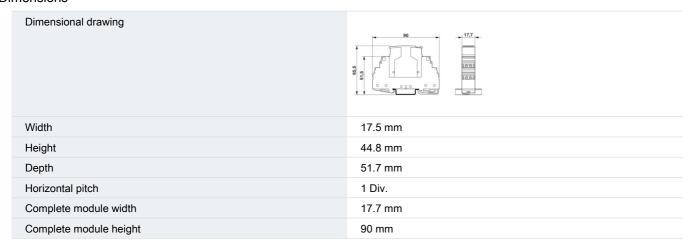
Electrical properties

Nominal voltage U _N	24 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 depth	65.5 mm
Ма	terial specifications	
	Color	black (RAL 9005)
		Copper
	Flammability rating according to UL 94	V-0
	Housing material	PA 6.6
Ме	chanical properties	
N	Mechanical data	
	Open side panel	No
Pro	otective circuit	
	Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground
	Maximum continuous voltage U _C	28 V DC
		20 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 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 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)	30 A
	Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 45 V
		≤ 600 V (with PT 2X1+F-BE)
	Output voltage limitation at 1 kV/µs (line-earth) static	≤ 40 V
	Residual voltage at I _n (conductor-ground)	≤ 40 V
	Residual voltage with Ian (10/1000) µs (line-earth)	≤ 50 V
	Voltage protection level U_p (line-earth)	≤ 60 V (C1 - 1 kV / 500 A)
		≤ 80 V (C2 - 10 kV / 5 kA)
		≤ 70 V (6 kV / 3 kA)
		≤ 50 V (C3 - 30 A)
	Response time t _A (line-earth)	≤ 1 ns
	Input attenuation aE, asym.	0.5 dB (≤ 1 MHz)
		0.3 dB (≤ 400 kHz / 150 Ω)
	Cut-off frequency fg (3 dB), asym. (PE) in 50 Ω system	typ. 4.5 MHz
	Capacity (Core-Earth)	typ. 0.7 nF
	Resistance per path	4.7 Ω ±10 % (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



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	D1 - 2.5 kA
Environmental and real-life conditions	
Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-40 °C 85 °C
Standards and regulations	
Standards and regulations	
VDE requirement class	C1
	C2
	C3
	D1
Air clearances and creepage distances	
Standards/regulations	VDE 0110-1 / IEC 60664-1
Standards/specifications	EN 61643-21/A1
Note	2009
Standards/specifications	IEC 61643-21/A1
Note	2008
Standards/specifications	UL 497B
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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