

2858043

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Surge protection plug for the base element, normal mode voltage coarse and fine protection for two floating signal wires and ground in IT, common mode voltage coarse protection to ground/earth. 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	2858043
Packing unit	10 pc
Minimum order quantity	10 pc
Sales key	CL03
Product key	CL3121
Catalog page	Page 169 (C-4-2019)
GTIN	4017918878047
Weight per piece (including packing)	29.37 g
Weight per piece (excluding packing)	20.47 g
Customs tariff number	85363090
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 information technology
Product family	PLUGTRAB PT
Number of positions	3
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10
Wire pairs per module	1
sulation characteristics	
Overvoltage category	III
Pollution degree	2

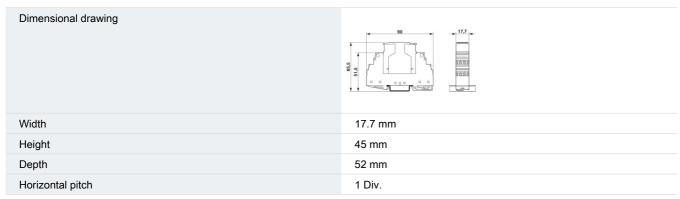
Electrical properties

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 width	17.7 mm
Complete module height	90 mm
Complete module depth	65.5 mm

Material specifications

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

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
Maximum continuous voltage U _C	14 V DC
doub rollage of	9.8 V AC
Rated current	450 mA (45 °C)
Operating effective current I _C at U _C	≤ 5 µA
Residual current I _{PE}	< 5 μA (with PT 1X2-BE)
	< 1 μA (with PT 1X2+F-BE)
Nominal discharge current I _n (8/20) µs (line-line)	10 kA
Nominal discharge current I _n (8/20) µs (line-ground)	10 kA
Nominal discharge current I _n (8/20) µs (line-signal ground)	10 kA
Pulse discharge current I _{imp} (10/350) μs	2.5 kA
Total discharge current I _{total} (8/20) μs	20 kA
Max. discharge current I _{max} (8/20) μs maximum (line-line)	10 kA
Max. discharge current I _{max} (8/20) μs maximum (line-earth)	10 kA
Nominal pulse current lan (10/1000) µs (line-line)	67 A
Output voltage limitation at 1 kV/µs (line-line) spike	≤ 55 V
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 55 V (with PT 1X2-BE)
	≤ 700 V (with PT 1X2+F-BE)
Output voltage limitation at 1 kV/µs (line-line) static	≤ 25 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 25 V
	≤ 40 V (with PT 1X2+F-BE)
Residual voltage at I _n (conductor-conductor)	≤ 25 V
Residual voltage at I _n (conductor-ground)	≤ 40 V (with PT 1X2-BE)
Residual voltage at I _n (line-signalground)	≤ 25 V (with PT 1X2-BE)
Residual voltage with Ian (10/1000) µs (line-line)	≤ 25 V
Residual voltage with Ian (10/1000) µs (line-signalground)	≤ 25 V
Voltage protection level U _p (line-line)	≤ 50 V (C3 - 25 A)
	≤ 80 V (C1 - 1 kV / 500 A)
	≤ 110 V (C2 - 10 kV / 5 kA)



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≤ 80 V (6 kV / 3 kA)
≤ 50 V (C3 - 25 A)
≤ 85 V (C1 - 1 kV / 500 A)
≤ 140 V (C2 - 10 kV / 5 kA)
≤ 100 V (6 kV / 3 kA)
≤ 50 V (C3 - 25 A)
≤ 500 ns
≤ 500 ns
typ. 0.3 dB (≤ 5 MHz / 100 Ω)
typ. 60 MHz
typ. 30 pF
2.2 Ω ±10 % (7-8/11-12)
500 mA (T)
C2 - 10 kV / 5 kA
C3 - 67 A
C2 - 10 kV / 5 kA
C3 - 67 A
D1 - 2.5 kA

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-40 °C 85 °C
Altitude	max. 2000 m

Standards and regulations

VDE requirement class	C1
	C2
	C3
	D1

Air clearances and creepage distances

Standards/regulations	DIN EN 61664-1 / IEC 60664-1
Standards/specifications	EN 61643-21/A1
Note	2009
Standards/specifications	IEC 61643-21/A1
Note	2008

Mounting

Mounting type	on base element



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Classifications

ECLASS

	ECLASS-11.0	27130807	
	ECLASS-13.0	27171503	
ETIM			
	ETIM 9.0	EC001466	
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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