

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	1 pc
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
Insulation characteristics	
Overvoltage category	III
Pollution degree	2

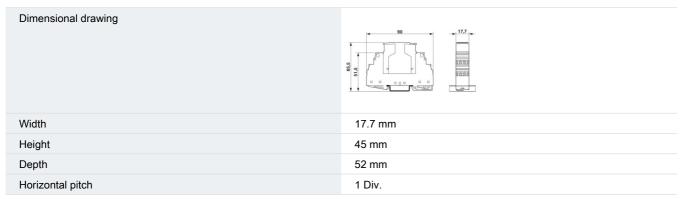
Electrical properties

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 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
Open side paner	140

Protective circuit

ective circuit	
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground
Maximum continuous voltage U_C	14 V DC
	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 Ian (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-signal ground)	≤ 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)
Voltage protection level U_p (line-earth)	≤ 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)
Voltage protection level U_p (line-signal ground)	≤ 50 V (C3 - 25 A)
Response time t _A (line-line)	≤ 500 ns
Response time t _A (line-earth)	≤ 500 ns
Input attenuation aE, sym.	typ. 0.3 dB (≤ 5 MHz / 100 Ω)
Cut-off frequency fg (3 dB), sym. in 100 Ω system	typ. 60 MHz
Capacity (Core-Core)	typ. 30 pF
Resistance per path	2.2 Ω ±10 % (7-8/11-12)
Max. required back-up fuse	500 mA (T)
Impulse durability (line-line)	C2 - 10 kV / 5 kA
	C3 - 67 A
Impulse durability (line-earth)	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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