

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
Sales key	CL3121
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	CN



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Technical data

Product properties

Product type	Surge protection for information technology
Product family	PLUGTRAB PT
IEC test classification	C1
	C2
	C3
	D1
VDE requirement class	C1
	C2
	C3
	D1
Туре	Male
Number of positions	3
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10
Wire pairs per module	1
nsulation characteristics	
Overvoltage category	III
Pollution degree	2

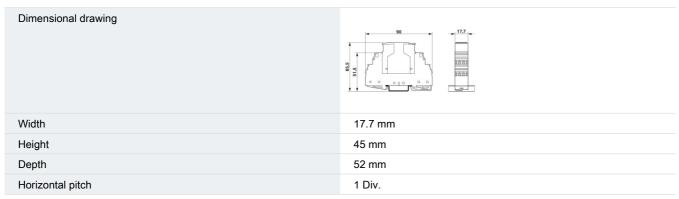
Electrical properties

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

Onen side nanel	No
Open side panel	NO

Protective circuit

lective circuit	
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground
Maximum continuous voltage $U_{\mathbb{C}}$	14 V DC
	9.8 V AC
Rated current	450 mA (45 °C)
Operating effective current I _C at U _C	≤ 5 µA
Protective conductor 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-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-signal ground)	≤ 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

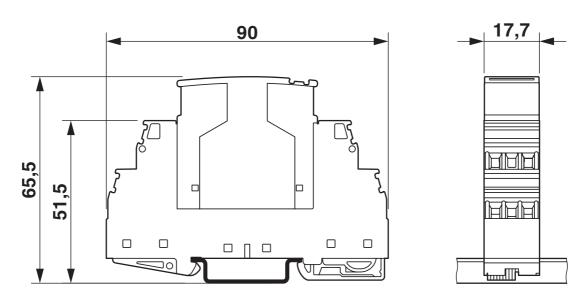


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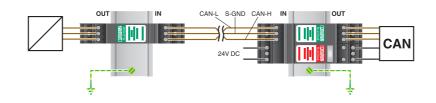
Drawings

Dimensional drawing



The figure shows the complete module consisting of a base element and connector

Application drawing



Application drawing

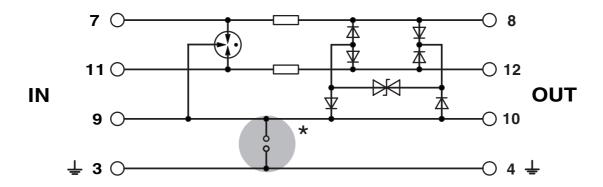




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Circuit diagram





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Approvals

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EAC

Approval ID: EAC-Zulassung



DNV GL

Approval ID: TAE00001N6



EAC

Approval ID: RU C-DE.*09.B.00169



UL Listed

Approval ID: FILE E 138168



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Classifications

	ECLASS-13.0	27171503		
ETIM				
_	1 1111			
	ETIM 9.0	EC000943		
UNSPSC				
	UNSPSC 21.0	39121600		



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	8277daf1-791e-40fb-b319-72e82ba03cdf
EF3.0 Climate Change	
CO2e kg	0.558 kg CO2e

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