2858030

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Surge protection plug for the base element, normal mode voltage coarse and fine protection for two floating signal wires in IT, common mode voltage coarse protection to ground.

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	2858030
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CL3121
Product key	CL3121
Catalog page	Page 178 (C-4-2019)
GTIN	4017918878030
Weight per piece (including packing)	29.37 g
Weight per piece (excluding packing)	20.53 g
Customs tariff number	85363090
Country of origin	DE

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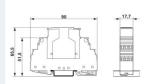
Technical data

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	2
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10
Wire pairs per module	3
Insulation characteristics	
Overvoltage category	III
Pollution degree	2
Electrical properties	
Nominal voltage U _N	5 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 mm ² 2.5 mm ²

Dimensions

Conductor cross section rigid Conductor cross section AWG



0.2 mm² ... 4 mm²

24 ... 12

Width	17.7 mm
Height	45 mm
Depth	52 mm
Horizontal pitch	1 Div.



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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

Protective circuit

Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground
Maximum continuous voltage U _C	5.2 V DC
	3.6 V AC
Rated current	450 mA (45 °C)
Operating effective current I_C at U_C	≤ 300 µA
Residual current I _{PE}	≤ 300 µA (with PT 1X2-BE)
	≤ 1 μA (with PT 1X2+F-BE)
Nominal discharge current I _n (8/20) μs (line-ground)	10 kA
Pulse discharge current l _{imp} (10/350) μs	2.5 kA
Total discharge current Ι _{Total} (8/20) μs	20 kA
Max. discharge current I_{max} (8/20) μ s maximum (line-line)	10 kA
Max. discharge current I_{max} (8/20) μ s maximum (line-earth)	10 kA
Nominal pulse current lan (10/1000) µs (line-line)	90 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	≤ 15 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 15 V
	≤ 30 V (with PT 1X2+F-BE)
Residual voltage at I _n (conductor-conductor)	≤ 15 V
Residual voltage at I _n (conductor-ground)	≤ 30 V (with PT 1X2-BE)
Residual voltage at I _n (line-signal ground)	≤ 15 V (with PT 1X2-BE)
Residual voltage with Ian (10/1000) µs (line-line)	≤ 15 V
Residual voltage with lan (10/1000) μs (line-signal ground)	≤ 15 V
Voltage protection level U _p (line-line)	≤ 70 V (C1 - 1 kV / 500 A)
	≤ 45 V (C3 - 25 A)
	≤ 100 V (C2 - 10 kV / 5 kA)
	≤ 70 V (6 kV / 3 kA)
	≤ 80 V (C1 - 1 kV / 500 A)

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Voltage protection level U _p (line-earth)	≤ 110 V (C2 - 10 kV / 5 kA)
	≤ 100 V (6 kV / 3 kA)
	≤ 45 V (C3 - 25 A)
Voltage protection level U_p (line-signal ground)	≤ 45 V (C3 - 25 A)
Response time t _A (line-line)	≤ 500 ns
Response time t _A (line-earth)	≤ 500 ns
Response time t_A (line-signal ground)	≤ 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)
Surge protection fault message	none
Max. required back-up fuse	500 mA (T)
Impulse durability (line-line)	C2 - 10 kV / 5 kA
	C3 - 90 A
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	C3 - 90 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

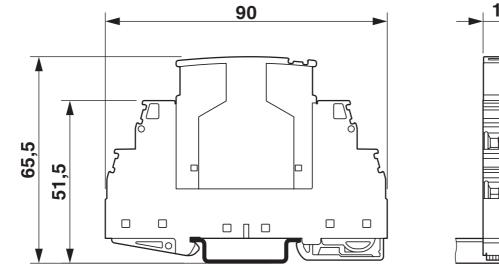
Mounting type	on base element
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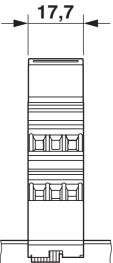
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Drawings

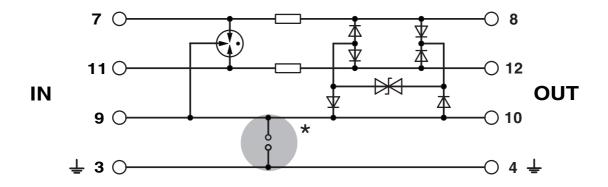




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The figure shows the complete module consisting of a base element and connector

Circuit diagram



Dimensional drawing



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Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/2858030

ERC	EAC Approval ID: EAC-Zulassung
	DNV GL Approval ID: TAE00001N6
EAC	EAC Approval ID: RU C-DE.*09.B.00169
	UL Listed Approval ID: FILE E 138168

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Classifications

ECLASS

	ECLASS-13.0	27171503	
ETIM			
	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)-l
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	7cb99cb1-c917-4b56-9222-921e264f4a80

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