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	10 pc
Sales key	CL03
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

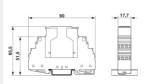
### Product properties

	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	2
	Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10
	Wire pairs per module	3
l	nsulation characteristics	
	Overvoltage category	
	Pollution degree	2
Ele	ctrical properties	
	Nominal voltage U <sub>N</sub>	5 V DC
Со	nnection data	
	Connection method	Screw connection (in connection with the base element)
	Screw thread	М3
	Tightening torque	0.8 Nm

Tightening torque	0.8 Nm
Conductor cross section flexible	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>
Conductor cross section rigid	0.2 mm <sup>2</sup> 4 mm <sup>2</sup>
Conductor cross section AWG	24 12

#### Dimensions

Dimensional drawing	



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

Open side panel	No
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#### Protective circuit

Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground
Maximum continuous voltage U <sub>C</sub>	5.2 V DC
	3.6 V AC
Rated current	450 mA (45 °C)
Operating effective current ${\rm I}_{\rm C}$ at ${\rm U}_{\rm C}$	≤ 300 µA
Residual current I <sub>PE</sub>	≤ 300 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
Pulse discharge current I <sub>imp</sub> (10/350) µs	2.5 kA
Total discharge current I <sub>total</sub> (8/20) µs	20 kA
Max. discharge current I <sub>max</sub> (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)	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 <sub>n</sub> (conductor-conductor)	≤ 15 V
Residual voltage at I <sub>n</sub> (conductor-ground)	≤ 30 V (with PT 1X2-BE)
Residual voltage at I <sub>n</sub> (line-signalground)	≤ 15 V (with PT 1X2-BE)
Residual voltage with Ian (10/1000) µs (line-line)	≤ 15 V
Residual voltage with Ian (10/1000) µs (line-signalground)	≤ 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)

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Voltage protection level U <sub>p</sub> (line-earth)	≤ 80 V (C1 - 1 kV / 500 A)
	≤ 110 V (C2 - 10 kV / 5 kA)
	≤ 100 V (6 kV / 3 kA)
	≤ 45 V (C3 - 25 A)
Voltage protection level $U_p$ (line-signalground)	≤ 45 V (C3 - 25 A)
Response time t <sub>A</sub> (line-line)	≤ 500 ns
Response time t <sub>A</sub> (line-earth)	≤ 500 ns
Response time $t_A$ (line-signalground)	≤ 500 ns
Input attenuation aE, sym.	typ. 0.3 dB (≤ 5 MHz / 100 Ω)
Cut-off frequency fg (3 dB), sym. in 100 $\Omega$ 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 temperature (operation) Altitude	-40 °C 85 °C max. 2000 m
Altitude	max. 2000 m
tandards 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
Note	
Standards/specifications	IEC 61643-21/A1
	IEC 61643-21/A1 2008
Standards/specifications	



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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com