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

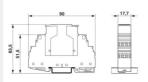
Product properties

	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
	nsulation characteristics	
1		
	Overvoltage category	111
	Pollution degree	2
Ele	ctrical properties	
	Nominal voltage U _N	5 V DC
Со	nnection data	
	Connection method	Screw connection (in connection with the base element)
	Screw thread	МЗ
	Tightening torque	0.8 Nm

Tightening torque	0.8 Nm
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section rigid	0.2 mm ² 4 mm ²
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 _C	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 _{PE}	≤ 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 _{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)	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 In (conductor-conductor)	≤ 15 V
Residual voltage at I _n (conductor-ground)	≤ 30 V (with PT 1X2-BE)
Residual voltage at I _n (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 _p (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 _A (line-line)	≤ 500 ns
Response time t _A (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 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	D1	
Air clearances and creepage distances Standards/regulations	D1 DIN EN 61664-1 / IEC 60664-1	
Standards/regulations	DIN EN 61664-1 / IEC 60664-1	
Standards/regulations Standards/specifications	DIN EN 61664-1 / IEC 60664-1 EN 61643-21/A1	
Standards/regulations Standards/specifications Note	DIN EN 61664-1 / IEC 60664-1 EN 61643-21/A1 2009	
Standards/regulations Standards/specifications Note Standards/specifications	DIN EN 61664-1 / IEC 60664-1 EN 61643-21/A1 2009 IEC 61643-21/A1	

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Classifications

ECLASS

	ECLASS-11.0	27130807	
	ECLASS-13.0	27171503	
E٦	ETIM		
	ETIM 9.0	EC001466	
U	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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com