

2838775

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Protective plug PT with HF protective circuit for 4 signal wires. Nominal voltage: 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	2838775
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CL3
Product key	CL3121
Catalog page	Page 173 (C-4-2019)
GTIN	4017918480646
Weight per piece (including packing)	26.593 g
Weight per piece (excluding packing)	25.6 g
Customs tariff number	85363010
Country of origin	DE



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Technical data

Notes

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Note	Technical data is valid in association with the following specified base elements:
	PT 2X2+F-BE 2839224
	PT 2X2-BE 2839208

Product properties

Product type	Surge protection for information technology
Product family	PLUGTRAB PT
IEC test classification	C1
	C2
	C3
	D1
Туре	Male
Number of positions	5
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.10
Wire pairs per module	2
Pata management status	

Data management status		
Article revision	10	
Insulation characteristics		
Overvoltage category	III	
Pollution degree	2	

Electrical properties

Nominal voltage U _N	12 V DC
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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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Dimensional drawing	99 17.7 17.7 11.11.11
Width	17.7 mm
Height	45 mm
Depth	52 mm
Horizontal pitch	1 Div.
Complete module width	17.7 mm
Complete module height	90 mm
Complete module depth	65.5 mm

Material specifications

Color	black (RAL 9005)
	Copper color
Flammability rating according to UL 94	V-0
Housing material	PA 6.6

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	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 2X2-BE)
	≤ 1 µA (with PT 2X2+F-BE)
Nominal discharge current I _n (8/20) µs (line-line)	10 kA
Nominal discharge current I _n (8/20) µs (line-ground)	20 kA (in total)
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) μ s maximum (line-line)	10 kA
Max. discharge current I_{max} (8/20) μ s maximum (line-earth)	20 kA (in total)
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 2X2-BE)
	≤ 700 V (with PT 2X2+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 (with PT 2X2-BE)



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	≤ 40 V (with PT 2X2+F-BE)
Residual voltage at I _n (conductor-conductor)	≤ 25 V
Residual voltage at I _n (conductor-ground)	≤ 40 V (with PT 2X2-BE)
Residual voltage at I _n (line-signalground)	≤ 25 V (with PT 2X2-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)	≤ 80 V (C1 - 1 kV / 500 A)
	≤ 100 V (C2 - 10 kV / 5 kA)
	≤ 50 V (C3 - 25 A)
	≤ 80 V (6 kV / 3 kA)
Voltage protection level U _p (line-earth)	≤ 85 V (C1 - 1 kV / 500 A with PT 2X2-BE)
·	≤ 140 V (C2 - 10 kV / 5 kA with PT 2X2-BE)
	≤ 100 V (6 kV / 3 kA with PT 2X2-BE)
	≤ 50 V (C3 - 25 A with PT 2X2-BE)
Voltage protection level U _p (line-signalground)	≤ 50 V (C3 - 25 A with PT 2X2-BE)
·	≤ 140 V (C2 - 10 kV / 5 kA with PT 2X2-BE)
Voltage protection level U _p static (line-line)	≤ 25 V (C2 - 10 kV / 5 kA)
·	≤ 27 V (C3 - 25 A)
Voltage protection level U _p static (line-earth)	≤ 45 V (C2 - 10 kV / 5 kA with PT 2X2-BE)
·	≤ 27 V (C3 - 25 A with PT 2X2-BE)
Voltage protection level U _p static (line-signalground)	≤ 25 V (C2 - 10 kV / 5 kA with PT 2X2-BE)
·	≤ 27 V (C3 - 25 A)
Response time t _A	≤ 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 %
Surge protection fault message	none
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
Ambient temperature (storage/transport)	-40 °C 85 °C
Altitude	≤ 4000 m (amsl)

Approvals



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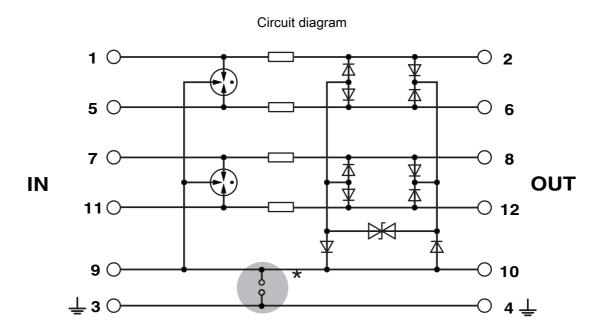
	Conformity/Approvals		
	UL, USA / Canada	Class I, Div. 2, Groups A, B, C, D T4A	
Standards and regulations			
	Standards/specifications	EN 61643-21	
	Note	A2:2013	
	Standards/specifications	IEC 61643-21	
	Note	A2:2012	
Mounting			
	Mounting type	on base element	



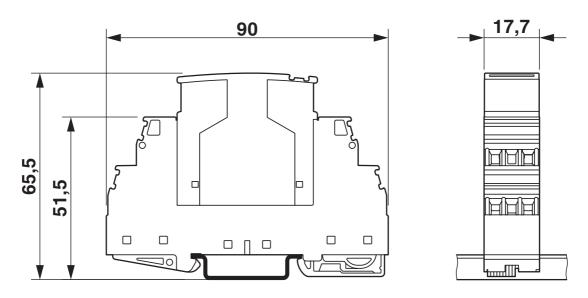
https://www.phoenixcontact.com/in/products/2838775



Drawings



Dimensional drawing



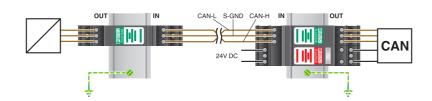
The figure shows the complete module consisting of a base element and connector

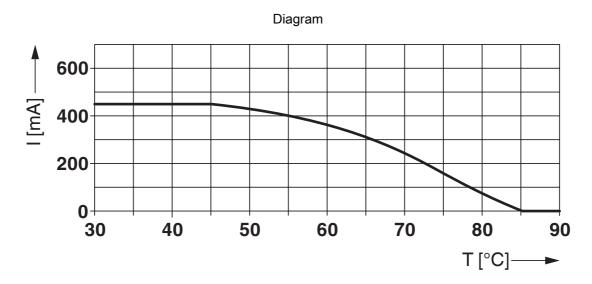


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Application drawing





The figure shows the derating curve in conjunction with PT 2X2-BE or PT 2X2+F-BE



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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

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UL Listed

Approval ID: FILE	Approval ID: FILE E 138168				
	Nominal voltage U_N	Nominal current I _N	Cross section AWG	Cross section mm ²	
	12 V	0.45 A	-	-	



cUL Listed

Approval ID: FILE E 333250



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Classifications

UNSPSC 21.0

ECLASS

	ECLASS-11.0	27130807
	ECLASS-13.0	27171503
ET	TIM	
	ETIM 9.0	EC000943
UN	ISPSC	

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	02bf230d-de9c-4865-be0c-ca8763345478

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