

https://www.phoenixcontact.com/in/products/2858014

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Surge protection plug for the base element, common mode voltage coarse and fine protection for four lines with a common reference potential. Design: 48 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	2858014
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CL2
Product key	CL2111
Catalog page	Page 135 (C-4-2019)
GTIN	4017918828325
Weight per piece (including packing)	26.27 g
Weight per piece (excluding packing)	21.768 g
Customs tariff number	85363010
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 MCR technology
Product family	PLUGTRAB PT
Arrester can be tested with CHECKMASTER from software version:	From SW rev. 1.00
Insulation characteristics	

Overvoltage category III Pollution degree 2

Electrical properties

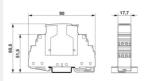
Nominal voltage U _N	48 V DC
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Connection data

Connection method	Screw connection (in connection with the base element)
Screw thread	M3
Tightening torque	0.8 Nm
Conductor cross section flexible	0.2 mm ² 2.5 mm ²
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section AWG	24 12

Dimensions

Dimensional drawing



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

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Complete module depth	65.5 mm
terial specifications	
Color	black (RAL 9005)
Flammability rating according to UL 94	V-0
Housing material	PA 6.6
chanical properties	
lechanical data	
Open side panel	No
otective circuit	
Direction of action	Line-Line & Line-Signal Ground/Shield & optional Signal Ground/Shield-Earth Ground
Maximum continuous voltage U _C	53 V DC
	37 V AC
Rated current	300 mA (45 °C)
Operating effective current ${\rm I}_{\rm C}$ at ${\rm U}_{\rm C}$	≤ 5 µA
Residual current I _{PE}	≤ 1 µA (with PT 4X1+F-BE)
	≤ 20 µA (Directly grounded)
Nominal discharge current I _n (8/20) μ s (line-ground)	10 kA
Pulse discharge current I_{imp} (10/350) µs	2.5 kA (per path)
Total discharge current Ι _{total} (8/20) μs	20 kA
Max. discharge current I_{max} (8/20) µs maximum (line-earth)	10 kA
Nominal pulse current Ian (10/1000) µs (line-earth)	17 A
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 75 V
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 70 V
Residual voltage at I _n (conductor-ground)	≤ 70 V
Voltage protection level U_p (line-earth)	≤ 130 V (C2 - 10 kV / 5 kA)
Response time t _A (line-earth)	≤ 1 ns
Input attenuation aE, asym.	0.5 dB (≤ 1.7 MHz)
Cut-off frequency fg (3 dB), asym. (PE) in 50 Ω system	typ. 9 MHz
Capacity (Core-Earth)	0.9 nF
Resistance per path	4.7 Ω
Surge protection fault message	none
Max. required back-up fuse	315 mA (T)
Impulse durability (line-earth)	C2 - 10 kV / 5 kA
	D1 - 2.5 kA

Environmental and real-life conditions

Ambient conditions		
Degree of protection	IP20	
Ambient temperature (operation)	-40 °C 85 °C	





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Standards and regulations

VDE requirement class	C1
	C2
	C3
	D1
Standards/specifications	IEC 61643-21
Note	2000

Mounting

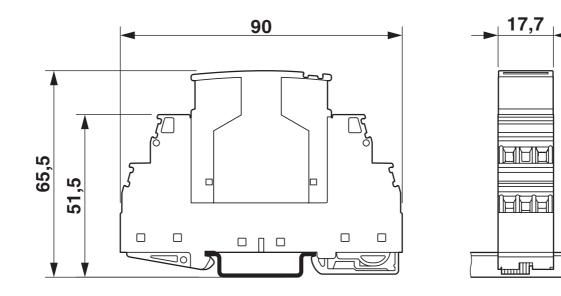
Mounting type

on base element

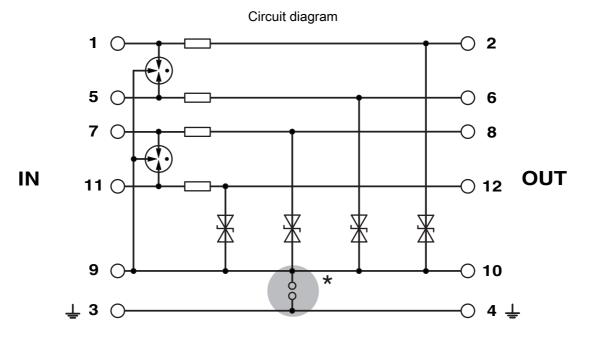
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Drawings



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



Dimensional drawing



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Approvals

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Classifications

ECLASS

	ECLASS-11.0	27130807
	ECLASS-13.0	27171501
ETIM		
	ETIM 9.0	EC001625
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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