

2856061

https://www.phoenixcontact.com/au/products/2856061

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Surge protection plug for the base element, coarse and fine protection for two signal wires with common reference potential, common mode voltage coarse protection to ground. Design: 5 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	2856061
Packing unit	10 pc
Minimum order quantity	1 pc
Sales key	CL2111
Product key	CL2111
Catalog page	Page 134 (C-4-2019)
GTIN	4017918599249
Weight per piece (including packing)	21.52 g
Weight per piece (excluding packing)	16.57 g
Customs tariff number	85363010
Country of origin	DE



2856061

https://www.phoenixcontact.com/au/products/2856061

## 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
sulation characteristics	
Overvoltage category	III
Pollution degree	2

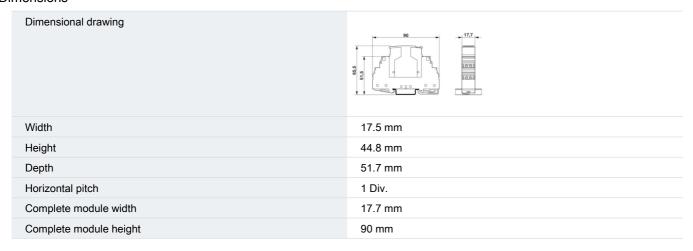
## Electrical properties

Nominal voltage U <sub>N</sub>	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 mm² 2.5 mm²
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section AWG	24 12

## Dimensions





2856061

https://www.phoenixcontact.com/au/products/2856061

Complete module depth	65.5 mm
aterial specifications	
Color	black (RAL 9005)
	Copper
Flammability rating according to UL 94	V-0
Housing material	PA 6.6
echanical properties	
Mechanical 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 <sub>C</sub>	6 V DC
	4 V AC
Rated current	300 mA (45 °C)
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 1 mA
Residual current I <sub>PE</sub>	≤ 1 µA (with PT 2X1+F-BE)
	≤ 2 mA (Directly grounded)
Nominal discharge current I <sub>n</sub> (8/20) µs (line-ground)	10 kA
Pulse discharge current I <sub>imp</sub> (10/350) μs	2.5 kA (per path)
Total discharge current I <sub>total</sub> (8/20) μs	20 kA
Max. discharge current I <sub>max</sub> (8/20) µs maximum (line-earth)	10 kA
Nominal pulse current lan (10/1000) µs (line-earth)	125 A
Output voltage limitation at 1 kV/µs (line-earth) spike	≤ 14 V
	≤ 600 V (with PT 2X1+F-BE)
Output voltage limitation at 1 kV/µs (line-earth) static	≤ 10 V
Residual voltage at I <sub>n</sub> (conductor-ground)	≤ 10 V
Residual voltage with Ian (10/1000) µs (line-earth)	≤ 12 V
Voltage protection level U <sub>p</sub> (line-earth)	≤ 50 V (C2 - 10 kV / 5 kA)
Response time t <sub>A</sub> (line-earth)	≤ 1 ns
Input attenuation aE, asym.	0.5 dB (≤ 200 kHz)
Cut-off frequency fg (3 dB), asym. (PE) in 50 $\Omega$ system	typ. 1 MHz
Capacity (Core-Earth)	3 nF
Resistance per path	4.7 Ω (1-2/5-6/7-8/11-12)
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



2856061

https://www.phoenixcontact.com/au/products/2856061

	Degree of protection	IP20
	Ambient temperature (operation)	-40 °C 85 °C
Standards and regulations		
	VDE requirement class	C1
		C2
		C3
		D1
ļ	Air clearances and creepage distances	
	Standards/regulations	VDE 0110-1 / IEC 60664-1
9	Standards Information technology specification	
	Standards/regulations	IEC 61643-21
		DIN EN 61643-21
		UL 497B
		IEC 61643-21
		DIN EN 61643-21
		UL 497B
	Standards/specifications	IEC 61643-21
	Note	2000
Мо	unting	
	Mounting type	on base element

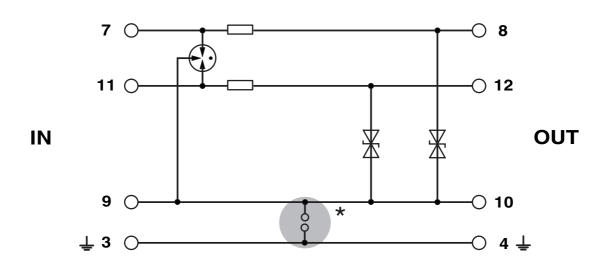


https://www.phoenixcontact.com/au/products/2856061

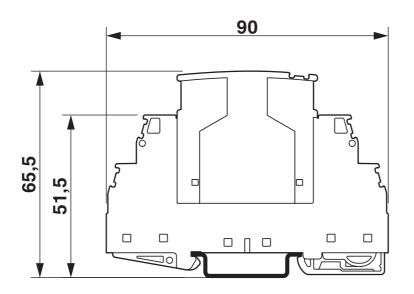


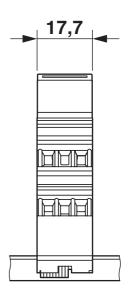
## Drawings

### Circuit diagram



## Dimensional drawing





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



2856061

https://www.phoenixcontact.com/au/products/2856061

## **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/2856061

F	п	F	
L	ш		
	п		
L		L	

**EAC** 

Approval ID: RU C-DE.\*09.B.00169

<u> </u>	<b>UL Listed</b> Approval ID: FILE E 138168				
		Nominal voltage U <sub>N</sub>	Nominal current I <sub>N</sub>	Cross section AWG	Cross section mm <sup>2</sup>
		5 V	0.3 A	-	-

•	cUL Listed
	Approval ID: FILE E 333250



#### **cULus Listed**



2856061

https://www.phoenixcontact.com/au/products/2856061

## Classifications

## **ECLASS**

	ECLASS-11.0	27130807
	ECLASS-13.0	27171501
ΕΊ	ГІМ	
	ETIM 9.0	EC001625
U	NSPSC	
	UNSPSC 21.0	39121600



2856061

https://www.phoenixcontact.com/au/products/2856061

## 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"

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

PHOENIX CONTACT PTY Ltd Unit 7, 2-8 South Street Rydalmere NSW 2116 1300 786 411 customerservice@phoenixcontact.com.au