

1316312

https://www.phoenixcontact.com/au/products/1316312

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 with filter function for a 2-wire floating signal circuit, e.g., 0(4) ... 20 mA current loop, HART-compatible.

### Your advantages

- · Space-saving and cost-saving with a narrow overall width of just 6 mm
- · Quick and tool-free installation of surge protective devices, thanks to Push-in connection technology
- Finding the right product for all possible requirements in MCR applications is easy, thanks to the complete range of products with customized features

#### Commercial data

Item number	1316312
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CLC142
Product key	CLC142
GTIN	4063151598587
Weight per piece (including packing)	34.7 g
Weight per piece (excluding packing)	34.7 g
Customs tariff number	85363010
Country of origin	DE



1316312

https://www.phoenixcontact.com/au/products/1316312

### Technical data

#### Product properties

EMC filters		
TERMITRAB complete		
C1		
C3		
DIN rail module, one-piece		
Insulation characteristics		
III		
2		

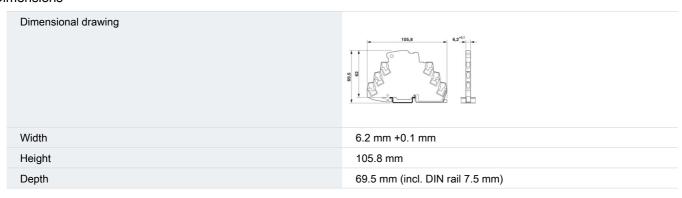
#### Electrical properties

Nominal voltage U <sub>N</sub>	24 V DC

#### Connection data

Connection method	Push-in connection
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 14

#### **Dimensions**



## Material specifications

Color	gray (RAL 7042)
	light gray (RAL 7035)
Flammability rating according to UL 94	V-0
Insulating material	PBT
Housing material	PBT

#### Mechanical properties

Μe	cha	nica	l da	ıta
	, Oi iu	iiiou	· uu	ııu

Open side panel	No



1316312

https://www.phoenixcontact.com/au/products/1316312

### Protective circuit

Maximum continuous voltage U <sub>C</sub>	38 V DC
	30 V AC
Rated current	500 mA
Operating effective current I <sub>C</sub> at U <sub>C</sub>	≤ 0.1 µA
Protective conductor current I <sub>PE</sub>	≤ 10 µA
Nominal discharge current I <sub>n</sub> (8/20) µs (line-ground)	350 A
Total discharge current I <sub>Total</sub> (8/20) μs	700 A
Voltage protection level U <sub>p</sub> (line-earth)	≤ 80 V (C1 - 0.5 kV / 250 A)
	≤ 80 V (C3 - 20 A)
Response time t <sub>A</sub> (line-earth)	≤ 25 ns
Input attenuation aE, sym.	typ. 0.3 dB (≤ 50 kHz / 150 Ω)
Input attenuation aE, asym.	typ. 0.3 dB (≤ 30 kHz / 50 Ω)
Cut-off frequency fg (3 dB), sym. in 50 $\Omega$ system	typ. 85 kHz
Cut-off frequency fg (3 dB), sym. in 150 $\Omega$ system	typ. 95 kHz
Cut-off frequency fg (3 dB), asym. (PE) in 50 $\Omega$ system	typ. 100 kHz
Capacity (Core-Earth)	50 nF (±30 %)
Inductivity in series	100 μH (±30 %)
Resistance per path	typ. 0.35 Ω
Surge protection fault message	none
Max. required back-up fuse	500 mA (FF)
Impulse durability (line-line)	C3 - 20 A
Impulse durability (line-earth)	C1 - 0.5 kV / 250 A
	C3 - 20 A

### 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)
Permissible humidity (operation)	5 % 95 %

### Standards and regulations

Standards/specifications	EN 60939-1
Note	2011
Standards/specifications	EN 60939-2
Note	2006
Standards/specifications	EN 61643-21
Note	2001 + A1:2009 + A2:2013
Standards/specifications	IEC 61643-21
Note	2000 + corrigendum 2001 + A1:2008, modified + A2:2012



1316312

https://www.phoenixcontact.com/au/products/1316312

### Mounting

Mounting type DIN rail: TH 35 - 7.5 mm

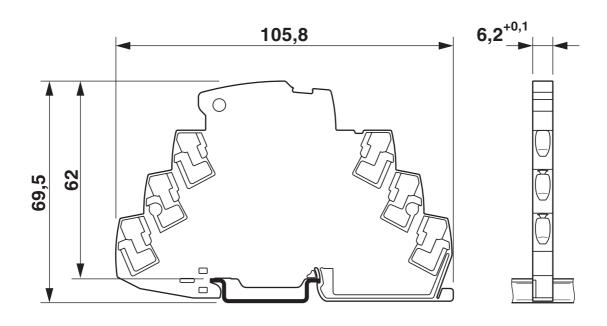


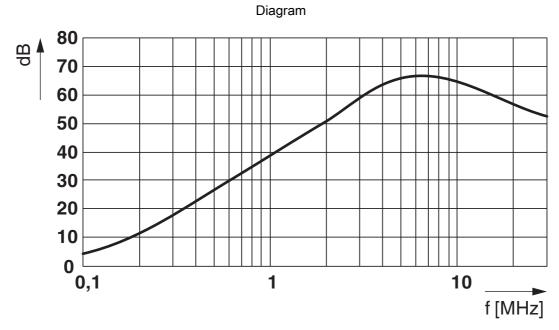
1316312

https://www.phoenixcontact.com/au/products/1316312

## Drawings

### Dimensional drawing



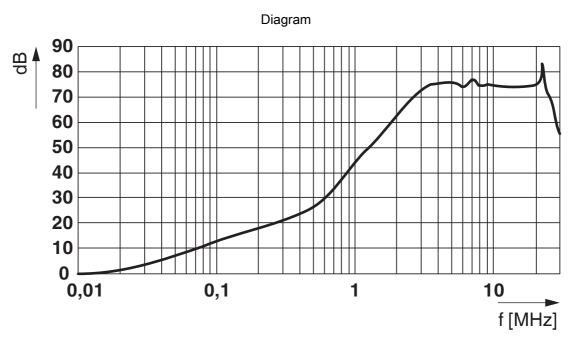


Frequency-response curve symmetrical (50 ohms)

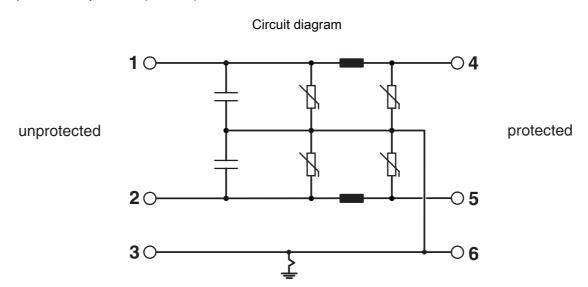


1316312

https://www.phoenixcontact.com/au/products/1316312



Frequency-response curve asymmetrical (150 ohms)





1316312

https://www.phoenixcontact.com/au/products/1316312

### **Approvals**

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/1316312



**DNV GL** 

Approval ID: TAE000027G



1316312

https://www.phoenixcontact.com/au/products/1316312

## Classifications

ECLASS		
	ECLASS-13.0	27420290
ΕΊ	ГІМ	
	ETIM 9.0	EC002564

**UNSPSC** 

UNSPSC 21.0 39121600



1316312

https://www.phoenixcontact.com/au/products/1316312

## Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions	
China RoHS		
Environment friendly use period (EFUP)	EFUP-E	
	No hazardous substances above the limits	
EU REACH SVHC		
REACH candidate substance (CAS No.)	No substance above 0.1 wt%	

Phoenix Contact 2025 @ - 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