

1471917

https://www.phoenixcontact.com/au/products/1471917

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.



Single-channel, electronic device protection for 48 V DC loads. Nominal current adjustable from 1-6 A. With floating remote indication contact. Can be combined with CLIPLINE terminal blocks. For installation on DIN rails.

### Your advantages

- Simple application setup due to bridging option to CLIPLINE complete terminal block system
- · More space in the control cabinet: narrowest protection on just 6 mm width
- · Flexible use and reduction of inventory due to adjustable amp values on each device for wide range of applications

#### Commercial data

Item number	1471917
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CLA135
Product key	CLA135
GTIN	4063151880552
Weight per piece (including packing)	33.66 g
Weight per piece (excluding packing)	27.24 g
Customs tariff number	85363010
Country of origin	DE



1471917

https://www.phoenixcontact.com/au/products/1471917

### Technical data

#### Notes

#### General

Note	Repeated hard short circuits can reduce the melting integral of the integrated backup fuse.
	This device is not a switching device acc. to UL508

### Product properties

Product type	Device circuit breakers
Product family	PTCB
Туре	DIN rail module, one-piece
Number of positions	1
Insulation characteristics	
Protection class	III
Pollution degree	2

#### Electrical properties

#### General

30 V DC 56 V DC  48 V DC  20 A DC (Total current input)
20 A DC (Total current input)
20 A DO (Total current input)
6 A DC (Rated current output)
1 / 2 / 3 / 4 / 5 / 6 A DC (adjustable)
4 A
0.5 kV
E (electronic)
max. 60 V DC
Only required if I <sub>max</sub> of the power supply > the short-circuit switching capacity. Integrated failsafe element.
300 A
max. 60 V DC (Load circuit)
electronic
> 99 %
typ. 10 mA
typ. 0.5 W (No-load operation)
< 2.3 W (Nominal operation)
< 350 ms
5 s (at overload / short circuit)
± 15 %
12 A (Total current at 60°C)
20 A (Total current at 30°C)



1471917

https://www.phoenixcontact.com/au/products/1471917

	6 A (Channel current at 60°C)
	4 A (Channel current at 30°C)
MTBF (IEC 61709, SN 29500)	18684603 h (at 25 °C with 21 % load)
	6612007 h (at 40°C with 34.25% load)
	1140836 h (at 30° C with 100 % load)
Voltage drop	0.3 V (at 6 A)
Fail-safe element	15 A DC
Contact switching type	without electrical isolation
oad circuit	
Shutdown time	≤ 10 ms (For short circuit > 3.0 x I <sub>N</sub> )
	≤ 50 ms (with overload >2.0 x I <sub>N</sub> )
	≤ 1 s (with overload 1.52.0 x I <sub>N</sub> )
	≤ 4 s (with overload 1.11.5 x I <sub>N</sub> )
Undervoltage switch-off	≤ 28.5 V DC (active)
	≥ 29.5 V DC (inactive)
Overvoltage switch-off	≥ 56.5 V DC (active)
	≤ 55.5 V DC (inactive)
Max. capacitive load	10000 μF (Depending on the current setting and the available short-circuit current, e.g., 3 mF at 48 V DC and 0.1 ohm cable)
ndicator/remote signaling	
Connection name	Remote indication circuit
Switching function	N/O contact
Operating voltage	0 V DC 56 V DC
Operating current	100 mA DC

#### Connection data

#### Main circuit IN+

Connection method	Push-in connection
Stripping length	8 mm
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
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.2 mm² 2.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm <sup>2</sup> 2.5 mm <sup>2</sup>

#### Main circuit IN-

Connection method	Push-in connection
Stripping length	8 mm
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
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.2 mm² 2.5 mm²



1471917

Height Depth

https://www.phoenixcontact.com/au/products/1471917

Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm² 2.5 mm²
Main circuit OUT	
Connection method	Push-in connection
Stripping length	8 mm
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
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.2 mm² 2.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm² 2.5 mm²
Remote indication circuit	
Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section flexible	0.2 mm² 2.5 mm²
Conductor cross section rigid	0.2 mm² 4 mm²
Conductor cross section AWG	24 14
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.2 mm² 2.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.2 mm² 2.5 mm²
naling	
Channel LED off	off (Channel switched off)
Channel LED yellow	lit (Channel switched on, channel load > 80%)
	flashing (Programming mode active)
Channel LED green	lit (Channel switched on)
Channel LED red	lit (Channel switched off, over- or undervoltage active)
	ON temporarily (Channel switched off, 5 s cool-down phase, overload or short-circuit release)
	flashing (Channel switched off, ready to be switched back on, overload or short-circuit release)
	flashing quickly (Channel switched off, external voltage at the output, possible installation error)
Channel LED red-yellow	flashing (Overtemperature)
nensions	
Dimensional drawing	105.8
Width	6.2 mm
	· · ·

105.8 mm

55.6 mm (incl. DIN rail 7.5 mm)



1471917

https://www.phoenixcontact.com/au/products/1471917

### Material specifications

Color	gray (RAL 7042)
Material	PBT
	PBT
Flammability rating according to UL 94	V-0

#### Environmental and real-life conditions

#### Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-30 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Altitude	≤ 3000 m up to 52 °C (amsl)
	≤ 4000 m up to 46 °C (amsl)
Humidity test	96 h, 95 % RH, 40 °C
Shock (operation)	30g (IEC 60068-2-27, Test Ea)
Vibration (operation)	10 Hz 59.6 Hz (Amplitude ±0.35 mm; in accordance with IEC 60068-2-6, Test Fc)
	59.6 Hz 150 Hz (Acceleration 5g; in accordance with IEC 60068-2-6, Test Fc)
	5 Hz 100 Hz (Resonance search 4g; resonance frequency 4g; 90 min in accordance with DNV GL Class B)

### Approvals

#### UL approval

• •	
Identification	UL/C-UL Listed UL 508
	UL Recognized UL 2367

### Standards and regulations

Standards/specifications	EN 61000-6-2
Note	EMC – Immunity for industrial areas
Standards/specifications	EN 61000-6-3
Note	EMC – Emission for residential, business and commercial properties and small operations
Standards/specifications	EN 60068-2-78
Note	Environmental influences – Moisture and heat, constant
Standards/specifications	EN 50178
Note	Equipping power installations with electronic equipment
Standards/specifications	EN 60068-2-6
Note	Environmental influences – Vibrations (sinusoidal)
Standards/specifications	EN 60068-2-27
Note	Environmental influences – Shocks
Standards/specifications	EN 60068-2-30
Note	Environmental influences – Part 2–30: Tests – Test Db: Damp heat, cyclical



1471917

https://www.phoenixcontact.com/au/products/1471917

### Mounting

Mounting type	DIN rail: 35 mm
---------------	-----------------

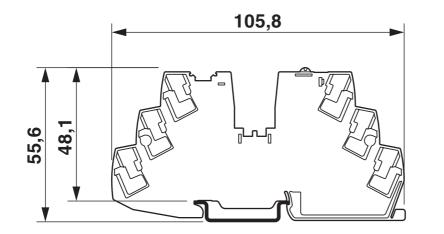


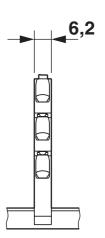
1471917

https://www.phoenixcontact.com/au/products/1471917

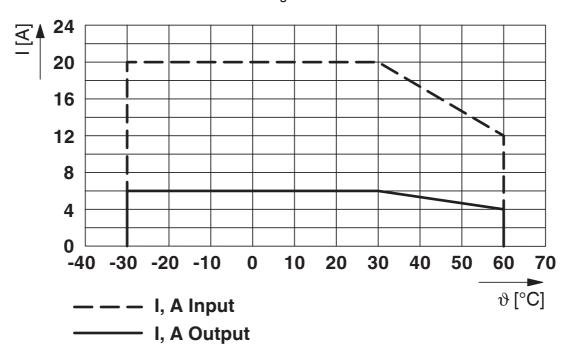
## **Drawings**

#### Dimensional drawing





#### Diagram

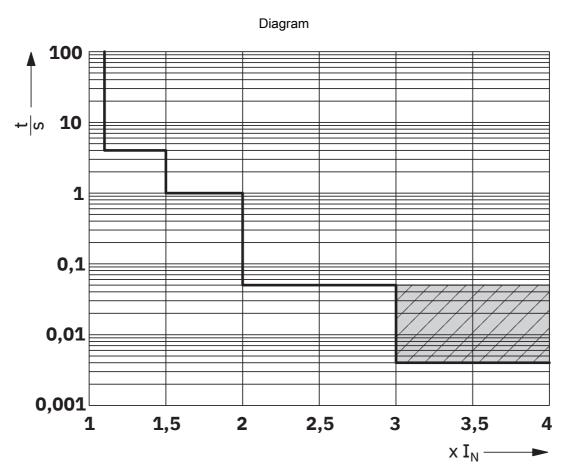


Total current of input and channel current of output



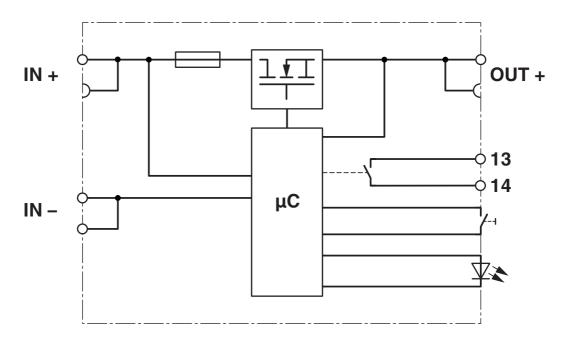
1471917

https://www.phoenixcontact.com/au/products/1471917



Trigger characteristic in the DC range

### Block diagram





1471917

https://www.phoenixcontact.com/au/products/1471917

### **Approvals**

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/au/products/1471917



**UL Listed** 

Approval ID: E123528



cUL Listed





**UL Recognized**Approval ID: E317172



1471917

https://www.phoenixcontact.com/au/products/1471917

## Classifications

#### **ECLASS**

	ECLASS-13.0	27140401		
ΕΊ	ETIM			
	FTIM 9 0	FC003538		



1471917

https://www.phoenixcontact.com/au/products/1471917

## 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)

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