

2908262

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1-channel, electronic circuit breaker for protecting loads at 24 V DC against overload and short circuit. Easy potential distribution with components from the CLIPLINE complete terminal block system. With electronic interlock of the set nominal currents. 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
- · Individual setup for suitable protection, exactly according to your requirements

Commercial data

Item number	2908262
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CLA135
Product key	CLA135
Catalog page	Page 381 (C-4-2019)
GTIN	4055626323763
Weight per piece (including packing)	34.5 g
Weight per piece (excluding packing)	34.5 g
Customs tariff number	85363010
Country of origin	DE



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Technical data

Notes

Ge	-	 _

Constan	
Note	EN 50121-3-2: Railway applications - Electromagnetic compatibility - Part 3-2: Rolling stock – Apparatus
	Connection for signal line tested in accordance with EN 61000-4- 4 with 1 kV; if necessary, customer must provide appropriate protective measures
	Repeated hard short circuits can reduce the melting integral of the integrated backup fuse.

Product properties

Product type	Device circuit breakers
Product family	PTCB
Туре	DIN rail module, one-piece
Number of positions	1
No. of channels	1
NO. Of Granners	'
Data management status	·
	14
Data management status	14
Data management status Article revision	14 III

Electrical properties

General

Operating voltage	18 V DC 30 V DC
Rated voltage	24 V DC
Rated current I _N	24 A DC (Total current input)
	8 A DC (Rated current output)
Rated current I _N	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 A DC (adjustable)
Rated current (pre-adjusted)	4 A
Rated surge voltage	0.5 kV
Tripping method	E (electronic)
Feedback resistance	max. 35 V DC
Required backup fuse	Only required if I _{max} of the power supply > the short-circuit switching capacity. Integrated failsafe element.
Short-circuit switching capacity	300 A
Dielectric strength	max. 35 V DC (Load circuit)
Fuse	electronic
Efficiency	> 99 %
Closed circuit current I ₀	typ. 12 mA
Power dissipation	typ. 0.3 W (No-load operation)



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	< 1.6 W (Nominal operation)
Module initialization time	< 0.55 s
Waiting time after switch off of a channel	5 s (at overload / short circuit)
Measuring tolerance I	± 15 %
Temperature derating	21 A (Total current at 60°C)
	24 A (Total current at 50°C)
	7 A (Channel current at 60°C)
	8 A (Channel current at 50°C)
MTBF (IEC 61709, SN 29500)	25641025 h (at 25 °C with 21 % load)
	10989010 h (at 40°C with 34.25% load)
	1149425 h (at 55°C with 100% load)
Voltage drop	0.13 V (at 8 A)
Fail-safe element	15 A DC
ad circuit	
Shutdown time	≤ 10 ms (for short circuit > 2.0 x I _N)
	1 s (1.2 2.0 x I _N)
Undervoltage switch-off	≤ 17.8 V DC (active)
	≥ 18.8 V DC (inactive)
Overvoltage switch-off	≥ 30.5 V DC (active)
	≤ 29.5 V DC (inactive)
Max. capacitive load	25000 µF (Depending on the current setting and the short-circui current available)
dicator/remote signaling	
Connection name	Remote indication circuit
Switching function	N/O contact
Operating voltage	0 V DC 30 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 mm² 2.5 mm²

Main circuit IN-

Connection method	Push-in connection
Stripping length	8 mm
Conductor cross section flexible	0.2 mm² 2.5 mm²



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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 mm ² 2.5 mm ²
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	10 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

Signaling

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)

Dimensions

Dimensional drawing	955
Width	6.2 mm
Height	105.8 mm



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D. II	55.0 vvv (vvl 201 - 17.5 v
Depth	55.6 mm (incl. DIN rail 7.5 mm)
terial specifications	
Color	gray (RAL 7042)
Material	PBT
	PBT
Flammability rating according to UL 94	V-0
vironmental 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 4 90 min in accordance with DNV GL Class B)
provals	
510 valu	
JL approval	
Identification	UL/C-UL Listed UL 508
	UL Recognized UL 2367
	UL/C-UL Listed ANSI/UL 121201 Class I, Division 2, Groups A B, C, D; T4 (Hazardous Location)
shipbuilding approval	
Identification	DNV GL
Corrosive gas test	
Identification	ISA S71.04.2013 G3 Harsh Group A
DNV GL data	
Temperature	D
Humidity	В
Vibration	В
EMC	В
Enclosure	A
andards and regulations	T 11 0 1000 0 0
Standards/specifications	EN 61000-6-2



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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
Standards/specifications	EN 61373
Note	Railway applications - Rolling stock equipment - Shock and vibration tests
Standards/specifications	EN 45545-2
Note	Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behavior of materials and components

Mounting

Mounting type	DIN rail: 35 mm



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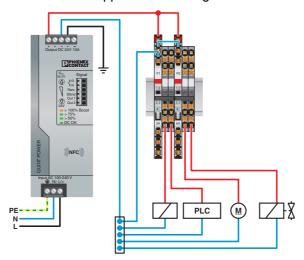
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Drawings

Product drawing



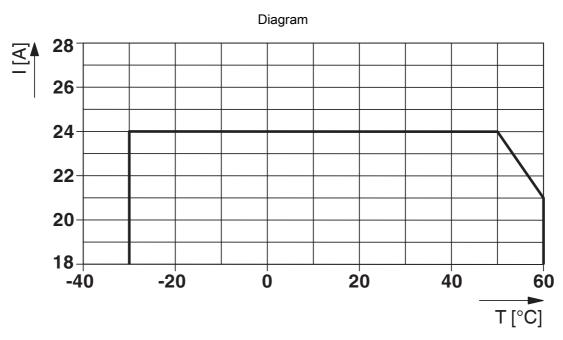
Application drawing





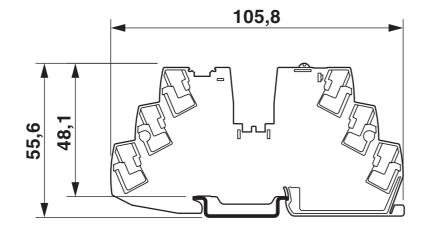
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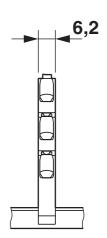
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Total current input

Dimensional drawing

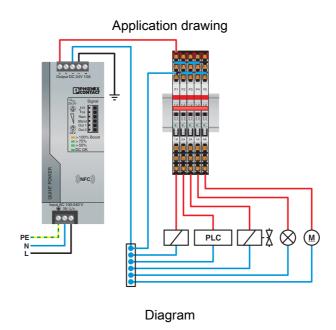


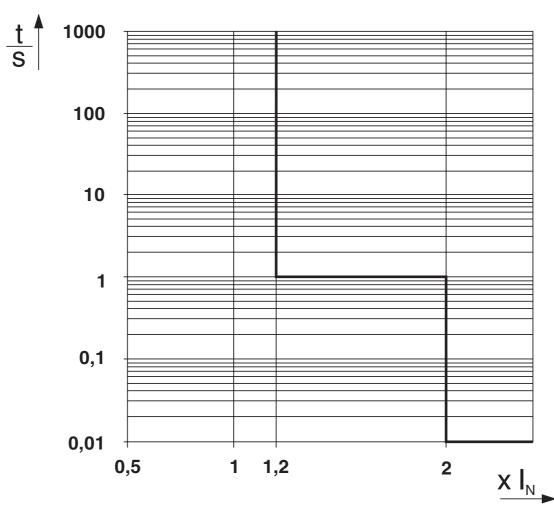




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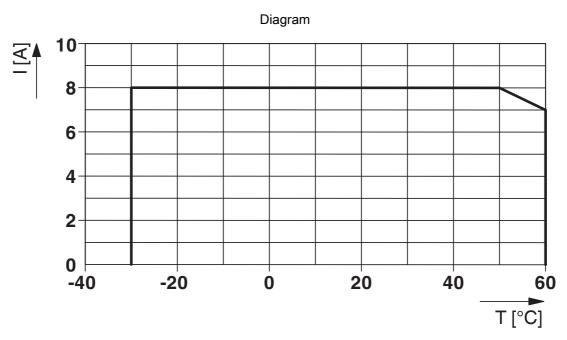


Trigger characteristic in the DC range



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Channel current output

Block diagram

