

1065727

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Multi-channel electronic circuit breaker for protecting four loads at 24 V DC in the event of overload or short circuit. With status output, reset input, and electronic locking of the set nominal currents. For installation on DIN rails.

Your advantages

- · Easy device replacement without replanning, thanks to compact design and options for individual adjustments
- · Circuits can be adjusted without any tools by means of one single pushable LED button
- · Enhanced diagnostic and control options, thanks to integrated status output and reset input
- · Optimum protection for cables and sensors as well as NEC Class 2 circuits by means of an additional internal output fuse
- · Reliable protection against unintentional adjustment of current values, thanks to electronic locking
- Status LEDs in traffic light colors enable instantaneous determination of operating states

Commercial data

Item number	1065727
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CL14
Product key	CLA152
Catalog page	Page 374 (C-4-2019)
GTIN	4055626728780
Weight per piece (including packing)	140.6 g
Weight per piece (excluding packing)	123.61 g
Customs tariff number	85362010
Country of origin	DE



1065727

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Technical data

Notes

General

Note	Repeated hard short circuits can reduce the melting integral of
	the integrated backup fuse.

Product properties

Product type	Device circuit breakers
Product family	CBMC
Туре	DIN rail module, one-piece
Number of positions	1
No. of channels	4
Data management status	
Article revision	06

Insulation characteristics

Protection class	III
Pollution degree	2

Electrical properties

General

Operating voltage	18 V DC 30 V DC
Rated voltage	24 V DC
Rated current I _N	max. 16 A DC (IN+)
	max. 40 A DC (per terminal position when bridging additional devices via IN+)
Rated current I _N	1 / 2 / 3 / 4 A DC (adjustable per output channel)
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. 25 mA
Power dissipation	typ. 0.6 W (No-load operation)
	< 4 W (Nominal operation)
Module initialization time	1.6 s
Waiting time after switch off of a channel	5 s (at overload / short circuit)



1065727

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Measuring tolerance I	± 15 %
MTBF (IEC 61709, SN 29500)	11764705 h (at 25 °C with 21 % load)
	5319148 h (at 40°C with 34.25% load)
	846023 h (at 60°C with 100% load)
Fail-safe element	4 A DC (per output channel)
pad 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	30000 μF (Depending on the current setting and the short-circuit current available)
Switch-on delay	0.1 s (per output channel)
eset	7 V DC 20 V DC (Decet with falling edge)
Input voltage range	7 V DC 30 V DC (Reset with falling edge)
Current consumption	typ. 0.4 mA (at 24 V DC)
Pulse length	≥ 50 ms (High)
Voltage	≥ 50 ms (Low)
Voltage	< 5 V DC (Low state)
Stripping longth	> 8 V DC (High state)
Stripping length	0.2 mm ² 2.5 mm ²
Conductor cross section rigid	24 12
Conductor cross section AWG	
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 1.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 2.5 mm ²
tatus output	
Output voltage	24 V DC
Output current	max. 0.04 A (Short-circuit-proof)
Stripping length	10 mm
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²

Connection data

Main circuit IN+

Connection method	Push-in connection
Stripping length	15 mm
Conductor cross section rigid	0.2 mm² 10 mm²



1065727

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Conductor cross section AWG	24 8
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 4 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 6 mm²
Main circuit IN-	
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
Main circuit OUT+	
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
ignaling	
Channel LED off	off (Channel switched off)
Channel LED yellow	lit (Channel switched on, channel load > 80%)
	flashing (Programming mode active)
Channel I FD green	lit (Channel switched on)

Si

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)
	two flashes (Channel switched off, device total current limit 40 A exceeded)

Dimensions

Dimensional drawing	98
Width	36 mm
Height	90 mm
Depth	98 mm (incl. DIN rail 7.5 mm)



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Material specifications

Color	light gray (RAL 7035)
Material	PC
	PA 6.6
	PA 6.3T
	POM
Flammability rating according to UL 94	V-0

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
Ambient temperature (operation)	-25 °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 57.6 Hz (Amplitude ±0.35 mm; in accordance with IEC 60068-2-6, Test Fc)
	57.6 Hz 150 Hz (Acceleration 5g; in accordance with IEC 60068-2-6, Test Fc)

Approvals

UL approval

0_ app. 0.a.		
Identification	UL/C-UL Listed UL 508	
	UL Recognized UL 2367	
	NEC Class 2 according to UL 1310	
Corrosive gas test		
Identification	ISA S71.04.2013 G3 Harsh Group A	

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 60068-2-6
Note	Environmental influences – Vibrations (sinusoidal)
Standards/specifications	EN 60068-2-27
Note	Environmental influences – Shocks
Standards/specifications	EN 60068-2-78
Note	Environmental influences – Moisture and heat, constant
Standards/specifications	EN 50178



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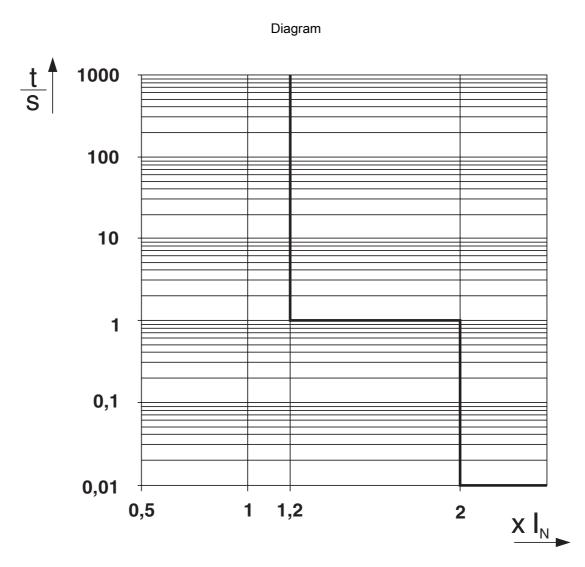
	Note	Equipping power installations with electronic equipment	
Mounting			
	Mounting type	DIN rail: 35 mm	



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Drawings



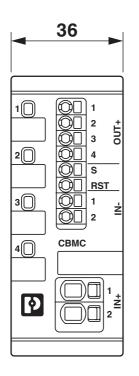
Trigger characteristic in the DC range

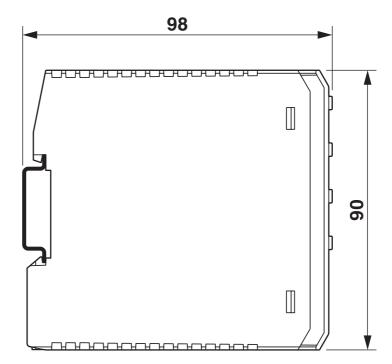


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Dimensional drawing

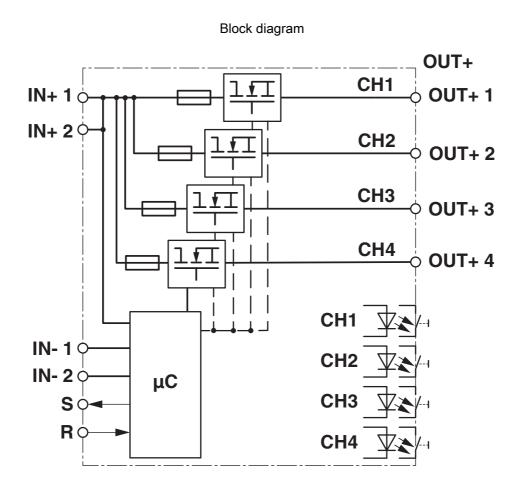






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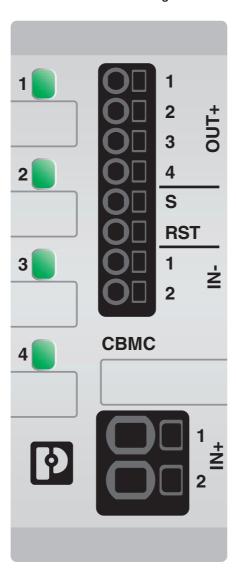




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Product drawing





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Approvals

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UL Recognized

Approval ID: FILE E 317172



UL Listed

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Classifications

ECLASS

	ECLASS-11.0	27140401		
	ECLASS-12.0	27140401		
	ECLASS-13.0	27140401		
ETIM				
ETIM				
	ETIM 9.0	EC003538		
UNSPSC				
	UNSPSC 21.0	39121400		
	UN3F3C 21.0	39121400		



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Environmental product compliance

EU RoHS

Yes
7(a), 7(c)-I
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.
Lead(CAS: 7439-92-1)
Perfluorobutane sulfonic acid (PFBS) and its salts(CAS: n/a)
facb4acb-85c3-482f-af10-0faa16c385ef

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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com