

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	CLA152
Product key	CLA152
GTIN	4055626728780
Weight per piece (including packing)	129.7 g
Weight per piece (excluding packing)	123.61 g
Customs tariff number	85362010
Country of origin	DE



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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
Insulation characteristics	
Protection class	III

2

### Electrical properties

Pollution degree

#### General

Operating voltage	18 V DC 30 V DC
Rated voltage	24 V DC
Rated current I <sub>N</sub>	max. 16 A DC (IN+)
	max. 40 A DC (per terminal position when bridging additional devices via IN+)
Rated current I <sub>N</sub>	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 <sub>max</sub> 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 <sub>0</sub>	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)
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)



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	846023 h (at 60°C with 100% load)
Fail-safe element	4 A DC (per output channel)
Contact switching type	without electrical isolation
Contact Switching type	William George Isolaton
pad circuit	
Shutdown time	≤ 10 ms (for short circuit > 2.0 x I <sub>N</sub> )
	1 s (1.2 2.0 x I <sub>N</sub> )
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 $\mu\text{F}$ (Depending on the current setting and the short-circuit current available)
Switch-on delay	0.1 s (per output channel)
eset	
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)
	≥ 50 ms (Low)
Voltage	< 5 V DC (Low state)
	> 8 V DC (High state)
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
atus 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
Conductor cross section AWG	24 8
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 4 mm²



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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 mm <sup>2</sup> 2.5 mm <sup>2</sup>
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 mm <sup>2</sup> 2.5 mm <sup>2</sup>
gnaling	
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)
mensions	
Dimensional drawing	98

### Material specifications

Height

Depth

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90 mm

98 mm (incl. DIN rail 7.5 mm)



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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

Identification	UL/C-UL Listed UL 508
	UL Recognized UL 2367
	NEC Class 2 according to UL 1310
Corrective age test	
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
Note	Equipping power installations with electronic equipment

### Mounting



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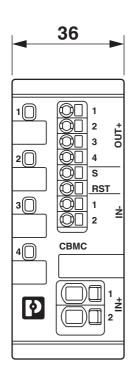


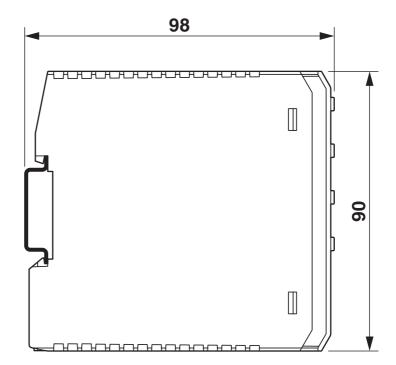
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## Drawings

## Dimensional drawing



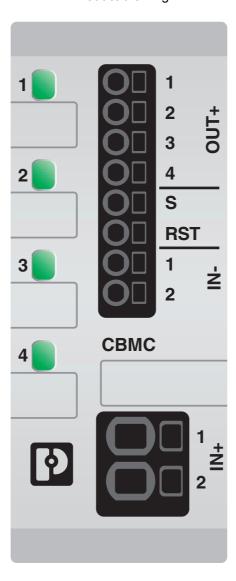




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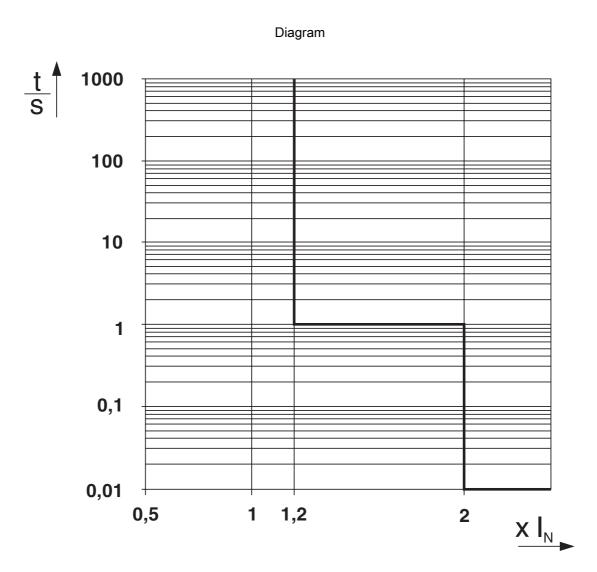
### Product drawing





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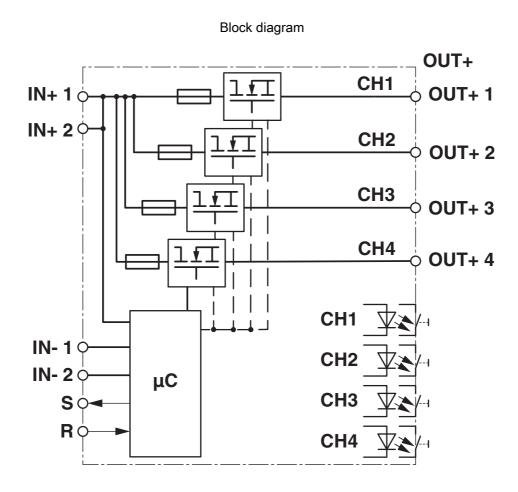


Trigger characteristic in the DC range



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### **Approvals**

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**UL Recognized** 

Approval ID: FILE E 317172



**UL Listed** 

Approval ID: E123528



cUL Listed

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### Classifications

#### **ECLASS**

	ECLASS-13.0	27140401			
	ECLASS-15.0	27140401			
ΕΊ	ETIM				
	ETIM 9.0	EC003538			
UNSPSC					
	UNSPSC 21.0	39121400			



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### 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)		
	Perfluorobutane sulfonic acid (PFBS) and its salts(CAS: n/a)		
SCIP	facb4acb-85c3-482f-af10-0faa16c385ef		
SCIP EF3.0 Climate Change	facb4acb-85c3-482f-af10-0faa16c385ef		

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