CBMC EG4 24DC/1-8A NO - Electronic circuit breaker

1065730

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Multi-channel electronic circuit breaker with electrical isolation for protecting four loads at 24 V DC in the event of overload or short circuit. With 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
- System safety is increased during maintenance work thanks to disconnection via electrical isolation
- Safe system operation, thanks to patented monitoring of electrical isolation
- Reliable protection against unintentional adjustment of current values, thanks to electronic locking
- Status LEDs in traffic light colors enable instantaneous determination of operating states

ELEKTROGERÄTE RÜCKNAHME

Commercial data

Item number	1065730
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CLA152
Product key	CLA152
GTIN	4055626729312
Weight per piece (including packing)	182.3 g
Weight per piece (excluding packing)	167 g
Customs tariff number	85362010
Country of origin	DE

Technical data

Notes

General

Note	Repeated hard short circuits can reduce the melting integral of the integrated backup fuse.
	Always connect the negative pole to terminal IN- to ensure the internal power supply. Return currents from the loads must not be fed back to the power supply via IN- of the circuit breaker.

Product properties

Product type	Device circuit breakers
Product family	CBMC
Type	DIN rail module, one-piece
Number of positions	1
No. of channels	4

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. 32 A (IN+)
	max. 40 A (per terminal position when bridging additional devices via IN+)
Rated current I_N	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 A DC (adjustable per output channel)
Rated current (pre-adjusted)	4 A
Rated surge voltage	0.5 kV
Tripping method	EG (electronic - galvanic disconnection)
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.
	30 A (gG, supplied with linear power supply, Icn ≥ 200 A)
Short-circuit switching capacity	300 A
Dielectric strength	max. 35 V DC (Load circuit)
Fuse	electronic
Efficiency	> 99 %
Closed circuit current I_0	typ. 75 mA
Power dissipation	typ. 1.8 W (No-load operation)
	< 7 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 %
Temperature derating	25 A DC (at 60 °C)
	28 A DC (at 56 °C)
	32 A DC (at 52 °C)
MTBF (IEC 61709, SN 29500)	5000000 h (at 25 °C with 21 % load)
	2000000 h (at 40°C with 34.25% load)
	321056 h (at 52°C with 100% load)
Fail-safe element	15 A DC (per output channel)
Contact switching type	Relay, N/O contact

Load 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	45000 µF (Depending on the current setting and the short-circuit current available)
Switch-on delay	0.1 s (per output channel)

Indicator/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	15 mm
Conductor cross-section flexible	0.2 mm² ... 6 mm²
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
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

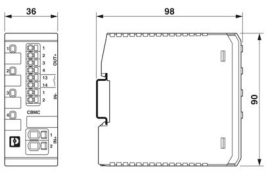
Remote indication circuit

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

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, relay error, overvoltage 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 32 A exceeded)

Dimensions

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

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

Approvals

Corrosive gas test

Identification	ISA S71.04.2013 G3 Harsh Group A

Standards and regulations

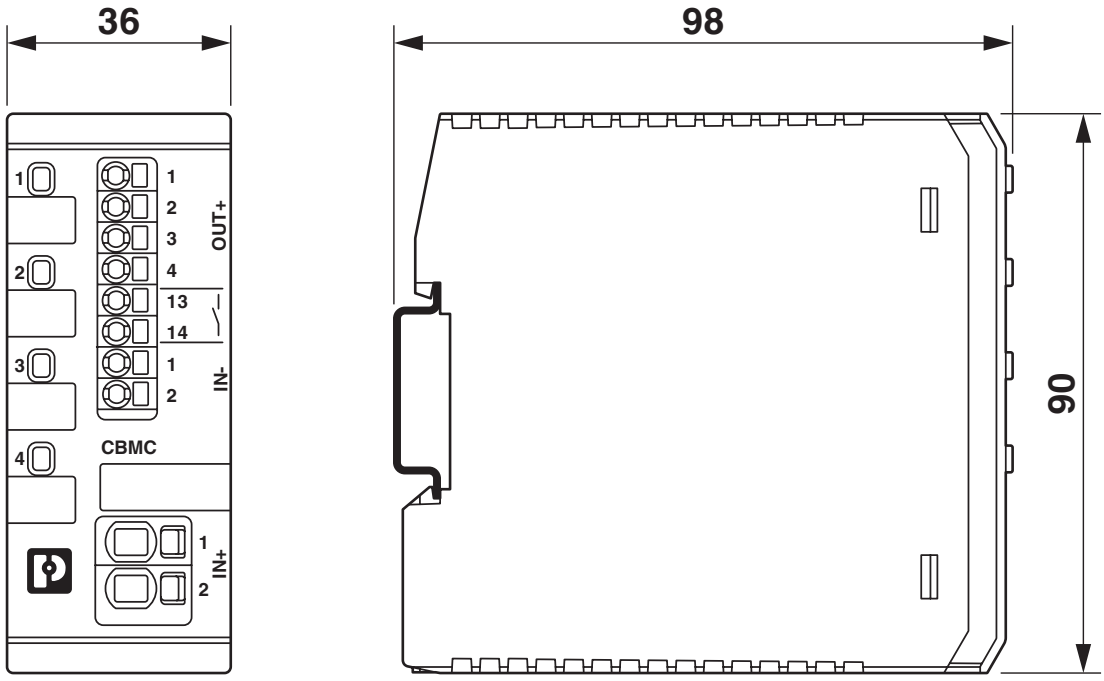
Standards/specifications	EN 61000-6-2
Note	EMC – Immunity for industrial areas
Standards/specifications	EN 61000-6-3
Note	EMC – Emission for residential, business and commercial properties and small operations
Standards/specifications	EN 60068-2-78
Note	Environmental influences – Vibrations (sinusoidal)
Standards/specifications	EN 50178
Note	Equipping power installations with electronic equipment

Mounting

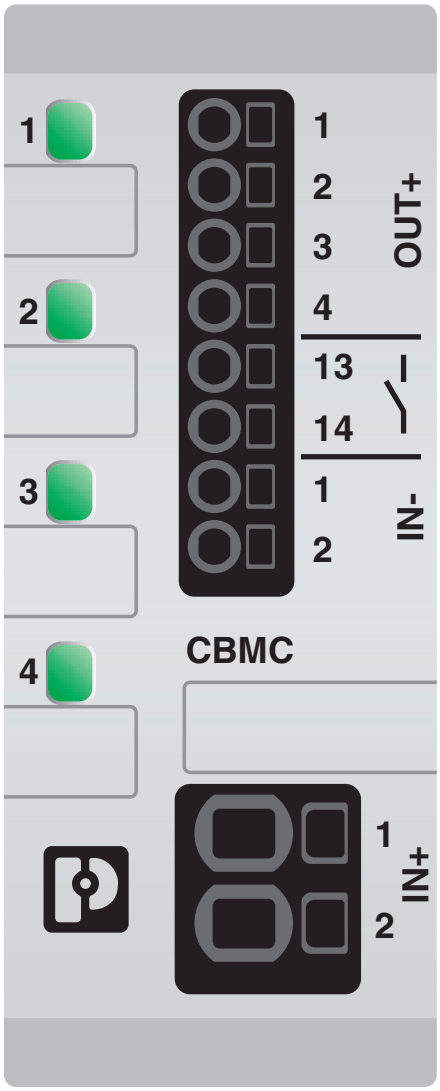
Mounting type	DIN rail: 35 mm

Drawings

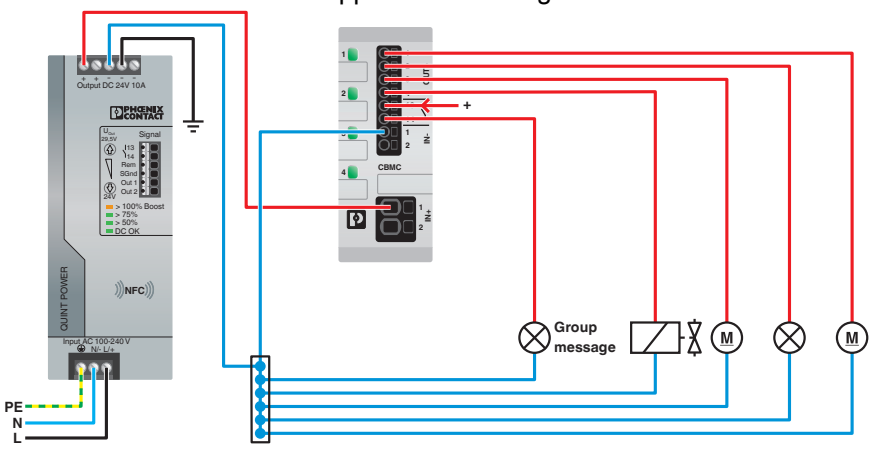
Dimensional drawing



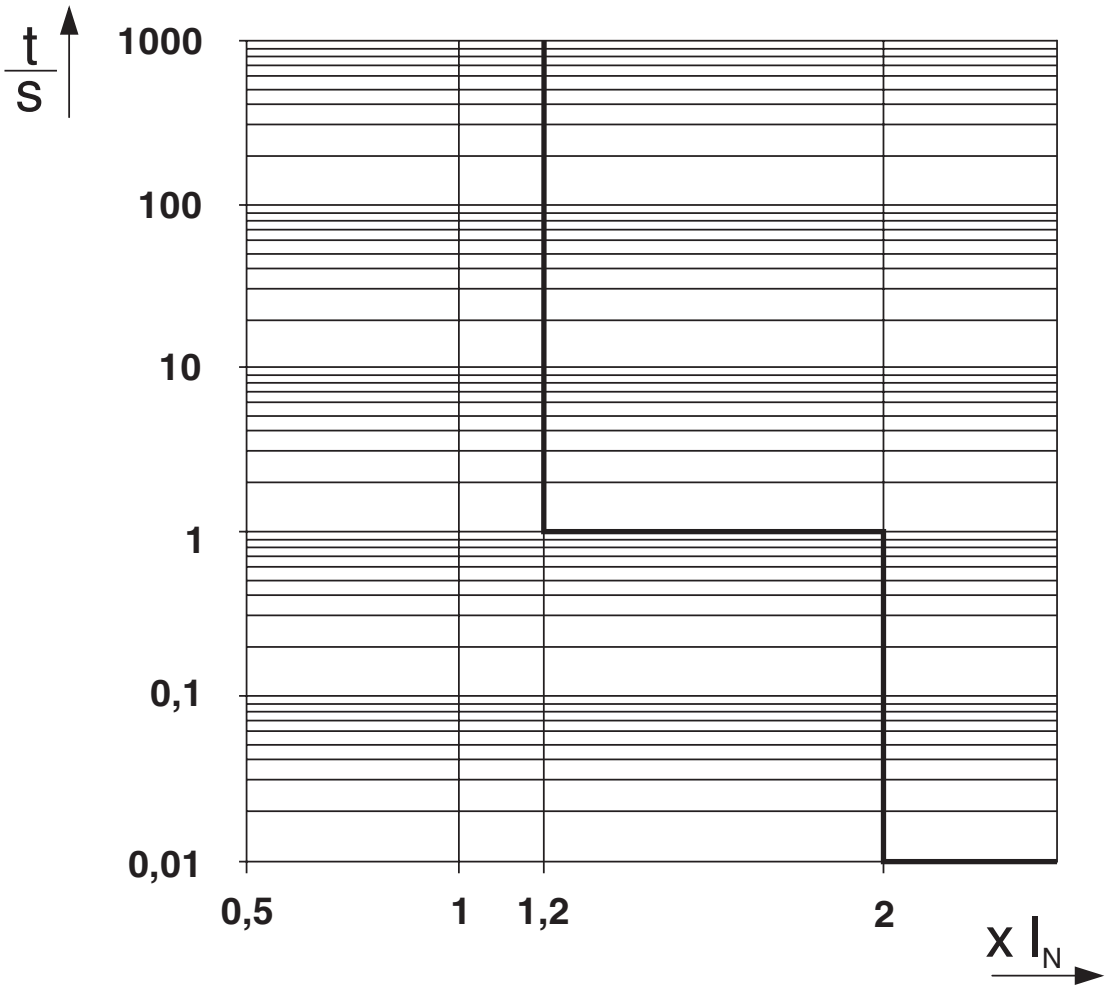
Product drawing



Application drawing

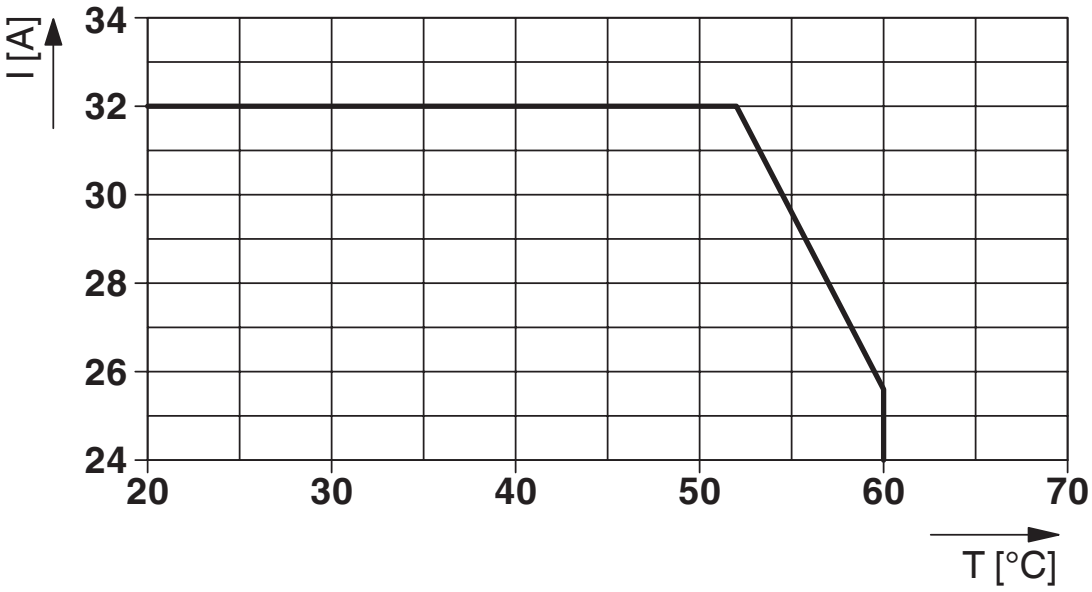


Diagram



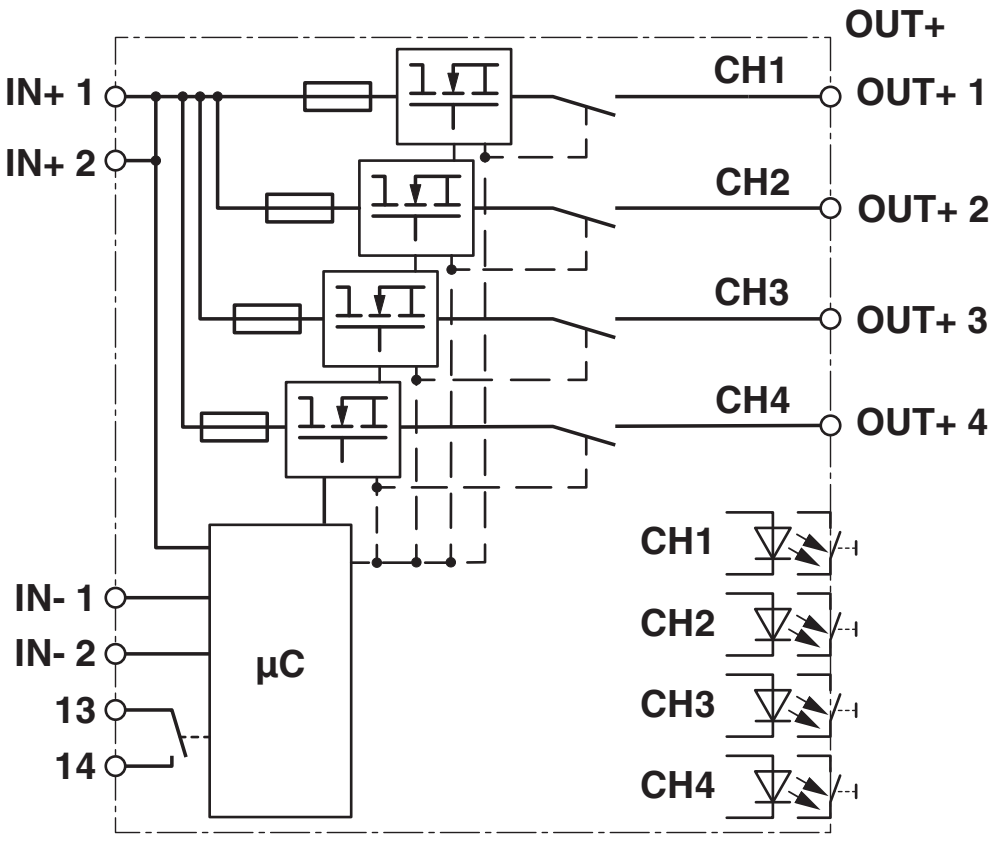
Trigger characteristic in the DC range

Diagram



Max. permissible current in relation to the ambient temperature

Block diagram



Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/gb/products/1065730

UL Recognized
Approval ID: E317172

UL Listed
Approval ID: E123528

cUL Listed
Approval ID: E123528

Classifications

ECLASS

ECLASS-13.0	27140401
ECLASS-15.0	27140401

ETIM

ETIM 10.0	EC003538

UNSPSC

UNSPSC 21.0	39121400

Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I

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	da16fb6d-c2a1-4e67-a0bb-e2eaed2383be

EF3.1 Climate Change

CO2e kg	10.637 kg CO2e

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