CBMC E4 24DC/1-4A NO - Electronic circuit breaker



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Multi-channel electronic circuit breaker for protecting four loads at 24 V DC in the event of overload and 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
- · 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	2906031
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CLA
Product key	CLA152
Catalog page	Page 374 (C-4-2019)
GTIN	4055626149349
Weight per piece (including packing)	133.35 g
Weight per piece (excluding packing)	119.51 g
Customs tariff number	85362010
Country of origin	DE

PHŒN

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Technical data

Notes

General	
Note	Repeated hard short circuits can reduce the melting integral of the integrated backup fuse.
oduct properties	
Туре	DIN rail module, one-piece
Product type	Device circuit breakers
Product family	CBMC
Number of positions	1
No. of channels	4
Insulation characteristics	
Protection class	III
Pollution degree	2
ectrical properties	
No. of channels	4
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)
Measuring tolerance I	± 15 %
	11764705 h (at 25 °C with 21 % load)

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5319148 h (at 40°C with 34.25% load)
846023 h (at 60°C with 100% load)
4 A DC (per output channel)
\leq 10 ms (for short circuit > 2.0 x I _N)
1 s (1.2 2.0 x I _N)
≤ 17.8 V DC (active)
≥ 18.8 V DC (inactive)
≥ 30.5 V DC (active)
≤ 29.5 V DC (inactive)
$30000 \ \mu\text{F}$ (Depending on the current setting and the short-circuit current available)
Remote indication circuit
N/O contact
0 V DC 30 V DC
100 mA DC

Connection data

Main circuit IN+

Connection method	Push-in connection
Stripping length	15 mm
Conductor cross section rigid	0.2 mm ² 10 mm ²
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 mm ² 2.5 mm ²
Conductor cross section AWG	24 12
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 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 mm ² 1.5 mm ²
Conductor cross section flexible, with ferrule without plastic	0.25 mm ² 2.5 mm ²