0903046

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Electronic circuit breaker, 1 reset input, nominal current: 6 A

Your advantages

- · Error-free short-circuit detection even across long cable paths with the electronics characteristic curve
- · Active current limitation to improve the capacity of the upstream power supply
- · Increased system transparency with integrated status output
- · Remote reconnection with the reset function

Commercial data

Item number	0903046
Packing unit	6 pc
Minimum order quantity	6 pc
Sales key	CL04
Product key	CLA131
Catalog page	Page 387 (C-4-2019)
GTIN	4046356466929
Weight per piece (including packing)	67.996 g
Weight per piece (excluding packing)	67.48 g
Customs tariff number	85362010
Country of origin	DE

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Technical data

Notes	
General	 When mounted in rows without convection cooling, the nominal device current should only be led to a maximum of 80% due to the thermal effect during continuous operation (100% operating factor). Special precautionary measures must be taken in systems or machines, to prevent components from restarting (e.g., use of a safety PLC). Parallel connection of multiple circuit breakers is not permitted.
Product properties	
Product type	Device circuit breakers
Product family	EC-E
Туре	DIN rail module, one-piece
Number of positions	1
No. of channels	1
Insulation characteristics	
Degree of pollution	2
Electrical properties	
Fuse type	Automatic device
Switching capacity I _{CN}	Active current limitation
Fuse	electronic
General	
Operating voltage	24 V DC
	18 V DC 32 V DC
Nominal current I _N	6 A
Rated surge voltage	0.5 kV
Tripping method	E (electronic)
Required backup fuse	not required, integrated failsafe element
Dielectric strength	max. 32 V DC (Load circuit)
Switch off	Тур. 1.8 х I _N
Active current limitation	active
Fuse	electronic
Closed-circuit current range I0	typ. 25 mA ±5 mA (When switched on)

Voltage drop

MTBF (IEC 61709, SN 29500)

Load circuit

Max. capacitive load	20000 µF
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7430000 h (at 25 °C with 80 % load) 6590000 h (at 40 °C with 80 % load)

130 mV (at I_N)



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Input voltage	max. 32 V DC
Current consumption	typ. 2.6 mA (at 24 V DC)
Pulse length	min. 10 ms
Voltage	< 3 V DC (Low state)
	> 8 V DC (High state)
Status output	
Output voltage	24 V DC
Output current	max. 0.2 A (Short-circuit-proof)
Indicator/remote signaling	
Connection name	Auxiliary contact
Switching function	Reset input
onnection data	
Nominal cross section	16.00 mm ²
Connection method	Screw connection
Line+ / LOAD+ /0V	
Screw thread	M4
Tightening torque	1.2 Nm
Stripping length	10 mm
Conductor cross section rigid	0.5 mm ² 16 mm ²
Cross section AWG	26 6 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm ² 16 mm ²
Conductor cross section, flexible [AWG]	20 6 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² 10 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm ² 10 mm ²
2 conductors with same cross section, solid	0.5 mm ² 4 mm ²
2 conductors with the same cross-section AWG rigid	20 12 (converted acc. to IEC)
2 conductors with same cross section, flexible	0.5 mm ² 4 mm ²
2 conductors with the same cross-section AWG flexible	20 12 (converted acc. to IEC)
2 conductors with same cross section, flexible, with ferrule without plastic sleeve	0.5 mm² 2.5 mm²
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 6 mm²
Nominal cross section	16 mm ²
Auxiliary contact	
Screw thread	МЗ

Screw Inteau	INIS
Tightening torque	0.5 Nm
Stripping length	8 mm
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² 2.5 mm ²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm ² 2.5 mm ²

Line+/LOAD+/0V

Connection method	Screw connection
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Screw thread	M4
Tightening torque	1.2 Nm
Stripping length	10 mm
Conductor cross section flexible	0.5 mm² 16 mm²
Conductor cross section rigid	0.5 mm² 16 mm²
Conductor cross section AWG	20 6
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.5 mm² 10 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.5 mm² 10 mm²

Auxiliary contact

Connection method	Screw connection
Screw thread	M3
Tightening torque	0.5 Nm
Stripping length	8 mm
Conductor cross section AWG	24 14
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 2.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 2.5 mm ²

Dimensions

Width	12.5 mm
Height	83 mm
Height NS 35/15	90.5 mm
Height NS 35/7,5	83 mm
Depth	80 mm

Material specifications

Color	black (RAL 9005)
Flammability rating according to UL 94	VO

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20 (Housing)
Ambient temperature (operation)	0 °C 50 °C (non-condensing)
Ambient temperature (storage/transport)	-20 °C 70 °C
Humidity test	96 h, 95 % RH, 40 °C

Standards and regulations

Standards/specifications	UL 508
Standards/specifications	CSA 22.2
Note	No. 14
Standards/specifications	UL 2367
Standards/specifications	CSA 22.2
Note	No. 142

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Standards/specifications	CSA 22.2
Note	No. 213
Standards/specifications	UL 1604

Mounting

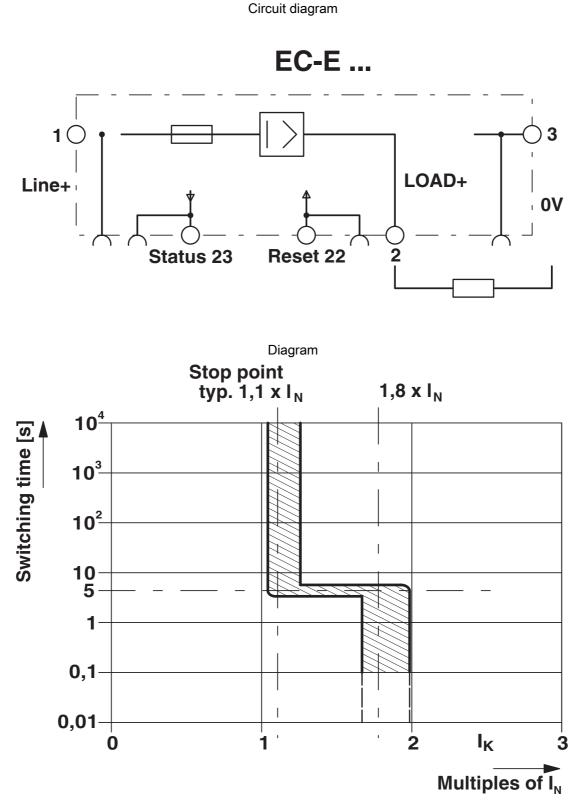
Mounting type	DIN rail: 35 mm
ine an ing type	

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Drawings



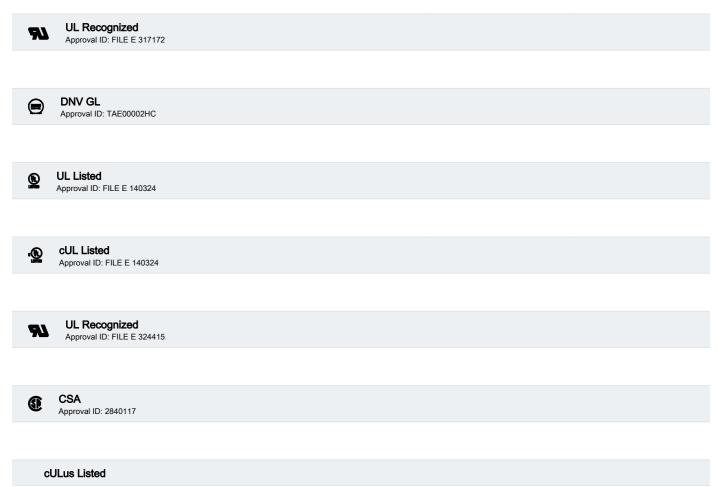
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Approvals

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Classifications

ECLASS

ECLASS-11.0	27140401
ECLASS-12.0	27140401
ECLASS-13.0	27140401

ETIM

	ETIM 9.0	EC003538		
UN	UNSPSC			
	UNSPSC 21.0	39121400		

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-l
China RoHS	
Environment friendly use period (EFUP)	EFUP-25
	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)
SCIP	941d65c8-9b84-473c-b0db-fe3b4f030dfe

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

