

0903038

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Electronic circuit breaker, signal contact: 1 N/C contact, nominal current: 10 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 floating remote indication contact (N/O)

#### Commercial data

Item number	0903038
Packing unit	6 pc
Minimum order quantity	6 pc
Sales key	CL04
Product key	CLA131
Catalog page	Page 386 (C-4-2019)
GTIN	4046356328135
Weight per piece (including packing)	71.5 g
Weight per piece (excluding packing)	66.9 g
Customs tariff number	85362010
Country of origin	DE



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## Technical data

#### Notes

Parallel connection of multiple circuit breakers is not permitted.	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.
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### 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 <sub>CN</sub>	Active current limitation
Fuse	electronic

#### General

Operating voltage	24 V DC
	18 V DC 32 V DC
Nominal current I <sub>N</sub>	10 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	Typ. 1.5 x I <sub>N</sub>
Active current limitation	active
Fuse	electronic
Closed-circuit current range I0	typ. 25 mA ±5 mA (When switched on)
MTBF (IEC 61709, SN 29500)	7430000 h (at 25 °C with 80 % load)
	6590000 h (at 40 °C with 80 % load)
Voltage drop	150 mV (at I <sub>N</sub> )

#### Load circuit

Max. capacitive load	20000 μF

## Auxiliary contact



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Contact connection type	floating signal contact
Minimum operating voltage U <sub>min</sub> DC	10 V DC
Maximum operating voltage U <sub>max</sub> DC	30 V DC
Minimum operating current I <sub>min</sub>	10 mA
Max. operating current I <sub>max</sub>	0.5 A
ndicator/remote signaling	
Connection name	Auxiliary contact
Switching function	N/C contact
nnection data	
Nominal cross section	16.00 mm²
ine+ / LOAD+ /0V	
Screw thread	M4
Tightening torque	1.2 Nm
Stripping length	10 mm
Conductor cross section rigid	0.5 mm² 16 mm²
Cross section AWG	20 6 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm² 16 mm²
Conductor cross section, flexible [AWG]	20 6 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² 10 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm² 10 mm²
2 conductors with same cross section, solid	0.5 mm² 4 mm²
2 conductors with the same cross-section AWG rigid	20 12 (converted acc. to IEC)
2 conductors with same cross section, flexible	0.5 mm² 4 mm²
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 mm²
Auxiliary contact	
Screw thread	M3
Tightening torque	0.5 Nm
Stripping length	8 mm
Conductor cross-section flexible (ferrule without plastic sleeve)	0.25 mm² 2.5 mm²
Flexible conductor cross section (ferrule with plastic sleeve)	0.25 mm² 2.5 mm²
ine+/LOAD+/0V	
Connection method	Screw connection
Screw thread	M4
	1.2 Nm
Tightening torque	
Tightening torque Stripping length	10 mm



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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 mm² 2.5 mm²

#### **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	V0

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



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## Mounting

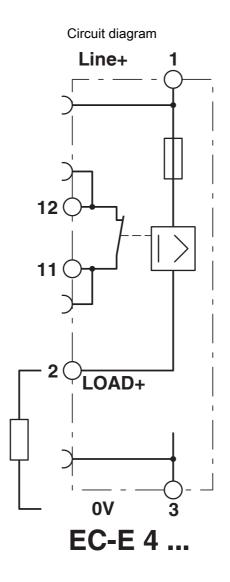
Mounting type	DIN rail: 35 mm
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# Drawings





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## **Approvals**

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**UL Recognized** 

Approval ID: FILE E 317172



**DNV GL** 

Approval ID: TAE00002HC



**UL Listed** 

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 140324



**UL Recognized** 

Approval ID: FILE E 324415



**CSA** 

Approval ID: 2840117

cULus Listed



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# Classifications

UNSPSC 21.0

#### **ECLASS**

ECLASS-11.0	27140401
ECLASS-12.0	27140401
ECLASS-13.0	27140401
ETIM	
ETIM 9.0	EC003538
UNSPSC	

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	ab3de558-c0ca-48f1-868c-7daa98fcbf70

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