

https://www.phoenixcontact.com/us/products/0903023

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Electronic circuit breaker, signal contact: 1 N/O contact, nominal current: 1 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	0903023
Packing unit	6 pc
Minimum order quantity	6 pc
Sales key	CL04
Product key	CLA131
Catalog page	Page 386 (C-4-2019)
GTIN	4046356327992
Weight per piece (including packing)	68.916 g
Weight per piece (excluding packing)	68.25 g
Customs tariff number	85362010
Country of origin	DE

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### Technical data

Max. capacitive load

Auxiliary contact

Notes	
General	<ul> <li>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).</li> <li>Special precautionary measures must be taken in systems or machines, to prevent components from restarting (e.g., use of a safety PLC).</li> <li>Parallel connection of multiple circuit breakers is not permitted.</li> </ul>
Product properties	
Туре	DIN rail module, one-piece
Product type	Device circuit breakers
Product family	EC-E
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>	1 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. 1.8 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	80 mV (at I <sub>N</sub> )
Load circuit	
	20000 E

20000 µF



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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
Indicator/remote signaling	
Connection name	Auxiliary contact
Switching function	N/O contact
onnection data	
Nominal cross section	16.00 mm²
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 <sup>2</sup> 16 mm <sup>2</sup>
Cross section AWG	20 6 (converted acc. to IEC)
Conductor cross section flexible	0.5 mm <sup>2</sup> 16 mm <sup>2</sup>
Conductor cross section, flexible [AWG]	20 6 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm <sup>2</sup> 10 mm <sup>2</sup>
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 mm <sup>2</sup> 2.5 mm <sup>2</sup>
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 6 mm²
Nominal cross section	16 mm <sup>2</sup>
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
Line+/LOAD+/0V	
Connection method	Screw connection
Screw thread	M4
Tightening torque	1.2 Nm



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Conductor cross section flexible	0.5 mm <sup>2</sup> 16 mm <sup>2</sup>		
Conductor cross section rigid	0.5 mm <sup>2</sup> 16 mm <sup>2</sup>		
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 mm <sup>2</sup> 2.5 mm <sup>2</sup>		
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
Temperature index of insulation material (DIN EN 60216-1 (VDE 0304-21))	120 °C
Relative insulation material temperature index (Elec., UL 746 B)	130 °C

#### 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
Mounting type	Din Tail: 55 min

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### Classifications

#### ECLASS

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

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 25;
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"

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