

0903041

https://www.phoenixcontact.com/us/products/0903041

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Electronic circuit breaker, 1 reset input, nominal current: 0.5 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	0903041
Packing unit	6 pc
Minimum order quantity	6 pc
Sales key	CL04
Product key	CLA131
Catalog page	Page 387 (C-4-2019)
GTIN	4046356466875
Weight per piece (including packing)	67.566 g
Weight per piece (excluding packing)	67.566 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.
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### 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>	0.5 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	70 mV (at I <sub>N</sub> )

#### Load circuit

Max. capacitive load	20000 μF

Reset



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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)
atus output	
Output voltage	24 V DC
Output current	max. 0.2 A (Short-circuit-proof)
dicator/remote signaling	
Connection name	Auxiliary contact
Switching function	Reset input
nection data	
Nominal cross section	16.00 mm²
Connection method	Screw connection
. // 045 - /0/	
ne+ / LOAD+ /0V Screw thread	M4
	1.2 Nm
Tightening torque	10 mm
Stripping length  Conductor cross section rigid	0.5 mm <sup>2</sup> 16 mm <sup>2</sup>
•	
Cross section AWG  Conductor cross section flexible	26 6 (converted acc. to IEC)  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 mm <sup>2</sup> 10 mm <sup>2</sup>
Flexible conductor cross section (ferrule with plastic sleeve)	0.5 mm <sup>2</sup> 10 mm <sup>2</sup>
2 conductors with same cross section, solid	0.5 mm <sup>2</sup> 4 mm <sup>2</sup>
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 <sup>2</sup> 4 mm <sup>2</sup>
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 mm <sup>2</sup> 6 mm <sup>2</sup>
Nominal cross section	16 mm²
uxiliary 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
ne+/LOAD+/0V	
Connection method	Screw connection
Commodati motion	Co.



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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 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



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	Standards/specifications	CSA 22.2	
	Note	No. 213	
	Standards/specifications	UL 1604	
Mounting			
	Mounting type	DIN rail: 35 mm	



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## Classifications

#### **ECLASS**

	ECLASS-11.0	27140401		
	ECLASS-12.0	27140401		
	ECLASS-13.0	27140401		
ETIM				
	ETIM 9.0	EC003538		
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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Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com