

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	1 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

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
Data management status	
Article revision	02

#### Electrical properties

Contact switching type

Automatic device
Active current limitation
electronic
24 V DC
18 V DC 32 V DC
0.5 A
0.5 kV
E (electronic)
not required, integrated failsafe element
max. 32 V DC (Load circuit)
typ. 1.8 x I <sub>N</sub>
active
electronic
typ. 25 mA ±5 mA (When switched on)
7430000 h (at 25 °C with 80 % load)
6590000 h (at 40 °C with 80 % load)
70 mV (at I <sub>N</sub> )

without electrical isolation



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Max. capacitive load	20000 μF
Switch-on delay	typ. 0.5 s
set	
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)
licator/remote signaling	
Connection name	Auxiliary contact
Switching function	Reset input
nection data	
Nominal cross section	16.00 mm²
Connection method	Screw connection
e+ / 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	26 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 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 mm²
xiliary contact	
Screw thread	M3



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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
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
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm² 6 mm²
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
mensions	
Width	12.5 mm
Height	83 mm
Height NS 35/15	90.5 mm
Height NS 35/7,5	83 mm
Depth	80 mm
aterial specifications	
Color	black (RAL 9005)
Flammability rating according to UL 94	V0
vironmental 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
Ambient temperature (storage/transport)	-20 0 10 0



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### 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

#### Mounting

Mounting type	DIN rail: 35 mm	

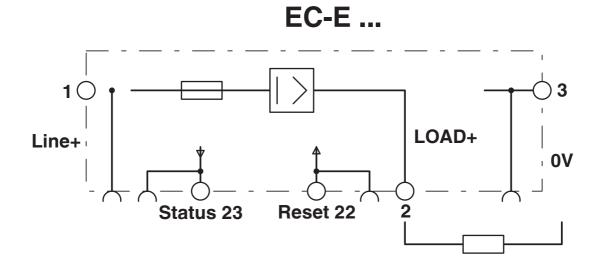


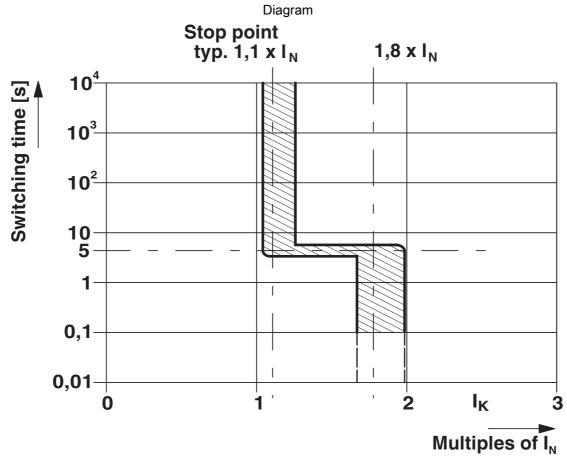
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### **Drawings**

#### Circuit diagram





Trigger characteristic



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### **Approvals**

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/0903041



**UL Recognized** 

Approval ID: FILE E 317172



EAC

Approval ID: EAC-Zulassung



**DNV GL** 

Approval ID: TAE00002HC



**EAC** 

Approval ID: RU C-DE.A\*30.B01546



**UL Listed** 

Approval ID: E140324



cUL Listed

Approval ID: E140324



**UL Recognized** 

Approval ID: FILE E 324415



CSA

Approval ID: 2840117

cULus Listed



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### Classifications

#### **ECLASS**

	ECLASS-11.0	27140401
	ECLASS-12.0	27140401
	ECLASS-13.0	27140401
ET	ТМ	
	ETIM 9.0	EC003538
UN	NSPSC	
	UNSPSC 21.0	39121400



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### Environmental product compliance

#### EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	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	92bcc1ed-bc0a-4846-ab13-a49873818f09

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