

0903040

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Electronic circuit breaker

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	0903040
Packing unit	6 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA131
GTIN	4046356457972
Weight per piece (including packing)	70.5 g
Weight per piece (excluding packing)	70.5 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

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	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 _N
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 _N)
Contact switching type	without electrical isolation

Load circuit

Load Groun		
	Max. capacitive load	20000 μF
	Switch-on delay	typ. 0.5 s



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Auxiliary	contact

Contact connection type	floating signal contact
Minimum operating voltage U _{min} DC	10 V DC
Maximum operating voltage U _{max} DC	30 V DC
Minimum operating current I _{min}	10 mA
Max. operating current I _{max}	0.5 A

Indicator/remote signaling

Connection name	Auxiliary contact
Switching function	N/C contact

Connection data

Line+ / LOAD+ /0V

Connection method	Screw connection
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 mm ² 2.5 mm ²
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

Connection method	Screw connection
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



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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

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



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Note	No. 142
Standards/specifications	CSA 22.2
Note	No. 213
Standards/specifications	UL 1604

Mounting

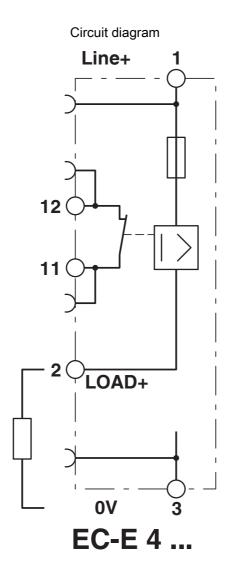
Mounting type	DIN rail: 35 mm



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Drawings





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Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/0903040



UL Recognized

Approval ID: FILE E 317172



DNV GL

Approval ID: TAE00002HC



cULus Listed

Approval ID: E123528



UL Recognized

Approval ID: FILE E 324415



CSA

Approval ID: 2840117



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Classifications

ECLASS

	ECLASS-13.0	27140401		
	ECLASS-15.0	27140401		
ETIM				
	ETIM 9.0	EC003538		
U	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: n/a)
SCIP	3ca17972-bc24-4ec0-a660-52e11b941a98
EF3.0 Climate Change	
CO2e kg	4.563 kg CO2e

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