

0903044

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Electronic circuit breaker, 1 reset input, nominal current: 3 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	0903044
Packing unit	6 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA131
Catalog page	Page 387 (C-4-2019)
GTIN	4046356466905
Weight per piece (including packing)	68.1 g
Weight per piece (excluding packing)	68.1 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	

Automatic device

Electrical properties

Fuse type

2 - 2 P	
Switching capacity I _{CN}	Active current limitation
Fuse	electronic
eneral	
Operating voltage	24 V DC
	18 V DC 32 V DC
Nominal current I _N	3 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	80 mV (at I _N)
Contact switching type	without electrical isolation



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oad circuit	
Max. capacitive load	20000 μF
Switch-on delay	typ. 0.5 s
Reset	
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)
Status output	
Output voltage	24 V DC
Output current	max. 0.2 A (Short-circuit-proof)
Indicator/remote signaling	
Connection name	Auxiliary contact
Switching function	Reset input
Ownering function	Neset input
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 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 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



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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
Line+/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
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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
	2.1.16 00 1

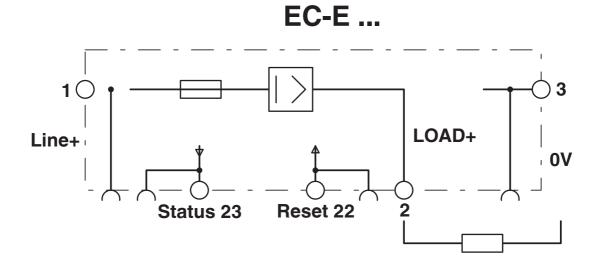


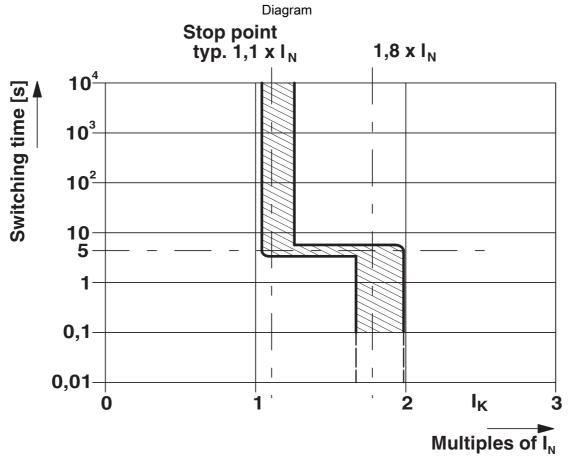
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Drawings

Circuit diagram





Trigger characteristic



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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: 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
ETIM		
	ETIM 9.0	EC003538
UNSPSC		
	UNSPSC 21.0	39121400



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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes
Exemption	6(c), 7(a), 7(c)-I
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	51c12aaf-94ab-4e9f-9b10-e2d4adf9ac32

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