

0903045

https://www.phoenixcontact.com/us/products/0903045

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.



Electronic circuit breaker, 1 reset input, nominal current: 4 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	0903045
Packing unit	6 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA131
Catalog page	Page 387 (C-4-2019)
GTIN	4046356466912
Weight per piece (including packing)	68.483 g
Weight per piece (excluding packing)	68.483 g
Customs tariff number	85362010
Country of origin	DE



0903045

https://www.phoenixcontact.com/us/products/0903045

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.
---------	--

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

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	4 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	100 mV (at I _N)
Contact switching type	without electrical isolation



0903045

https://www.phoenixcontact.com/us/products/0903045

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



0903045

https://www.phoenixcontact.com/us/products/0903045

Humidity test

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
nvironmental and real-life conditions Ambient conditions	
Degree of protection	IP20 (Housing)
Ambient temperature (operation)	0 °C 50 °C (non-condensing)
Ambient temperature (operation) Ambient temperature (storage/transport)	-20 °C 70 °C
Ambient temperature (storage/transport)	-20 O 10 G

96 h, 95 % RH, 40 °C



0903045

https://www.phoenixcontact.com/us/products/0903045

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

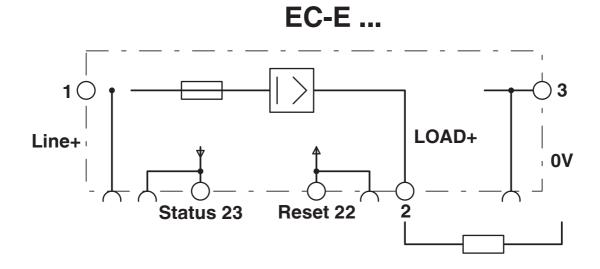


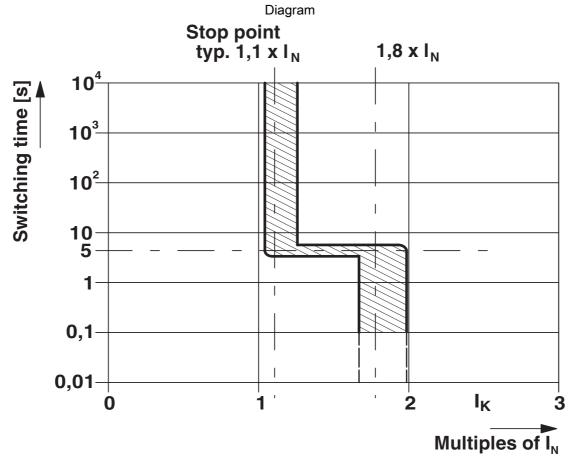
0903045

https://www.phoenixcontact.com/us/products/0903045

Drawings

Circuit diagram





Trigger characteristic



0903045

https://www.phoenixcontact.com/us/products/0903045

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/0903045



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



0903045

https://www.phoenixcontact.com/us/products/0903045

Classifications

ECLASS

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



0903045

https://www.phoenixcontact.com/us/products/0903045

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	321b196e-54e6-4228-a2fe-d5b5cd1c1edd

Phoenix Contact 2024 © - all rights reserved https://www.phoenixcontact.com

Phoenix Contact USA 586 Fulling Mill Road Middletown, PA 17057, United States (+717) 944-1300 info@phoenixcon.com