

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	6 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

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 _{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)

Load circuit

Max. capacitive load	20000 μF

Reset



0903045

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

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
ne+ / 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
xiliary 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



0903045

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

Screw thread	M4
Tightening torque	1.2 Nm
Stripping length	10 mm
Conductor cross section flexible	0.5 mm ² 16 mm ²
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



0903045

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

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



0903045

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

Classifications

UNSPSC 21.0

ECLASS

ECLASS-11.0	27140401		
ECLASS-12.0	27140401		
ECLASS-13.0	27140401		
ETIM			
ETIM 9.0	EC003538		
UNSPSC			

39121400



0903045

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

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"

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