

0903037

https://www.phoenixcontact.com/pc/products/0903037

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, signal contact: 1 N/C contact, nominal current: 8 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 floating remote indication contact (N/O)

Commercial data

Item number	0903037
Packing unit	6 pc
Minimum order quantity	1 pc
Product key	CLA131
Catalog page	Page 386 (C-4-2019)
GTIN	4046356328128
Weight per piece (including packing)	70.33 g
Weight per piece (excluding packing)	67.8 g
Customs tariff number	85362010
Country of origin	DE



https://www.phoenixcontact.com/pc/products/0903037



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

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	8 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. 1.5 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	120 mV (at I _N)

Load circuit

Max. capacitive load	20000 μF

Auxiliary contact



0903037

https://www.phoenixcontact.com/pc/products/0903037

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
ndicator/remote signaling	
Connection name	Auxiliary contact
Switching function	N/C contact
nnection data	
Nominal cross section	16.00 mm²
ine+ / 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	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 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
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
	1.2 Nm
Tightening torque	
Tightening torque Stripping length	10 mm



0903037

https://www.phoenixcontact.com/pc/products/0903037

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 mm ² 10 mm ²

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



0903037

https://www.phoenixcontact.com/pc/products/0903037

Mounting

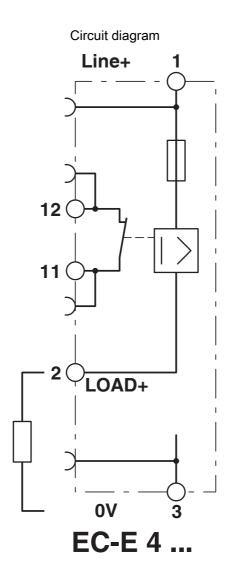
Mounting type	DIN rail: 35 mm
---------------	-----------------



https://www.phoenixcontact.com/pc/products/0903037



Drawings





0903037

https://www.phoenixcontact.com/pc/products/0903037

Approvals

🌣 To download certificates, visit the product detail page: https://www.phoenixcontact.com/pc/products/0903037



UL Recognized

Approval ID: FILE E 317172



DNV GL

Approval ID: TAE00002HC



UL Listed

Approval ID: FILE E 140324



cUL Listed

Approval ID: FILE E 140324



UL Recognized

Approval ID: FILE E 324415



CSA

Approval ID: 2840117

cULus Listed



0903037

https://www.phoenixcontact.com/pc/products/0903037

Classifications

UNSPSC 21.0

ECLASS

E	CLASS-11.0	27140401
E	CLASS-12.0	27140401
E	CLASS-13.0	27140401
ETIM		
E ⁻	TIM 9.0	EC003538
UNSP	PSC	

39121400



0903037

https://www.phoenixcontact.com/pc/products/0903037

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	5bb2297d-25ce-49dd-bbb1-292e558d328b

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

PHOENIX CONTACT GmbH & Co. KG Flachsmarktstraße 8 D-32825 Blomberg +49 (0) 5235-3 00 info@phoenixcontact.com