

EC-E 2A DC24V - Electronic circuit breaker



0903043

<https://www.phoenixcontact.com/us/products/0903043>

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: 2 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	0903043
Packing unit	6 pc
Minimum order quantity	1 pc
Sales key	CL04
Product key	CLA131
GTIN	4046356466899
Weight per piece (including packing)	70.5 g
Weight per piece (excluding packing)	66.8 g
Customs tariff number	85362010
Country of origin	DE

Technical data

Product properties

Product type	Device circuit breakers
Product family	EC-E
Type	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
Maximum power dissipation for nominal condition	≤ 0.98 VA
Switching capacity I_{CN}	Active current limitation
Fuse	electronic

General

Operating voltage	24 V DC
	18 V DC ... 32 V DC
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. $1.8 \times I_N$
Active current limitation	active
Fuse	electronic
Closed-circuit current range I_0	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	130 mV (at I_N)
Contact switching type	without electrical isolation

Load 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)

EC-E 2A DC24V - Electronic circuit breaker



0903043

<https://www.phoenixcontact.com/us/products/0903043>

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

Connection data

Nominal cross section	16.00 mm ²
Connection method	Screw connection

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 mm ² ... 16 mm ²
Cross section AWG	26 ... 6 (converted acc. to IEC)
Conductor cross-section flexible	0.5 mm ² ... 16 mm ²
Conductor cross-section, flexible [AWG]	20 ... 6 (converted acc. to IEC)
Conductor cross-section flexible (ferrule without plastic sleeve)	0.5 mm ² ... 10 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.5 mm ² ... 10 mm ²
2 conductors with same cross section, rigid	0.5 mm ² ... 4 mm ²
2 conductors with the same cross-section AWG rigid	20 ... 12 (converted acc. to IEC)
2 conductors with same cross section, flexible	0.5 mm ² ... 4 mm ²
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 mm ² ... 6 mm ²
Nominal cross section	16 mm ²

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 mm ² ... 2.5 mm ²
Flexible conductor cross-section (ferrule with plastic sleeve)	0.25 mm ² ... 2.5 mm ²

Line+/LOAD+/0V

Connection method	Screw connection
Screw thread	M4
Tightening torque	1.2 Nm
Stripping length	10 mm

EC-E 2A DC24V - Electronic circuit breaker



0903043

<https://www.phoenixcontact.com/us/products/0903043>

Conductor cross-section flexible	0.5 mm ² ... 16 mm ²
Conductor cross-section rigid	0.5 mm ² ... 16 mm ²
Conductor cross-section AWG	20 ... 6
2 conductors with the same cross section, flexible, with TWIN ferrule with plastic sleeve	0.5 mm ² ... 6 mm ²
Conductor cross-section, flexible, with ferrule, with plastic sleeve	0.5 mm ² ... 10 mm ²
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 mm ² ... 2.5 mm ²
Conductor cross-section, flexible, with ferrule, without plastic sleeve	0.25 mm ² ... 2.5 mm ²

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

EC-E 2A DC24V - Electronic circuit breaker



0903043

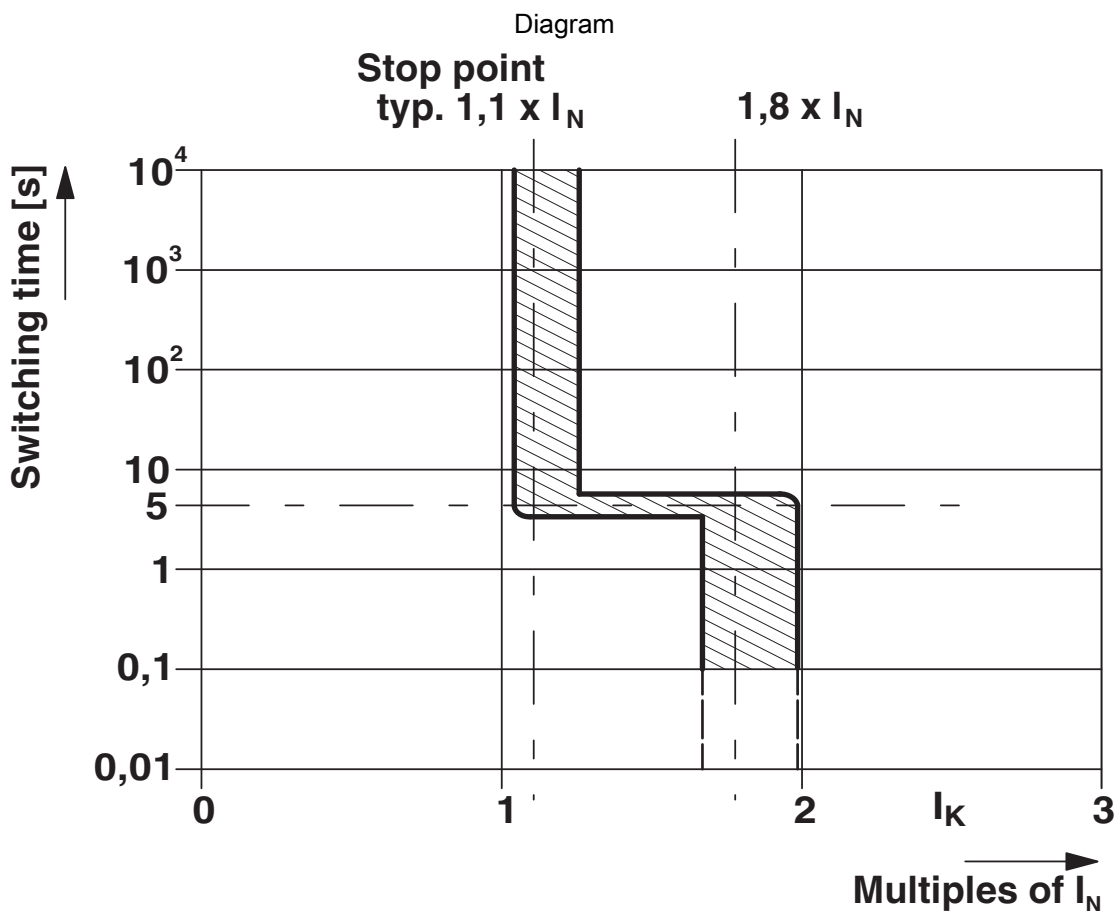
<https://www.phoenixcontact.com/us/products/0903043>

Note	No. 213
Standards/specifications	UL 1604

Mounting

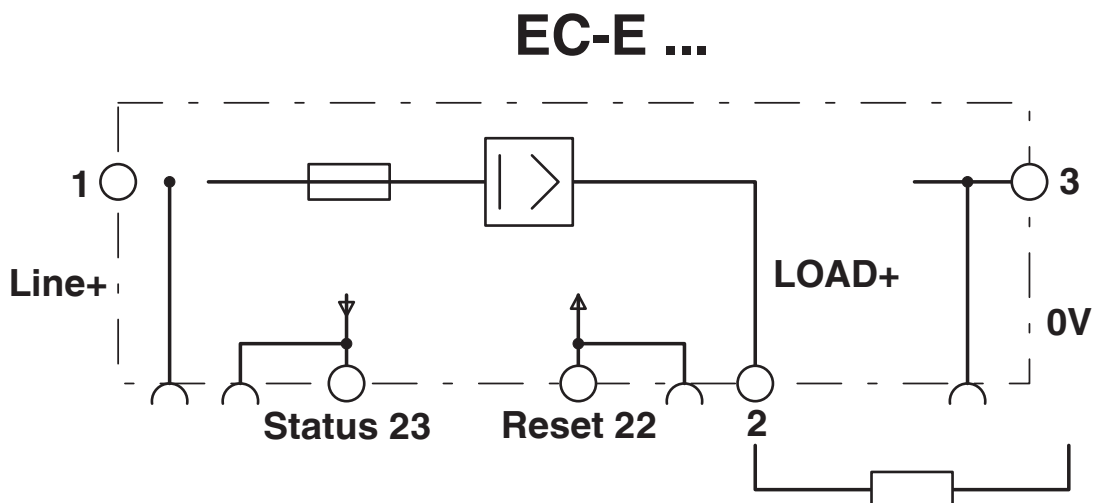
Mounting type	DIN rail: 35 mm
---------------	-----------------

Drawings



Trigger characteristic

Circuit diagram



EC-E 2A DC24V - Electronic circuit breaker



0903043

<https://www.phoenixcontact.com/us/products/0903043>

Approvals

To download certificates, visit the product detail page: <https://www.phoenixcontact.com/us/products/0903043>



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

EC-E 2A DC24V - Electronic circuit breaker



0903043

<https://www.phoenixcontact.com/us/products/0903043>

Classifications

ECLASS

ECLASS-13.0	27140401
ECLASS-15.0	27140401

ETIM

ETIM 10.0	EC003538
-----------	----------

UNSPSC

UNSPSC 21.0	39121400
-------------	----------

EC-E 2A DC24V - Electronic circuit breaker



0903043

<https://www.phoenixcontact.com/us/products/0903043>

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	1deee0f6-3555-412a-a9be-3e799d030ff5

EF3.1 Climate Change

CO2e kg	4.68 kg CO2e
---------	--------------

Phoenix Contact 2026 © - 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