

https://www.phoenixcontact.com/us/products/0903026

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Electronic circuit breaker, signal contact: 1 N/O contact, 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 floating remote indication contact (N/O)

Commercial data

Item number	0903026
Packing unit	6 pc
Minimum order quantity	6 pc
Sales key	CL04
Product key	CLA131
Catalog page	Page 386 (C-4-2019)
GTIN	4046356328029
Weight per piece (including packing)	69.017 g
Weight per piece (excluding packing)	69.017 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.

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
Maximum power dissipation for nominal condition	≤ 0.4 VA
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	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	Тур. 1.8 х 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)
Voltage drop oad circuit	100 mV (at I _N)
Max. capacitive load	20000 µF



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Auxiliary c	contact	
Contac	t connection type	floating signal contact
Minimu	m operating voltage U _{min} DC	10 V DC
Maximu	um operating voltage U _{max} DC	30 V DC
Minimu	m operating current I _{min}	10 mA
Max. op	perating current I _{max}	0.5 A
Indicator/r	remote signaling	
	ction name	Auxiliary contact
Switchi	ng function	N/O contact
Connectio	n data	
Nomina	al cross section	16.00 mm²
Line+ / LC	DAD+ /0V	
Screw	thread	M4
Tighten	ning torque	1.2 Nm
-	ng length	10 mm
Conduc	ctor cross section rigid	0.5 mm ² 16 mm ²
Cross s	section AWG	20 6 (converted acc. to IEC)
Conduc	ctor cross section flexible	0.5 mm² 16 mm²
Conduc	ctor cross section, flexible [AWG]	20 6 (converted acc. to IEC)
Conduc	ctor cross-section flexible (ferrule without plastic sleeve)	0.5 mm² 10 mm²
Flexible	e conductor cross section (ferrule with plastic sleeve)	0.5 mm² 10 mm²
2 condu	uctors with same cross section, solid	0.5 mm² 4 mm²
2 condu	uctors with the same cross-section AWG rigid	20 12 (converted acc. to IEC)
2 condu	uctors with same cross section, flexible	0.5 mm² 4 mm²
2 condu	uctors with the same cross-section AWG flexible	20 12 (converted acc. to IEC)
	uctors with same cross section, flexible, with ferrule plastic sleeve	0.5 mm ² 2.5 mm ²
	uctors with the same cross section, flexible, with TWIN with plastic sleeve	0.5 mm² 6 mm²
Nomina	al cross section	16 mm²
Auxiliary c	contact	
Screw	thread	М3
Tighten	ning torque	0.5 Nm
Strippir	ng length	8 mm
Conduc	ctor cross-section flexible (ferrule without plastic sleeve)	0.25 mm ² 2.5 mm ²
Flexible	e conductor cross section (ferrule with plastic sleeve)	0.25 mm ² 2.5 mm ²
Line+/LOA	AD+/0V	
	ction method	Screw connection
Screw	thread	M4
Tighten	ning torque	1.2 Nm
Strippir	ng length	10 mm



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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 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	VO

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

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Mounting

Mounting type

DIN rail: 35 mm

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Classifications

ECLASS

ECLASS-12.0 27140401 ECLASS-13.0 27140401	ECLASS-11.0	27140401
ECLASS-13.0 27140401	ECLASS-12.0	27140401
	ECLASS-13.0	27140401

ETIM

	ETIM 9.0	EC003538
U	NSPSC	
	UNSPSC 21.0	39121400

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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"

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