

1103876

https://www.phoenixcontact.com/us/products/1103876

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.



Multi-channel electronic circuit breaker that can be preconfigured, for protecting four loads at 24 V DC in the event of overload and short circuit. With status output, reset input, and electronic locking of the set nominal currents. For installation on DIN rails.

Your advantages

- · Easy device replacement without replanning, thanks to compact design and options for individual adjustments
- · Circuits can be adjusted without any tools by means of one single pushable LED button
- · Pre-configuration available for device protection that meets the specific requirements of your system
- · Enhanced diagnostic and control options, thanks to integrated status output and reset input
- · Optimum protection for cables and sensors as well as NEC Class 2 circuits by means of an additional internal output fuse
- · Reliable protection against unintentional adjustment of current values, thanks to electronic locking

Commercial data

Item number	1103876
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to order (non-returnable)
Sales key	CL14
Product key	CLA152
Weight per piece (including packing)	140.6 g
Weight per piece (excluding packing)	123.61 g
Customs tariff number	85362010
Country of origin	DE



https://www.phoenixcontact.com/us/products/1103876

Technical data

Notes

General	
Note	Repeated hard short circuits can reduce the melting integral of the integrated backup fuse.
Product properties	
Туре	DIN rail module, one-piece
Product type	Device circuit breakers
Product family	CBMC
Number of positions	1
No. of channels	4
Insulation characteristics	
Protection class	III
Pollution degree	2
Electrical properties	
No. of channels	4
General	
Operating voltage	18 V DC 30 V DC
Rated voltage	24 V DC
Rated current I _N	max. 16 A DC (IN+)
	max. 40 A DC (per terminal position when bridging additional devices via IN+)
Rated current I _N	1 / 2 / 3 / 4 A DC (adjustable or fixed per output channel)
Rated surge voltage	0.5 kV
Tripping method	E (electronic)
Feedback resistance	max. 35 V DC
Required backup fuse	Only required if I _{max} of the power supply > the short-circuit switching capacity. Integrated failsafe element.
Short-circuit switching capacity	300 A
Dielectric strength	max. 35 V DC (Load circuit)
Fuse	electronic
Efficiency	> 99 %
Closed circuit current I ₀	typ. 25 mA
Power dissipation	typ. 0.6 W (No-load operation)
	< 4 W (Nominal operation)
Module initialization time	1.6 s
Waiting time after switch off of a channel	5 s (at overload / short circuit)
Measuring tolerance I	± 15 %
MTBF (IEC 61709, SN 29500)	11764705 h (at 25 °C with 21 % load)
	5319148 h (at 40°C with 34.25% load)



https://www.phoenixcontact.com/us/products/1103876

	846023 h (at 60°C with 100% load)
Fail-safe element	4 A DC (per output channel)
pad circuit	
Shutdown time	\leq 10 ms (for short circuit > 2.0 x I _N)
	1 s (1.2 2.0 x I _N)
Undervoltage switch-off	≤ 17.8 V DC (active)
	≥ 18.8 V DC (inactive)
Overvoltage switch-off	≥ 30.5 V DC (active)
	≤ 29.5 V DC (inactive)
Max. capacitive load	30000 μF (Depending on the current setting and the short-circuit current available)
eset	
Input voltage range	7 V DC 30 V DC (Reset with falling edge)
Current consumption	typ. 0.4 mA (at 24 V DC)
Pulse length	≥ 50 ms (High)
	≥ 50 ms (Low)
Voltage	< 5 V DC (Low state)
	> 8 V DC (High state)
Stripping length	10 mm
Conductor cross section rigid	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 12
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 1.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
tatus output	
Output voltage	24 V DC
Output current	max. 0.04 A (Short-circuit-proof)

e alpar tenage	
Output current	max. 0.04 A (Short-circuit-proof)
Stripping length	10 mm
Conductor cross section rigid	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 12
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 1.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²

Connection data

Main circuit IN+

Connection method	Push-in connection
Stripping length	15 mm
Conductor cross section rigid	0.2 mm ² 10 mm ²
Conductor cross section AWG	24 8
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 4 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 6 mm²



https://www.phoenixcontact.com/us/products/1103876

Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 12
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 1.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm ² 2.5 mm ²
lain circuit OUT+	
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section rigid	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 12
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm ² 1.5 mm ²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
naling	
Channel LED off	off (Channel switched off)
Channel LED yellow	lit (Channel switched on, channel load > 80%)
	Reality (Decementary and exiting)

	flashing (Programming mode active)
Channel LED green	lit (Channel switched on)
Channel LED red	lit (Channel switched off, over- or undervoltage active)
	ON temporarily (Channel switched off, 5 s cool-down phase, overload or short-circuit release)
	flashing (Channel switched off, ready to be switched back on, overload or short-circuit release)
	two flashes (Channel switched off, device total current limit 40 A exceeded)

Dimensions

Dimensional drawing	
Width	36 mm
Height	90 mm
Depth	98 mm (incl. DIN rail 7.5 mm)

Material specifications

•	
Material	PC
	PA 6.6



https://www.phoenixcontact.com/us/products/1103876

	PA 6.3T
	POM
Flammability rating according to UL 94	V-0

Environmental and real-life conditions

Ambient conditions	
Degree of protection	IP20
Ambient temperature (operation)	-25 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Altitude	≤ 3000 m up to 52 °C (amsl)
	≤ 4000 m up to 46 °C (amsl)
Humidity test	96 h, 95 % RH, 40 °C
Shock (operation)	30g (IEC 60068-2-27, Test Ea)
Vibration (operation)	10 Hz 57.6 Hz (Amplitude ± 0.35 mm; in accordance with IEC 60068-2-6, Test Fc)
	57.6 Hz 150 Hz (Acceleration 5g; in accordance with IEC 60068-2-6, Test Fc)

Approvals

UL	approval	
0	approva	

Identification	UL/C-UL Listed UL 508
	UL Recognized UL 2367
	NEC Class 2 according to UL 1310

Standards and regulations

Standards/specifications	EN 61000-6-2
Note	EMC – Immunity for industrial areas
Standards/specifications	EN 61000-6-3
Note	EMC – Emission for residential, business and commercial properties and small operations
Standards/specifications	EN 60068-2-6
Note	Environmental influences – Vibrations (sinusoidal)
Standards/specifications	EN 60068-2-27
Note	Environmental influences – Shocks
Standards/specifications	EN 60068-2-78
Note	Environmental influences – Moisture and heat, constant
Standards/specifications	EN 50178
Note	Equipping power installations with electronic equipment

Mounting

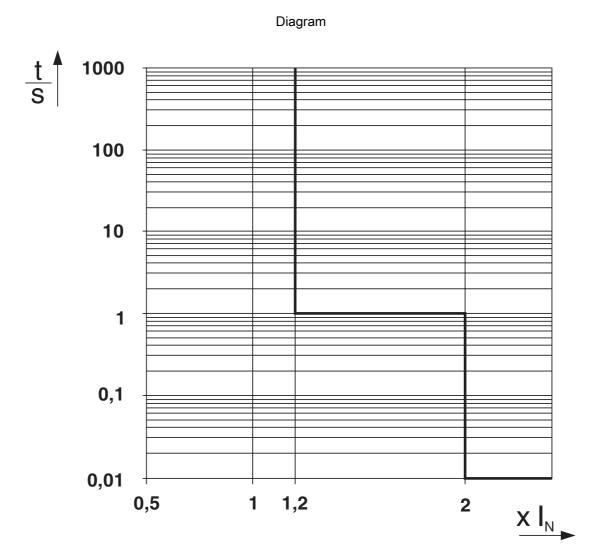
Mounting type	DIN rail: 35 mm



1103876

https://www.phoenixcontact.com/us/products/1103876

Drawings



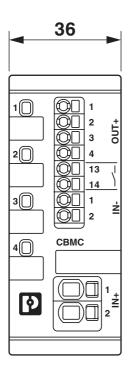
Trigger characteristic in the DC range

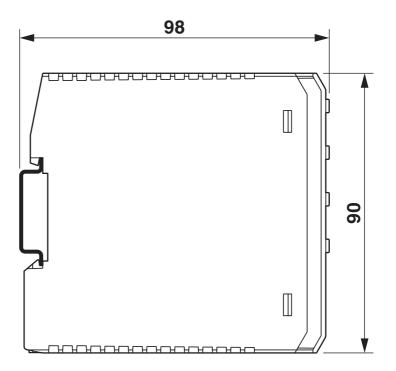


1103876

https://www.phoenixcontact.com/us/products/1103876

Dimensional drawing

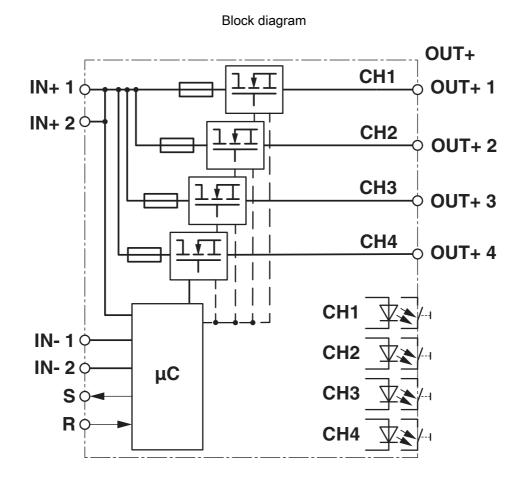






1103876

https://www.phoenixcontact.com/us/products/1103876





1103876

https://www.phoenixcontact.com/us/products/1103876

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1103876

9 1	UL Recognized Approval ID: FILE E 317172
	UL Listed Approval ID: FILE E 123528
<u>.</u>	CUL Listed Approval ID: FILE E 123528
c	JLus Listed



https://www.phoenixcontact.com/us/products/1103876

Classifications

ECLASS

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

ETIM

	ETIM 8.0	EC003538
UN	UNSPSC	
	UNSPSC 21.0	39121400



https://www.phoenixcontact.com/us/products/1103876

Environmental product compliance

REACh SVHC	Perfluorobutane sulfonic acid (PFBS) and its salts
	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the



https://www.phoenixcontact.com/us/products/1103876

Accessories

EML (10X7)R - Label

0816663 https://www.phoenixcontact.com/us/products/0816663



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 10 x 7 mm, Number of individual labels: 10000

EML-ESD (20X7)R - Equipment marking

0830567

https://www.phoenixcontact.com/us/products/0830567



Equipment marking, Roll, white, unlabeled, can be labeled with: THERMOMARK E.300 (D)/600 (D), THERMOMARK ROLL 2.0, THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, mounting type: adhesive, lettering field size: 20 x 7 mm, Number of individual labels: 4000



1103876

https://www.phoenixcontact.com/us/products/1103876

QUINT4-PS/1AC/24DC/10 - Power supply unit

2904601

https://www.phoenixcontact.com/us/products/2904601



Primary-switched QUINT POWER power supply with free choice of output characteristic curve, SFB (selective fuse breaking) technology, and NFC interface, input: 1-phase, output: 24 V DC/10 A

QUINT4-PS/1AC/24DC/20 - Power supply unit

2904602

https://www.phoenixcontact.com/us/products/2904602



Primary-switched QUINT POWER power supply with free choice of output characteristic curve, SFB (selective fuse breaking) technology, and NFC interface, input: 1-phase, output: 24 V DC/20 A



1103876

https://www.phoenixcontact.com/us/products/1103876

QUINT4-PS/3AC/24DC/10 - Power supply unit

2904621

https://www.phoenixcontact.com/us/products/2904621



Primary-switched QUINT POWER power supply with free choice of output characteristic curve, SFB (selective fuse breaking) technology, and NFC interface, input: 3-phase, output: 24 V DC/10 A

QUINT4-PS/3AC/24DC/20 - Power supply unit

2904622

https://www.phoenixcontact.com/us/products/2904622



Primary-switched QUINT POWER power supply with free choice of output characteristic curve, SFB (selective fuse breaking) technology, and NFC interface, input: 3-phase, output: 24 V DC/20 A



1103876

https://www.phoenixcontact.com/us/products/1103876

TRIO-PS-2G/1AC/24DC/10 - Power supply unit

2903149

https://www.phoenixcontact.com/us/products/2903149



Primary-switched TRIO POWER power supply with push-in connection for DIN rail mounting, input: single phase, output: 24 V DC/10 A $\,$

TRIO-PS-2G/1AC/24DC/20 - Power supply unit

2903151 https://www.phoenixcontact.com/us/products/2903151



Primary-switched TRIO POWER power supply with push-in connection for DIN rail mounting, input: single-phase, output: 24 V DC/20 A



1103876

https://www.phoenixcontact.com/us/products/1103876

TRIO-PS-2G/3AC/24DC/5 - Power supply unit

2903153

https://www.phoenixcontact.com/us/products/2903153



Primary-switched TRIO POWER power supply with push-in connection for DIN rail mounting, input: 3-phase, output: 24 V DC/5 A

TRIO-PS-2G/3AC/24DC/10 - Power supply unit

2903154 https://www.phoenixcontact.com/us/products/2903154



Primary-switched TRIO POWER power supply with push-in connection for DIN rail mounting, input: 3-phase, output: 24 V DC/10 A



1103876

https://www.phoenixcontact.com/us/products/1103876

TRIO-PS-2G/3AC/24DC/20 - Power supply unit

2903155

https://www.phoenixcontact.com/us/products/2903155



Primary-switched TRIO POWER power supply with push-in connection for DIN rail mounting, input: 3-phase, output: 24 V DC/20 A

TRIO-PS-2G/3AC/24DC/40 - Power supply unit

2903156

https://www.phoenixcontact.com/us/products/2903156



Primary-switched TRIO power supply for DIN rail mounting, input: 3-phase, output: 24 V DC/40 A, dynamic boost, tool-free fast connection technology for solid and stranded conductors with ferrule

Phoenix Contact 2023 © - 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