

1065729

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Multi-channel electronic circuit breaker for protecting four loads at 24 V DC in the event of overload or 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
- · Enhanced diagnostic and control options, thanks to integrated status output and reset input
- · Reliable protection against unintentional adjustment of current values, thanks to electronic locking
- Status LEDs in traffic light colors enable instantaneous determination of operating states

Commercial Data

Item number	1065729
Packing unit	1 pc
Minimum order quantity	1 pc
Sales Key	CL14
Product Key	CLA152
Catalog Page	Page 375 (C-4-2019)
GTIN	4055626728810
Weight per Piece (including packing)	140.75 g
Weight per Piece (excluding packing)	123.61 g
Customs tariff number	85362010
Country of origin	DE



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Technical Data

Measuring tolerance I

N	~	+	_
IΝ	u	15	

Note	Repeated hard short circuits can reduce the melting integral of the integrated backup fuse.
duct properties	
Туре	DIN rail module, one-piece
Product type	Device circuit breakers
Product family	СВМС
Number of positions	1
No. of channels	4
sulation characteristics	
Protection class	III
Pollution degree	2
ctrical properties	
No. of channels	4
eneral	
Operating voltage	18 V DC 30 V DC
Rated voltage	24 V DC
Rated current I _N	max. 40 A DC (IN+)
	max. 40 A DC (per terminal position when bridging additional devices via IN+)
Rated current I _N	1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 A DC (adjustable per output channel)
Rated current (pre-adjusted)	4 A
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)
	< 9 W (Nominal operation)
Module initialization time	1.6 s
Waiting time after switch off of a channel	5 s (at overload / short circuit)

± 15 %



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Temperature derating	24 A DC (at 60 °C)
	28 A DC (at 54 °C)
	32 A DC (at 47 °C)
	36 A DC (at 41 °C)
	40 A DC (at 35 °C)
MTBF (IEC 61709, SN 29500)	8403361 h (at 25 °C with 21 % load)
	3067484 h (at 40°C with 34.25% load)
	534188 h (at 35 °C with 100 % load)
Fail-safe element	15 A DC (per output channel)
Load circuit	
Shutdown time	≤ 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)
Chach voltage switch on	≥ 18.8 V DC (inactive)
Overvoltage switch-off	≥ 30.5 V DC (active)
Cvci voltage switch on	≤ 29.5 V DC (inactive)
Max. capacitive load	45000 μF (Depending on the current setting and the short-circuit
Wax. Supusitive four	current available)
Reset	
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 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²
Status output	
Output voltage	24 V DC
Output current	max. 0.04 A (Short-circuit-proof)
Stripping length	10 mm
Conductor cross section rigid	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²

Connection data

Main circuit IN+



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

Main circuit IN-

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 mm² 1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²

Main 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 mm² 1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²

Signaling

Channel LED off	off (Channel switched off)
Chaine LLD on	on (Channel Switched on)
Channel LED yellow	lit (Channel switched on, channel load > 80%)
	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	98
Width	36 mm



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Height	90 mm
Depth	98 mm (incl. DIN rail 7.5 mm)

Material specifications

Color	light grey RAL 7035
Material	PC
	PA 6.6
	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 (above mean sea level))
	≤ 4000 m up to 46 °C (amsl (above mean sea level))
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

Identification	UL/C-UL Listed UL 508
	UL Recognized UL 2367

Standards and regulations

Standards/specifications	EN 61000-6-2
Standards/specifications	EN 61000-6-3
Standards/specifications	EN 60068-2-6
Standards/specifications	EN 60068-2-27
Standards/specifications	EN 60068-2-78
Standards/specifications	EN 50178

Mounting

Mounting type DIN rail: 35 mm

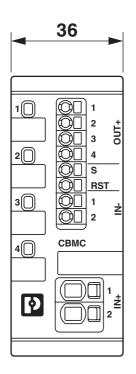


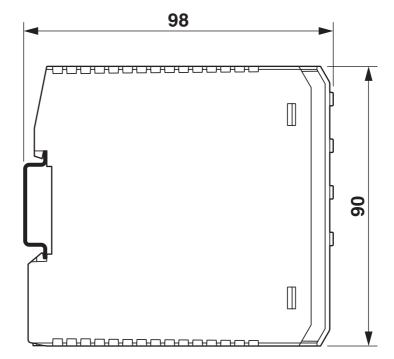
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Drawings

Dimensional drawing



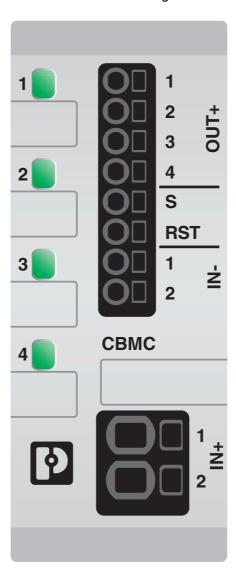




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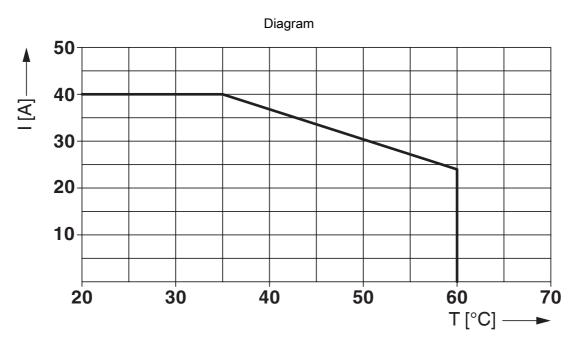
Product drawing





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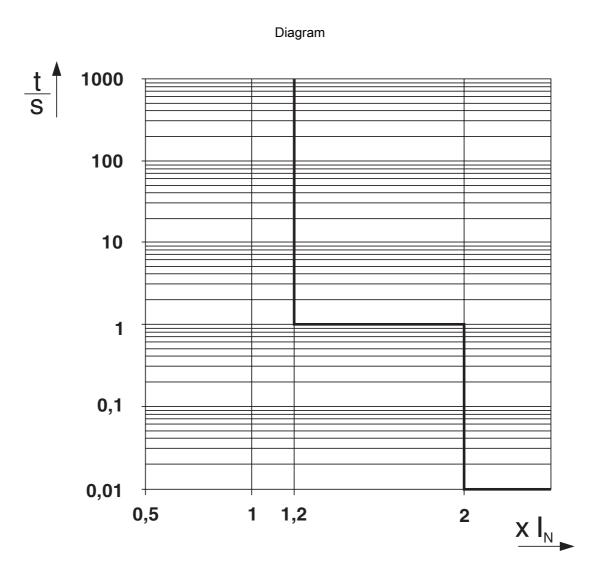


Max. permissible current in relation to the ambient temperature



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Trigger characteristic in the DC range



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Approvals



UL Recognized

Approval ID: FILE E 317172



UL Listed

Approval ID: FILE E 123528



cUL Listed

Approval ID: FILE E 123528



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Classifications

ECLASS

	ECLASS-11.0	27140401		
	ECLASS-13.0	27140401		
	ECLASS-13.0	27140401		
ETIM				
	ETIM 8.0	EC003538		
UNSPSC				
	UNSPSC 21.0	39121400		



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Environmental Product Compliance

REACh SVHC	Lead 7439-92-1
China RoHS	Environmentally Friendly Use Period = 50 years
	For information on hazardous substances, refer to the manufacturer's declaration available under "Downloads"



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Accessories

EML (10X7)R - Label

0816663

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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

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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



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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



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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



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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



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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



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

2903155

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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

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