

2906032

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Multi-channel electronic circuit breaker for protecting four loads at 24 V DC in the event of overload and short circuit. With 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
- · 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	2906032
Packing unit	1 pc
Minimum order quantity	1 pc
Note	Made to Order (non-returnable)
Sales Key	C09
Product Key	CLA152
Catalog Page	Page 375 (C-4-2019)
GTIN	4055626149356
Weight per Piece (including packing)	140.2 g
Weight per Piece (excluding packing)	133.94 g
Customs tariff number	85363090
Country of origin	DE



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Technical Data

General	
Note	Repeated hard short circuits can reduce the melting integral of the integrated backup fuse.
oduct properties	
Туре	DIN rail module, one-piece
Product type	Device circuit breakers
Number of positions	1
No. of channels	4
Insulation characteristics	
Protection class	III
Pollution degree	2
ectrical properties	
No. of channels	4
General	
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. 33 mA
Power dissipation	typ. 0.8 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)
Measuring tolerance I	± 15 %
	24 A DC (at 60 °C)



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Conductor cross section flexible, with ferrule without plastic

sleeve

Main circuit OUT

Connection method

Temperature derating	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)
oad 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)
	≥ 18.8 V DC (inactive)
Overvoltage switch-off	≥ 30.5 V DC (active)
	≤ 29.5 V DC (inactive)
Max. capacitive load	45000 μF (Depending on the current setting and the short-circuit current available)
ndicator/remote signaling	
Connection name	Remote indication circuit
Switching function	N/O contact
Switching function Operating voltage	N/O contact 0 V DC 30 V DC
Operating voltage	0 V DC 30 V DC
Operating voltage Operating current nnection data	0 V DC 30 V DC
Operating voltage Operating current nnection data Main circuit IN+	0 V DC 30 V DC 100 mA DC
Operating voltage Operating current nnection data Main circuit IN+ Connection method	0 V DC 30 V DC 100 mA DC Push-in connection
Operating voltage Operating current nnection data fain circuit IN+ Connection method Stripping length	0 V DC 30 V DC 100 mA DC Push-in connection 15 mm
Operating voltage Operating current Innection data Main circuit IN+ Connection method Stripping length Conductor cross section solid	0 V DC 30 V DC 100 mA DC Push-in connection 15 mm 0.2 mm² 10 mm²
Operating voltage Operating current Innection data Main circuit IN+ Connection method Stripping length Conductor cross section solid Conductor cross section AWG	0 V DC 30 V DC 100 mA DC Push-in connection 15 mm 0.2 mm² 10 mm² 24 8
Operating voltage Operating current Innection data Main circuit IN+ Connection method Stripping length Conductor cross section solid Conductor cross section AWG Conductor cross section, flexible, with ferrule, with plastic sleeve Conductor cross section flexible, with ferrule without plastic	0 V DC 30 V DC 100 mA DC Push-in connection 15 mm 0.2 mm² 10 mm² 24 8 0.25 mm² 4 mm²
Operating voltage Operating current Innection data Main circuit IN+ Connection method Stripping length Conductor cross section solid Conductor cross section AWG Conductor cross section, flexible, with ferrule, with plastic sleeve Conductor cross section flexible, with ferrule without plastic sleeve	0 V DC 30 V DC 100 mA DC Push-in connection 15 mm 0.2 mm² 10 mm² 24 8 0.25 mm² 4 mm²
Operating voltage Operating current Innection data Main circuit IN+ Connection method Stripping length Conductor cross section solid Conductor cross section AWG Conductor cross section, flexible, with ferrule, with plastic sleeve Conductor cross section flexible, with ferrule without plastic sleeve	0 V DC 30 V DC 100 mA DC Push-in connection 15 mm 0.2 mm² 10 mm² 24 8 0.25 mm² 4 mm² 0.25 mm² 6 mm²
Operating voltage Operating current Innection data Main circuit IN+ Connection method Stripping length Conductor cross section solid Conductor cross section AWG Conductor cross section, flexible, with ferrule, with plastic sleeve Conductor cross section flexible, with ferrule without plastic sleeve Main circuit IN- Connection method	0 V DC 30 V DC 100 mA DC Push-in connection 15 mm 0.2 mm² 10 mm² 24 8 0.25 mm² 4 mm² 0.25 mm² 6 mm²
Operating voltage Operating current Innection data Main circuit IN+ Connection method Stripping length Conductor cross section solid Conductor cross section AWG Conductor cross section, flexible, with ferrule, with plastic sleeve Conductor cross section flexible, with ferrule without plastic sleeve Main circuit IN- Connection method Stripping length	0 V DC 30 V DC 100 mA DC Push-in connection 15 mm 0.2 mm² 10 mm² 24 8 0.25 mm² 4 mm² 0.25 mm² 6 mm²

0.25 mm² ... 2.5 mm²

Push-in connection



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Stripping length	10 mm
Conductor cross section solid	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 mm ² 2.5 mm ²
Remote indication circuit	
Conductor cross section solid	0.2 mm ² 2.5 mm ²
Conductor cross section AWG	24 12
Conductor cross section, flexible, with ferrule, with plastic sleeve	
Conductor cross section, hexible, with female, with plastic sleeve	0.25 mm ² 1.5 mm ²

LED signaling

Channel LED off	off (Channel switched off)
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
Height	90 mm
Depth	98 mm (incl. DIN rail 7.5 mm)

Material specifications

Color	light grey RAL 7035
Material	PC (Housing)
	PA 6.6 (Terminal blocks)
	PA 6.3T (Light emission area)
	POM (Base latch)
Flammability rating according to UL 94	V-0



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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)

Approval data

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

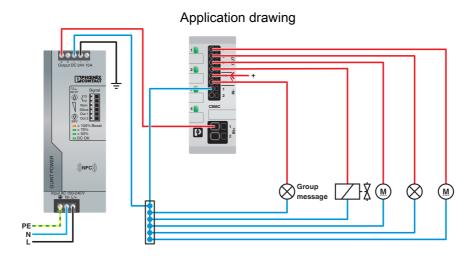
Mounting type	DIN rail: 35 mm



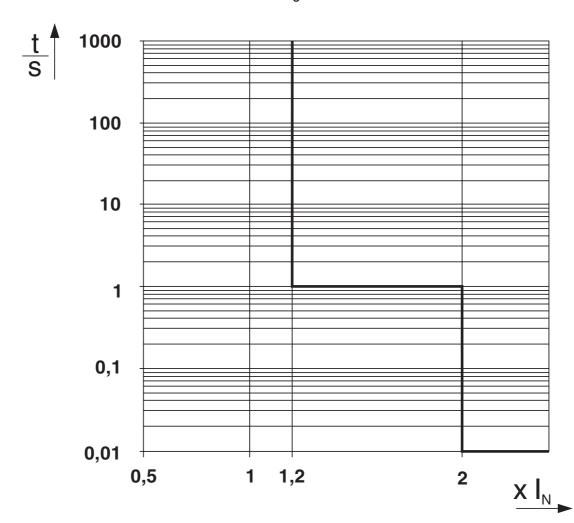
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Drawings



Diagram



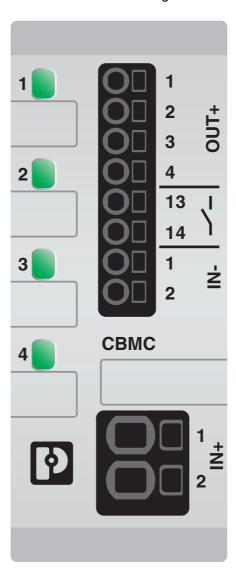
Trigger characteristic in the DC range



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Product drawing

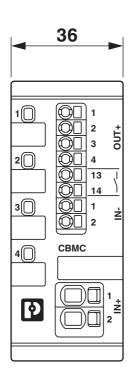


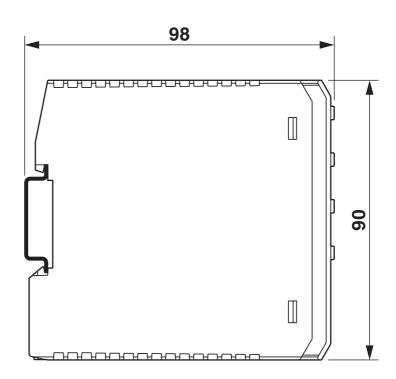


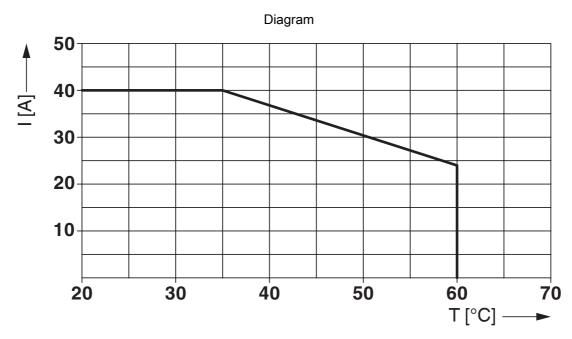
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Dimensional drawing







Max. permissible current in relation to the ambient temperature



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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

cULus Listed



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Classifications

ECLASS

	ECLASS-9.0	27141116	
	ECLASS-10.0.1	27140401	
	ECLASS-11.0	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

Label

Label - EML (10X7)R - 0816663

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

Equipment marking

Equipment marking - EML-ESD (20X7)R - 0830567 https://www.phoenixcontact.com/us/products/0830567



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



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Power supply unit

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

Power supply unit

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

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

Power supply unit

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

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

Power supply unit

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

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

Power supply unit

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

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

Power supply unit

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