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Multi-channel electronic device circuit breaker that can be preconfigured, 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.

Why buy this product

- ☑ 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
- 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
- ☑ Status LEDs in traffic light colors enable instantaneous determination of operating states



Key Commercial Data

Packing unit	1 STK
Minimum order quantity	6 STK
Custom tariff number	85363090
Country of origin	Germany

Technical data

Dimensions

Height	90 mm
Width	36 mm
Depth	98 mm

Ambient conditions

Ambient temperature (operation)	-25 °C 60 °C
Ambient temperature (storage/transport)	-40 °C 70 °C
Humidity test	96 h, 95% RH, 40°C



Technical data

Ambient conditions

Altitude	≤ 2000 m (amsl (above mean sea level))
Shock (operation)	30g
Degree of protection	IP20

General

Flammability rating according to UL 94	V-0
Mounting type	DIN rail: 35 mm
Color	light grey RAL 7035
Protection class	III
Туре	DIN rail module, one-piece

Electrical data

Fuse type	electronic
Rated surge voltage	0.5 kV
Operating voltage	18 V DC 30 V DC
Rated voltage	24 V DC
Rated current I _N	max. 16 A DC
	max. 40 A DC (per terminal position when bridging additional devices via IN+)
	1 / 2 / 3 / 4 A DC (Adjustable or fixed per output channel)
Measuring tolerance I	typ. 15 %
Rated insulation voltage U _i	30 V (Load circuit)
Feedback resistance	max. 35 V DC
Required backup fuse	not required, integrated failsafe element
Efficiency	> 99 %
Closed circuit current I ₀	typ. 33 mA
Power dissipation	typ. 0.8 W (No-load operation)
	4 W (Nominal operation)
Module initialization time	1.6 s
Waiting time after switch off of a channel	5 s (of overload / short circuit)
Tripping method	E (electronic)
Dielectric strength	max. 35 V DC (Load circuit)
Contact type	without electrical isolation
MTBF (IEC 61709, SN 29500)	11764705 h (at 25°C with 21% load)
	5319148 h (at 40°C with 34.25% load)
	846023 h (at 60°C with 100% load)
Shutdown time load circuit	\leq 10 ms (for short circuit > 2.0 x I _N)
	1 s (1.2 2.0 x I _N)



Technical data

Electrical data

Undervoltage shutdown load circuit	≤ 17.8 V DC (active)
	≥ 18.8 V DC (inactive)
Surge voltage shutdown load circuit	≥ 30.5 V DC (active)
	≤ 29.5 V DC (inactive)
Max. capacitive load load circuit	$30000\ \mu\text{F}$ (Depending on the current setting and the short-circuit current available)
Vibration resistance, test duration	Per axis and direction

Remote indication contact

Connection name	Remote indication circuit
Switching function	N/O contact
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 mm² 2.5 mm²
DC operating voltage	0 V DC 30 V DC
DC operating current	100 mA DC

Connection data

Connection name	Main circuit IN+
Connection method	Push-in connection
Stripping length	15 mm
Conductor cross section solid	0.2 mm² 10 mm²
Conductor cross section AWG	15 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
Connection name	Main circuit IN-
Connection method	Push-in connection
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 mm² 2.5 mm²
Connection name	Main circuit OUT
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12



Technical data

Connection data

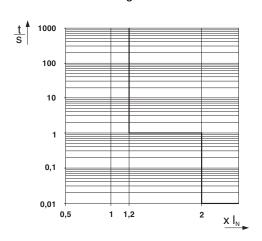
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²

Standards and Regulations

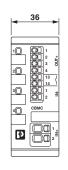
Standards/specifications	EN 61000-6-2
	EN 61000-6-3
	EN 60068-2-78
	UL 508
	UL 2367
	UL 1310 Class 2 Power Units

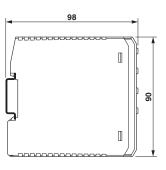
Drawings

Diagram



Dimensional drawing





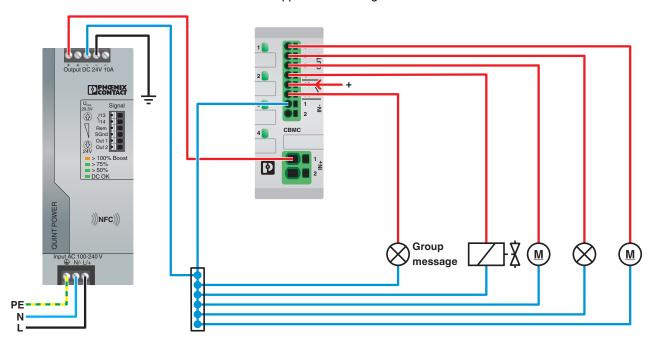
Trigger characteristic in the DC range



Product drawing



Application drawing



Classifications

eCl@ss

010 54	0711110	
eCl@ss 5.1	I 2/141116	
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Classifications

eCl@ss

eCl@ss 6.0	27141116
eCl@ss 8.0	27141116
eCl@ss 9.0	27141116

ETIM

ETIM 5.0	EC000899
ETIM 6.0	EC000899

UNSPSC

UNSPSC 13.2	39121410

Approvals

Approvals

Approvals

UL Listed / cUL Listed / EAC / UL Recognized / UL Recognized / cULus Listed

Ex Approvals

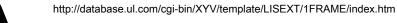
Approval details

UL Listed http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 123528

cUL Listed http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 123528

RU C-DE.A*30.B01561

UL Recognized



FILE E 317172



Approvals

UL Recognized



http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm E317172-20150319

cULus Listed



Accessories

Additional products

Label - EML (10X7)R - 0816663



Label, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, mounting type: adhesive, lettering field size: 10 x

Equipment marking - EML-ESD (20X7)R - 0830567



Equipment marking, Roll, white, unlabeled, can be labeled with: THERMOMARK ROLL, THERMOMARK ROLL X1, THERMOMARK ROLLMASTER 300/600, THERMOMARK X1.2, THERMOMARK S1.1, mounting type: adhesive, lettering field size: 20 x 7 mm

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



Accessories

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

Power supply unit - QUINT4-PS/3AC/24DC/10 - 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 - QUINT4-PS/3AC/24DC/20 - 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

Power supply unit - TRIO-PS-2G/1AC/24DC/10 - 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 - TRIO-PS-2G/1AC/24DC/20 - 2903151



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



Accessories

Power supply unit - TRIO-PS-2G/3AC/24DC/5 - 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 - TRIO-PS-2G/3AC/24DC/10 - 2903154



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

Power supply unit - TRIO-PS-2G/3AC/24DC/20 - 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 - TRIO-PS-2G/3AC/24DC/40 - 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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