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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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Multi-channel electronic device 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.

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
- 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
GTIN	4 055626 149349
GTIN	4055626149349

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
Altitude	≤ 2000 m (amsl (above mean sea level))
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)



Technical data

Ambient conditions

	57.6 Hz 150 Hz (Acceleration 5g; in accordance with IEC 60068-2-6, Test Fc)
Degree of protection	IP20

General

Flammability rating according to UL 94	V-0
Mounting type	DIN rail: 35 mm
Color	light grey RAL 7035
Number of positions	4
Protection class	III
Туре	DIN rail module, one-piece

Electrical data

Fine time	
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 (IN+)
	max. 40 A DC (per terminal position when bridging additional devices via IN+)
	1 / 2 / 3 / 4 A DC (adjustable per output channel)
Measuring tolerance I	± 15 %
Feedback resistance	max. 35 V DC
Fail-safe element	4 A DC (per output channel)
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 (at overload / short circuit)
Tripping method	E (electronic)
Required backup fuse	not required, integrated failsafe element
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)
Undervoltage shutdown load circuit	≤ 17.8 V DC (active)
	≥ 18.8 V DC (inactive)
Surge voltage shutdown load circuit	≥ 30.5 V DC (active)



Technical data

Electrical data

	≤ 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)

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

Signaling

Channel LED off	off (Channel switched off)
Channel LED green	lit (Channel switched on)
Channel LED yellow	lit (Channel switched on, channel load > 80%)
	flashing (Programming mode active)
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)

Connection data

Connection name	Main circuit IN+
Connection method	Push-in connection
Stripping length	15 mm
Conductor cross section solid	0.2 mm ² 10 mm ²
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
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



Technical data

Connection data

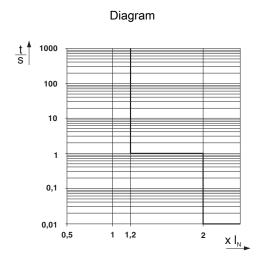
Connection method	Push-in connection
Stripping length	10 mm
Conductor cross section solid	0.2 mm² 2.5 mm²
Conductor cross section AWG	24 12
Conductor cross section, flexible, with ferrule, with plastic sleeve	0.25 mm² 1.5 mm²
Conductor cross section flexible, with ferrule without plastic sleeve	0.25 mm² 2.5 mm²

Standards and Regulations

Standards/specifications	EN 61000-6-2
	EN 61000-6-3
	EN 60068-2-6
	EN 60068-2-27
	EN 60068-2-78
	EN 50178
	UL 508
	UL 2367
	UL 1310 Class 2 Power Units

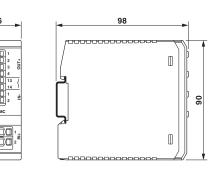
Environmental Product Compliance

Drawings



Trigger characteristic in the DC range

Dimensional drawing

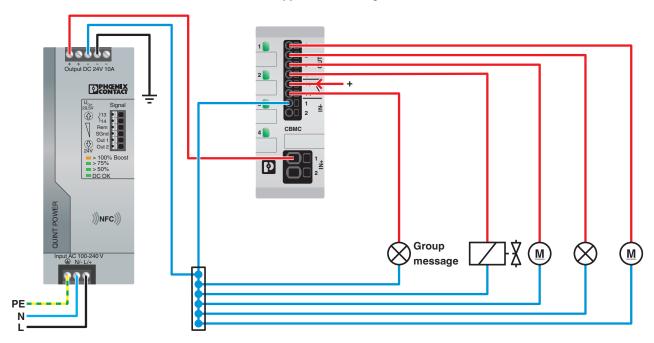




Product drawing



Application drawing



Approvals

Approvals

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



Approvals

Ex Approvals

Approval details

RU C-DE.A*30.B01561

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

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UL Recognized http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm FILE E 317172

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