

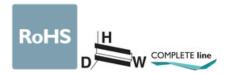
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Multi-channel electronic circuit breaker for protecting four loads at 24 V DC in the event of overload and short circuit. With electronic locking of the set nominal currents. For installation on DIN rails.

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



Key Commercial Data

| Packing unit | 1 pc |
|--------------------------------------|-----------------|
| GTIN | 4 055626 149356 |
| GTIN | 4055626149356 |
| Weight per Piece (excluding packing) | 121.400 g |
| Custom tariff number | 85363090 |
| Country of origin | Germany |
| Sales Key | CLA152 |

Technical data

Dimensions

| Height | 90 mm |
|--------|-------------------------------|
| Width | 36 mm |
| Depth | 98 mm (incl. DIN rail 7.5 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 | ≤ 3000 m up to 52 °C (amsl (above mean sea level)) |
|-----------------------|---|
| | \leq 4000 m up to 46 °C (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) |
| | 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 | 1 |
| Protection class | III |
| Degree of pollution | 2 |
| 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. 40 A DC (IN+) |
| | max. 40 A DC (per terminal position when bridging additional devices via IN+) |
| | 1 / 2 / 3 / 4 / 5 / 6 / 7 / 8 / 9 / 10 A DC (adjustable per output channel) |
| Measuring tolerance I | ± 15 % |
| Feedback resistance | max. 35 V DC |
| Fail-safe element | 15 A DC (per output channel) |
| 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) |
| 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) |
| Tripping method | E (electronic) |



Technical data

Electrical data

| 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) |
| 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) |
| 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 switch-off load circuit | ≤ 17.8 V DC (active) |
| | ≥ 18.8 V DC (inactive) |
| Overvoltage switch-off shutdown load circuit | ≥ 30.5 V DC (active) |
| | ≤ 29.5 V DC (inactive) |
| Max. capacitive load load circuit | $45000\mu\text{F}$ (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 |



Technical data

Connection data

| Conductor cross section solid | 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 |
| 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 mm ² 1.5 mm ² |
| Conductor cross section flexible, with ferrule without plastic sleeve | 0.25 mm ² 2.5 mm ² |
| 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 |
| 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 |

Standards and Regulations

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

Conformance/approvals

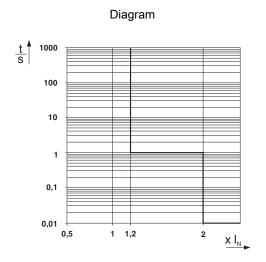
| Designation | UL approval |
|----------------|-----------------------|
| Identification | UL/C-UL Listed UL 508 |
| | UL Recognized UL 2367 |

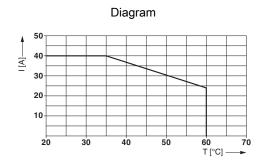
Environmental Product Compliance

| REACh SVHC | Lead 7439-92-1 |
|------------|---|
| China RoHS | Environmentally Friendly Use Period = 50 years |
| | For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration" |

Drawings





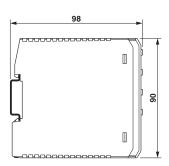


Max. permissible current in relation to the ambient temperature

Trigger characteristic in the DC range

Dimensional drawing

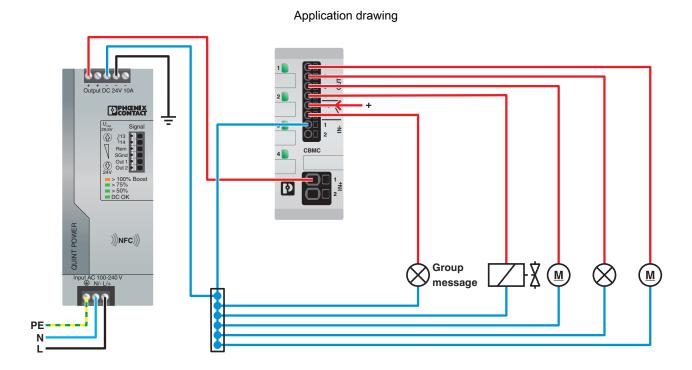




Product drawing







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