

Description

Single pole thermal circuit breaker with push-to-reset, tease-free, trip-free, snap action mechanism and separate manual release (M-type TO CBE to EN 60934). Designed for bolt-on mounting with terminal block type 83-P10.

Typical applications

Extra low voltage wiring systems on all types of vehicles and marine craft.

Ordering information

| Type No. | |
|--|---|
| 129 | base mounting and connection |
| L11 | Terminal design 90 ° bent terminals |
| H | Manual release manual release facility |
| KF | Housing standard |
| 10 A | Current ratings 3...25 A |
| 129 - L11 - H - KF - 10 A = ordering example | |

Standard current ratings and typical internal resistance values

| Current rating (A) | Internal resistance (Ω) | Current rating (A) | Internal resistance (Ω) |
|--------------------|-------------------------|--------------------|-------------------------|
| 3 | 0.1 | 8 | 0.02 |
| 3.5 | 0.06 | 10 | < 0.02 |
| 4 | 0.06 | 12 | < 0.02 |
| 4.5 | 0.05 | 16 | < 0.02 |
| 5 | 0.05 | 20 | < 0.02 |
| 6 | 0.02 | 25 | < 0.02 |
| 7 | 0.02 | | |

Approvals

| Authority | Voltage rating | Current rating |
|-----------------------|---------------------|----------------------|
| CSA, UL | AC 250 V DC 50 V | 3...20 A 3...25 A |
| BWB (VG 95345 part 9) | DC 28 V | 6...25 A |

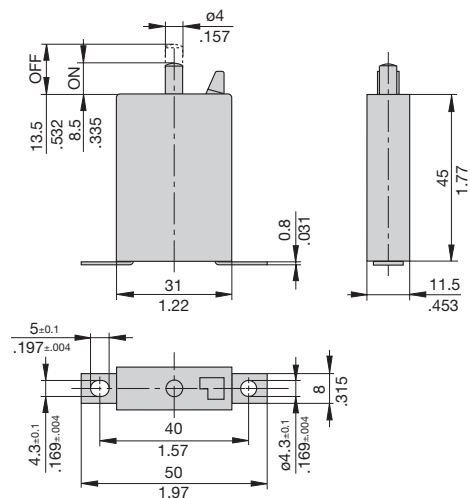


129-L11-H-KF

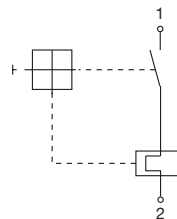
Technical data

| | | |
|---|---|--------------------------|
| Voltage rating | DC 28 V (UL: AC 250 V; DC 50 V) | |
| Current ratings | 3...25 A | |
| Typical life | 5,000 operations at 2 x I _N | |
| Ambient temperature | -40...+75 °C (-40...167 °F) | |
| Insulation co-ordination (IEC 60664 and 60664 A) | rated impulse withstand voltage 2.5 kV | pollution degree 2 |
| Dielectric strength (IEC 60664 and 60664A) operating area | test voltage AC 1,500 V | |
| Insulation resistance | > 100 MΩ (DC 500 V) | |
| Interrupting capacity I _{cn} | 3...5 A 20 x I _N 6...25 A 400 A | |
| Degree of protection (IEC 60529/DIN 40050) | operating area IP32 terminal area IP00 | |
| Vibration | 10 g (55-2000 Hz) ± 0.76 mm (10-55 Hz) to VG 95210 part 28 | |
| Shock | 50 g (11 ms) to VG 95210 part 28 | |
| Corrosion | 96 hours at 5 % salt mist, to VG 95210 part 2 | |
| Humidity | 240 hours at 95 % RH to VG 95210 part 7 | |
| Mass | approx. 25 g | |

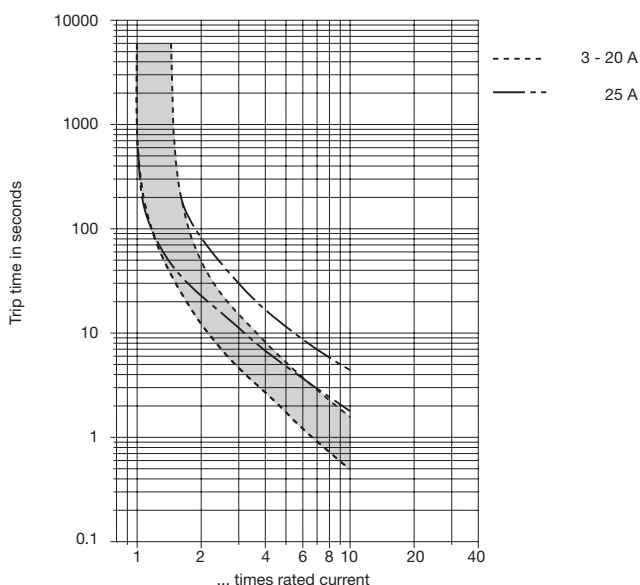
Dimensions



Internal connection diagram



Typical time/current characteristics at +23 °C/+73.4 °F

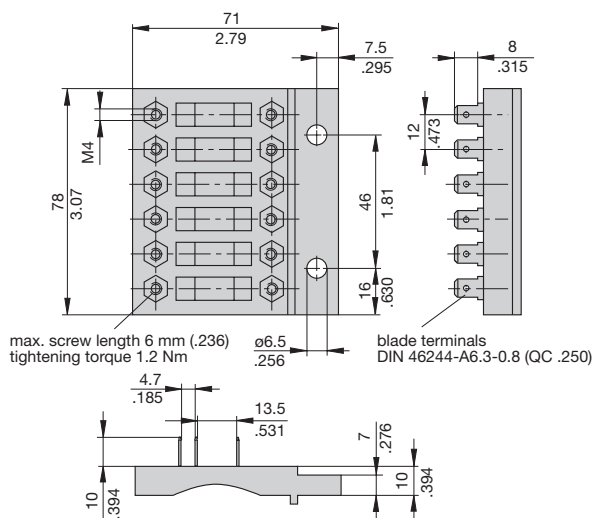


The time/current characteristic curve depends on the ambient temperature prevailing. In order to eliminate nuisance tripping, please multiply the circuit breaker current ratings by the derating factor shown below. See also section 9 – Technical information.

| Ambient temp. °F | -40 | -4 | +14 | +32 | +73.4 | +104 | +122 | +140 | +167 |
|------------------|------|------|------|------|-------|------|------|------|------|
| °C | -40 | -20 | -10 | 0 | +23 | +40 | +50 | +60 | +75 |
| Derating factor | 0,60 | 0,76 | 0,84 | 0,92 | 1 | 1,08 | 1,16 | 1,24 | 1,35 |

Accessories

Mounting block 83-P10



This is a metric design and millimeter dimensions take precedence ($\frac{mm}{inch}$)

All dimensions without tolerances are for reference only. In the interest of improved design, performance and cost effectiveness the right to make changes in these specifications without notice is reserved. Product markings may not be exactly as the ordering codes. Errors and omissions excepted.