

## 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

### Terminal design

L11 90° bent terminals

### Manual release

H manual release facility

### Housing

KF standard

### 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 ratings     | Current ratings      |
|-----------------------|---------------------|----------------------|
| CSA, UL               | AC 250 V<br>DC 50 V | 3...20 A<br>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<br>(UL: AC 250 V; DC 50 V)                             |                          |         |
| Current ratings   | 3...25 A   |                          |         |
| Typical life  | 5,000 operations at $2 \times I_N$                             |                          |         |
| Ambient temperature   | -40...+75 °C (-40...167 °F)                                    |                          |         |
| Insulation co-ordination<br>(IEC 60664 and 60664 A)             | rated impulse<br>withstand voltage<br>2.5 kV                   | pollution<br>degree<br>2 |         |
| Dielectric strength<br>(IEC 60664 and 60664A)<br>operating area | test voltage<br>AC 1,500 V                                     |                          |         |
| Insulation resistance   | > 100 MΩ (DC 500 V)  |                          |         |
| Interrupting capacity $I_{cn}$                                  | 3...5 A $20 \times I_N$<br>6...25 A 400 A                      |                          |         |
| Interrupting capacity<br>(UL 1077)                              | $I_N$<br>0.05...25 A   | $U_N$<br>DC 50 V         | 2,500 A |
| Degree of protection<br>(IEC 60529/DIN 40050)                   | operating area IP32<br>terminal area IP00                      |                          |         |
| Vibration   | 10 g (55-2,000 Hz) ± 0.76 mm (10-55 Hz)<br>to VG 95210 part 28 |                          |         |
| Shock   | 50 g (11 ms)<br>to VG 95210 part 28                            |                          |         |
| Corrosion   | 96 hours at 5 % salt mist,<br>to VG 95210 part 2               |                          |         |
| Humidity  | 240 hours at 95 % RH<br>to VG 95210 part 7                     |                          |         |
| Mass  | approx. 25 g   |                          |         |

