

**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**

<b>Type No.</b>	
129	base mounting and connection
<b>Terminal design</b>	
L11	90 ° bent terminals
<b>Manual release</b>	
H	manual release facility
<b>Housing</b>	
KF	standard
<b>Current ratings</b>	
	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 DC 50 V	3...20 A 3...25 A
BWB (VG 95345 part 9)	DC 28 V	6...25 A

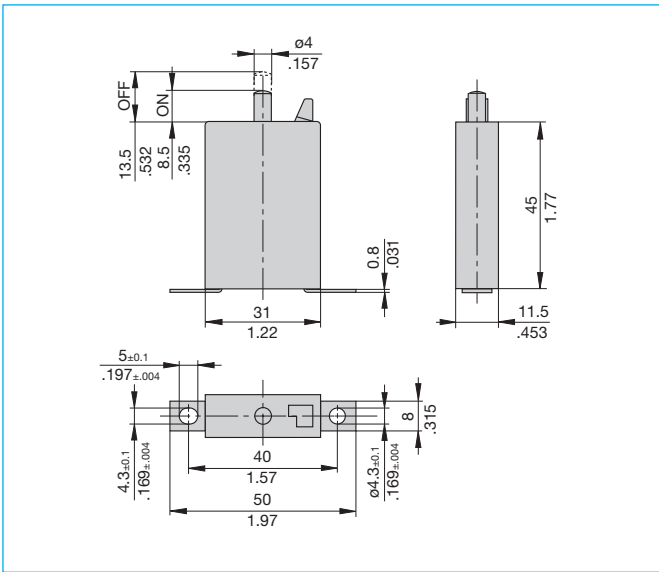


**129-L11-H-KF**

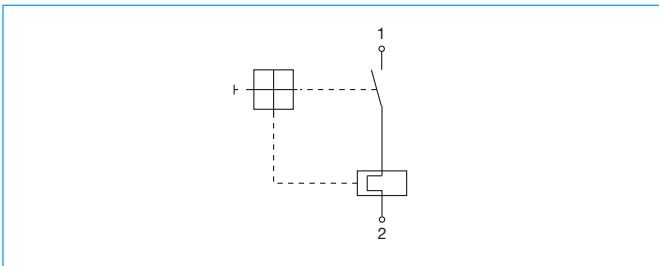
**Technical data**

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 <sub>N</sub>
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 <sub>cn</sub>	3...5 A 20 x I <sub>N</sub> 6...25 A 400 A
Interrupting capacity (UL 1077)	I <sub>N</sub> 0.05...25 A U <sub>N</sub> DC 50 V 2,500 A
Degree of protection (IEC 60529/DIN 40050)	operating area IP32 terminal area IP00
Vibration	10 g (55-2,000 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

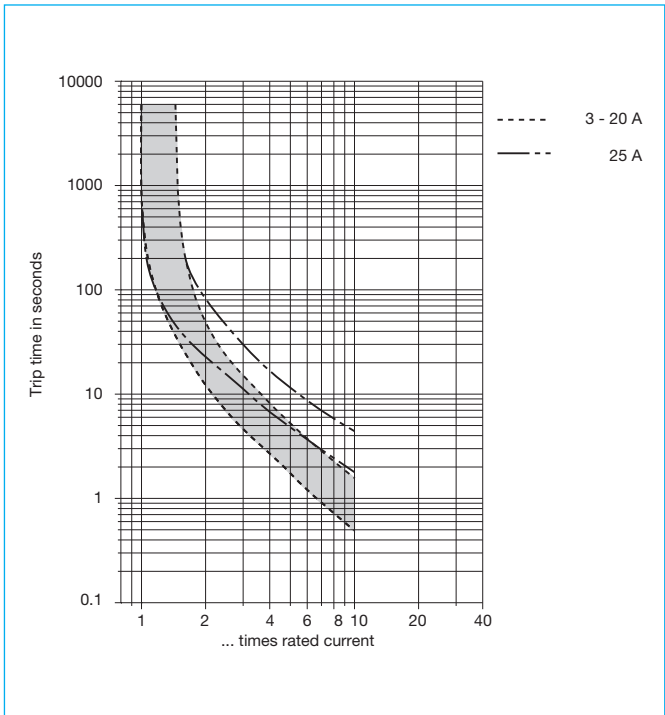
**Dimensions**



**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 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

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.