

Type: 1140-G



Miniaturised single pole thermal circuit breaker with push-to-reset tease-free, trip-free, snap action mechanism (R-type TO CBE to EN 60934), threadneck mounting.

For lower current ratings see types 106.

Approved to CBE standard EN 60934 (IEC 60934).

Voltage rating:

- AC 240 V
- DC 48 V
- UL/CSA: AC 250 V
- UL/CSA: DC 50 V

Current ratings:

from 3.5 A to 16 A

Number of poles:

single pole

Mounting method:

threadneck

Terminal design:

blade terminals

Actuation:

push button

Auxiliary contacts:

without auxiliary contacts

Water splash protection:

with water splash protection
without water splash protection

Illumination:

without illumination

Typical life:

3.5...8 A: 1,000 operations at $2 \times I_N$, resistive
10...16 A: 100 operations at $2 \times I_N$, inductive

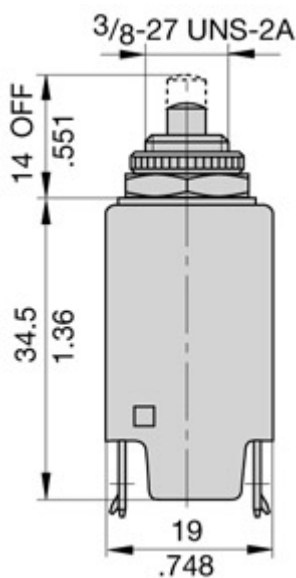
Interrupting capacity I_{cn} :

3.5...8 A: $8 \times I_N$
10...16 A: 120 A

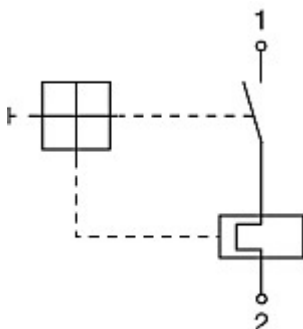
Approvals:

VDE, CSA, UL, Kema

Dimensions



Internal connection diagrams



Description

Miniaturised single pole thermal circuit breaker with push-to-reset tease-free, trip-free, snap action mechanism (R-type TO CBE to EN 60934). Available in versions for panel mounting, snap-in or threadneck, or as an integral type. For lower current ratings see types 104, 105, 106. Approved to CBE standard EN 60934 (IEC 60934).

Typical applications

Motors, transformers, solenoids, hand-held machines and appliances.

Ordering information

Type No.	1140	single pole thermal circuit breaker
Mounting		
E2		integral mounting
F1		snap-in panel mounting
G1		threadneck panel mounting 3/8-27UNS with hex nut and knurled nut*
G4		threadneck panel mounting 3/8-27UNS with knurled nut*
Number of poles		
1		1-pole protected
Actuator style		
1		black push button (standard)
Terminal design		
P1		blade terminals A6.3-0.8 (QC .250)
Characteristic curve		
M1		medium delay
Current ratings		3.5...16 A
1140 - F1 1 1 - P1 M1 - 10 A = ordering example		

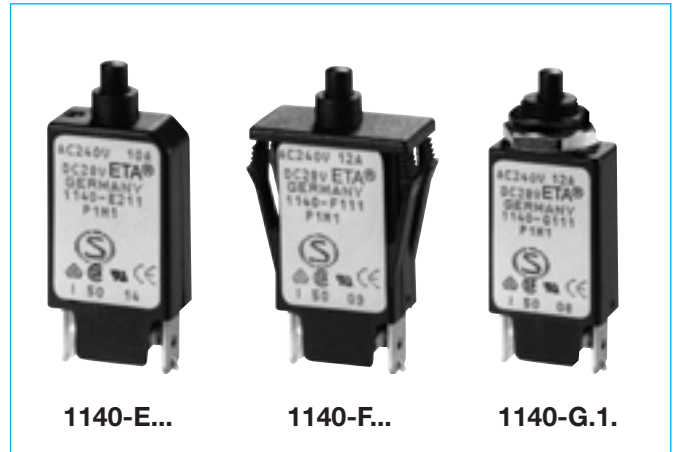
*mounting hardware bulk shipped

Standard current ratings and typical internal resistance values

Current rating (A)	Internal resistance (Ω)	Current rating (A)	Internal resistance (Ω)
3.5	0.06	10	< 0.02
4	0.04	12	< 0.02
5	0.03	13	< 0.02
6	0.02	15	< 0.02
7	< 0.02	16	< 0.02
8	< 0.02		

Approvals

Authority	Voltage ratings	Current ratings
VDE	AC 240 V; DC 48 V	3.5...16 A
CSA, UL	AC 250 V; DC 50 V	3.5...16 A
Kema (EN 60934)	AC 240 V; DC 48 V	3.5...16 A



Technical data

For further details please see chapter: Technical Information

Voltage rating	AC 240 V; DC 48 V (UL: AC 250 V; DC 50 V)		
Current ratings	3.5...16 A		
Typical life	AC + DC	3.5...8 A	200 operations at 2 x I _N , inductive 1,000 operations at 2 x I _N , resistive
		9...16 A	100 operations at 2 x I _N , inductive
Ambient temperature	-20...+60 °C (-4...+140 °F) T 60		
Insulation co-ordination (IEC 60664 and 60664 A)	rated impulse withstand voltage	pollution degree	2
	2.5 kV	reinforced insulation in operating area	
Dielectric strength (IEC 60664 and 60664A) operating area	test voltage	AC 3,000 V	
Insulation resistance	> 100 MΩ (DC 500 V)		
Interrupting capacity I _{cn}	3.5...8 A	8 x I _N	120 A
	10...16 A		
Interrupting capacity (UL 10777)	I _N	U _N	
	3.5...16 A	DC 50 V	200 A
	3.5...7A	AC 250 V	1,000 A
	8...16 A	AC 250 V	2,000 A
Degree of protection (IEC 60529/DIN 40 050)	operating area IP40 terminal area IP00		
Vibration	10 g (57-500 Hz) ± 0.76 mm (10-57 Hz), to IEC 60068-2-6, test Fc, 10 frequency cycles/axis		
Shock	25 g (11 ms) to IEC 60068-2-27, test Ea		
Corrosion	96 hours at 5 % salt mist, to IEC 60068-2-11, test Ka		
Humidity	240 hours at 95 % RH to IEC 60068-2-3, test Ca		
Mass	approx. 10 g		

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.

