

Type: 1410-G1



Single pole press-to-reset thermal circuit breaker with extremely fast overload switching performance (R-type TO CBE to EN 60934). Single hole threadneck mounting. Type 1410-G1 features changeover contacts suitable for providing status output signals. Largely temperature-insensitive.

Voltage rating:

- AC 240 V
- DC 28 V (DC 50 V upon request)
- UL/CSA: AC 250 V
- UL/CSA: DC 50 V

Current ratings:

from 0.63 A to 10 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:

500 operations at $2 \times I_N$, AC, resistive
500 operations at $2 \times I_N$, DC, inductive

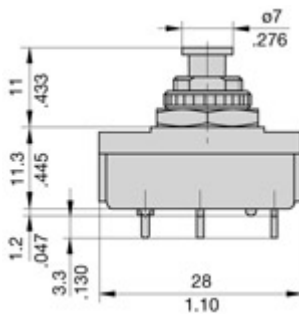
Interrupting capacity I_{cn} :

0.63...2 A: $12 \times I_N$
2.5...8 A: $8 \times I_N$ AC, max 50 A
10 A: $6 \times I_N$ AC
3.15...10 A: $10 \times I_N$ DC

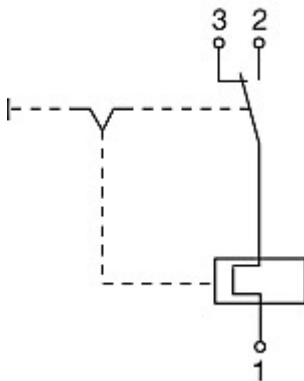
Approvals:

VDE, CSA, UL

Dimensions



Internal connection diagrams



Description

Single pole press-to-reset thermal circuit breaker with extremely fast overload switching performance (R-type TO CBE to EN 60934). Single hole threadneck, PCB or integral mounting with a choice of designs. Miniaturised construction minimises PCB real estate required. Type 1410-L2 and 1410-G1 versions feature changeover contacts suitable for providing status output signals. Largely temperature-insensitive.

Typical applications

Motors, transformers, solenoids, PCBs, hand-held machines, appliances, instrumentation.

Ordering information

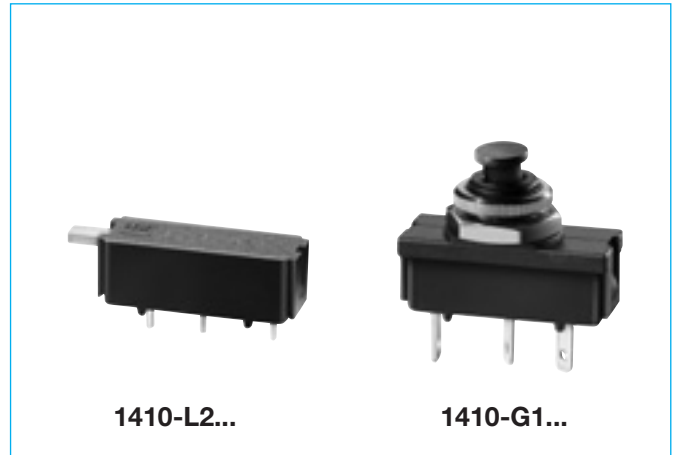
Type No.	1410	single pole circuit breaker
Configuration	L	PCB mounting or integral mounting
	G	threadneck panel mounting or PCB mounting
Mounting	1	threadneck 3/8-27UNS-2A (1410-G)
	2	PCB 10.15x7.62 (1410-L)
	3	PCB 10.15 without shunt terminal (1410-L)
Number of poles	1	1-pole, thermally protected
Hardware	0	without
	1	with hexnut and knurled nut (only 1410-G) > 5 pcs hexnut and knurled nut bulk shipped
	2	without hexnut and knurled nut and without shunt terminal (only 1410-G)
	4	with hexnut and knurled nut, without shunt terminal (only 1410-G)
	8	with actuator guard and marking CB.. (only 1410-G)
Terminal design	L2	solder pins 1x0.8 silver-plated
	P2	blade terminals DIN 46244-A2.8-0.8 silver-plated (only -G)
	P3	blade terminals DIN 46244-A4.8-0.5 silver-plated (only -G)
Characteristic curve	F1	fast acting
Actuator	B	flat reset-slide (only 1410-G)
	S	reset slide/button
Actuator colour	01	black (for -G1..)
	02	white (for -L2..)
	04	red (for 1410-G.-...B)
Current ratings		0.63...10 A

1410 - L 2 1 0 - L2 F1 - S 02 - 0.8 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)
0.63	1.8	3.15	< 0.12
0.8	1.7	4	< 0.1
1	1.3	5	< 0.1
1.5	< 1	6.3	< 0.1
1.8	< 1	8	< 0.1
2	< 1	10	< 0.1
2.5	< 0.15		



Technical data

For further details please see chapter: Technical Information

Voltage rating	AC 240 V; DC 28 V (UL: AC 250 V; DC 50 V)	
Current rating range 1-2	0.63...10 A	
Auxiliary circuit 1-3	0.2 x I _N max. 1 A, AC 250 V	
Typical life	AC 240 V: 0.63...2.25 A 500 break operations at 2 x I _N , inductive 2.5...10 A 500 break operations at 2 x I _N , resistive DC 50 V: 0.63...2.25 A 500 break operations at 2 x I _N , inductive DC 28 V: 2.5...10 A 500 break operations at 2 x I _N , inductive	
Ambient temperature	-20...+70 °C (-4...+158 °F)	
Insulation co-ordination (IEC 60664 and 60664 A)	rated impulse withstand voltage 2.5 kV	pollution degree 2 reinforced insulation in operating area
Dielectric strength (IEC 60664 and 60664 A)	test voltage operating area	AC 1,500 V
Insulation resistance	> 100 MΩ (DC 500 V)	
Interrupting capacity I _{cn} (o-o-o)	0.63...2 A 2.5...8 A 10 A 3.15...10 A	12 x I _N 8 x I _N , AC max. 50 A 6 x I _N , AC 10 x I _N , DC
Interrupting capacity (UL 1077)	0.63...10 A 0.63...10 A	2,000 A AC 250 V 200 A DC 50 V
Degree of protection (IEC 60529/DIN 40050)	operating area IP40 terminal area IP00	
Vibration	8 g (57-500 Hz) ± 0.61 mm (10-57 Hz), to IEC 60068-2-6, test Fc, 10 frequency cycles/axis	
Shock	20 g (11 ms) to IEC 60068-2-27, test Ea	
Corrosion	48 hours at 5 % salt mist, to IEC 60068-2-11, test Ka	
Humidity	96 hours at 95 % RH to IEC 60068-2-3, test Ca	
Mass	approx. 5 g	

Approvals

Authority	Voltage rating	Current ratings
VDE	AC 240 V DC 50 V DC 28 V	0.63...10 A 0.63...2 A 2.5...10 A
UL, CSA	AC 250 V; DC 50 V	0.63...10 A

