

## 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

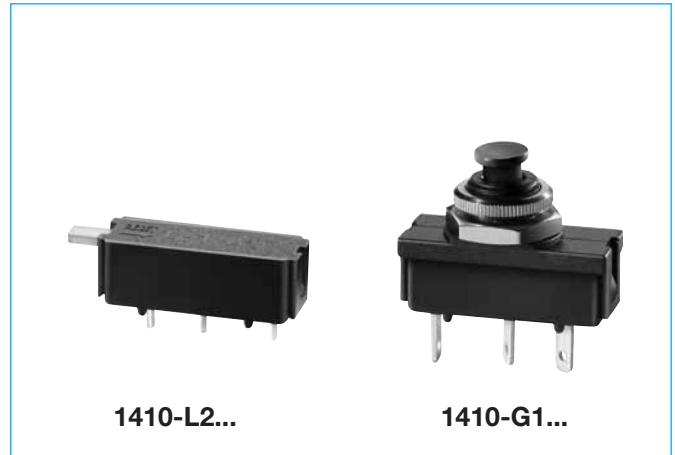
<b>Type No.</b>	1410	single pole circuit breaker
<b>Configuration</b>	<b>L</b>	PCB mounting or integral mounting
	<b>G</b>	threadneck panel mounting or PCB mounting
<b>Mounting</b>	<b>1</b>	threadneck 3/8-27UNS-2A (1410-G)
	<b>2</b>	PCB 10.15x7.62 (1410-L)
	<b>3</b>	PCB 10.15 without shunt terminal (1410-L)
<b>Number of poles</b>	<b>1</b>	1-pole, thermally protected
<b>Hardware</b>	<b>0</b>	without
	<b>1</b>	with hexnut and knurled nut (only 1410-G) > 5 pcs hexnut and knurled nut bulk shipped
	<b>2</b>	without hexnut and knurled nut and without shunt terminal (only 1410-G)
	<b>4</b>	with hexnut and knurled nut, without shunt terminal (only 1410-G)
	<b>8</b>	with actuator guard and marking CB.. (only 1410-G)
<b>Terminal design</b>	<b>L2</b>	solder pins 1x0.8 silver-plated
	<b>P2</b>	blade terminals DIN 46244-A2.8-0.8 silver-plated (only -G)
	<b>P3</b>	blade terminals DIN 46244-A4.8-0.5 silver-plated (only -G)
<b>Characteristic curve</b>	<b>F1</b>	fast acting
<b>Actuator</b>	<b>B</b>	flat reset-slide (only 1410-G)
	<b>S</b>	reset slide/button
<b>Actuator colour</b>	<b>01</b>	black (for -G1..)
	<b>02</b>	white (for -L2..)
	<b>04</b>	red (for 1410-G...-...B)
<b>Current ratings</b>		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 <sub>N</sub> max. 1 A, AC 250 V	
Typical life	AC 240 V: 0.63...2.25 A 500 break operations at 2 x I <sub>N</sub> , inductive 2.5...10 A 500 break operations at 2 x I <sub>N</sub> , resistive DC 50 V: 0.63...2.25 A 500 break operations at 2 x I <sub>N</sub> , inductive 2.5...10 A 500 break operations at 2 x I <sub>N</sub> , 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 60664A)	test voltage operating area	AC 1,500 V
Insulation resistance	> 100 MΩ (DC 500 V)	
Interrupting capacity I <sub>cn</sub> (o-o-o)	0.63...2 A 2.5...8 A 10 A 3.15...10 A	12 x I <sub>N</sub> 8 x I <sub>N</sub> , AC max. 50 A 6 x I <sub>N</sub> , AC 10 x I <sub>N</sub> , DC
Interrupting capacity (UL 1077)	0.63...10 A 0.63...10 A	2,000 A 200 A
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 60068-2-78, test Cab	
Mass	approx. 5 g	

## Approvals

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

