

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

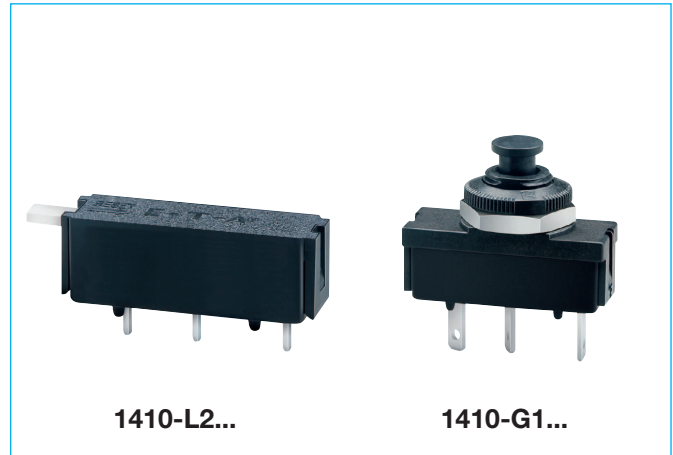
Type No.	1410	single pole circuit breaker
Mounting		
L2		PCB mounting or integral mounting 10.15 x 7.62
G1		threadneck panel mounting or PCB mounting
Number of poles		
1		1-pole, thermally protected
Hardware		
0		without
1		with hexnut and knurled nut (only 1410-G), bulk shipped with 5 pcs plus
Terminal design		
L2		solder pins 1x0.8 silver-plated
P2		blade terminals DIN 46244-A2.8-0.8 silver-plated (only -G)
Characteristic curve		
F1		fast acting
Actuator, type and colour		
S01		reset button, black (1410-G)
S02		reset slide, white (1410-L2)
Current ratings		
		0.63...10 A
1410 - L2 1 0 - L2 F1 - S 02 - 0.8 A ordering example		

Preferred types

Preferred types	Standard current ratings (A)									
	0.63	1	1.5	2	2.25	3.15	4	6.3	8	10
1410-G110-L2F1-S01-	x	x	x	x	x	x	x	x	x	x
1410-G111-P2F1-S01-	x	x	x	x	x	x	x	x	x	x
1410-L210-L2F1-S02-	x	x	x	x	x	x	x	x	x	x

Standard current ratings and typical internal resistance values

Current rating (A)	Internal resistance (Ω)	Current rating (A)	Internal resistance (Ω)
0.63	1.8	4	< 0.1
0.8	1.7	4.5	< 0.1
1	1.3	5	< 0.1
1.5	< 1	6.3	< 0.1
2	< 1	8	< 0.1
2.25	< 0.15	10	< 0.1
3.15	< 0.12		



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 60664A) operating area	test voltage 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 60068-2-78, test Cab	
Mass	approx. 5 g	

Approvals

Authority	Voltage ratings	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

