

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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❷ 国 A Thermal Overcurrent Circuit Breaker 1410-L1

Description

Single pole press-to-reset thermal circuit breaker with extremely fast overload switching performance (R-type TO CBE to EN 60934). Miniaturised construction minimises PCB real estate required. PCB mounting or integral mounting. Largely temperature-insensitive.

Typical applications

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

Ordering information

Type	No.								
1410	10 single pole circuit breaker								
	Configuration								
	L integral mounting or PCB mounting								
	Mounting								
	1 footprint 16.3x4.6								
	Number of poles								
	1 1-pole, thermally protected								
	Hardware								
	0 without								
	Terminal design								
	L1 solder pins 1.8x0.8 silver-plated								
	Characteristic curve								
	F1 fast acting								
	Actuator, Type and Colour								
	\$01 reset button, black								
	Current ratings								
	0.6310 A								
1410 -	L 1 1 0 - L1 F1 - S01 - 0.8 A ordering example								

^{*}mounting hardware bulk shipped

Preferred types

Preferred types	Standard current ratings (A)											
	0.63	0.8	1	1.5	2	2.5	3.15	4	5	6.3	8	10
1410-L110-L1F1- S01-	х	x	х	x	х	х	х	x	х	x	х	х

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		



1410-L1...

Technical data

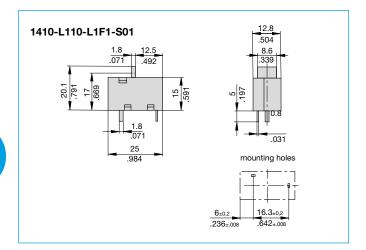
For further details please	see chapter: Technical Information			
Voltage rating	AC 240 V; DC 28 V			
Current rating range 1-2	(UL: AC 250 V; DC 50 V) 0.6310 A			
Typical life AC 240 V: 0.632.25 A 2.510 A DC 50 V: 0.632.25 A	500 break operations at 2 x I _N , inductive 500 break operations at 2 x I _N , resistive 500 break operations at 2 x I _N , inductive			
DC 28 V: 2.510 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 pollution withstand voltage degree 2.5 kV 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)	$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
Interrupting capacity (UL 1077)	0.6310 A 2,000 A AC 250 V 0.6310 A 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

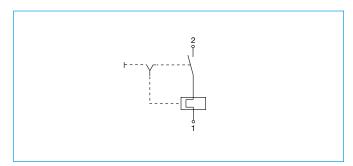
Authority	Standard	Rated voltage	Current ratings
VDE	IEC/EN 60934	AC 240 V DC 50 V DC 28 V	0.63 A6,3 A 0.63 A2.25 A 2.5 A10 A
UL	UL 1077	AC 250 V DC 50 V	0.63 A10 A 0.63 A10 A
CSA	C22.2 No 235	AC 125 V DC 48 V	0.63 A8 A 0.63 A8 A

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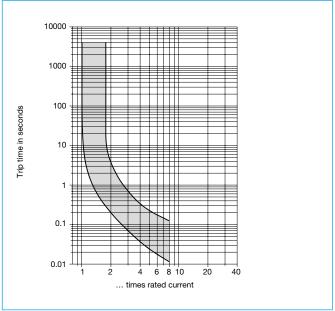
Dimensions



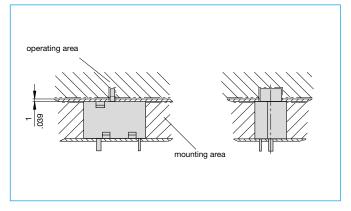
Internal connection diagram



Typical time/current characteristics at +23 °C/+73.4 °F



Installation drawings



This is a metric design and millimeter dimensions take precedence $(\underline{\text{mm}}_{\text{inch}})$

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.