

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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② E 小A Thermal Automotive Circuit Breaker 1160-...

Description

Thermal circuit breaker, with controlled self-resetting mechanism, specially suited to installation in inaccessible locations. Under overload conditions the circuit breaker contacts will open to protect the load circuit. A low current excitation circuit ensures that the contacts remain open thereby avoiding the hazards of automatic reset operation. The circuit breaker is reset by switching off the supply circuit for a short period. Class 2 device, contacts stay open until voltage is removed. Type II to SAE J 553.

Typical applications

Automotive and marine extra low voltage wiring systems and components, battery powered appliances.

Туре	No.	
1160	sing	gle pole plug-in type
	Des	sign standard
	02	standard version 12 V
	Т	Current ratings
		12, 15, 20, 30 A

Standard current ratings and typical voltage drop values

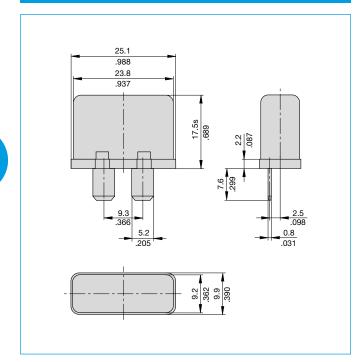
Current rating (A)	Voltage drop (mV)			
12	< 150			
15	< 150			
20	< 150			
30	< 150			



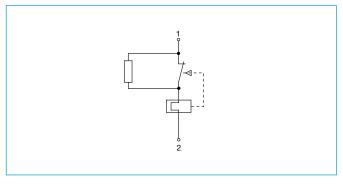
Technical data						
Wallana and Para	DO 40.1/					
Voltage rating	DC 12 V					
Current ratings	1230 A					
Typical life	300 operations at 2 x I _N					
Ambient temperature	-30+60 °C (-22+140 °F)					
Holding current	< 0.6 A					
Reset time at 23°C after 5 s of load with U _N	< 35 sec					
Interrupting capacity (o-o-o)	200 A, L/R = 2.5 ms					
Degree of protection (IEC 60529/DIN 40050)	housing area IP54 terminal area IP00					
Vibration	5 g (57-500 Hz) ± 0.38 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 60068-2-78, test Cab					
Mass	approx. 6 g					

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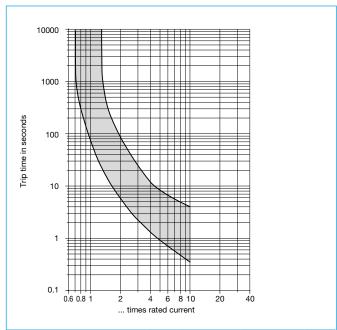
Dimensions



Internal connection diagram



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



The time/current characteristic curve depends on the ambient temperature prevailing. In order to eliminate nuisance tripping, please multiply the circuit breaker current ratings by the derating factor shown below. See also section Technical information.

Ambient temperature °F °C		+14 -10	+32 0	+73.4 +23			+140 +60
Derating factor	0.76	0.84	0.92	1	1.08	1.16	1.24

Accessories

Sockets available to special order.

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

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.