図 G 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.

Ordering information

Type No.							
1160	single pole plug-in type						
	Design standard						
	02	standard version 12 V					
		Current ratings					
		12, 15, 20, 30 A					
1160	- 02	- 12A ordering example					

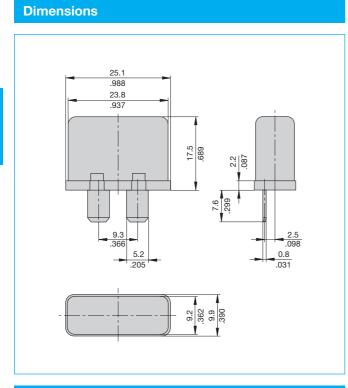
Standard current ratings and typical voltage drop values									
Current rating (A)	Voltage drop (mV)								
12	< 150								
15	< 150								
20	< 150								
30	< 150								



Technical data

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 60068-2-3, test Ca						
Mass	approx. 6 g						

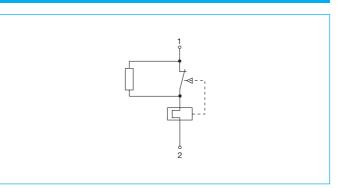
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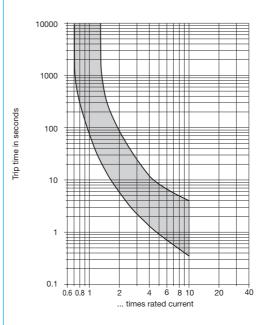
Accessories

Sockets available to special order.

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 9 – Technical information.

Ambient temperature °F	-4	+14	+32	+73.4 +23	+104	+122	+140
°C	-20	-10	0	+23	+40	+50	+60
Derating factor	0.76	0.84	0.92	1	1.08	1.16	1.24

This is a metric design and millimeter dimensions take precedence $\left(\frac{mm}{inch}\right)$

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.