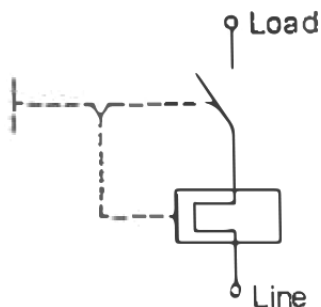


RoHS  
Compliant



Internal Connection Diagram

## Specification

### Technical data

Current rating range	: 0.8A to 15A
Input voltage rating	: 125/250V AC; 12/24V DC
Interrupting Capacity	: 125/250V AC × 200A
Interrupting capacity Icn	: 0.8A. 1.0A 6x In; AC max 6A 1.1A... 1.5A 6x In; AC max 9A 1.6A... 15A Bx In, AC max 45A
Reset time	: 200% of rating current within 50 seconds 150% of rating current wrthin 5 minutes
Dielectric Strength	: >1,500V AC/min
Insulation Resistance	: >100MΩ (DC 500V)
Degree of protection	: Terminal area IP00; operating area IP30
Typical life	: 1,000 operations at 200% overload.

### Mechanical/Environmental Data

Operating Ambient Temperature	: -10°C to +60°C
Termination	: 110"(2.8mm) quick connects or solder terminals

### Typical applications

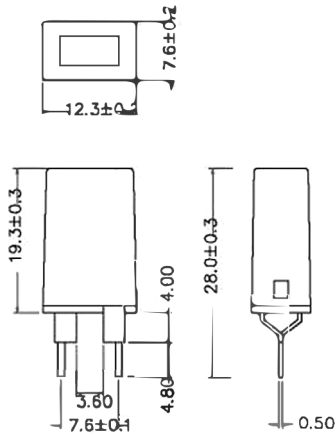
Transforms, Motors, Battery chargers, Power supplies, appliances, extra low voltage systems, machinery

### Calibration (at 25°C)

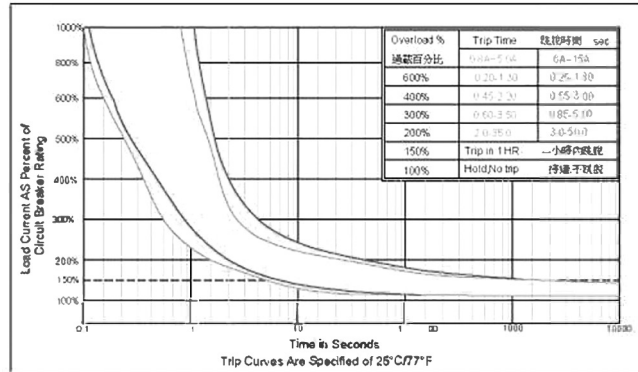
Rated: 6-15A

100% of Rated Current	: Hold, No Trip
135% of Rated Current	: Trip Within 1 Hour.
200% of Rated Current	: 3.0-50 sec Trip
300% of Rated Current	: 0.85-5 sec Trip

## Diagram



## Trip Time Curves



## Ambient Temperature Correction Factor

Ambient temperature	0.10°C	0°C	10°C	25°C	35°C	40°C	50°C	60°C
Division factor	1.3	1.2	1.1	1	0.94	0.85	0.73	0.68

The time/current characteristic curve depends on the ambient temperature prevailing, in order eliminate nuisance tripping. Please divide the circuit breaker current ratings by the derating factor shown below.

Example:

Normal Continuous Current : 10A  
 Ambient Temperature : 40°C  
 Division Factor : 0.85  
 Recommended Rating : 10A/0.85=11.8A  
 Select the Nearest Rating : 12A

## Max. Internal Resistance

Max resistance V.S Current rating at 25°C	
Amp rating	Max resistance
0.8-1.5 Amp	<0.65Ω
1.6-2 Amp	<0.15Ω
2.1-2.9 Amp	<0.1Ω
3-4 Amp	<0.075Ω
4.1-6 Amp	<0.06Ω
6.1-8 Amp	<0.05Ω
8.1-10 Amp	<0.045Ω
11-150 Amp	<0.04Ω

## Part Number Table

Description	Part Number
Thermal Circuit Breaker, Auto reset, 1 pole, 1A	MP013620

Dimensions : Millimetres

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