

91 Series Thermal Circuit Breaker

Single Pole Push to Reset



•Technical data

- Current rating range 0.5~10A
- Input voltage rating 125/250VAC; 50VDC
- Interrupting Capacity 125/250VAC x 1,000A(UL 1077)
- Typical life 1,000 operations at 200% overload.
- Insulation co-ordination Rated impulse withstand voltage 2.5kV
- Dielectric Strength > 1,500VAC/min.
- Insulation Resistance >100MOHM (DC 500V)
- Degree of protection Terminal area IP00, operating area IP40



•Mechanical/Environmental Data

- Operating Ambient Temperature: -10°C to +60°C
- Termination: 110"(2.8mm) quick connects or solder terminals
- Mounting: Various options. See Ordering Information and drawings

•Compliance with Rohs

The product accords with the requirement of ROHS(2011/65/EU)
Contacts use Exempted item of RoHS Directive 2010/571/EU 8(a)

•Compliance with REACH, PAHS, PH1, PH2, PH3

•Typical applications

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

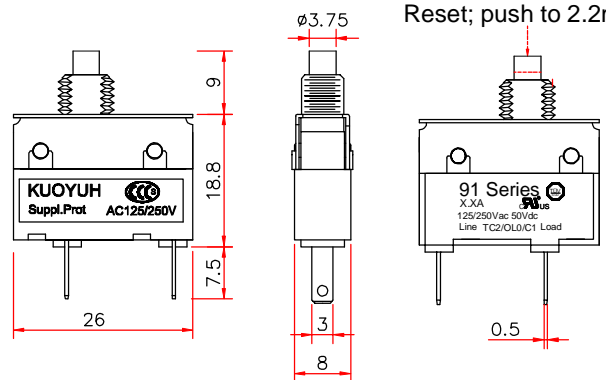
•Calibration(at25°C)

- 100% of Rated Current: Hold , No Trip
- 150% of Rated Current: Trip Within 1 Hour.
- 175% of Rated Current: 2.0-10.0 sec Trip
- 200% of Rated Current: 1.1-5.0 sec Trip

•Approval

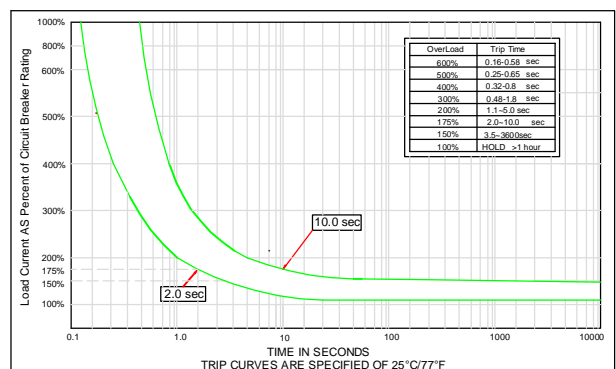
Approval & File No.	Rated current	Rated voltage
•CUL UL E155159	0.5-10.0A	125/250VAC; 50VDC
•TUV SUD B150158611006	0.5-10.0A	125/250VAC; 50VDC
•CCC 201101030752058	1.0-10.0A	125/250VAC.
•VDE 40036160	1.0-10.0A	125/250VAC.

Reset; push to 2.2mm



* Dimension in mm:

•91 Series 0.5~10A Trip Curves

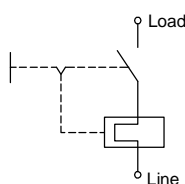


•Max.Internal Resistance

Rated current	Max.Internal Resistance
1.0A or less	400mOhms or less
1.25A or more	200mOhms or less

- <1>Rated current: 1.0A or less 400mOhms or less.
- <2>Rated current: 1.25A or more 200mOhms or less.

•Internal connection diagram

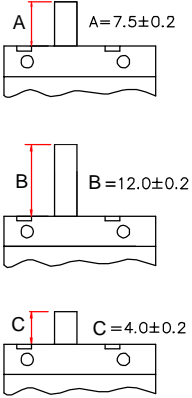
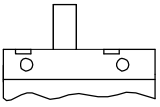
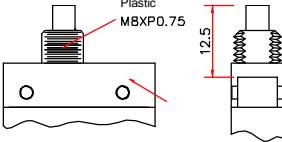
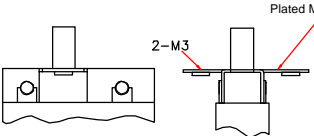
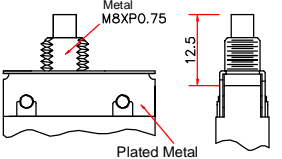
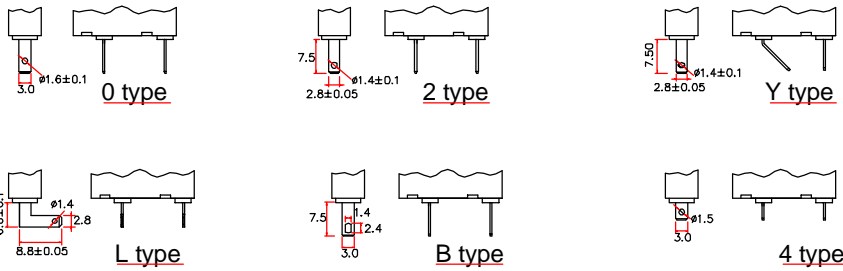


•Ambient Temperature Correction Factor

Ambient temperature	-10°C	0°C	10°C	25°C	35°C	40°C	50°C	60°C
Multiplication factor	*1.30	*1.20	*1.10	1.00	*0.94	*0.85	*0.73	*0.68

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.

Example : Normal Continuous Current = 10A
Ambient Temperature = 45°C
Multiplication Factor = 0.85
Recommended Rating= 10A/0.85=11.8A
Select the Nearest Rating = 12A

Order Guide	91-	A	N	R	- 2.5A	- 0	0
	Series No.	Type of Button 按鍵規格	Fitting Plate 固定方式	Color of Button 按鍵顏色	Rating Amp 電流額定	Terminal Type 端子種類	Terminal Finish 端子處理
							
		<p>N type</p> 					
		<p>P type</p> 					
		<p>T type</p> 					
		<p>M type</p> 					
<p>R= Red, B= Black, V= Violet G= Gray, Y= Yellow, U= Blue, O=Orange,</p>							
							
<p>0= Plate with Tin, N= Plate with Nickel</p>							