

98 Series Thermal Circuit Breaker

Single Pole Push to Reset



•Technical data

- Current rating range 5~30A
- Input voltage rating 125/250VAC; 32/50VDC
- 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: 250"(6.35mm) 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

- Ignition Proof Yes, UL PEQ22.E155159

•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.
- 200% of Rated Current: 5-30 sec Trip
- 300% of Rated Current: 1.5-5.0 sec Trip

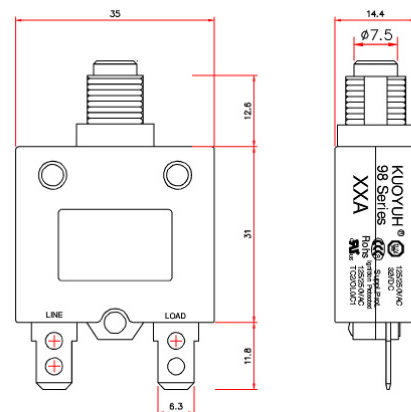
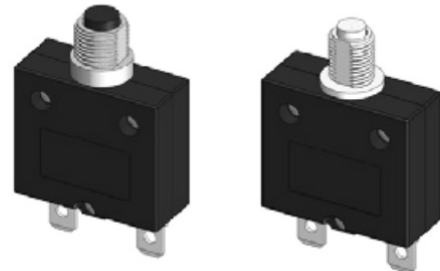
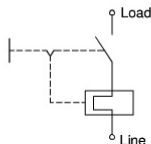
•Approval

Approval & File No.	Rated current	Rated voltage
•CUL UL E155159	3-50A	125/250VAC; 50VDC
•TUV SUD B15 09 58611 007	3-30A	125/250VAC; 32VDC
•CCC 201101030752058	3-30A	125/250VAC.
•VDE 40036160	3-16A	125/250VAC
•CSA 102199	3-30A	125VAC

•Max. Internal Resistance

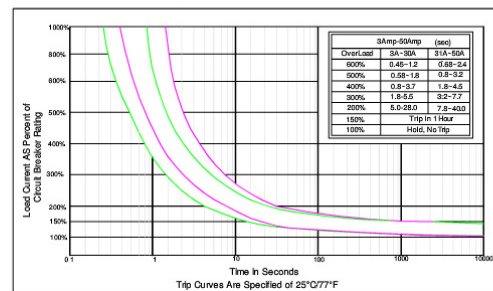
Amp rating	Max resistance
3~5 A	<0.225 Ohms
6~8 A	<0.175 Ohms
9~11 A	<0.125 Ohms
12~13 A	<0.050 Ohms
14~17 A	<0.040 Ohms
18~24 A	<0.030 Ohms
25~35 A	< 0.020 Ohms
36~50 A	< 0.010 Ohms

•Internal connection diagram



* Dimension in mm:

•98 Series 3A-50A Trip Time Curves



•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

* The specification subject to change without notice. The drawing is for reference only.

KUOYUH W.L. Enterprise Co.,Ltd.
No.17 Kalia 6th Road Douliu City Yunlin Hsien 64057 Taiwan R.O.C
<http://www.kuoyuh.com.tw> sales@kuoyuh.com
Taiwan Tel: 886 5 551 3222 Fax: 886 5 551 3030
China Tel: 86 769 8366 6386 Fax: 86 769 8366 6382
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KUOYUH
國聯企業股份有限公司
64057 雲林縣六甲鎮五路17號