EN

Professionally approved products.

Datasheet

88 Series Thermal Circuit Breaker

Single Pole Push to Reset

•Technical data

•Current rating range	3~30A
•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℃ to +60℃

•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

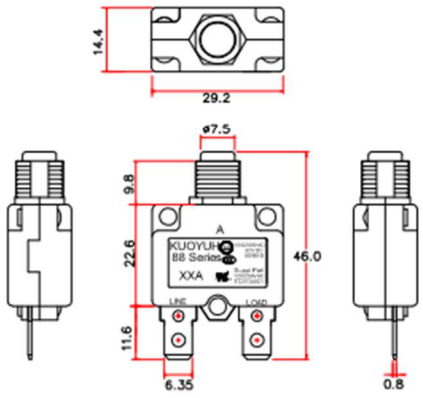
• Ignition Proof Yes, UL PEQZ2.E155159

•Typical applications

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

•Calibration(at25℃)

•100% of Rated Current: Hold , No Trip



* Dimension in mm:

•150% of Rated Current: Trip Within 1 Hour.

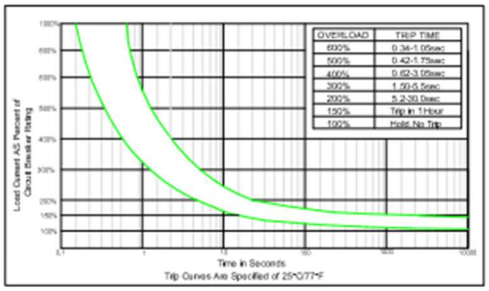
•200% of Rated Current: 5-30 sec Trip

•300% of Rated Current: 1.5-5.0 sec Trip

•Approval

•Approval & File No.	Rated current	Rated voltage
•CUL UL E155159	3-30A	125/250VAC; 50VDC
•TUV SUD B15 09 58811 007	3-20A	125/250VAC; 32VDC
•CCC 201101030752058	3-20A	125/250VAC.
•VDE 40036160	3-16A	125/250VAC
•CSA 102199	3-16A	125VAC

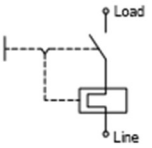
•88 Series 3A-30A Trip Time Curves



•Max.Internal Resistance

Amp rating	Max resistance
3.0 - 5.0Amp	<0.225 Ohms
6.0 - 8.0Amp	<0.175 Ohm
9.0 - 12.0Amp	<0.125 Ohm
13.0 - 16.0Amp	<0.050 Ohm
17.0 - 20.0Amp	<0.040 Ohm
21.0 - 25.0Amp	<0.030 Ohm
26.0 - 30.0Amp	< 0.020 Ohm

•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