

Technical Data

•Current rating range 3~30A

•Input voltage rating 125/250VAC; 32/50VDC

 Interrupting Capacity 125/250VAC x 1,000A(UL 1077) 1,000 operations at 200% overload. Typical life Rated impulse withstand voltage 2.5kV •Insulation co-ordination

•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 PEQZ2.E466099

Typical applications

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

Calibration (at 25°C)

•100% of Rated Current: Hold, No Trip Trip Within 1 Hour. •150% of Rated Current: •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 3-30A 125/250VAC; 50VDC •CUL UL E466099

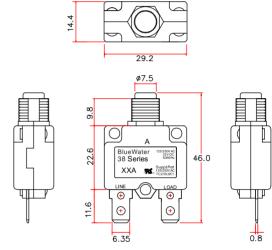
Max. Internal Resistance

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			

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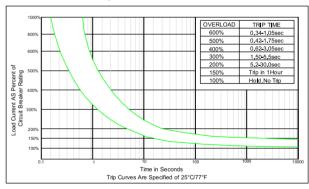






* Dimension in mm:

•38 Series 3A-30A 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
Division 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 Division Factor = 0.85 Recommended Rating= 10A/0.85=11.8A Select the Nearest Rating = 12A