ATR Thermal Circuit Protector for Equipment



Specifications:

Current Ratings: 0.5A - 16A, Standard Ratings Available Rated Voltage: 240 Vac, 50/60HZ, 32Vdc, 24Vdc (VDE)

Resettable Overload Capacity: 8x In for < 6A,

 $6x I_n$ or $60A max. \ge 6A$

Operating Temperature: 60°C Max. Ambient

Max. Interrupting Capacity: 1000A Insulation Resistance: >100 megohms

Dielectric Strength: 1.5 KV for 1 min. (per IEC 60934)

Operational Life: 1000 Cycles @ 2 x In

Designed to meet: Shock: per MIL-STD-202, method 213,

test condition I

Vibration: per MIL-STD-202, method 204

test condition A

Warranty: 24 months from date of manufacture, as marked on unit

Airpax Expands Offering

Airpax, a global leader in the supply of power protection products, has expanded its offering to include the new ATR thermal circuit protector for equipment. The ATR is a single pole, thermally operated overload protector with a snap-acting trip mechanism that provides reliable, trip-free operation on current overloads.

The ATR comes with an unequaled 24-month warranty.

Please contact Airpax for assistance in applying the ATR thermal circuit protector to meet your power protection needs.



Airpax Corporation 807 Woods Road Cambridge, Maryland 21613 USA Tel: 410.228.1500 Fax: 410.228.3456

AIRPAX

Application: Typical applications include power strips, single-phase motors, transformers, solenoids, UPS, etc.

Operation: The trip mechanism of the circuit protector is designed to open the contacts in the event of a current flow in excess of the rated current and in accordance with the time/current characteristics of the device. A bimetal strip deflects and releases the latch mechanism when heated by an overload. The strip has the advantage of being immune to high inrush currents and line transients. The contacts open and close with a positive snap action, and the tripped state is clearly indicated by the protruding reset button.

Shunt Terminal (Option N): Available on units of up to 6 amps equipped with a heater winding, an optional additional terminal can be provided as a parallel circuit to the main current-sensing circuit. The shunt circuit between terminals 1 and 3 may be used for any signal that may be required in addition to the main circuit. However, since the circuit makes use of the bimetal strip as a current-carrying path, the trip time of the circuit protector may be slightly influenced.

Time/Current Characteristics: The standard characteristic is valid for an ambient temperature of 23°C. However, if the device is to be used in an ambient temperature other than 23°C, an allowance must be made when selecting the current rating. See the following guidelines:

Ambient Temperature Correction Factor

-20 -5 0 +10 +20 +30 +40 +50 +60 Multiplication 0.8 0.88 0.9 0.96 1 1.05 1.12 1.2 1.3

Example: Normal Continuous Current: 1.8 A

Ambient Temp.: 40°C Multiplication Factor:

1.12 Recommended Rating: $1.8 \times 1.12 = 2.016$ Select the Nearest Rating: 2 A

Approvals:





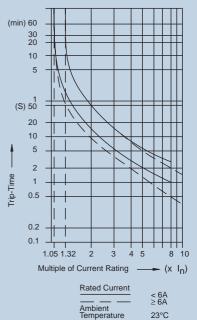
Up to 16A



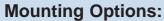
Up to 12A

RoHS Compliant

Operating Characteristics:

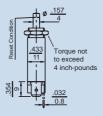


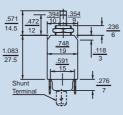
23°C



C - Central Nut Mounting





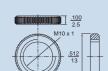




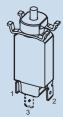


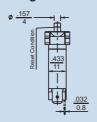
Knurled Nut:

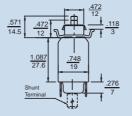
P/N 053-000-0002



W - Wing Clip Mounting









Panel Cutout

"D" Type "W" Type Double "D" Single "D"

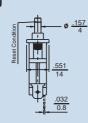


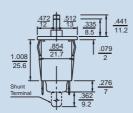
Panel Cutout

M10 x 1

S - Snap-in Mounting



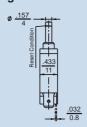


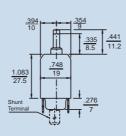


.862 .866 .870 .032 .039 .059 .079 .118 .878 .890

B - Integral Mounting





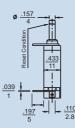


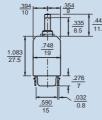
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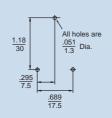
Tel: 410.228.1500 Fax: 410.228.3456

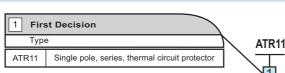
P - PCB Mounting



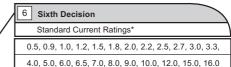








ATR11 - C - X - 63 - R - 7.0A 5 6



*For other ratings, please consult the factory.

Note Terminals 1 & 2 are standard for current ratings ≤ 6A Terminals 1 & 3 are standard for current ratings > 6A Terminals 1 & 2 are optional for current ratings ≤ 8A

2 Sec	ond Decision	
Mounting		
С	Central hex nut	
W	Wing clips	
D	Wing clips	
S	Snap-in	
В	Integral	
Р	PCB	

3 Third Decision		
Terminal Configuration		
Х	Terminal 1 & 2	
Υ	Terminal 1 & 3	
N	Shunt Terminal	

4 Fourth Decision		
Terminal		
63	.250 Q.C. terminal	
48	.187 Q.C. terminal	
28	.110 Q.C. terminal	
PCB	.040 solder terminal	

5	Fift	h Decision
Reset Button Color		
	₹	Red
- 1	3	Black
١	N	White
	RB	Red w/trip band
- 1	3B	Black w/trip band
1	ΝB	White w/trip band