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AIRPAX® | ATR11 Series Thermal Circuit Protector for Equipment

FEATURES

- RoHS compliant, single pole, thermal current overload protector
- Reliable, trip-free operation on current overloads
- Warranty: 24-months from date of manufacture

 Protection range and operating voltage: 0.1 to 16.0 Amps, 240 VAC, 50 VDC (cяUus,cCSAus) 0.5 to 12 Amps, 240 VAC, 24 VDC (VDE)

DESCRIPTION

The Airpax[™] ATR11 product family is a single pole, thermally operated overload protector with a snap-acting trip mechanism that provides reliable, trip-free operation on current overloads. The ATR11 series is designed with multiple mounting configurations including central nut, wing clip, snap-in, integral and PC board mounting.

SPECIFICATIONS				
Current Ratings	0.1 to 16 amps, standard ratings available			
Voltage Ratings	240 VAC, 50/60 Hz, 50 VDC, 24 VDC (VDE)			
Max Breaking Capacity	8x I _n for < 6A, 60A max. > 6A			
Conditional Short Circuit Capacity	1KA, PC1, 240Vac 24Vdc ref: EN60934, SC: 1KA, C1 240Vac 50Vdc ref: CSA22.2 No. 235.04, UL-1077			
Tripping Current Code (TC)	TC2 ref: CSA22.2, No. 234-04			
Insulation Resistance	Min 100 MΩ @ 500VDC			
Dielectric Strength	1,500 VAC for 1 min.			
Operational Life	1000 Cycles @ 2 x I _n			
Overload Rating	OL0 240Vac, 50Vdc, ref: CSA22.2, No. 235-04			
Overload Switching Capacity	6x I _n AC Up to 9A, 4x In DC Up to 12A 60A Max. from 10A to 12A			
Max Operating Temperature	60°C (140°F) Ambient			
Application Type	General Industrial ref: CSA22.2, No. 235-04			
Method of Tripping	Thermal "TO", trip-free			
Type of Actuation	Reset type "R"			

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 chart, graph and example below to help determine the right circuit protector rating for your application.

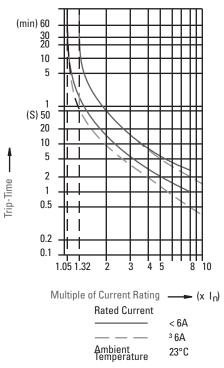
AMBIENT TEMPERATURE CORRECTION FACTOR									
Ambient Temperature (°C)	- 20	- 5	0	+ 10	+ 20	+ 30	+ 40	+ 50	+ 60
Multiplication Factor	0.8	0.88	0.9	0.96	1	1.05	1.12	1.2	1.3

Example :

Normal Continuous Current = 1.8 A Ambient Temperature = 40°C Multiplication Factor = 1.12 (from graph)

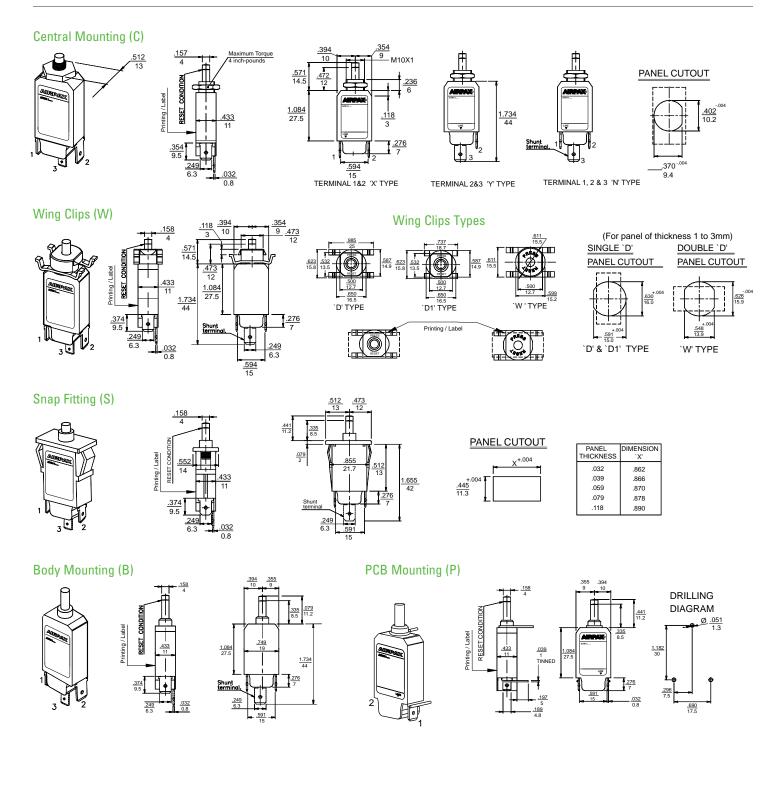
Recommended Rating: 1.8 x 1.12 = 2.016 Select the Nearest Rating = 2 amps

Operating Characteristics :



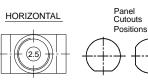


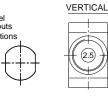
MOUNTING OPTIONS, inches [mm]

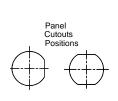


ADDITIONAL OPTIONS

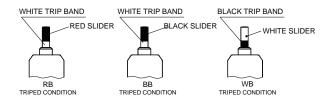
Button Marking for Current Rating





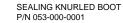


Button Color with Trip Band

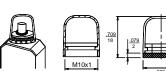


Accesories

KNURLED NUT P/N 053-000-0002







A sealing boot for central mounting Type (C) Circuit breaker to provide dust &splash protection (IP 54).

DECISION TABLES

1 Fir	est Decision		ATR11 - C - X - 0	63 - R - 1 - A - 7.0A	8 Eighth Decision Standard Current Ratings	.*
ATR11	Single pole, series	s, thermal circuit protector		┶┶┶┶	0.1, 0.25, 0.5, 0.8, 0.9, 1.0, 1. 8.0, 3.3, 4.0, 5.0, 6.0, 6.5, 7.0 'For other ratings, please consult the factory.	2, 1.5, 1.8, 2.0, 2.2, 2.5, 2.7, , 8.0, 9.0, 10.0, 12.0, 15.0, 16.0
	cond Decision unting Central hex nut			5 Fifth Decision	6 Sixth Decision	7 Seventh Decision
W D D1	Wing clip Wing clip Wing clip	3 Third Decision Terminal Format X Terminal 1 & 2	4 Fourth Decision Terminal 63 .250 Q.C.	Reset Button R Red B Black W White	Button Marking* 0 No Marking 1 Vertical	Mounting Nut N None A Knurled Metal
S B P	Snap-in Integral PCB	Y Terminal 2 & 3 N Shunt Terminal	48 .187 Q.C. 28 .110 Q.C. 10 PCB, .040 solder	W Write RB Red w/trip band BB Black w/trip band WB White w/trip band	2 Horizontal *D & D1 Mounting are supplied with -2 marking	B Slotted Knurled Metal C Hex Metal D Knurled Sealing Boot

Note: Terminals 1 & 2 are standard for current ratings \leq 12A Terminals 2 & 3 are standard for current ratings > 12A Terminals 1, 2 & 3 are optional for current ratings \leq 6A