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# AIRPAX® | ATR20 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 (cRUus,cCSAus)  
0.5 to 12 Amps, 240 VAC, 24 VDC (VDE)

### DESCRIPTION

The Airpax™ ATR20 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 ATR20 series is designed with multiple mounting configurations including central nut and wing clip.

SPECIFICATIONS	
Standard Current Ratings	2.5, 3, 4, 5, 6, 7, 8, 10, 12, 15, 16, 20 Amps (AC - inductive, DC - resistive)
Voltage Ratings	125 / 250 VAC, 50/60 Hz, 50 VDC
Max Breaking Capacity	8x I <sub>n</sub> for < 6A, 60A max. > 6A
Conditional Short Circuit Capacity Inc1 (PC1) per EN 60934	1000A 125 / 250VAC, 50VDC, SC:1kA, C1, 125 / 250VAC, 50VDC Ref. CSA 22.2 No. 235-04, UL 1077
Rated Short Circuit Capacity I <sub>cn</sub> Ref. EN 60934	Min. 6 X Rated Current (6 X I <sub>n</sub> ), 250VAC inductive Min. 4 X Rated Current (4 X I <sub>n</sub> ), 50VDC resistive
Tripping Current Code (TC)	TC2 ref: CSA22.2, No. 235-04
Insulation Resistance	Min 100 MΩ @ 500VDC
Dielectric Strength	1.5 KV for 1 min. (per EN60934)
Initial Withstand Voltage	2.5 KV (per EN60934)
Operational Life	1000 Cycles @ 2 x I <sub>n</sub>
Overload Rating	OLO 240Vac, 50Vdc, ref: CSA22.2, No. 235-04
Overload Switching Capacity	6x I <sub>n</sub> AC Up to 9A, 4x I <sub>n</sub> 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 button, type "R"
Weight	Approximately 17 grams
Applicable Approvals	UL 1077, CSA 22.2 No. 235-04, TÜV EN 60934

## TIME / CURRENT CHARACTERISTICS

The standard characteristic is valid for an ambient temperature of 25°C. However, if the device is to be used in an ambient temperature other than 25°C, an allowance must be made when selecting the current rating.

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

### AMBIENT TEMPERATURE CORRECTION FACTOR - 2.5 AMP CIRCUIT PROTECTOR

Ambient Temperature (°C)	- 20	- 10	0	+ 10	+ 25	+ 30
Multiplication Factor	0.58	0.6	0.7	0.8	1	1

### AMBIENT TEMPERATURE CORRECTION FACTOR - 3 AMP TO 4 AMP CIRCUIT PROTECTOR

Ambient Temperature (°C)	- 20	- 10	0	+ 10	+ 25	+ 30	+ 35
Multiplication Factor	0.8	0.85	0.9	0.9	1	1	1.1

### AMBIENT TEMPERATURE CORRECTION FACTOR - 5 AMP TO 20 AMP CIRCUIT PROTECTOR

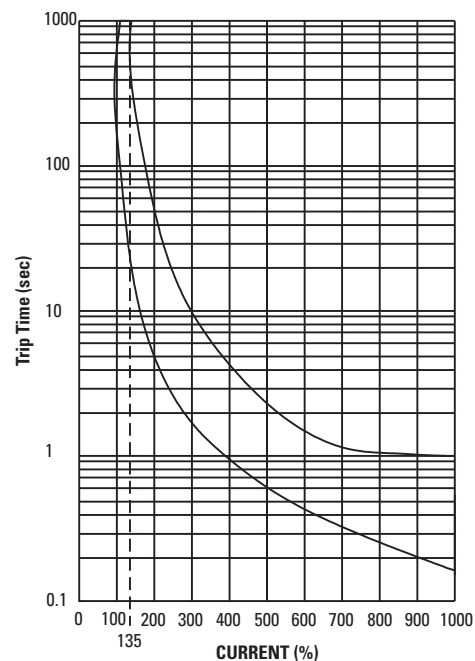
Ambient Temperature (°C)	- 20	- 10	0	+ 10	+ 25	+ 40	+ 50	+ 60
Multiplication Factor	0.8	0.85	0.88	0.9	1	1.1	1.3	1.4

#### Example :

Normal Continuous Current = 5.0 A  
 Ambient Temperature = 40°C  
 Multiplication Factor = 1.1 (from 3rd chart)

Recommended Rating:  $5.0 \times 1.1 = 5.5$   
 Select the Nearest Rating = 6.0 amps (nearest)

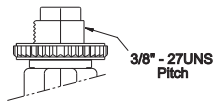
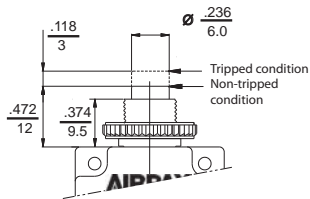
#### Operating Characteristics :



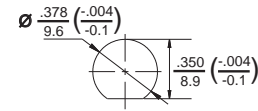
## MOUNTING OPTIONS, inches [mm]

### Central Mounting (A)

#### A. 3/8" - 27 UNS Thread

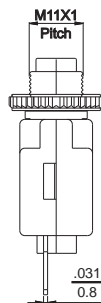
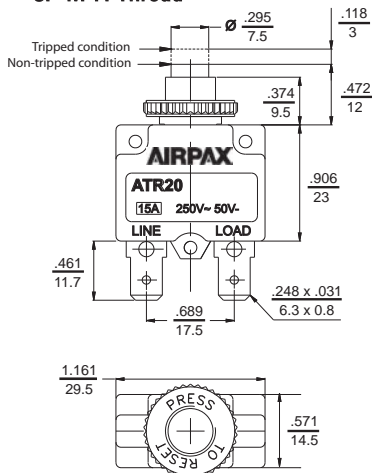


#### Panel cutout

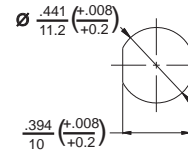


### Central Mounting (C)

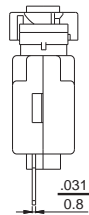
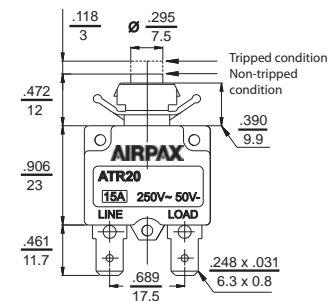
#### C. M 11 Thread



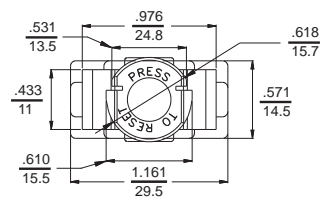
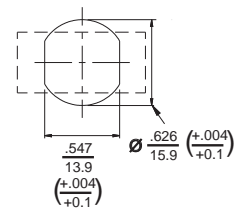
#### Panel cutout



### Wing Clips (W)



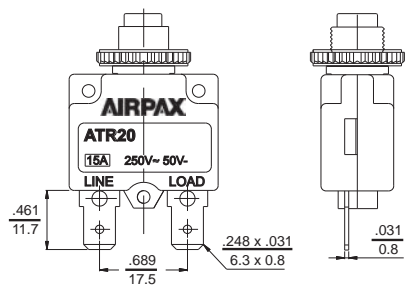
#### Panel cutout



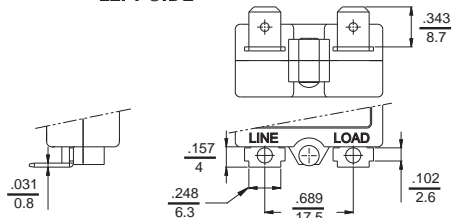
## ADDITIONAL OPTIONS

### Terminals

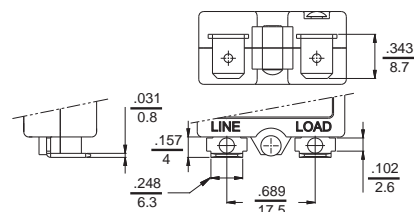
#### S. STRAIGHT



#### L. 90° BEND, LEFT SIDE

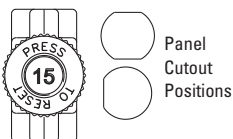


#### R. 90° BEND, RIGHT SIDE



### Button Marking

#### VERTICAL

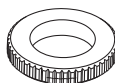


### Mounting Nuts

#### PLASTIC KNURLED NUT (P/N 053-200-0001)



#### METAL KNURLED NUT (P/N 053-200-0002)



#### METAL HEXAGONAL NUT (P/N 053-200-0003)

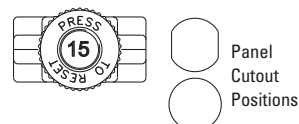


### Accessories

#### DUST COVER METAL KNURLED NUT (053-200-0005)



#### HORIZONTAL



### Indicator Plate



- TYPES:
1. Embossed (Aluminium) (P/N 053-200-0004)
  2. Silver Letters on Black (P/N 053-200-0007)

## DECISION TABLES

