

ATR Thermal Circuit Protector for Equipment



Specifications:

Current Ratings: 0.1A - 16A, Standard Ratings Available
 Rated Voltage: 240 Vac, 50/60Hz, 50Vdc, 24Vdc (VDE)
 Max. Breaking Capacity: $8 \times I_n$ for $< 6A$, 60A max. $\geq 6A$
 Operating Temperature: 60°C Max. Ambient
 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: >100 megohms (per EN60934)
 Dielectric Strength: 1.5 kV for 1 min. (per EN60934)
 Operational Life: 1000 Cycles @ $2 \times I_n$
 Overload rating: OL0 240Vac, 50Vdc, ref: CSA22.2, No. 234-04
 Overload Switching Capacity: $6 \times I_n$ AC Up to 9A, $4 \times I_n$ DC Up to 12A
 60A Max. from 10A to 12A
 Application type: General Industrial
 Method of Tripping: Thermal "TO," trip-free
 Type of Actuation: Reset type "R"

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



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

Ambient Temp. (°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 Temp.:
 40°C
 Multiplication Factor:
 1.12
 Recommended Rating:
 $1.8 \times 1.12 = 2.016$
 Select the Nearest Rating:
 2 A

Approvals:



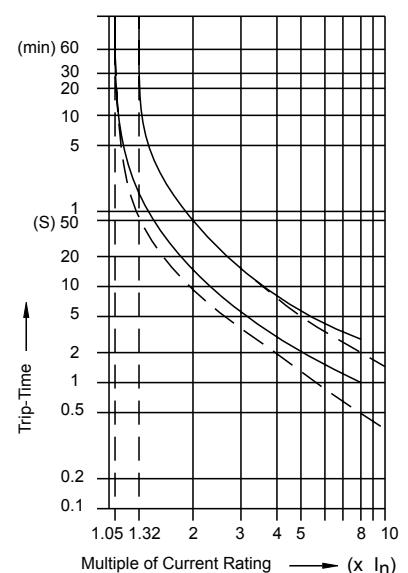
0.1 to 16A,
 240Vac, 50Vdc



0.5 to 12A
 240Vac, 24Vdc

RoHS
 Compliant

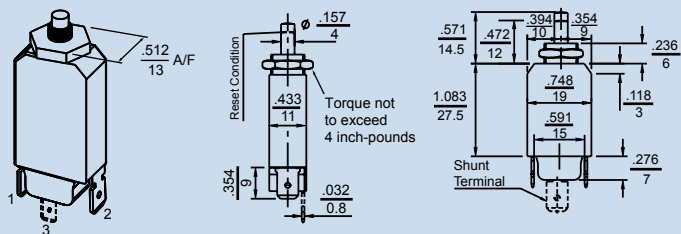
Operating Characteristics:



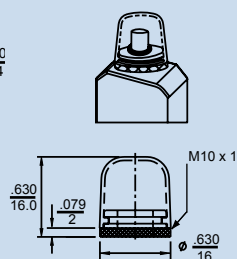
Rated Current
 ———— $< 6A$
 ———— $\geq 6A$
 Ambient Temperature
 23°C

Mounting Options: inch mm

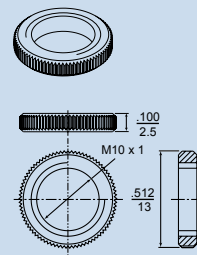
C - Central Nut Mounting



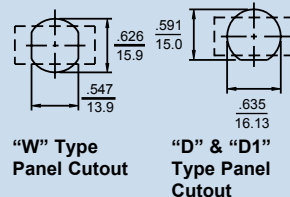
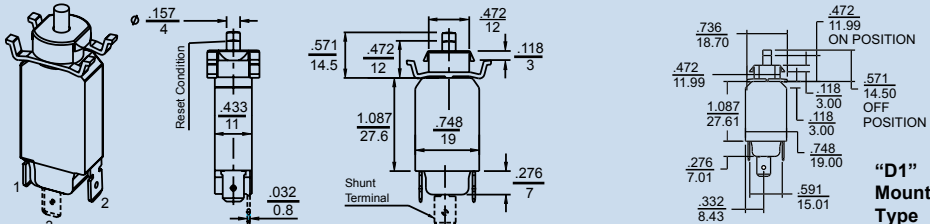
Protective Cover:
Dust/Splash (IP54)
P/N 053-000-0001



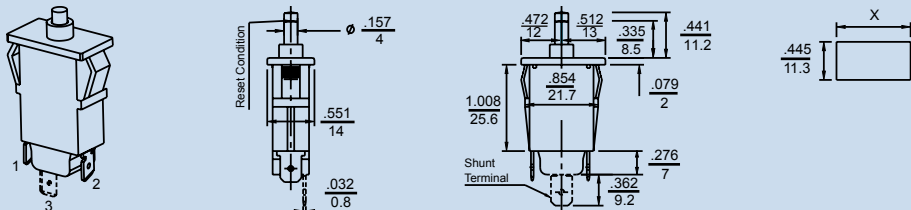
Knurled Nut:
P/N 053-000-0002



W - Wing Clip Mounting

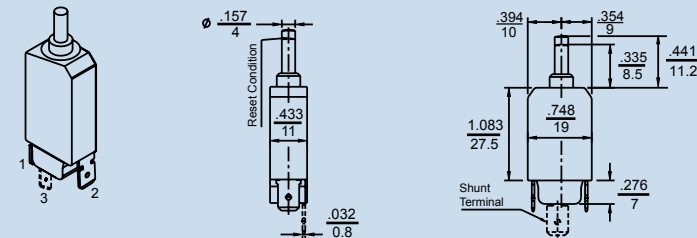


S - Snap-in Mounting

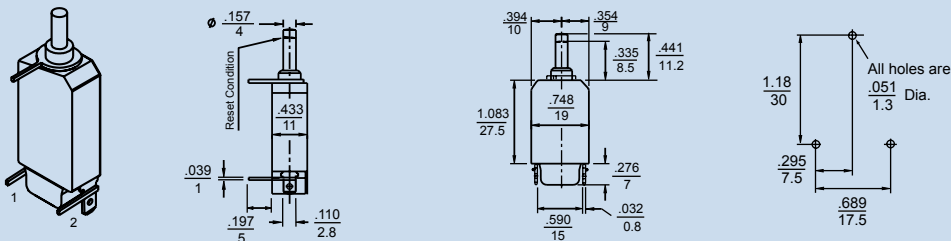


Panel Thickness	'X'
.032	.862
.039	.866
.059	.870
.079	.878
.118	.890

B - Integral Mounting



P - PCB Mounting



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

1 First Decision
Type
ATR11 Single pole, series, thermal circuit protector

2 Second Decision
Mounting
C Central hex nut
W Wing clip
D Wing clip
D1 Wing clip
S Snap-in
B Integral
P PCB

3 Third Decision
Terminal Format
X Terminal 1 & 2
Y Terminal 1 & 3
N Shunt Terminal

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

5 Fifth Decision
Reset Button
R Red
B Black
W White
RB Red w/trip band
BB Black w/trip band
WB White w/trip band

6 Sixth Decision
Button Marking
0 No Marking
1 Vertical
2 Horizontal

7 Seventh Decision
Mounting Nut
N None
A Knurled Metal
B Slotted Knurled Metal
C Hex Metal
D Knurled Sealing Boot

8 Eighth Decision
Standard Current Ratings*
0.5, 0.9, 1.0, 1.2, 1.5, 1.8, 2.0, 2.2, 2.5, 2.7, 3.0, 3.3, 4.0, 5.0, 6.0, 6.5, 7.0, 8.0, 9.0, 10.0, 12.0, 15.0, 16.0
*For other ratings, please consult the factory.

ATR11 - C - X - 63 - R - 1 - A - 7.0A

