5004 Series Thermostat

The Airpax 5004 series is a RoHS compliant, thin, lightweight, wafer-type thermal switch that is design for operation at 240VAC. This small, rugged thermostat is ideally suited for use in Europe, Canada, the United States and other geographical areas using 240VAC.

The basic switch assembly is operated by a bimetal disc with positive, reinforced snap-action, which is known for its reliable repeatability. The construction of the switch assembly offers excellent shock and vibration resistance. Thermal response is fast due to low mass.

For high humidity and contaminating atmosphere applications, the device can be sealed with a non-volatile resin. Thermostat is tamper-proof and non-adjustable. The series 5004 thermostat is cRUus certified, with VDE approval available upon request.

SPECIFICATIONS

- *Contact Ratings for 100,000 Life Cycles: 15 amp resistive, 120VAC 10 amp resistive, 240VAC
- Contacts: SPST (Single Pole, Single Throw)
- Operating Temperature Settings: +35°F to 325°F (1.67°C to 162.78°C)
- Dielectric Strength: 1500VRMS 60Hz, I minute, terminals to case
- Weight:
 3.4 grams (0.12 oz)
- Long Term Exposure Limit: -40°F to 350°F (-40°C to 176.67°C)
 - * cAUus certified to 168°C operating temperature. Loads under 100mA, 5Vdc, will require gold-plated contacts, with recommended minimum load of 10mA, 5Vdc.





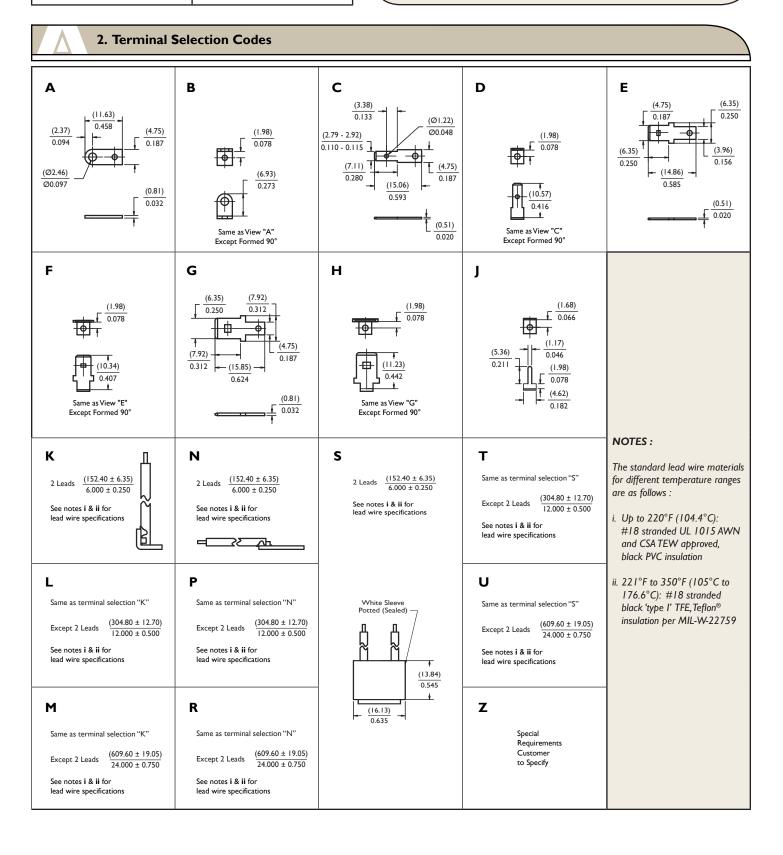


5004 PART NUMBER BUILDER

I. Contact Operation Codes					
CODE	DESCRIPTION				
0	Letter "O" = Open on Rise				
с	Letter "C" = Close on Rise				

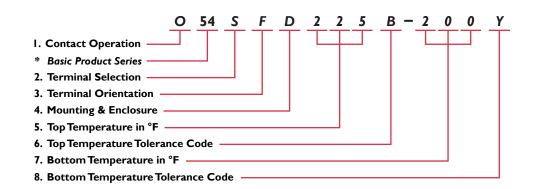
To build your 5004 part number (PN), choose the proper code* from the tables on pages 2 thru 4.

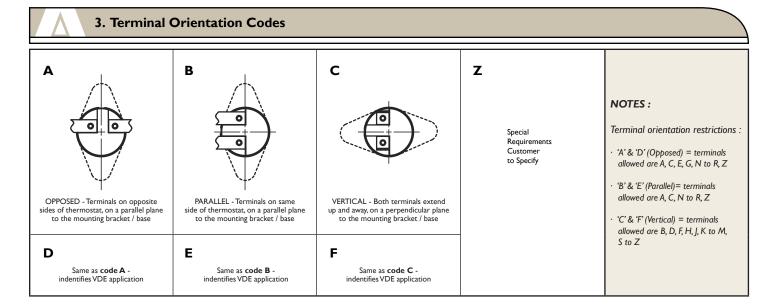
Consult the Airpax Sensors & Control Systems - Frederick Division when a code Z is used to indicate a special requirement. Airpax will assign a unique, customer-specific four digit nondescript number. To complete the customer specific part number build, replace the bottom temperature and tolerance (codes 7 & 8) after the "-" dash with this four digit nondescript.

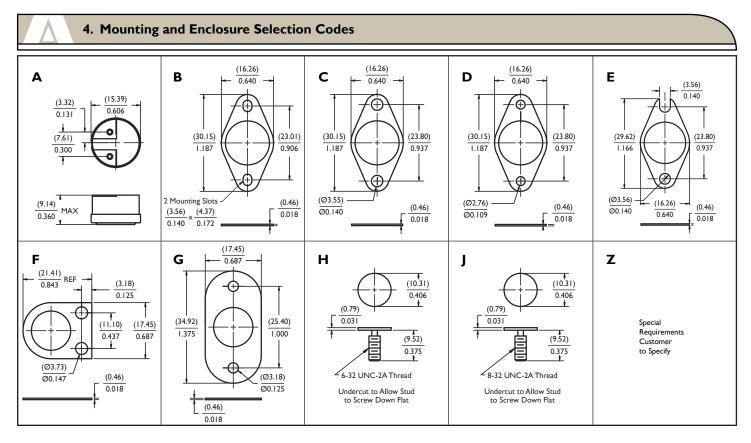


Example : O54SFD225B-200Y

Open contacts on temperature rise, 5004 series, 6.0" vertical potted leads with vertical orientation and VDE approval, 0.109" two hole mounting bracket, 225°F top temperature with a $\pm 8^{\circ}$ F standard top tolerance and a standard 25°F differential between top and bottom temperature for temperature range of 201°F to 300°F, differential helps calculate a bottom temperature of 200°F with a standard minimum reset for contacts to close at or above the bottom temperature set point.







5. Top Temperature in °F

	°F	°C	°F	°C	°F	°C
Temperature Setting	35°F to 200°F	1.6°C to 93°C	201°F to 300°F	94°C to 149°C	301°F to 325°F	150°C to 163°C
Standard Tolerance	±5°F	±2.8°C	±8°F	±4.4°C	±10°F	±5.6°C
Nominal Differential	I5°F	8.3°C	25°F	13.8°C	30°F	16.7°C

NOTES:

Select any temperature in the range of 35°F to 325°F. Standard choices fall on the 5°F increments, for example 35°F, 40°F, 40°F, 50°F... up to 320°F or 325°F Specify the °F temperature in the part numbering scheme as a three digit code without the "F' in the part number. For example, for 90°F, put in code '090'

6. Top Temperature Tolerance Codes

CODE	Α	В	С	x	Z	
± °F	±5°F	±8°F	±10°F	Maximum	Customer to Specify	
± °C	±2.8°C	±4.4°C	±5.6°C	Maximum	Customer to Specify	

NOTES:

• The standard tolerance for the top temperature is based on the temperature range the top temperature falls in, please refer to "5. Top Temperature in °F" chart, and select the appropriate code for a standard top temperature tolerance.

7. Bottom Temperature in °F

"Bottom Temperature in °F" equals the "Top Temperature in °F" minus the "Nominal Differential in °F for that temperature".

- **Example 1:** 50°F 15°F = 35°F
- **Example 2:** 250°F 25°F = 225°F
- **Example 3:** $310^{\circ}F 30^{\circ}F = 280^{\circ}F$

NOTES:

Specify the °F temperature in the part numbering scheme as a three digit code without the °F' in the part number (example 90°F, put in the code as '090')

8. Bottom Temperature Tolerance Codes

	-	-				
CODE	A	В	С	Y	Z	
±°F	±5°F	±8°F	±10°F	Minimum	Customer to Specify	
± °C	±2.8°C	±4.4°C	±5.6°C	Minimum	Customer to Specify	

NOTES:

• The typical standard bottom temperature tolerance is a 'Y' = minimum trip, which indicates the "reset" trip occurs at or above the lower temperature set point.

• The other standard tolerances are based on the temperature range the bottom temperature is in. The most convenient solution is to use either the 'Y' minimum reset code or choose the same tolerance code selection used in "6. Top Temperature Tolerance Code".

