

Stator Thermocouple

Variety of Configurations
 Single and Dual Junctions
 Custom Designs Available



The **Stator Thermocouple** is a rectangular, flat, laminated sensors commonly called “Stator Sticks” because they are inserted between the coils in the stator of a motor. These sensors are used in electric motors and generators for continuous sensing of the temperature and provide for consistent thermal monitoring without false alarms. Measurement Specialties’ Stator Thermocouples are built to meet the specifications of ANSI C50.10-1990, general requirements for synchronous motors.

We can build to your specifications!

FEATURES

- Rear Exit, Epoxy Glass Laminated
- Thermocouple Type, Single and Dual:
 - » J, K, T, E
- Custom Body Thickness: .060” to .375”
 - » Standard: .060”, .078”, .093”, .125”
- Custom Body Widths: .250” to 2.50”
 - » Standard: .260”, .305”, .344”, .455”, .500”, .625”
- Leadwire Options

APPLICATIONS

- Electric Motors
- Generators

dimensions



'L' = Body Length
 'W' = Body Width
 'T' = Body Thickness
 'Y' = Leadwire/Cable Length

Stator Thermocouple

performance specifications

Dielectric Strength:

Class F: 3,000 volts RMS @ 60 Hz for 1 minute,
between leads and external body surface

Class H: 2,000 volts RMS @ 60 Hz for 1 minute,
between leads and external body surface

Thermocouple Leadwires:

Standard: Solid conductor with extruded PTFE insulation
over conductors with overall jacket

Available: Stranded conductors and other lead coverings

Temperature Limits:

Class F: 155°C (311°F)

Class H: 180°C (356°F)

ordering info

Stator Thermocouple				
Model	Classification	Temperature Limit	Material	Dielectric Strength
400F	Class F	155°C	Epoxy Glass	3,000 Volts
400H	Class H	180°C	Epoxy Glass	2,000 Volts
Model	Thermocouple Type	Element	Color Code	
J	J	Single*	Red/White [Constantan/Iron]	
K	K	Single*	Red/Yellow [Alumel/Chromel]	
T	T	Single*	Red/Blue [Constantan/Copper]	
E	E	Single*	Red/Purple [Constantan/Chromel]	
Model	Junction Style			
G	Grounded (Requires Separate Ground Wire (Green) Welded to Each Thermocouple Junction)			
U	Ungrounded			
Model	'L1' Body Length			
----	Define 'L1' Length in Inches (12 = 12.0")			
Model	Limits of Error			
A	Standard Limits of Error			
B	Special Limits of Error			
Model	'L2' Junction Position			
----	Define 'L2' Length in Inches (6 = 6.0") Note: Standard Length = 1/2 x 'L1' (Minimum .50")			
Model	'T' Body Thickness	Standard Leadwires		
A	.060"	24 AWG		
B	.078"	24 AWG		
C	.093"	20 AWG		
D	.125"	20 AWG		
Model	'W' Body Width			
A	.260" (Single Junction Only)			
B	.305"			
C	.344"			
D	.455"			
E	.500"			
F	.625"			
Model	'Y' Leadwire/Cable Options			
----	Define 'Y' Length in Inches (120 = 120.0")			

Note: *For a Dual Element Thermocouple Specify a Two-Letter Model Code. (Example: Dual Type E Thermocouple, Specify Catalog Code EE.)

联系方式



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