MEAS
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. TE Stator Thermocouples are built to meet the specifications of ANSI C50.10-1990, general requirements for synchronous motors. We can build to your specifications.

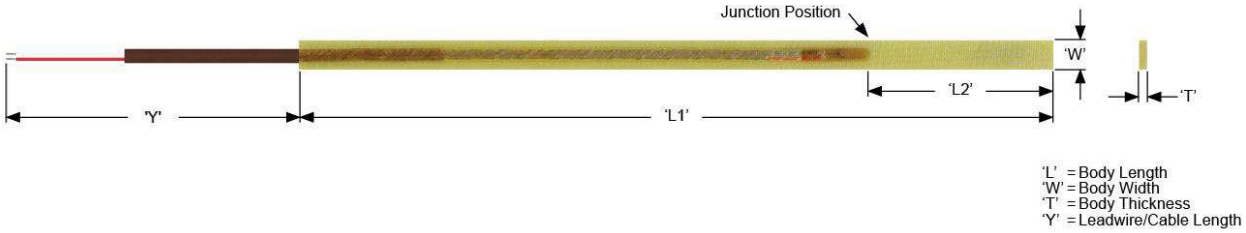
Features

- Rear Exit, Epoxy Glass Laminated
- Thermocouple Type, Single and Dual:
  - » Types J, K, T, and 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/Cable Options

Applications

- Electric Motors
- Generators

Dimensions



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

Temperature Limits:
Class F: 155°C (311°F)
Class H: 180°C (356°F)

Thermocouple Leadwires:
Standard: Solid conductor with extruded PTFE insulation over conductors with overall jacket
Available: Stranded conductors and other lead coverings

Order Information

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	Junction	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]
JJ	JJ	Dual	Red/White // Red/White	[Constantan/Iron]
KK	KK	Dual	Red/Yellow // Red/ Yellow	[Alumel/Chromel]
TT	TT	Dual	Red/Blue // Red/Blue	[Constantan/Copper]
EE	EE	Dual	Red/Purple // 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 Example: (12.00 = 12.00"; 6.25 = 6.25")

Model	Limits of Error
A	Standard Limits of Error
B	Special Limits of Error

Model	'L2' Junction Position
----	Define 'L2' Length in Inches Example: (6.00 = 6.00"; 1.50 = 1.50") 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 Whole Inches (120 = 120.0"; 036 = 36.0")