Strip Sensing Thermal-Ribbons[™]

Overview

These models average temperatures along their length to eliminate point measurement errors. Wrap them around cylinders or adhere them to flat surfaces.

Specifications

Dimensions W x L x T _{max}	Element options	Insulation	Temperature range	Lead- wires	Time constant*	Features	Model
0.50 x 1.25 x 0.050" (12.7 x 31.8 x 1.3 mm)	PA, PE, CA, NA	Polyimide	-73 to 200°C -100 to 392°F		0.17 sec.	Easy motor installations	S3238
0.375 x 4.00 x 0.075" (9.5 x 101.6 x 1.9 mm)	PB22 PD12 PE22	Silicone rubber w/ poly- imide backing	-62 to 220°C -80 to 428°F	AWG 26, PTFE	0.6 sec.	Platinum PD accuracy	S34 S386
0.375 x 4.00 x 0.065" (9.5 x 101.6 x 1.7 mm)	FA	Polyimide	-200 to 200°C -328 to 392°F	insu- lated		Wire-wound nickel-iron for high resistance, thin element	
	FA	Mylar	-100 to 150°C -148 to 302°F		0.3 sec.	Wire-wound nickel-iron,low cost	S2

Notes: T_{max} is measured over the lead bulge.

*Time constant is in water at 1 m/sec.

Refer to Sensing Elements Table on Page 10-4

Specification and order options

S34	Model number from table (except S3238)
PB22	Sensing element from table
Y	Number of leads: Y = 2 leads Z = 3 leads (required on CA) X = 4 leads (PD only)
36	Lead length in inches: 36" stocked (42" on S2)
A	Adhesive backing: A = No adhesive B = Pressure-sensitive adhesive (PSA)
S34PB22	Y36A = Sample part number

Notes: PSA reduces temperature range to -20 to 177°C (-4 to 350°F) and adds 0.005" (0.1 mm) to thickness.

Model S3238

Model S3238 is specially designed to sense stator temperatures in motors and generators. An alternative to the "stick" sensors, the S3238 mounts on the end turns of stator windings and provides an easy way to add overtemperature protection when the stator is not being rewound.

S3238 specification and order options

S3238	Model number S3238
PA	Sensing element from table
Y	Number of leads: $Y = 2$ leads (not available on CA) $Z = 3$ leads $X = 4$ leads
Т	Lead insulation: T = PTFE K = polyimide TS = SS braid over PTFE
36	Lead length in inches: 36" stocked
U	Lead configuration: T = Twisted U = Untwisted
A	Adhesive backing: A = No adhesive B = Pressure-sensitive adhesive (PSA)
S3238PA	/T36UA = Sample part number

Model #	Sensor Insulation	Temperature Range		Sensing Element	# of Leadwires	Leadwire Insulation	Lead Length	Pressure Sensitive Adhesive Backing	Stock Part #
S3238	Polyimide	-73 to 200° C -100 to 392° F	0.17 Sec	PA	3	PTFE	96″	No	S3238PAZT96U/
							36″	No	S3238PAZT36U/
				NA	3	PTFE	96″	No	S3238NAZT96U
				CA	3	PTFE	96″	No	S3238CAZT96U
S34	Silicone Rubber with Polyimide Backing	-62 to 220° C -100 to 392° F	0.6 Sec	PB22	3	PTFE	36″	No	S34PB22Z36A
S386	Silicone Rubber with	-62 to 220° C -100 to 392° F	0.6 Sec	PD12	3	PTFE	36″	No	S386PD12Z36A
	Polyimide Backing			PE22	2	PTFE	96″	No	S386PE22Y96A
S35	Polyimide	-200 to 200° C -328 to 392° F	0.2 Sec	FA	2	PTFE	36″	No	S35FAY36A

