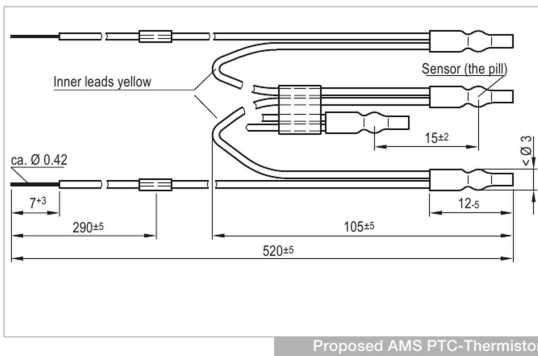
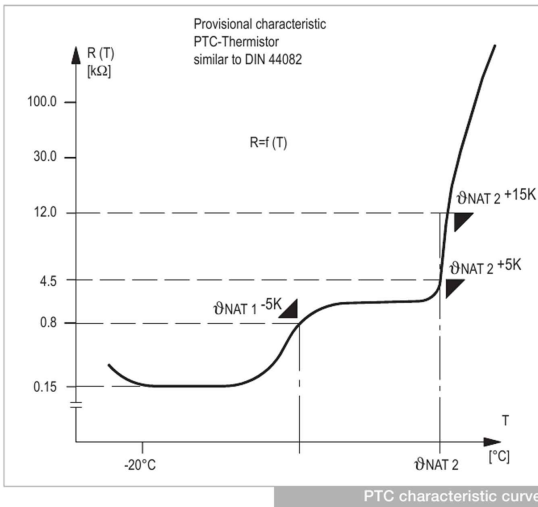


AMS PTC-Thermistor



Application

AMS PTC-Thermistor are used to monitor temperature in machines and installations. The design ensures short response times and easy installation.

General information on AMS PTC-Thermistor

PTC-Thermistors according to DIN44081 (triple sensors according to DIN44082) are used to protect electrical machines against thermal overload. KRIWAN thermistors have an even steeper R/T characteristic as that defined in the DIN standard.

PTC-Thermistor beads with different rated response temperatures (NAT) can be connected in series. This permits an optimal and economic thermal protection of machines and windings with different limit temperatures.

The specific feature of the AMS-Sensor is a combination of thermistors with different NATs. The tripping point is defined by NAT2. NAT1 can be used for advanced measurement (e.g. via INT69 Diagnosis)

Technical specifications

	Triplet
Max. operating voltage	30V
Rated response temperature	NAT2
Tolerance of θ_{NAT}	±5K
Reproducibility of θ_{NAT}	±0.5K
Resistance R_{25}	≤150Ω
Resistance at a temperature of $\theta_{NAT1\ -5K}$	≤800Ω
Resistance at a temperature of $\theta_{NAT2\ +5K}$	≥4.5kΩ
Resistance at a temperature of $\theta_{NAT2\ +15K}$	≥12kΩ
Thermal response time t_a	≤5s
Insulation test voltage U_{is}	AC 2.5kV
Lead insulation	ETFE
Max. operating temperature	150°C
Max. storage temperature	150°C
Min. storage temperature	-25°C
Weight	5g

PTC - Identification and Part Numbers

Rated response temperature NAT in °C NAT1 / NAT2	Lead colours outer / outer (inner: yellow)	AMS-triplet Part-Number
80/100	red/red	01D460S60
80/110	brown/brown	01D461S60
80/130	blue/blue	01D463S60

Technical changes reserved