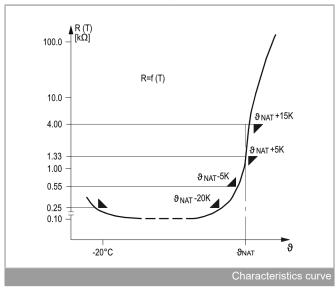
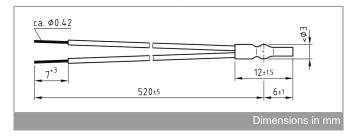


PTC Single sensor







Application

PTC sensors according to DIN VDE V 0898-1-401 are used to protect electrical machines against thermal overload.

Functional description

KRIWAN PTC sensors feature a particularly steep R/T characteristics curve. PTC sensors with the same or differing nominal response temperatures can also be switched in series.

This makes it possible to monitor machine and coil parts with different limit temperatures at low cost. Various nominal response temperatures are available.

The PTCs provide for a secure switch-off in conjunction with a separate evaluation when the nominal response temperatures are reached.

The structural design makes it possible to achieve short thermal response times and facilitates the installation.

Technical specifications

Max. operation voltage U _{max}	30 V	
Nominal response temperature	See PTC identification and item	
	number	
Tolerance of θ _{NRT}	±5 K	
Reproducibility of ϑ_{NRT} (within	±0.5 K	
the tolerance range)		
Initial resistance R ₂₅	≤100 Ω	
Resistance at a thermistor		
temperature of		
– ϑ _{NRT} -5 K	≤550 Ω	
– ϑ _{NRT} +5 K	≥1330 Ω	
– θ _{NRT} +15 K	≥4 kΩ	
Thermal response time ta	≤5 s	
Insulation test	U _{eff} = 2.5 kV V ~	
Permissible ambient temperature	-25°C ≤ Ta ≤ 180°C	
Ta		
Connection		
– Type	Single strands	
Cross-section	2x0,14 mm², AWG 26	
 Wire insulation 	FEP	
	ETFE (on request)	
Wire color	According to	
	DIN VDE V 0898-1-401	
Dimensions	See dimensions in mm	
	Other lengths upon request	
Testing basis	DIN VDE V 0898-1-401	
Approval	UL file no. E241244	
	all up to including 150 °C,	

PTC identification and part number

Nominal response	Color code external/	Miniature sensor
temperature in °C	external	single
60	WH/GY	01 D 116
70	WH/BN	01 D 117
80	WH/WH	01 D 118
90	GN/GN	01 D 119
100	RD/RD	01 D 200
110	BN/BN	01 D 210
120	GY/GY	01 D 220
130	BU/BU	01 D 230
140	WH/BU	01 D 240
145	WH/BK	01 D 245
150	BK/BK	01 D 250
155	BU/BK	01 D 255
160	BU/RD	01 D 260
170	WH/GN	01 D 270
180	WH/RD	01 D 280





Deutschland



