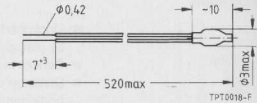


Applications

- Thermal protection of winding in electric motors
- Limit temperature monitoring

Features

- Thermistor pellet with insulating encapsulation
- Low-resistance type
- Silver-plated and Teflon-insulated AWG 26 litz wires
- Extremely fast response due to small dimensions
- Characteristics for nominal threshold temperatures of 90 up to 160 °C conform with DIN 44081
- Color coding of litz wires to DIN 44081



Dimensions in mm

Delivery mode

- Bulk

KAG-Nr: 407160a
KV4942
30.05.06 SA
General technical data

Max. operating voltage	($T_A = 0 \dots 40 \text{ }^\circ\text{C}$)	V_{\max}	30	VDC
Max. measuring voltage	($T_A = 25 \text{ K} \dots T_{NTT} + 23 \text{ K}$)	$V_{\text{meas,max}}$	7,5	VDC
Rated resistance	($V_{PTC} \leq 2,5 \text{ V}$)	R_N	≤ 100	Ω
Insulation test voltage		V_{ins}	2,5	kV AC
Thermal threshold time		t_a	< 3	s
Operating temperature range ($V \leq V_{\text{meas,max}}$)	($V = V_{\max}$)	T_{op}	$-25/ T_{NTT} + 23$	$^\circ\text{C}$
		T_{op}	0/+ 40	$^\circ\text{C}$

Electrical specifications and ordering codes

$T_{NTT} \pm \Delta T$ $^\circ\text{C}$	$R(T_{NTT} - \Delta T)$ ($V_{PTC} \leq 2,5 \text{ V}$) Ω	$R(T_{NTT} + \Delta T)$ ($V_{PTC} \leq 2,5 \text{ V}$) Ω	$R(T_{NTT} + 15 \text{ K})$ ($V_{PTC} \leq 7,5 \text{ V}$) Ω	$R(T_{NTT} + 23 \text{ K})$ ($V_{PTC} \leq 2,5 \text{ V}$) Ω	Ordering code
60 ± 5	≤ 570	≥ 570	—	$\geq 10 \text{ k}$	B59100M1060A070
70 ± 5	≤ 570	≥ 570	—	$\geq 10 \text{ k}$	B59100M1070A070
80 ± 5	≤ 570	≥ 570	—	$\geq 10 \text{ k}$	B59100M1080A070
90 ± 5	≤ 550	≥ 1330	$\geq 4 \text{ k}$	—	B59100M1090A070
100 ± 5	≤ 550	≥ 1330	$\geq 4 \text{ k}$	—	B59100M1100A070
110 ± 5	≤ 550	≥ 1330	$\geq 4 \text{ k}$	—	B59100M1110A070
120 ± 5	≤ 550	≥ 1330	$\geq 4 \text{ k}$	—	B59100M1120A070
130 ± 5	≤ 550	≥ 1330	$\geq 4 \text{ k}$	—	B59100M1130A070
140 ± 5	≤ 550	≥ 1330	$\geq 4 \text{ k}$	—	B59100M1140A070
145 ± 5	≤ 550	≥ 1330	$\geq 4 \text{ k}$	—	B59100M1145A070
150 ± 5	≤ 550	≥ 1330	$\geq 4 \text{ k}$	—	B59100M1150A070
155 ± 5	≤ 550	≥ 1330	$\geq 4 \text{ k}$	—	B59100M1155A070
160 ± 5	≤ 550	≥ 1330	$\geq 4 \text{ k}$	—	B59100M1160A070