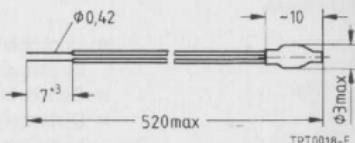


**Applications**

- 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

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

**Electrical specifications and ordering codes**

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