

**Applications**

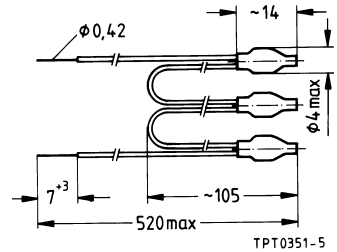
- Thermal protection of winding in electric motors

**Features**

- Thermistor pellets with insulating encapsulation in series connection (triple sensor)
- Silver-plated and Teflon(PTFE)-insulated AWG 26 litz wires
- Trip temperature coded in litz wire color, connecting wires all in black
- Characteristics for nominal threshold temperatures of 90 bis 160 °C conform with DIN 44 082
- Can be used in conjunction with Siemens tripping units 3UN6 to 3UN9

Max. operating voltage	$(T_A = 0 \dots 40 \text{ °C})$	$V_{\max}$	30	V
Max. measuring voltage	$(T_A - 25 \text{ K} \dots T_{\text{NAT}} + 15 \text{ K})$	$V_{\text{Mes,max}}$	7,5	V
Rated resistance	$(V_{\text{PTC}} \leq 2,5 \text{ V})$	$R_N$	$\leq 300$	$\Omega$
Insulation test voltage		$V_{\text{is}}$	2,5	kV ac
Response time		$t_a$	$< 5$	s
Operating temperature range	$(V = 0)$	$T_{\text{op}}$	$-25/+180$	$\text{°C}$
	$(V = V_{\max})$	$T_{\text{op}}$	0/40	$\text{°C}$

Type	$T_{\text{NAT}} \pm \Delta T$ $\text{°C}$	$R(T_{\text{NAT}} - \Delta T)$ $(V_{\text{PTC}} \leq 2,5 \text{ V})$ $\Omega$	$R(T_{\text{NAT}} + \Delta T)$ $(V_{\text{PTC}} \leq 2,5 \text{ V})$ $\Omega$	$R(T_{\text{NAT}} + 15 \text{ K})$ $(V_{\text{PTC}} \leq 7,5 \text{ V})$ $\Omega$	$R(T_{\text{NAT}} + 23 \text{ K})$ $(V_{\text{PTC}} \leq 2,5 \text{ V})$ $\Omega$
M 355	60 ± 5	≤ 1710	≥ 1710	—	≥ 30 k
M 355	70 ± 5	≤ 1710	≥ 1710	—	≥ 30 k
M 355	80 ± 5	≤ 1710	≥ 1710	—	≥ 30 k
M 355	90 ± 5	≤ 1650	≥ 3990	≥ 12 k	—
M 355	100 ± 5	≤ 1650	≥ 3990	≥ 12 k	—
M 355	110 ± 5	≤ 1650	≥ 3990	≥ 12 k	—
M 355	120 ± 5	≤ 1650	≥ 3990	≥ 12 k	—
M 355	130 ± 5	≤ 1650	≥ 3990	≥ 12 k	—
M 355	140 ± 5	≤ 1650	≥ 3990	≥ 12 k	—
M 355	145 ± 5	≤ 1650	≥ 3990	≥ 12 k	—
M 355	150 ± 5	≤ 1650	≥ 3990	≥ 12 k	—
M 355	155 ± 5	≤ 1650	≥ 3990	≥ 12 k	—
M 355	160 ± 5	≤ 1650	≥ 3990	≥ 12 k	—
M 355	170 ± 6	≤ 1650	≥ 3990	≥ 12 k	—
M 355	180 ± 6	≤ 1650	≥ 3990	≥ 12 k	—

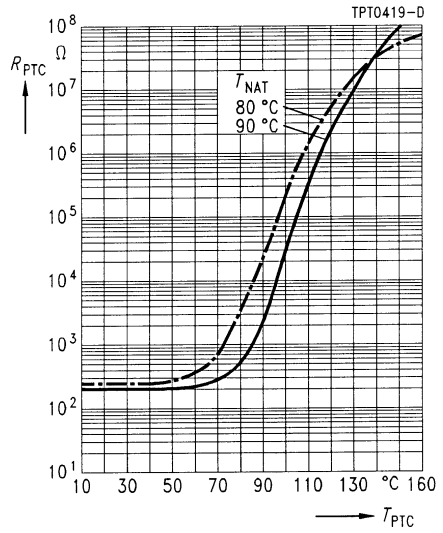
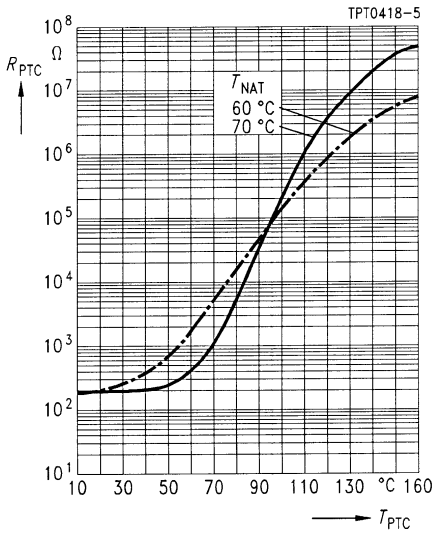


Dimensions in mm

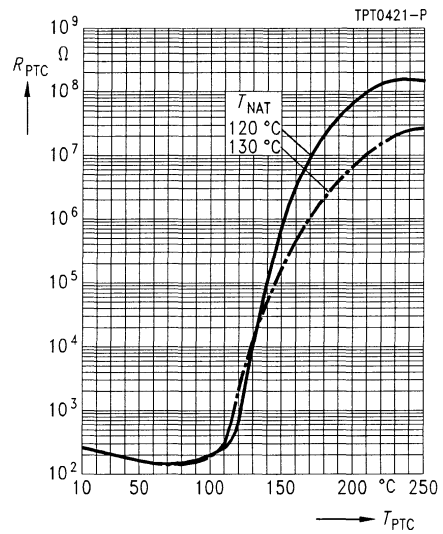
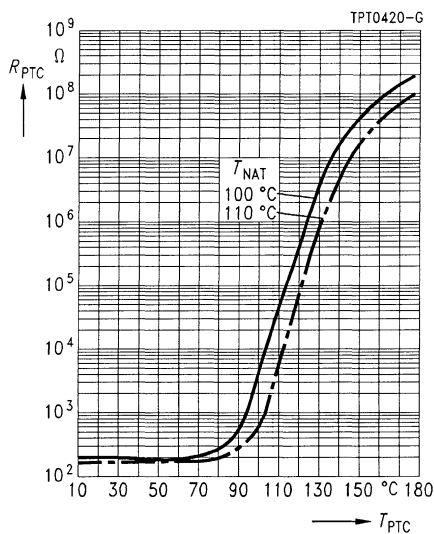
Type	Color coding of litz wires	Ordering code
M 355	white/grey	B59355-M60-A70
M 355	white/brown	B59355-M70-A70
M 355	white/white	B59355-M80-A70
M 355	green/green	B59355-M90-A70
M 355	red/red	B59355-M100-A70
M 355	brown/brown	B59355-M110-A70
M 355	grey/grey	B59355-M120-A70
M 355	blue/blue	B59355-M130-A70
M 355	white/blue	B59355-M140-A70
M 355	white/black	B59355-M145-A70
M 355	black/black	B59355-M150-A70
M 355	blue/black	B59355-M155-A70
M 355	blue/red	B59355-M160-A70
M 355	white/green	B59355-M170-A70
M 355	white/red	B59355-M180-A70

**Characteristics (typical)**

PTC resistance  $R_{PTC}$  versus PTC temperature  $T_{PTC}$   
(measured at low signal voltage)

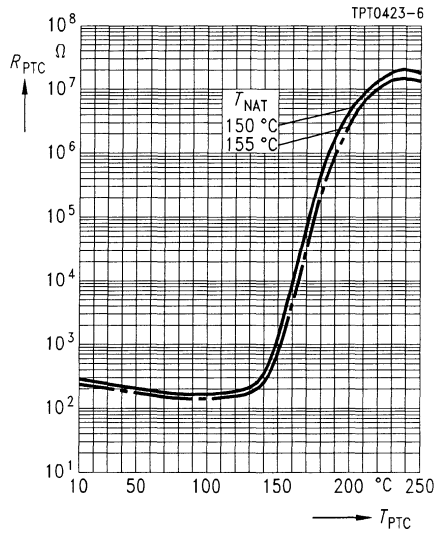
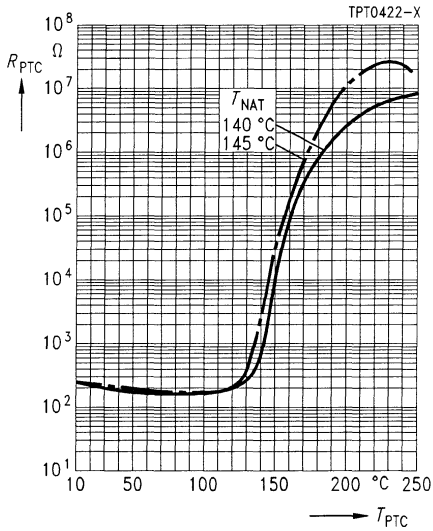


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