Applications

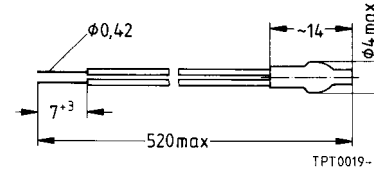
- Thermal protection of winding in electric motors

Features

- Thermistor pellet with insulating encapsulation
- Silver-plated and Teflon(PTFE)-insulated AWG 26 litz wires
- Trip temperature coded in litz wire color
- Characteristics for nominal threshold temperatures of 90 bis 160 °C conform with DIN 44 081
- Can be used in conjunction with Siemens tripping units

Max. operating voltage	(T_A = 0 … 40 °C)	V_{max}	30	V
Max. measuring voltage	(T_A – 25 K … T_{NAT} + 15 K)	$V_{Mes,max}$	7,5	V
Rated resistance	($V_{PTC} \leq$ 2,5 V)	R_N	≤ 100	Ω
Insulation test voltage		V_{is}	2,5	kV ac
Response time		t_a	< 5	s
Operating temperature range	(V = 0)	T_{op}	– 25/+ 180	°C
	(V = V_{max})	T_{op}	0/40	°C

Type	$T_{NAT} \pm \Delta T$ °C	R ($T_{NAT} - \Delta T$) ($V_{PTC} \leq$ 2,5 V) Ω	R ($T_{NAT} + \Delta T$) ($V_{PTC} \leq$ 2,5 V) Ω	R (T_{NAT} + 15 K) ($V_{PTC} \leq$ 7,5 V) Ω	R (T_{NAT} + 23 K) ($V_{PTC} \leq$ 2,5 V) Ω
M 155	60 ± 5	≤ 570	≥ 570	—	≥ 10 k
M 155	70 ± 5	≤ 570	≥ 570	—	≥ 10 k
M 155	80 ± 5	≤ 570	≥ 570	—	≥ 10 k
M 155	90 ± 5	≤ 550	≥ 1330	≥ 4 k	—
M 155	100 ± 5	≤ 550	≥ 1330	≥ 4 k	—
M 155	110 ± 5	≤ 550	≥ 1330	≥ 4 k	—
M 155	120 ± 5	≤ 550	≥ 1330	≥ 4 k	—
M 155	130 ± 5	≤ 550	≥ 1330	≥ 4 k	—
M 155	140 ± 5	≤ 550	≥ 1330	≥ 4 k	—
M 155	145 ± 5	≤ 550	≥ 1330	≥ 4 k	—
M 155	150 ± 5	≤ 550	≥ 1330	≥ 4 k	—
M 155	155 ± 5	≤ 550	≥ 1330	≥ 4 k	—
M 155	160 ± 5	≤ 550	≥ 1330	≥ 4 k	—
M 155	170 ± 6	≤ 550	≥ 1330	≥ 4 k	—
M 155	180 ± 6	≤ 550	≥ 1330	≥ 4 k	—

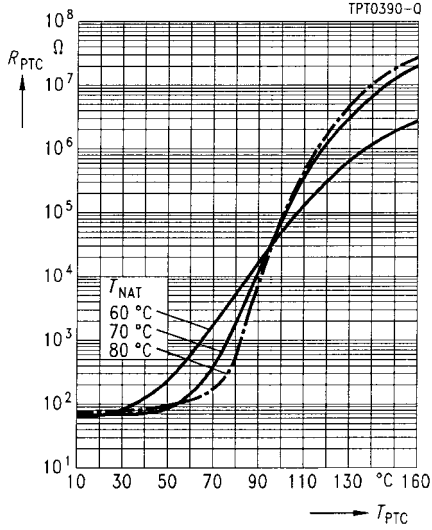


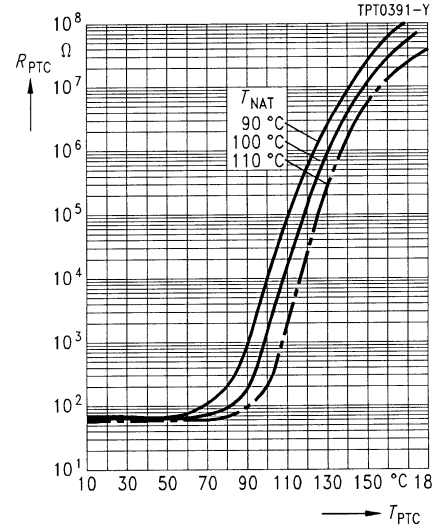
Dimensions in mm

Type	Color coding of litz wires	Ordering code
M 155	white/grey	B59155-M60-A70
M 155	white/brown	B59155-M70-A70
M 155	white/white	B59155-M80-A70
M 155	green/green	B59155-M90-A70
M 155	red/red	B59155-M100-A70
M 155	brown/brown	B59155-M110-A70
M 155	grey/grey	B59155-M120-A70
M 155	blue/blue	B59155-M130-A70
M 155	white/blue	B59155-M140-A70
M 155	white/black	B59155-M145-A70
M 155	black/black	B59155-M150-A70
M 155	blue/black	B59155-M155-A70
M 155	blue/red	B59155-M160-A70
M 155	white/green	B59155-M170-A70
M 155	white/red	B59155-M180-A70

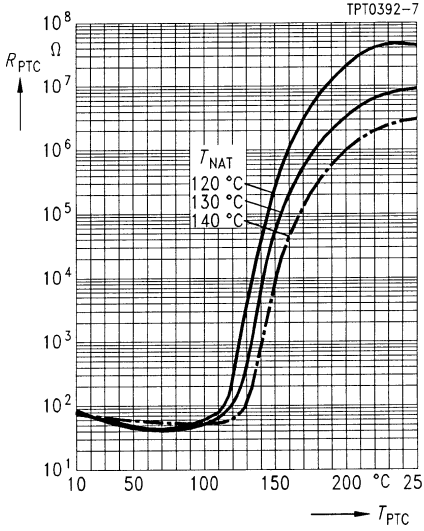
Characteristics (typical)

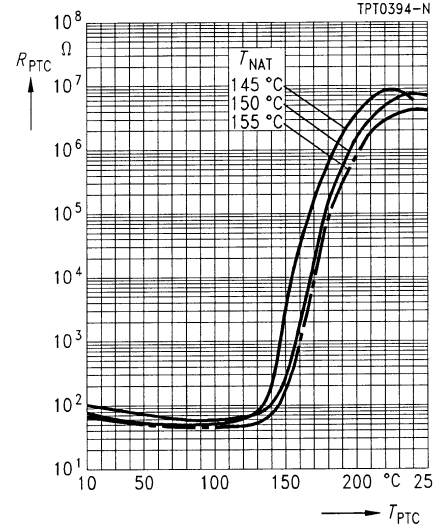
PTC resistance R_{PTC} versus PTC temperature T_{PTC}
(measured at low signal voltage)





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





Characteristics (typical)

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