

160 V, 160 °C

Applications

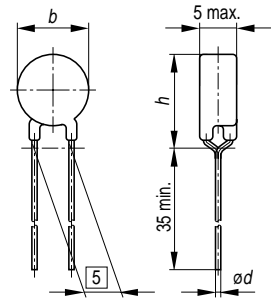
- Overcurrent and short-circuit protection

Features

- Coated thermistor disk
- Manufacturer's logo and type designation stamped on in yellow
- UL approval (E69802)
- VDE approval (exception: C810)

Options

- Leadless disks and leaded disks without coating available upon request
- Thermistors with diameter $b \leq 11,0$ mm are also available on tape



TPT0648-4

Dimensions (mm)

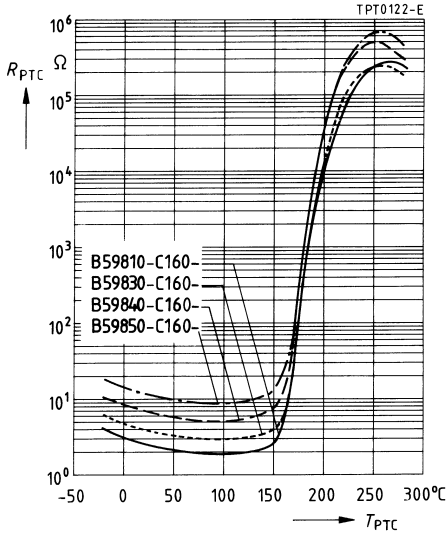
Type	b_{max}	$\varnothing d$	h_{max}
C 810	26,0	0,8	29,5
C 830	22,0	0,6	25,5
C 840	17,5	0,6	21,0
C 850	13,5	0,6	17,0
C 860	11,0	0,6	14,5
C 870	9,0	0,6	12,5
C 880	6,5	0,6	10,0
C 890	4,0	0,5	7,5

Max. operating voltage ($T_A = 60\text{ °C}$)	V_{max}	160	V
Rated voltage	V_N	110	V
Switching cycles (typ.)	N	100	
Switching time at V_{max}, I_{Smax}	t_S	≤ 10	s
Reference temperature (typ.)	T_{Ref}	160	°C
Resistance tolerance	ΔR_N	$\pm 25\%$	
Operating temperature range ($V = 0$)	T_{op}	$-40/+125$	°C
	T_{op}	0/60	°C

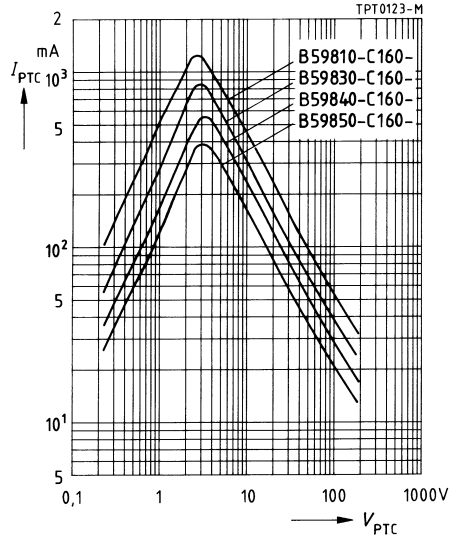
Type	I_N mA	I_S mA	I_{Smax} ($V=V_{max}$) A	I_r (typ.) ($V=V_{max}$) mA	R_N Ω	R_{min} Ω	Ordering code
C 810	800	1600	10,0	30	2,6	1,6	B59810-C160-A70
C 830	525	1050	7,0	24	3,7	2,2	B59830-C160-A70
C 840	400	800	4,1	18	6	3,6	B59840-C160-A70
C 850	250	500	2,2	16	10	6,0	B59850-C160-A70
C 860	180	360	1,5	13	15	7,8	B59860-C160-A70
C 870	125	250	1,0	11	25	13,1	B59870-C160-A70
C 880	70	140	0,4	8	70	36,7	B59880-C160-A70
C 890	35	70	0,2	6	150	78,7	B59890-C160-A70

Characteristics (typical)

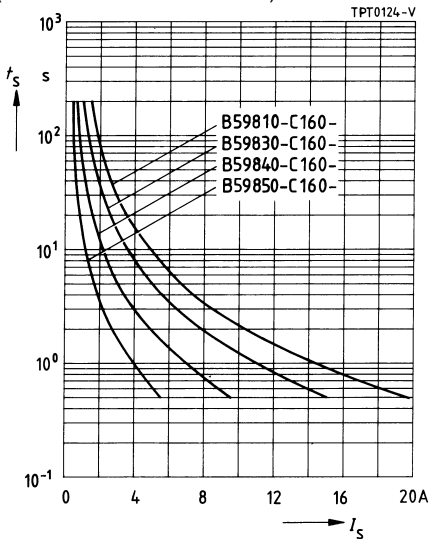
PTC resistance R_{PTC} versus
 PTC temperature T_{PTC}
 (measured at low signal voltage)



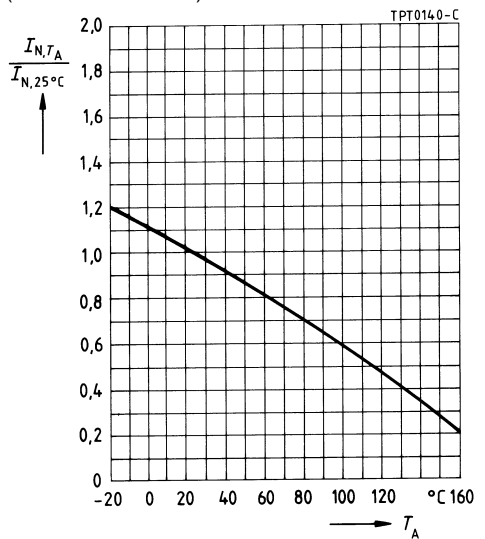
PTC current I_{PTC} versus PTC voltage V_{PTC}
 (measured at 25 °C in still air)



Switching time t_S versus switching current I_S
 (measured at 25 °C in still air)

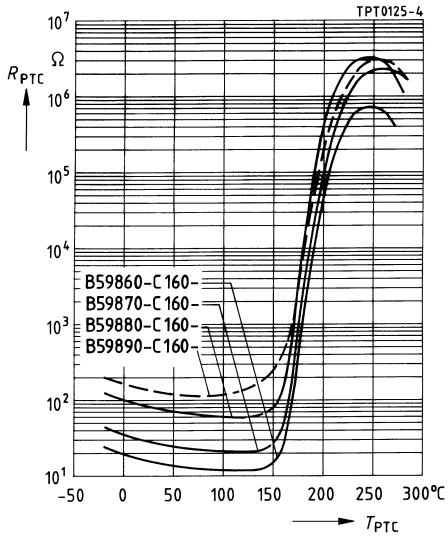


Rated current I_N versus ambient temperature T_A
 (measured in still air)

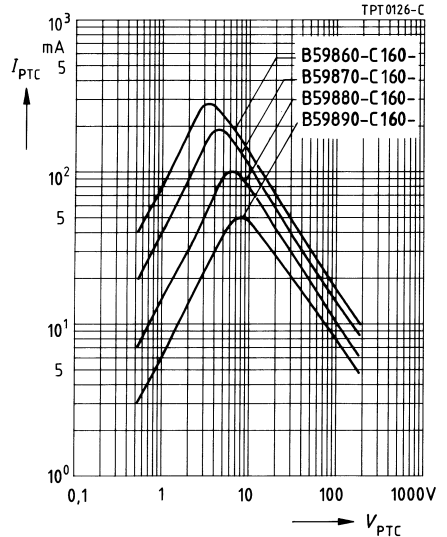


Characteristics (typical)

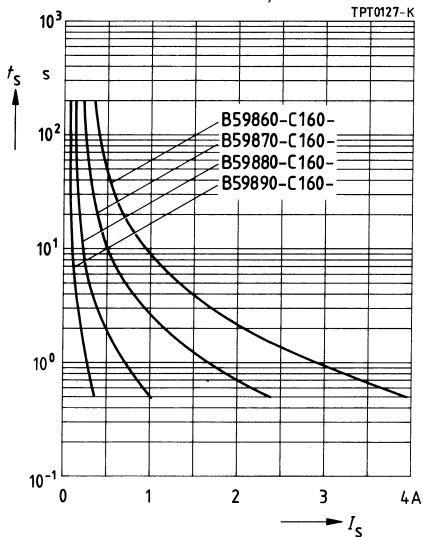
PTC resistance R_{PTC} versus
PTC temperature T_{PTC}
(measured at low signal voltage)



PTC current I_{PTC} versus PTC voltage V_{PTC}
(measured at 25 °C in still air)



Switching time t_S versus switching current I_S
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Rated current I_N versus ambient temperature T_A
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