

265 V to 550 V, 120 °C

Applications

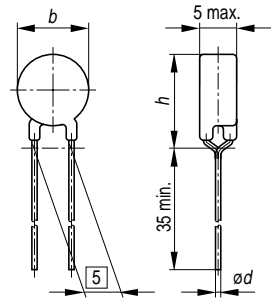
- Overcurrent and short-circuit protection

Features

- Coated thermistor disk
- Manufacturer's logo and type designation stamped on in white
- UL approval (E69802) up to 265 V for all types
- VDE approval (exception: C810, C884, C885, C886)

Options

- Leadless disks and leaded disks without coating available upon request
- Thermistors with diameter $b \leq 11,0$ mm are also available on tape
- VDE / CECC approval for various 265-V types upon request



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 872	9,0	0,6	12,5
C 873	9,0	0,6	12,5
C 874	9,0	0,6	12,5
C 875	9,0	0,6	12,5
C 880	6,5	0,6	10,0
C 883	6,5	0,6	10,0
C 884	6,5	0,6	10,0
C 885	6,5	0,6	10,0
C 886	6,5	0,6	10,0
C 890	4,0	0,5	7,5

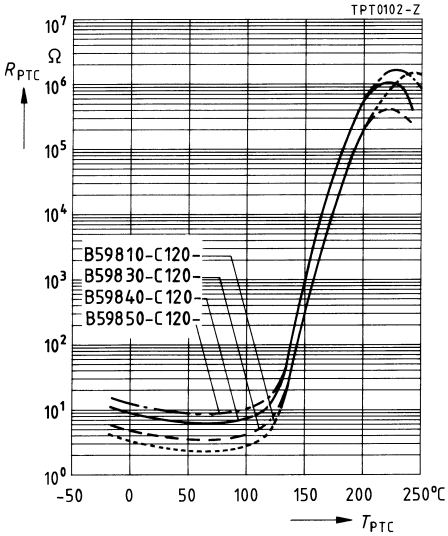
Switching cycles (typ.)	N	100	
Switching time at $V_{\max}, I_{S\max}$	t_S	≤ 8	s
Resistance tolerance	ΔR_N	$\pm 25 \%$	
Operating temperature range ($V = 0$) ($V = V_{\max}$)	T_{op}	$- 40/+ 125$	°C
	T_{op}	0/60	°C

B598**
C 810 ... C 890

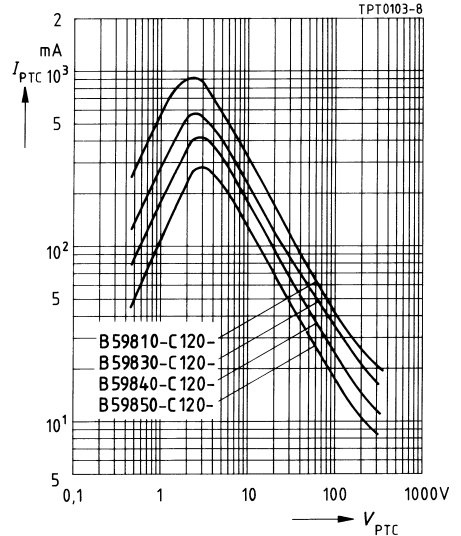
Type	I_N mA	I_S mA	I_{Smax} ($V=V_{max}$) A	I_r (typ.) ($V=V_{max}$) mA	I_r (typ.) ($V=120$ V) mA	R_N Ω	R_{min} Ω	Ordering code
$V_{max} = 265$ V, $V_N = 120$ V, 230 V, $T_{Ref} = 120$ °C (typ.)								
C 810	650	1300	10,0	25	50	2,6	1,6	B59810-C120-A70
C 830	460	920	7,0	20	40	3,7	2,4	B59830-C120-A70
C 840	330	660	4,1	15	30	6	3,8	B59840-C120-A70
C 850	200	400	2,2	13	20	10	6,4	B59850-C120-A70
C 860	140	280	1,5	10	18	15	9,0	B59860-C120-A70
C 870	100	200	1,0	9	15	25	15	B59870-C120-A70
C 872	80	160	1,0	9	15	35	21	B59872-C120-A70
C 873	70	140	1,0	9	15	45	27	B59873-C120-A70
C 874	60	125	1,0	9	15	55	31	B59874-C120-A70
C 875	55	110	1,0	9	15	65	36	B59875-C120-A70
C 880	55	110	0,4	6	12	70	39	B59880-C120-A70
C 883	35	70	0,4	5	12	120	67	B59883-C120-A70
C 890	30	60	0,2	5	10	150	84	B59890-C120-A70
$V_{max} = 420$ V, $V_N = 380$ V, $T_{Ref} = 120$ °C (typ.)								
C 884	21	39	0,2	3	–	600	340	B59884-C120-A70
$V_{max} = 550$ V, $V_N = 500$ V, $T_{Ref} = 115$ °C (typ.)								
C 885	15	30	0,1	3	–	1200	675	B59885-C120-A70
C 886	12	24	0,1	2	–	1500	840	B59886-C120-A70

Characteristics (typical)

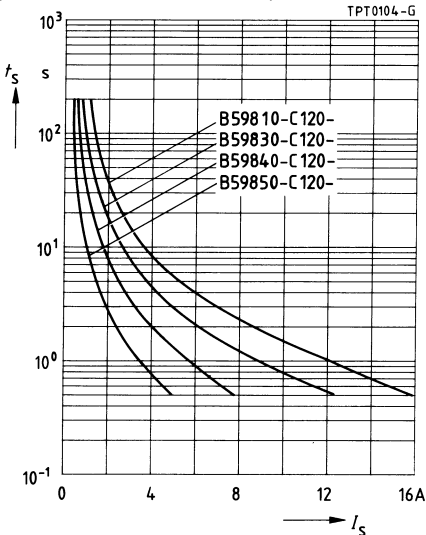
PTC resistance R_{PTC} versus
 PTC temperature T_{PTC}
 (measured at low signal voltage)



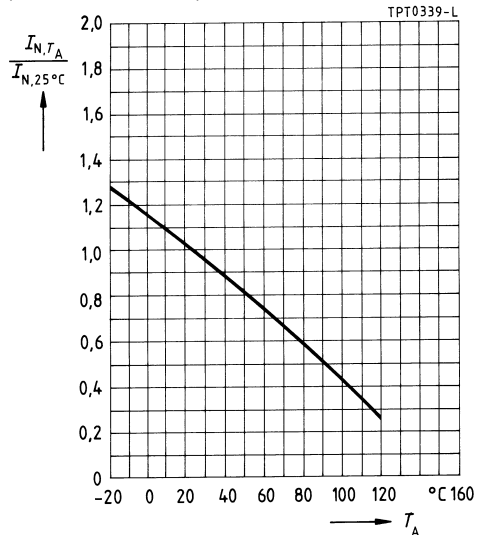
PTC current I_{PTC} versus PTC voltage V_{PTC}
 (measured at 25 °C in still air)



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

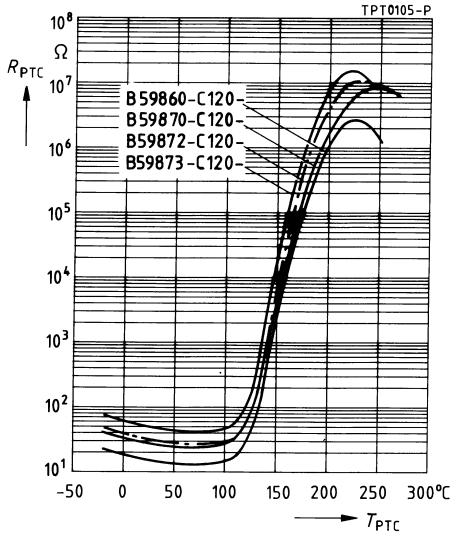


Rated current I_N versus ambient temperature T_A
 (measured in still air)

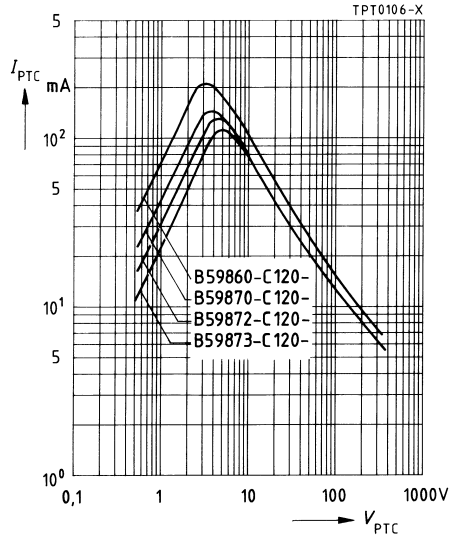


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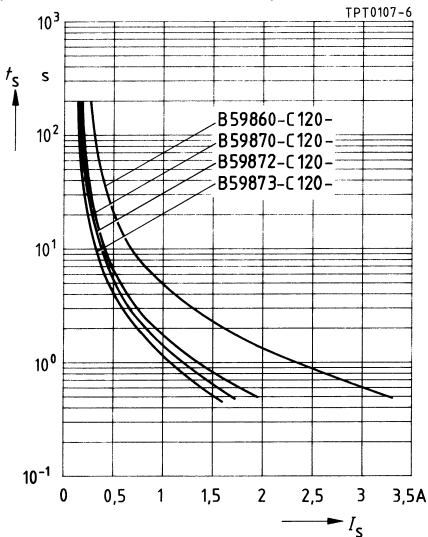
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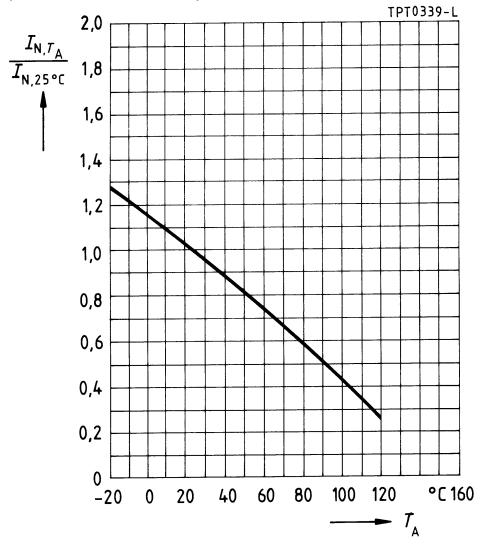
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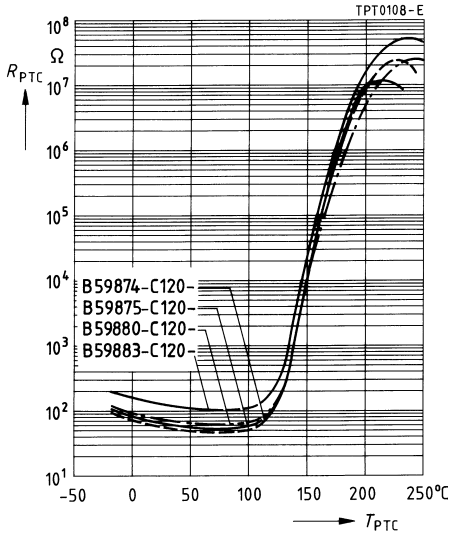


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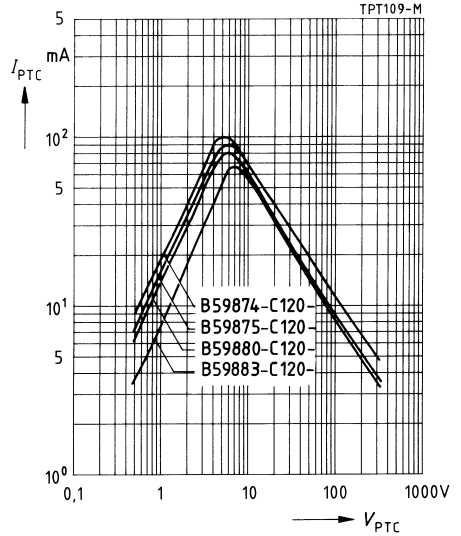


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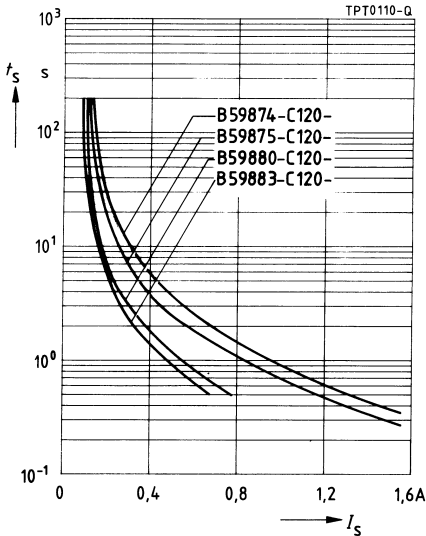
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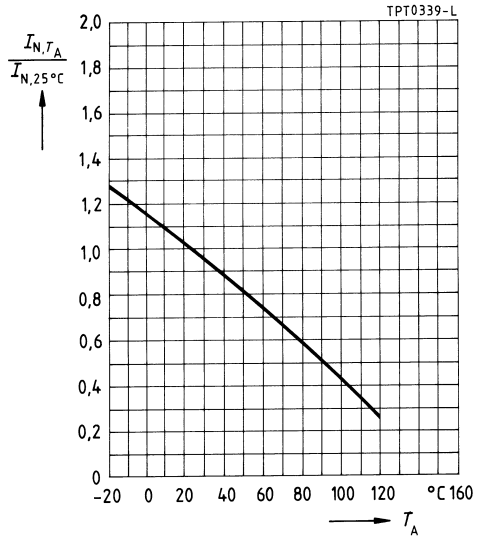
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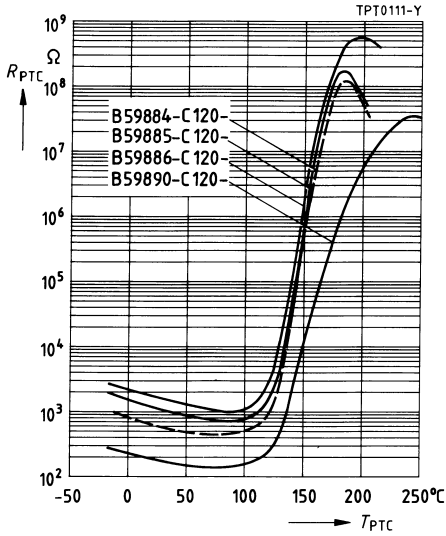


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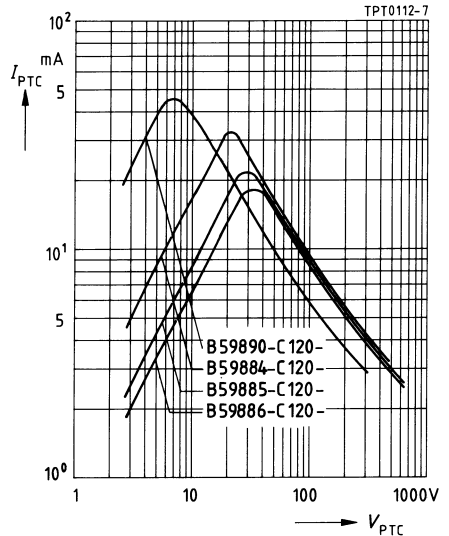


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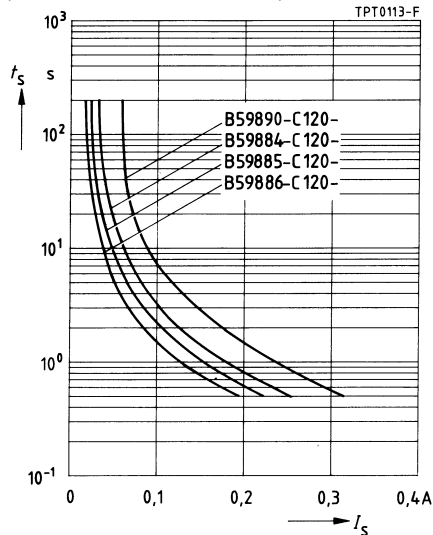
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