

Overcurrent Protection

B599*3

Leaded Disks, Coated, 42 V Power Net

C 943 ... C 983

Applications

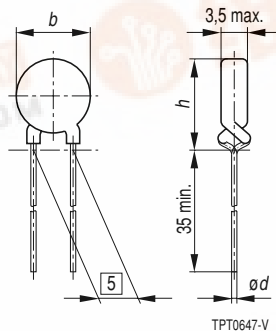
- Overcurrent protection for 42 V power net

Features

- Lead-free terminals
- Manufacturer's logo and type designation stamped on in white

Options

- Leadless disks and leaded disks without coating available on request
- Thermistors with diameter $b \leq 11,0$ mm are also available on tape (to IEC 60286-2)



TPT0647-V

Dimensions (mm)

Type	$b_{\max}$	$\varnothing d$	$h_{\max}$
C 943	17,5	0,6	21,0
C 953	13,5	0,6	17,0
C 963	11,0	0,6	14,5
C 973	9,0	0,6	12,5
C 983	6,5	0,6	10,0

Delivery mode

- Cardboard strips (standard)
- Cardboard tape reeled or in AMMO pack on request

General technical data

Max. operating voltage ($T_A = 125^\circ\text{C}$)	$V_{\max}^{1)}$	54	VDC
Max. operating voltage ($t \leq 400$ ms)	$V_{\max, \text{dyn}}^{2)}$	58	V
Rated voltage	V_N	42	VDC
Switching cycles (typ.)	N	100	
Reference temperature (typ.)	T_{Ref}	120	$^\circ\text{C}$
Resistance tolerance	ΔR_N	$\pm 20\%$	
Operating temperature range ($V = 0$)	T_{op}	$-40/+125$	$^\circ\text{C}$
($V = V_{\max}$)	T_{op}	$-40/+125$	$^\circ\text{C}$

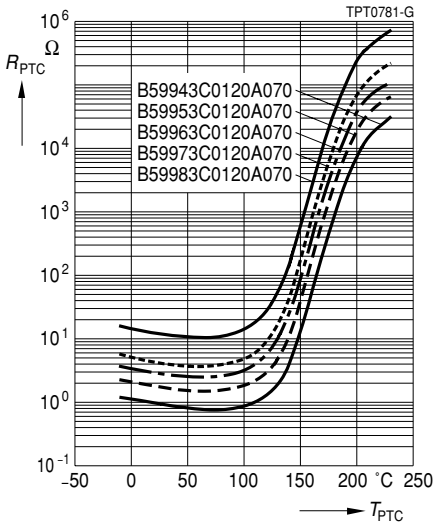
Electrical specifications and ordering codes

Type	I_N	I_S	$I_{S\max}$ ($V = V_{\max}$)	I_r (typ.) ($V = V_{\max}$)	R_N	$R_{\min}$	Ordering code
	mA	mA	A	mA	Ω	Ω	
C 943	750	1300	8,0	50	1,0	0,7	B59943C0120A070
C 953	430	770	6,0	40	1,8	1,2	B59953C0120A070
C 963	320	560	5,0	30	2,7	1,8	B59963C0120A070
C 973	230	410	4,0	20	4,2	2,9	B59973C0120A070
C 983	140	240	2,0	15	10,0	6,8	B59983C0120A070

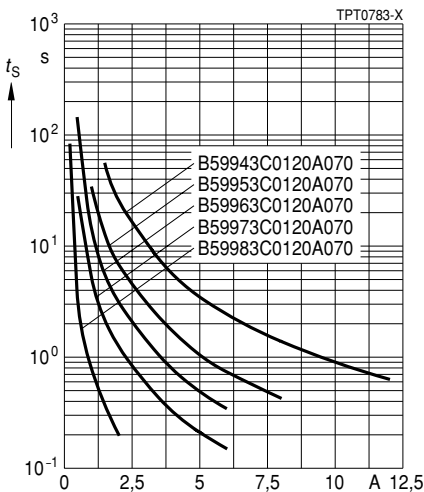


Characteristics (typical)

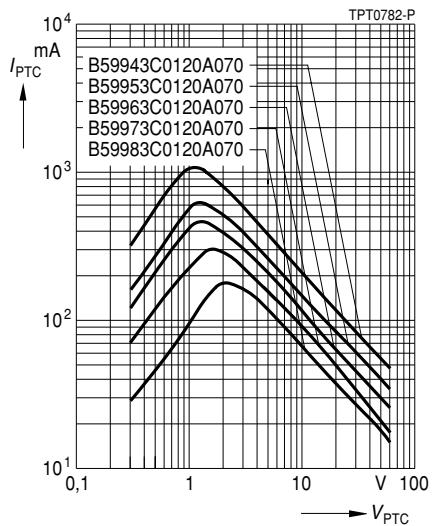
PTC resistance R_{PTC} versus
PTC temperature T_{PTC}
(measured at low signal voltage)



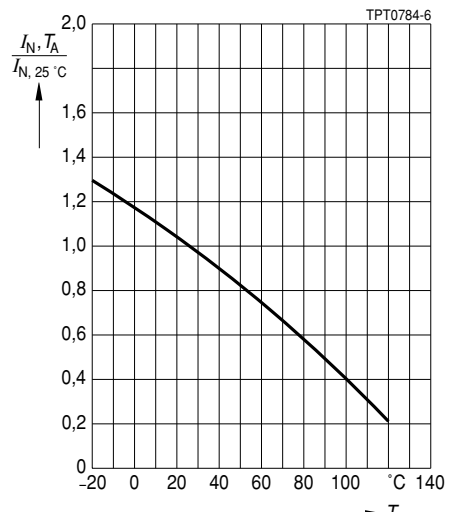
Switching time t_S versus switching current I_S
(measured at 25 °C in still air)



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



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





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