



## Overcurrent Protection

B599\*3

## Leaded Disks, Coated, 42 V Power Net

C 943 ... C 983

### Applications

- Overcurrent protection for 42 V power net

### Features

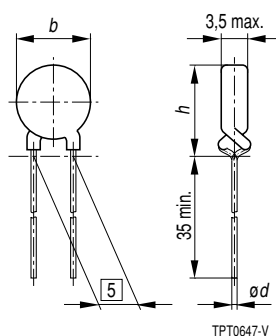
- Lead-free terminals
- Manufacturer's logo and type designation stamped on in white

### 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)

### Delivery mode

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



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

### General technical data

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

### Electrical specifications and ordering codes

Type	$I_N$	$I_S$	$I_{Smax}$ ( $V = V_{max}$ )	$I_r$ (typ.) ( $V = V_{max}$ )	$R_N$	$R_{min}$	Ordering code
	mA	mA	A	mA	$\Omega$	$\Omega$	
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

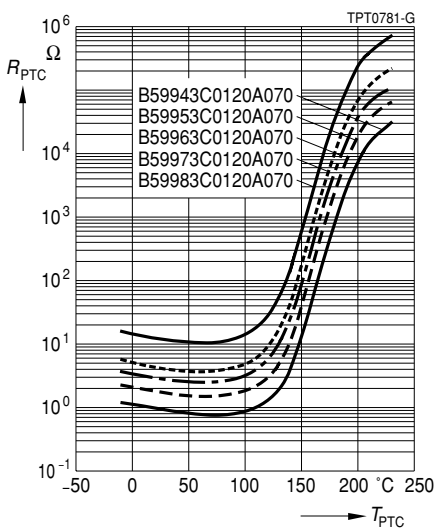
1) To ISO/TC22 WD24V-1E

2) Peak value of maximum DC operating voltage, incl. ripple

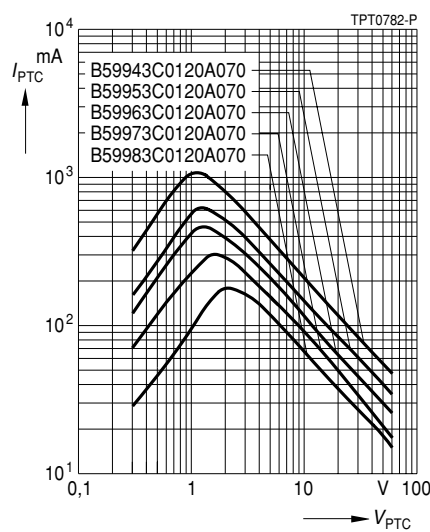


**Characteristics (typical)**

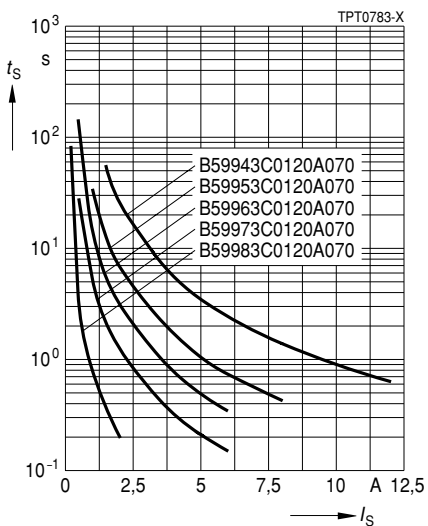
PTC resistance  $R_{PTC}$  versus  
PTC temperature  $T_{PTC}$   
(measured at low signal voltage)



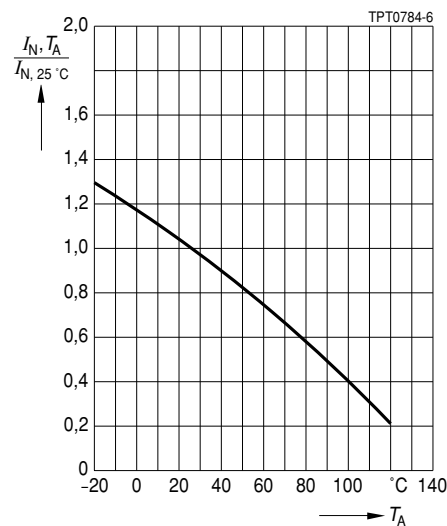
PTC current  $I_{PTC}$  versus PTC voltage  $V_{PTC}$   
(measured at 25 °C in still air)



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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