

Applications

- Overcurrent protection in MDF modules

Features

- Compliant with ITU-T K20, K21, K45
 - basic level lightning surges (10/700 μ s)
 - basic level power induction (600 V, 1 A, 0,2 s)
 - power contact criteria A/B (230 V, 15 min.)
- Suitable for continuous connection to mains voltages of 110/230 VAC in tripped (high ohmic) condition
- Narrow resistance tolerance

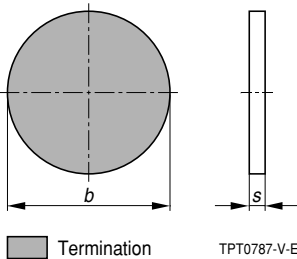
Options

- Alternative tolerances and resistances on request

Delivery mode

- Packed in deep-drawn trays

Dimensional drawing



Dimensions (mm)

Type	$b_{\max}$	$s_{\max}$	Type	$b_{\max}$	$s_{\max}$
A 1048	7,7	5,0	A 1041	8,0	2,0
A 1037	6,6	1,5	A 48	7,7	5,0
A 1042	8,2	2,0	A 34	6,6	1,5
A 1610	10,2	2,0	A 12	5,9	2,0
A 1012	5,9	2,0	A 37	5,9	2,0

General electrical data

Rated voltage	V_N	60	VDC
Maximum switching voltage	V_{Smax}	265	VAC
Resistance tolerance	ΔR_N	$\pm 20 \%$	
Operating temperature range ($V = 0$)	T_{op}	$- 25/+ 125$	$^{\circ}\text{C}$
($V = 230 \text{ V}$)	T_{op}	$0/+ 60$	$^{\circ}\text{C}$

Electrical specifications and ordering codes

Type	R_N Ω	$R_{25, \text{ match}}$ (per pack- ing unit) Ω	I_N @ 25 $^{\circ}\text{C}$ mA	I_N @ 40 $^{\circ}\text{C}$ mA	I_S @ 25 $^{\circ}\text{C}$ mA	I_{Smax} @ 230 VAC A	t_S @ I_{Smax} , 230 VAC s	Ordering code ¹⁾
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Solderable contacts

A 1048 ²⁾	6	$\pm 0,4$	150	120	250	2,5	$< 1,8$	B59048A1080B110
A 1037	10	$\pm 0,5$	150	130	350	1,0	$< 4,0$	B59037A1120B110
A 1042	10	$\pm 0,5$	150	135	300	1,0	$< 7,0$	B59042A1120A110
A 1610	10	$\pm 0,2$	150	135	300	10,0	$< 0,2$	B59610A1120B110
A 1012	12	$\pm 0,5$	100	80	300	1,0	$< 0,2$	B59012A1080B110
A 1041	25	$\pm 0,5$	100	80	200	2,8	$< 0,4$	B59041A1120A110

Clamped contacts

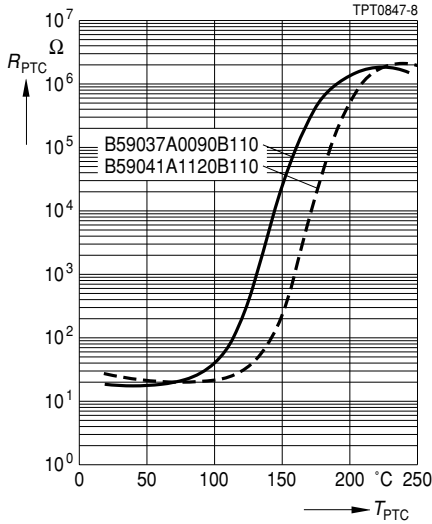
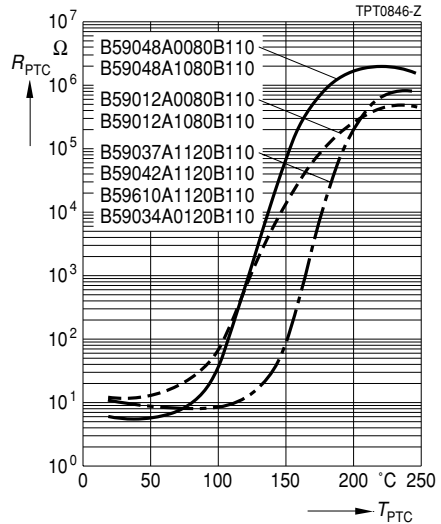
A 48 ²⁾	6	$\pm 0,4$	150	120	300	3,0	$< 1,0$	B59048A0080B110
A 34	10	$\pm 0,5$	150	130	350	1,0	$< 6,0$	B59034A0120B110
A 12	12	$\pm 0,5$	120	80	350	1,5	$< 1,5$	B59012A0080B110
A 37	18	$\pm 0,25$	100	80	200	4,0	$< 0,2$	B59037A0090B110

1) The compliance to technical requirements of PTC thermistors intended for deployment in main distribution frames, especially rated current and switching characteristics, must be verified in the specific module.

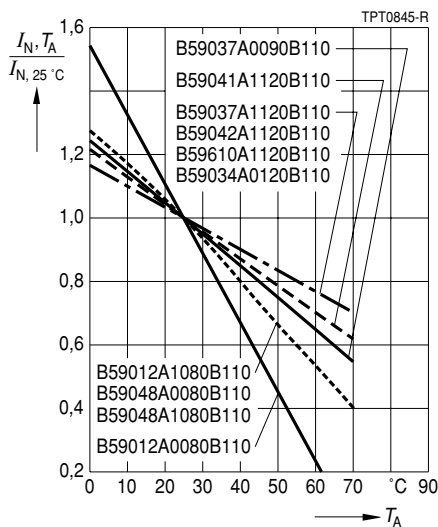
2) A 1048 and A 48 suited as heat-coil replacement.

Characteristics (typical)

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



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



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