



Motor Starting

B5919*, B595**

Metallized Disks in EPCOS Housing

J 19*, J 5**

Applications

- Time delay in turning off the auxiliary winding of single-phase AC motors (e.g. refrigerator compressors)

Features

- Thermistor disk encapsulated in heat-resistant, flame-retardant plastic case with connections for compressor power supplies and tab connectors
- Metallization: CrNi (sputtered) + Ag (screen-printed)
- Excellent long-term reliability
- VDE approval (license number 87406 E), except J 524
- UL approval for J 501 and J 506 acc. to demands of UL 1434 and UL 873 (file number E161049)

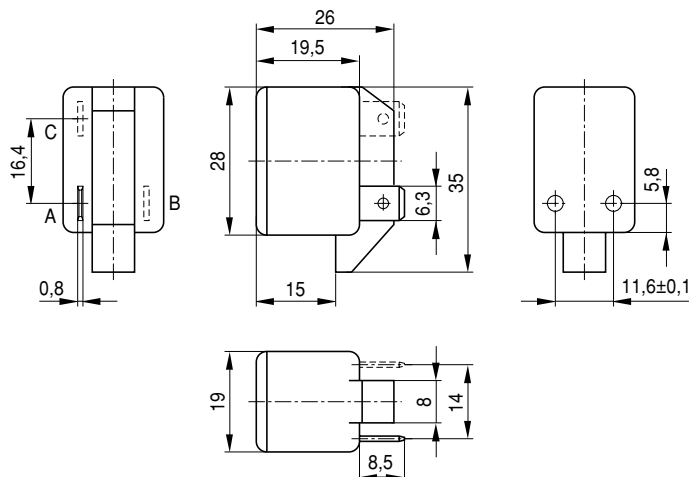
Options

- Other dimensions and ratings on request
- Other terminal options on request

Delivery mode

- Cardboard box

Dimensional drawing



A : one tab connector version
A + B : two tab connectors version
A + B + C : three tab connectors version

TPT0658-B-E



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General technical data

Switching cycles	N	> 100000	
Operating temperature range ($V = 0$)	T_{op}	+ 5/+ 80	°C
($V = V_{max}$)	T_{op}	+ 5/+ 80	°C

Electrical specifications and ordering codes

Type	I_{max} A	V_{max} V	T_{Ref} °C	T_{surf} °C	$t_S^{1)}$ s	V_{BD} V	$R_N \pm \Delta R_N$ ($V_{PTC} \leq 2,5$ V) Ω	I_r mA	Ordering code
$V_N = 230$ V _{rms}									
J 502	4	400	120	180	0,55	> 750	47 ± 30 %	8	B59502J0120A*20
J 501	6	355	135	190	0,45	> 700	33 ± 20 %	8	B59501J0135A*20
J 524	7	300	135	190	0,55	> 600	22 ± 20 %	10	B59524J0135A*20
J 544	8	320	120	180	0,35	> 650	20 ± 20 %	12	B59544J0120A*20
J 192	8	325	120	180	0,35	> 650	25 + 15/- 20 %	10	B59192J0120A*20
J 196	8	350	120	180	0,50	> 700	15 ± 30 %	10	B59196J0120A*20
J 197	9	350	120	180	0,30	> 700	33 ± 30 %	8	B59197J0120A*20
$V_N = 120$ V _{rms}									
J 508	10	180	135	190	0,55	> 360	4,7 ± 20 %	17	B59508J0135A*20
J 506	12	180	120	180	0,45	> 360	4,7 ± 20 %	16	B59506J0120A*20

Replace * by 1 $\triangle$ one tab connector
 * by 2 $\triangle$ two tab connectors
 * by 3 $\triangle$ three tab connectors

1) Measured at $V = V_{max}$ and $I = 0,8 \cdot I_{max}$



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Reliability data

Test ¹⁾	Standard	Test conditions	$ \Delta R_{25}/R_{25} $
Switching test at room temperature	IEC 60738-1	$V_{\max}$; R_S Room temperature Number of cycles: 10000	< 25%
Life test at $V_{\max}/T_{\text{op}}$	IEC 60738-1	Storage at $V_{\max}/T_{\text{op}}$ for t : 1000 h	< 25%
Damp heat	IEC 60068-2-3	Storage at 40 °C Relative humidity: 93% Duration: 56 days	< 20%
Rapid change of temperature in air	IEC 60068-2-14, Test N_a	– 25 °C, 125 °C Number of cycles: 5 t : 30 min	< 20%
Vibration	IEC 60068-2-6, Test F_C	$f = 10\text{--}55\text{--}10$ Hz $h = 0,75$ mm (respectively 10 g) t : 3 · 2 h	< 20%
Bump	IEC 60068-2-27	Pulse shape: half-sine a : = 40 g Pulse duration: 6 ms; 6 · 4000 pulses	< 20%
Climatic sequence	IEC 60068-2-30	Dry heat: $T = 125$ °C, t : 16 h Damp heat first cycle Cold: $T = -25$ °C, t : 2 h Damp heat 5 cycles	< 25%

1) All tests with PTC disk mounted in EPCOS housing

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