

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)

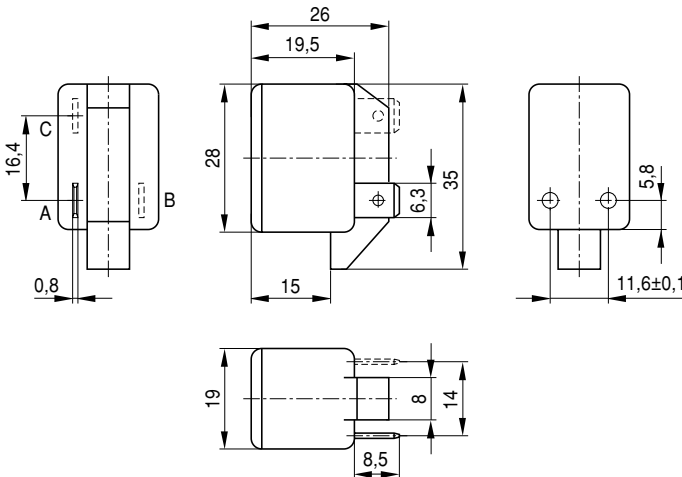
Options

- 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

General technical data

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

Electrical specifications and ordering codes

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

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_{op}	IEC 60738-1	Storage at V_{\max}/T_{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	$f = 10-55-10$ 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

Herausgegeben von EPCOS AG

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