



Motor Starting

B5955*

Metallized Disks for Low Power Consumption

A 553, A 557

Applications

- Time delay in turning off the auxiliary winding of single-phase AC motors

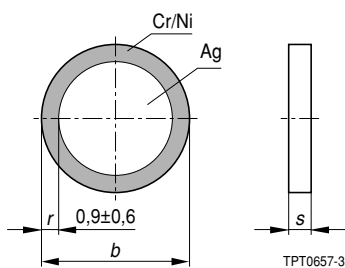
Features

- Metallization: CrNi (sputtered) + Ag (screen-printed)
- Excellent long-term reliability
- Suitable for clamp contacting
- UL approval for A 553 to UL 1434 (file number E69802)

Delivery mode

- Bulk

Dimensional drawing



Dimensions (mm)

Type	<i>b</i>	<i>s</i>
A 553	16,0 ± 0,5	2,5 ± 0,2
A 557	16,0 ± 0,5	2,5 ± 0,2

General technical data

Switching cycles	<i>N</i>	> 100000	
Operating temperature range (<i>V</i> = 0)	<i>T</i> _{op}	+ 5/+ 80	°C
	<i>T</i> _{op}	+ 5/+ 80	°C

Electrical specifications and ordering codes

Type	<i>V</i> _{max}	<i>I</i> _{max}	<i>T</i> _{Ref}	<i>T</i> _{surf}	<i>t</i> _S ⁽¹⁾	<i>V</i> _{BD}	<i>R</i> _N ± Δ <i>R</i> _N (<i>V</i> _{PTC} ≤ 2,5 V)	<i>I</i> _r ⁽²⁾	Ordering code
	V	A	°C	°C	s	V	Ω	mA	
<i>V</i> _N = 120 <i>V</i> _{rms}									
A 553	180	12	110	180	0,35	400	5,5 ± 30 %	12	B59553A0110A020
<i>V</i> _N = 230 <i>V</i> _{rms}									
A 557	320	8	110	180	0,30	650	15 ± 20 %	8	B59557A0110A020

1) Measured at *V* = *V*_{max} and *I* = 0,8 · *I*_{max}

2) Measured with PTC thermistor mounted in standard EPCOS motor start housing



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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_{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

Unternehmenskommunikation, Postfach 80 17 09, 81617 München, DEUTSCHLAND

☎ ++49 89 636 09, FAX (0 89) 636-2 26 89

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Published by EPCOS AG

Corporate Communications, P.O. Box 80 17 09, 81617 Munich, GERMANY

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