

“A” resolver option

Data sheet

Supplier nominal data

Primary side	R1 - R2	R1 - R2
Input frequency	5 kHz	10 kHz
Pole pairs	1	1
Transformation ratio	0,5 ±10%	0,5 ±10%
Input voltage	7 V	7V
Input current	58 mA	36 mA
Phase shift	8° ± 3°	-6° ±3°
Null voltage	30 mV max.	30 mV max.
Impedance		
Zro	75 j 98 Ohm	110 j 159 Ohm
Zrs	70 j 85 Ohm	96 j 150 Ohm
Zso	180 j 230 Ohm	245 j 400 Ohm
Zss	170 j 200 Ohm	216 j 370 Ohm
D.C. resistance		
Rotor	40 Ohm ±10%	40 Ohm ±10%
Stator	102 Ohm ±10%	102 Ohm ±10%
Accuracy absolute	±10'	±10'
Accuracy spread	18'	18'
Accuracy ripple	1' max.	1' max.
Operating temperature	-55°C...+155°C	-55°C...+155°C
Shock (11 ms)	<= 10.000 m/s ²	<- 10.000 m/s ²
Vibration 110 to 500 Hz	< 500 m/s ²	<= 500 m/s ²
Hi-pot housing/winding	500 V min.	500 V min.
Hi-pot winding/winding	250 V min.	250 V min.

The A resolver is available with a large variety of different pinout configurations, suitable for drives from different manufacturers. Please consult the document NM00118 Connector pinouts for details.