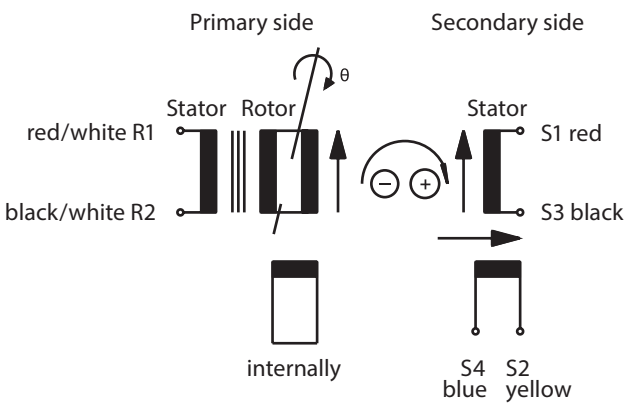




RESOLVE R
RE 43

FACTS

- Hollow shaft Ø: max. 65 mm
- Outer Ø: 110 mm
- Length: 30 mm



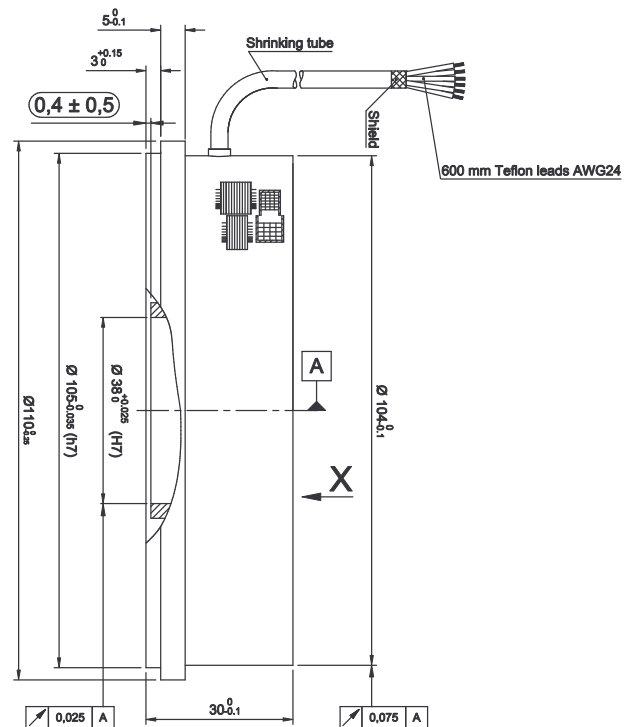
Input: $E(R1-R2) = E \cdot \sin(\cos)$

Output: $E(S1-S3) = TR \cdot E(R1-R2) \cdot \cos \theta$

$E(S2-S4) = TR \cdot E(R1-R2) \cdot \sin \theta$

TR = Transformation ratio

Positive counting direction: Rotor cw as viewed (X →)



SELECTION GUIDE FOR ELECTRICAL DATA

Primary side	R1 - R2	R1 - R2
Pole Pairs	1	1
Transformation ratio	1 ± 10%	1 ± 10%
Input voltage	7 V	7 V
Input current	55 mA	39 mA
Input frequency	5 kHz	10 kHz
Phase shift	10° ± 3°	-7° ± 3°
Null voltage	max. 30 mV	max. 30 mV
Impedance		
Zro	109 Ω + j · 72 Ω	129 Ω + j · 120 Ω
Zrs	96 Ω + j · 64 Ω	114 Ω + j · 115 Ω
Zso	204 Ω + j · 238 Ω	279 Ω + j · 380 Ω
Zss	185 Ω + j · 211 Ω	240 Ω + j · 355 Ω
D.C. resistance		
Rotor	76 Ω ± 10% at 20 °C	76 Ω ± 10% at 20 °C
Stator	74 Ω ± 10% at 20 °C	74 Ω ± 10% at 20 °C
Accuracy		
Accuracy	± 20'	± 20'
Accuracy ripple	max. 1'	max. 1'
Operating temperature		
Operating temperature	-55 °C ... +155 °C (-67 °F ... +311 °F)	-55 °C ... -155 °C (-67 °F ... +311 °F)
Max. permissible speed		
Max. permissible speed	5.000 min ⁻¹	5.000 min ⁻¹
Shock (11ms)		
Shock (11ms)	< = 1.000 m/s ²	< = 1.000 m/s ²
Vibration (10 to 500 Hz)		
Vibration (10 to 500 Hz)	< = 500 m/s ²	< = 500 m/s ²
Weight rotor/stator		
Weight rotor/stator	400 g / 500 g	400 g / 550 g
Hi-pot housing/winding		
Hi-pot housing/winding	min. 500 V _{AC}	min. 500 V _{AC}
Hi-pot winding/winding		
Hi-pot winding/winding	min. 250 V _{AC}	min. 250 V _{AC}
Rotor/ Stator		
Rotor/ Stator	Completely impregnated	Completely impregnated