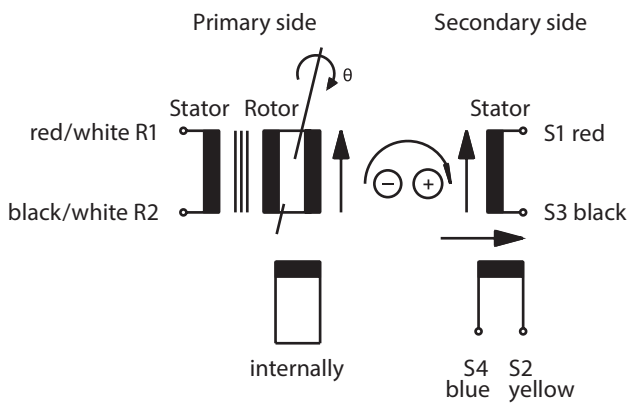




RESOLVE R  
RE 10

## FACTS

- Hollow shaft Ø: max. 6 mm
- Outer Ø: 26 mm
- Length: 20 mm



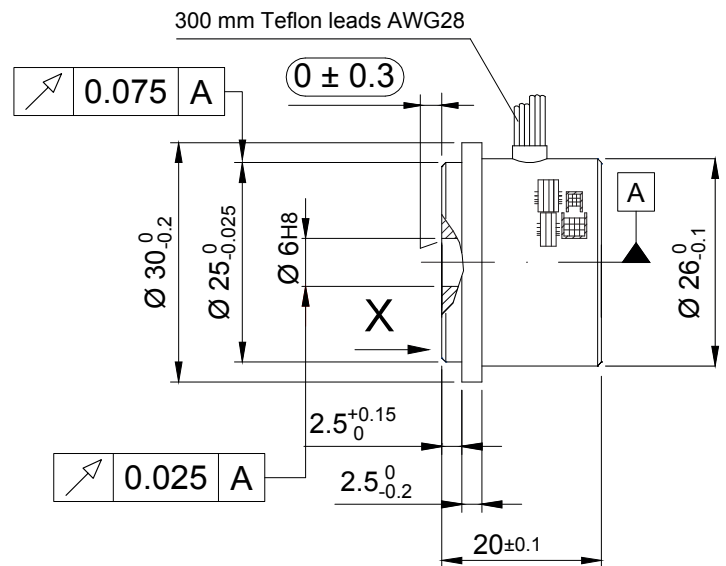
Input:  $E(R1-R2) = E \cdot \sin(\cos)$

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	0,5 ± 10%	0,5 ± 10%
Input voltage	7 V	7 V
Input current	65 mA	35 mA
Input frequency	5 kHz	10 kHz
Phase shift	9° ± 3°	-2° ± 3°
Null voltage	max. 30 mV	max. 30 mV
<b>Impedance</b>		
Zro	53 Ω + j · 105 Ω	85 Ω + j · 175 Ω
Zrs	52 Ω + j · 85 Ω	70 Ω + j · 150 Ω
Zso	78 Ω + j · 126 Ω	115 Ω + j · 235 Ω
Zss	75 Ω + j · 100 Ω	90 Ω + j · 195 Ω
<b>D.C. resistance</b>		
Rotor	22 Ohm ± 10% at 20 °C	22 Ohm ± 10% at 20 °C
Stator	77 Ohm ± 10% at 20 °C	77 Ohm ± 10% at 20 °C
<b>Accuracy</b>		
Accuracy	± 10'	± 10'
Accuracy ripple	max. 1'	max. 1'
Operating temperature	-55 °C ... +155 °C (-67 °F ... +311 °F)	-55 °C ... -155 °C (-67 °F ... +311 °F)
<b>Max. permissible speed</b>		
Shock (11ms)	< = 1.000 m/s <sup>2</sup>	< = 1.000 m/s <sup>2</sup>
Vibration (10 to 500 Hz)	< = 500 m/s <sup>2</sup>	< = 500 m/s <sup>2</sup>
<b>Hi-pot housing/winding</b>		
Hi-pot winding/winding	min. 500 V <sub>AC</sub> min. 250 V <sub>AC</sub>	min. 500 V <sub>AC</sub> min. 250 V <sub>AC</sub>
Rotor	Completely impregnated	Completely impregnated
Stator	Windings impregnated	Windings impregnated