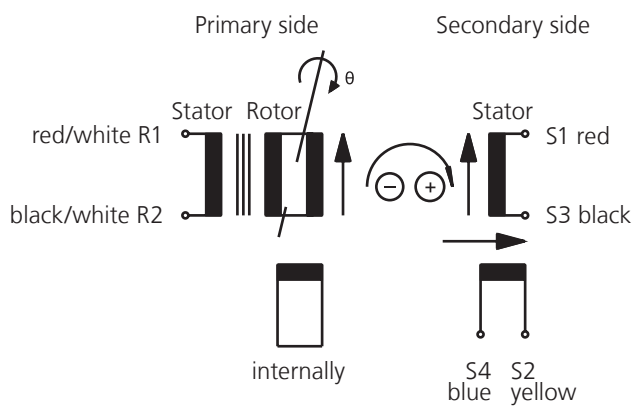




RESOLVER  
RE 15

## FACTS

- Hollow shaft Ø: max. 12 mm
- Outer Ø: 36.8 mm
- Length: 16 mm



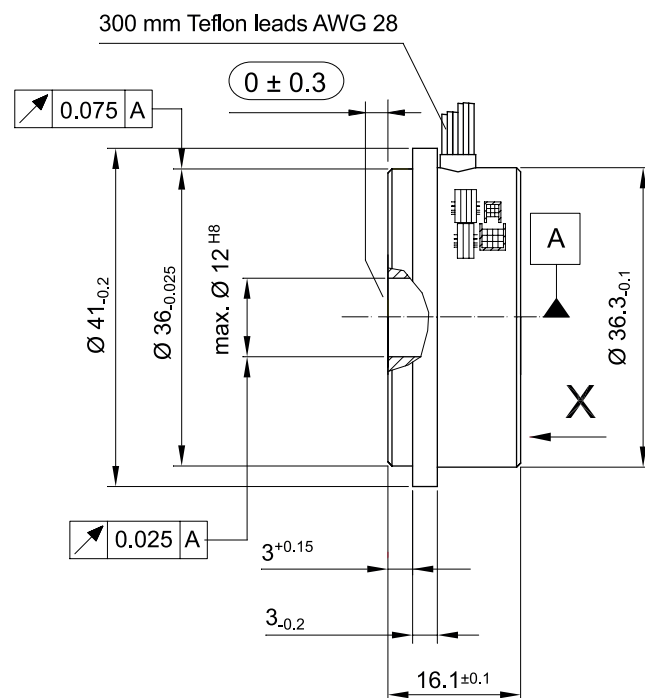
Input:  $E(R1-R2) = E \cdot \sin(\cos)$

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

Basic Model	RE 15-1-A15		RE 15-1-K01		RE 15-1-V07		RE 15-3-D04		RE 15-4-D04	
Primary Side	R1 - R2									
Pole Pairs	1				3		4			
Transformation ratio	0.5 ± 0.05									
Input voltage	7 V <sub>rms</sub>	7 V <sub>rms</sub>	5 V <sub>rms</sub>	5 V <sub>rms</sub>	7 V <sub>rms</sub>	7 V <sub>rms</sub>	7 V <sub>rms</sub>	7 V <sub>rms</sub>	7 V <sub>rms</sub>	7 V <sub>rms</sub>
Input current	58 mA	36 mA	48 mA	17 mA	58 mA	36 mA	50 mA	24 mA	16 mA	10 mA
Input frequency	5 kHz	10 kHz	1 kHz	4.5 kHz	5 kHz	10 kHz	4 kHz	10 kHz	5 kHz	10 kHz
Phase shift (± 3°)	8°	-6°	26°	0°	8°	-6°	15°	0°	15°	1°
Null voltage	max. 30 mV									
Accuracy	± 10', ± 6' on request				± 4'		± 5'		± 6'	
Accuracy ripple	max. 1'						max. 3'			
Operating temperature	- 55 °C ... + 155 °C (-67 °F ... +311 °F)									
Max. permissible speed	20.000 min <sup>-1</sup>									
Hi-pot housing/winding	min. 500 V <sub>AC</sub>									
Hi-pot winding/winding	min. 250 V <sub>AC</sub>									
Rotor/Stator	Completely impregnated									