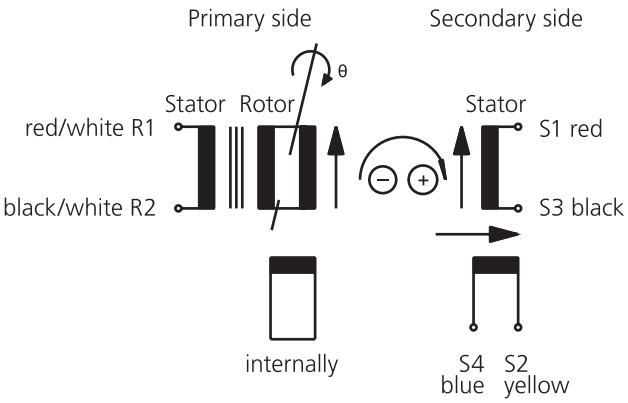
RESOLVER

RE 15

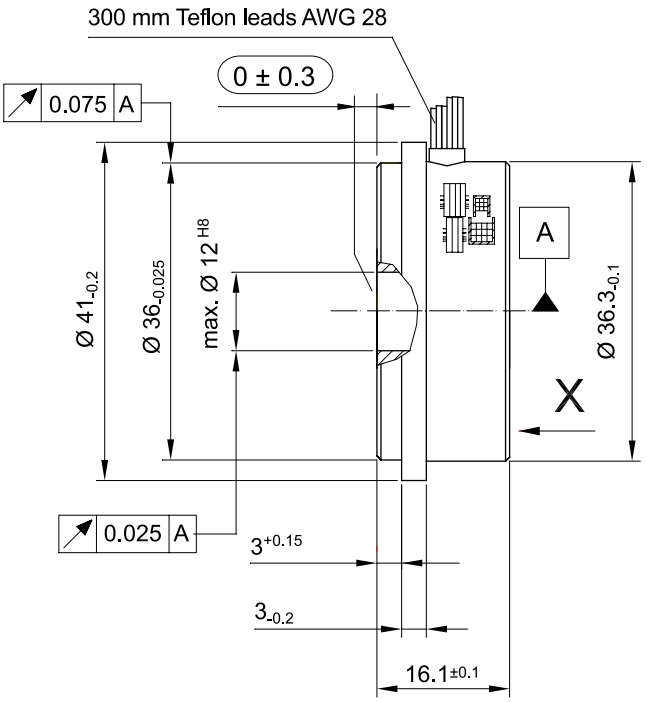
FACTS

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



Input: E(R1-R2) = E · sin(cos)
Output: E(S1-S3) = TR · E(R1-R2) · cos θ
E(S2-S4) = TR · E(R1-R2) · sin θ
TR = Transformation ratio

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



RESOLVER

RE 15

SELECTION GUIDE FOR ELECTRICAL DATA

Basic Model	RE 15-1-A14		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_{rms}	7 V_{rms}	5 V_{rms}	5 V_{rms}	7 V_{rms}	7 V_{rms}	7 V_{rms}	7 V_{rms}	7 V_{rms}	7 V_{rms}
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^{-1}									
Hi-pot housing/winding	min. 500 V_{AC}									
Hi-pot winding/winding	min. 250 V_{AC}									
Rotor/Stator	Completely impregnated									

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