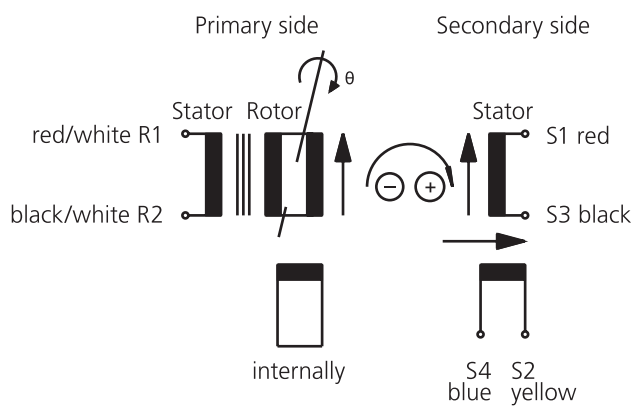




RESOLVER
RE 21

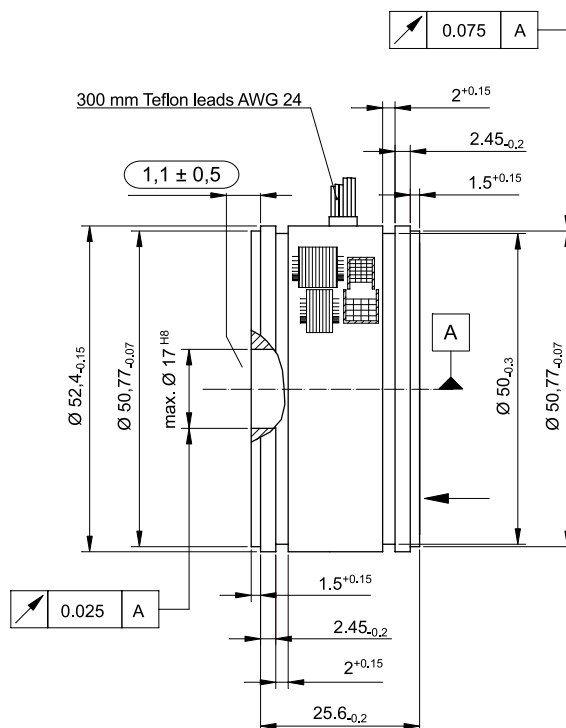
FACTS

- Hollow shaft Ø: max. 17 mm
- Outer Ø: 52.4 mm
- Length: 26 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 21-1-A01	RE 21-1-A06	RE 21-1-A05	RE 21-1-K05	RE 21-3-A03					
Primary Side	R1 - R2									
Pole Pairs	1				3					
Transformation ratio	1,0 ± 0.1		0.5 ± 0.05							
Input voltage	7 V _{rms}	7 V _{rms}	7 V _{rms}	7 V _{rms}	5 V _{rms}	5 V _{rms}	7 V _{rms}	7 V _{rms}		
Input current	40 mA	30 mA	47 mA	30 mA	70 mA	56 mA	32 mA	17 mA	70 mA	40 mA
Input frequency	5 kHz	10 kHz	5 kHz	10 kHz	5 kHz	7 kHz	1 kHz	4,5 kHz	5 kHz	10 kHz
Phase shift (± 3°)	11°	-7.5°	8°	-8°	6°	-3°	26°	-6°	12°	1°
Null voltage	max. 30 mV									
Accuracy	± 6', ± 4' on request									
Accuracy ripple	max. 1'									
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									