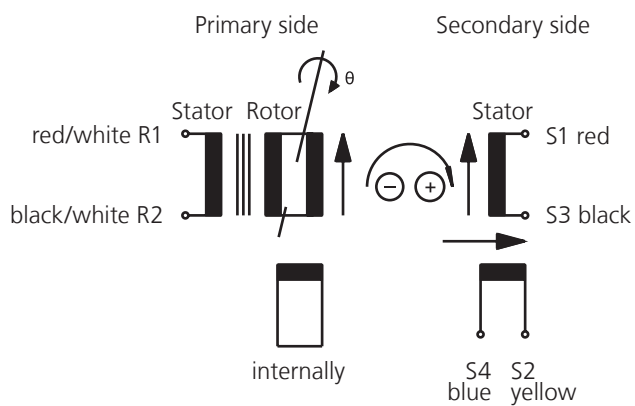




## FACTS

- Hollow shaft Ø: max. 17 mm
- Outer Ø: 52.4 mm
- Length: 26 mm



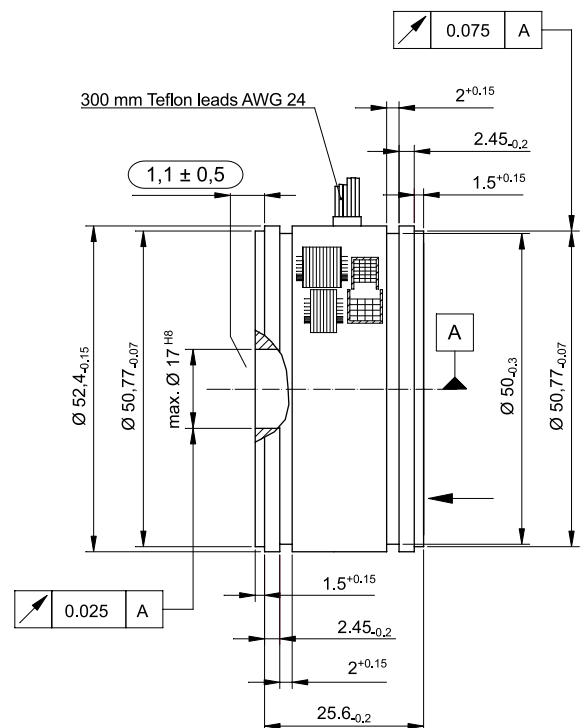
Input:  $E(R1-R2) = E \cdot \sin(\cos)$

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-A05		RE 21-1-A06		RE 21-1-K05		RE 21-3-A03	
Primary Side	R1 - R2									
Pole Pairs	1								3	
Transformation ratio	1.0 ± 0.1		0.5							
Input voltage	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>	5 V <sub>rms</sub>	5 V <sub>rms</sub>	7 V <sub>rms</sub>	7 V <sub>rms</sub>
Input current (typ.)	40 mA	30 mA	70 mA	56 mA	45 mA	27 mA	32 mA	17 mA	70 mA	40 mA
Input frequency	5 kHz	10 kHz	5 kHz	7 kHz	5 kHz	10 kHz	1 kHz	4.5 kHz	5 kHz	10 kHz
Phase shift (± 3°)	11°	-7.5°	8°	0°	8°	-8°	26°	-6°	12°	1°
Null voltage	max. 30 mV									
Accuracy	± 10', ± 4' on request									
Accuracy ripple	max. 1'									
Operating temperature	- 55°C ... + 155°C									
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									