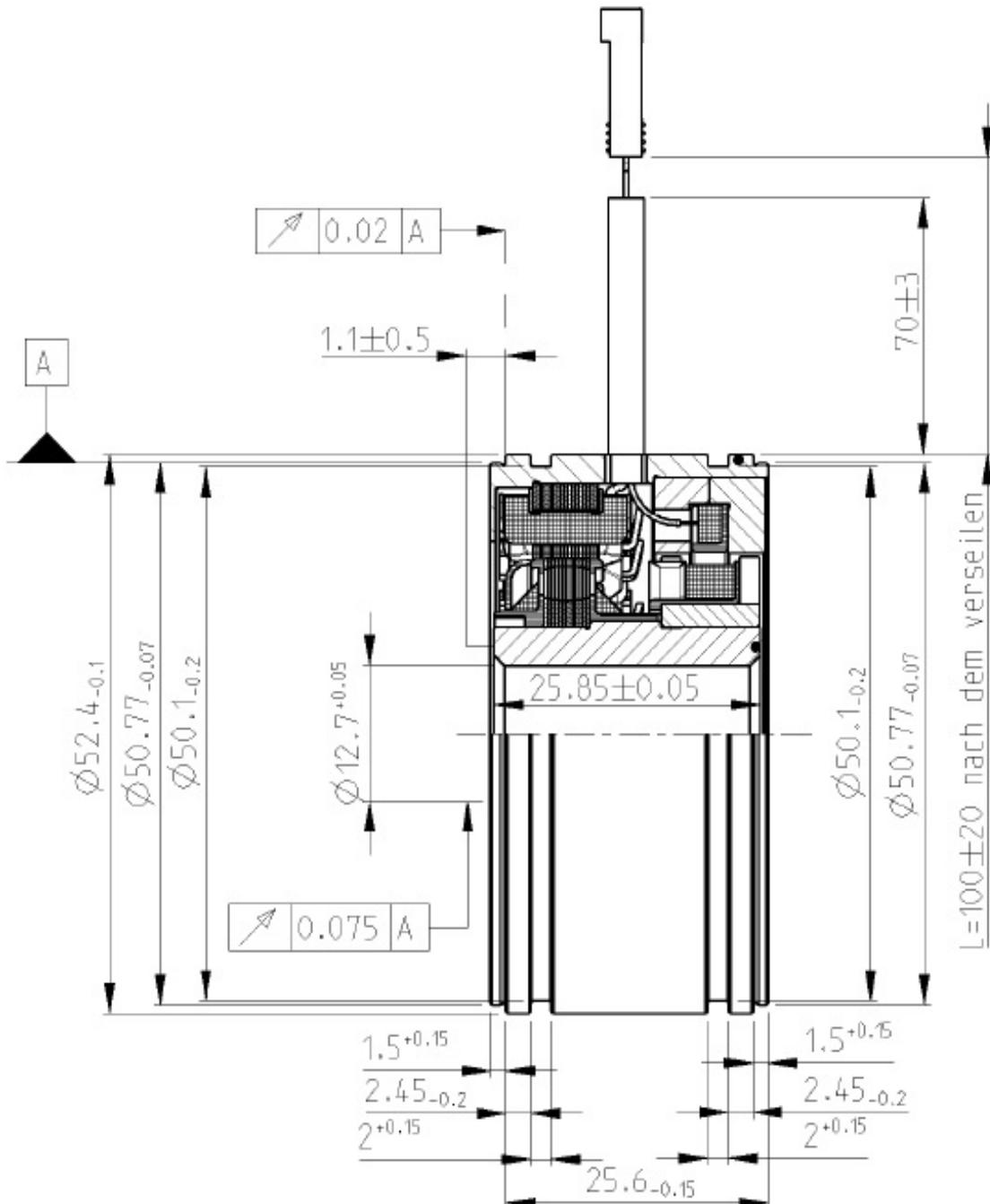


DATA SHEET - HOLLOW SHAFT RESOLVER

PN	1-1393048-6		
Description:	V23401	H1409-B101	
Size	21		
Shaft	B1		
Speed - pair of poles - [pp]	1		
Application Spec			
Test protocol	100% EOL testing, stored. Available up on request		
Electrical parameters (at 22°C):			
Input voltage nom. [V _{rms}]	7.0		DC resistance R1R2 [Ω] 21
Frequency nom. [kHz]	8.0		R1R2 tolerance [±%] 10
Input current max [mA]	46	Based on nominal Input voltage and Frequency	DC resistance S1S3 or S2S4 [Ω] 22
Transformation ratio rT [±]	0.48		S1S3 or S2S4 tolerance [±%] 10
Transf. ratio tolerance [%]	5		
Phase shift min [°]	-13		
Phase shift max [°]	-3		
Angular Error max [']	20		
Residual voltage max [mV]	25		
Connect. Wire Length [mm]	100, AWG 26 Teflon Isolated		
High Voltage test	Voltage: 500 V _{AC} ± 3% (A)		Measured between:
	250 V _{AC} ± 3% (B)		A: Winding R1-R2 and housing
	Time: 1s		Winding S1-S3 and housing Winding S2-S4 and housing
Isolation test	Voltage: 500 V _{DC} ± 5% (A, B)		B: Windings S1-S3 and S2-S4
	Criterium: R _{isol.} > 50M Ohm		
"Zero" setting:	Ele. "0" is when Winding Us2-s4 = 0 and Us1-s3 are in phase with Ur1-r2		
Transformation function	Function applies to the clockwise rotation of the rotor when looking at the (grooveless) transformer component from the top		
	$U_{S1-S3} = +rT * U_{R1-R2} * \cos(pp * \varphi)$		
	$U_{S2-S4} = +rT * U_{R1-R2} * \sin(pp * \varphi)$		
Rotor Inertia	approx. 20 g/cm ²		
Max. Rotational Speed	20.000 rpm		
Shock resistance (11ms sine)	1000 m/s ²		
Vibration (0 ... 2 kHz)	200 m/s ²		
Operating temp.	-55°C...+150°C		



DATE	REV.	DWN	APP	LTR
2015-06-25	A	P. Lerchenfeld	D. Ondrej	1