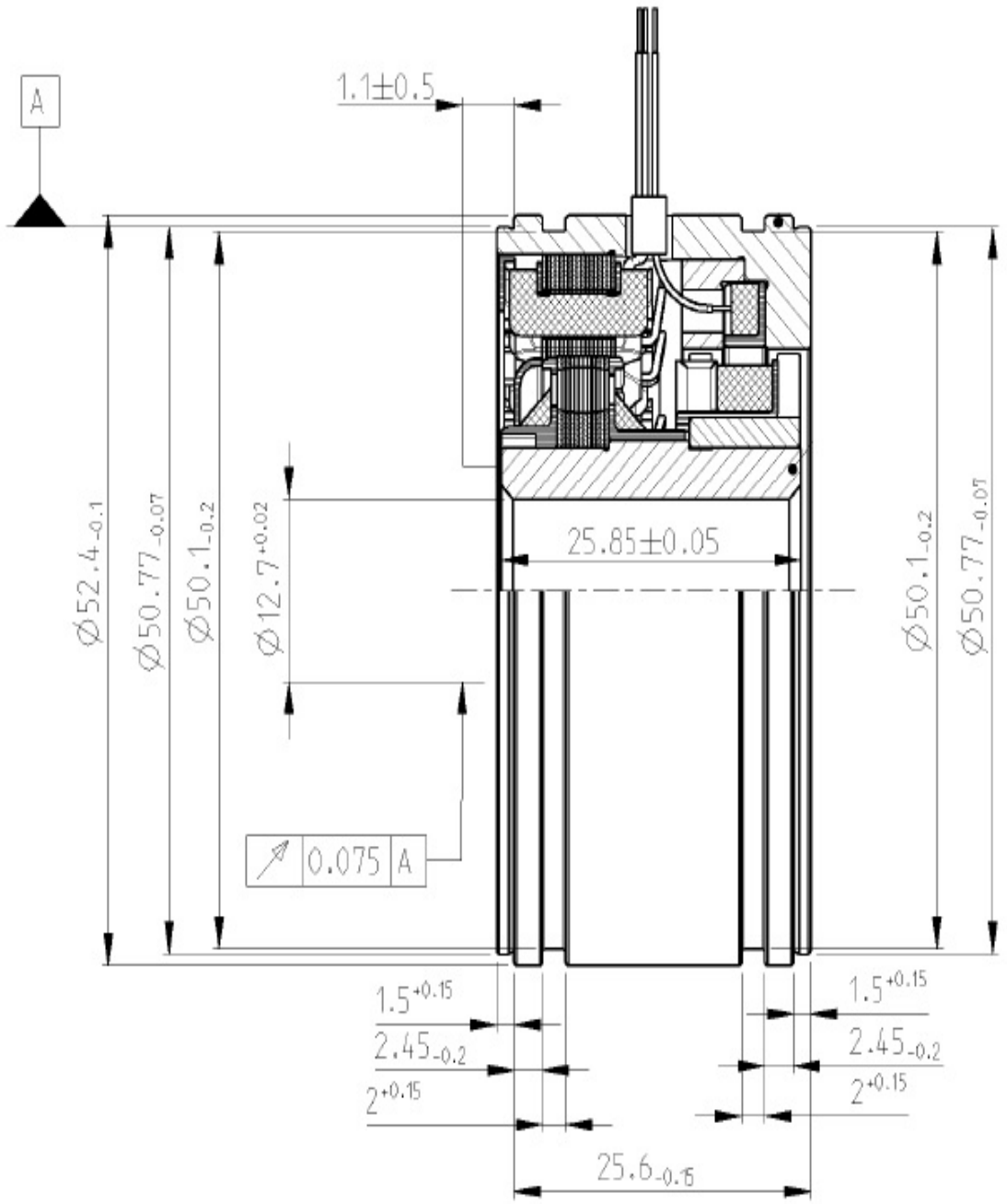
6-1393048-1
Rev. A
25 June 2015

DATA SHEET - HOLLOW SHAFT RESOLVER

PN	6-1393048-1			
Description:	V23401		U1016-B110	
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. [Vrms]	4.0	possible 2V…20V	DC resistance R1R2 [Ω]	65
Frequency nom. [kHz]	5.0	pos. 2kHz…10kHz	R1R2 tolerance [±%]	10
Input current max [mA]	20	Based on nominal Input voltage and Frequency	DC resistance S1S3 or S2S4 [Ω]	81
Transformation ratio rT [±]	0.50		S1S3 or S2S4 tolerance [±%]	10
Transf. ratio tolerance [%]	5			
Phase shift min [º]	-7			
Phase shift max [º]	3			
Angular Error max [']	12			
Residual voltage max [mV]	15			
Connect. Wire Lenght [mm]	300, 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 componnent from the top			
	$U_{S1-S3} = +\mathrm{rT} * U_{R1-R2} * \cos(pp * \varphi)$			
	$U_{S2-S4} = +\mathrm{rT} * U_{R1-R2} * sin(pp * \varphi)$			
Rotor Inertia	approx. $20\ g/cm^2$			
Max. Rotational Speed	20.000 rpm			
Shock resistance (11ms sine)	1000 m/s2			
Vibration (0 … 2 kHz)	200 m/s2			
Operating temp.	-55°C…+150°C			

| Indicates Change



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