6-1393048-5
Rev. A
25 June 2015

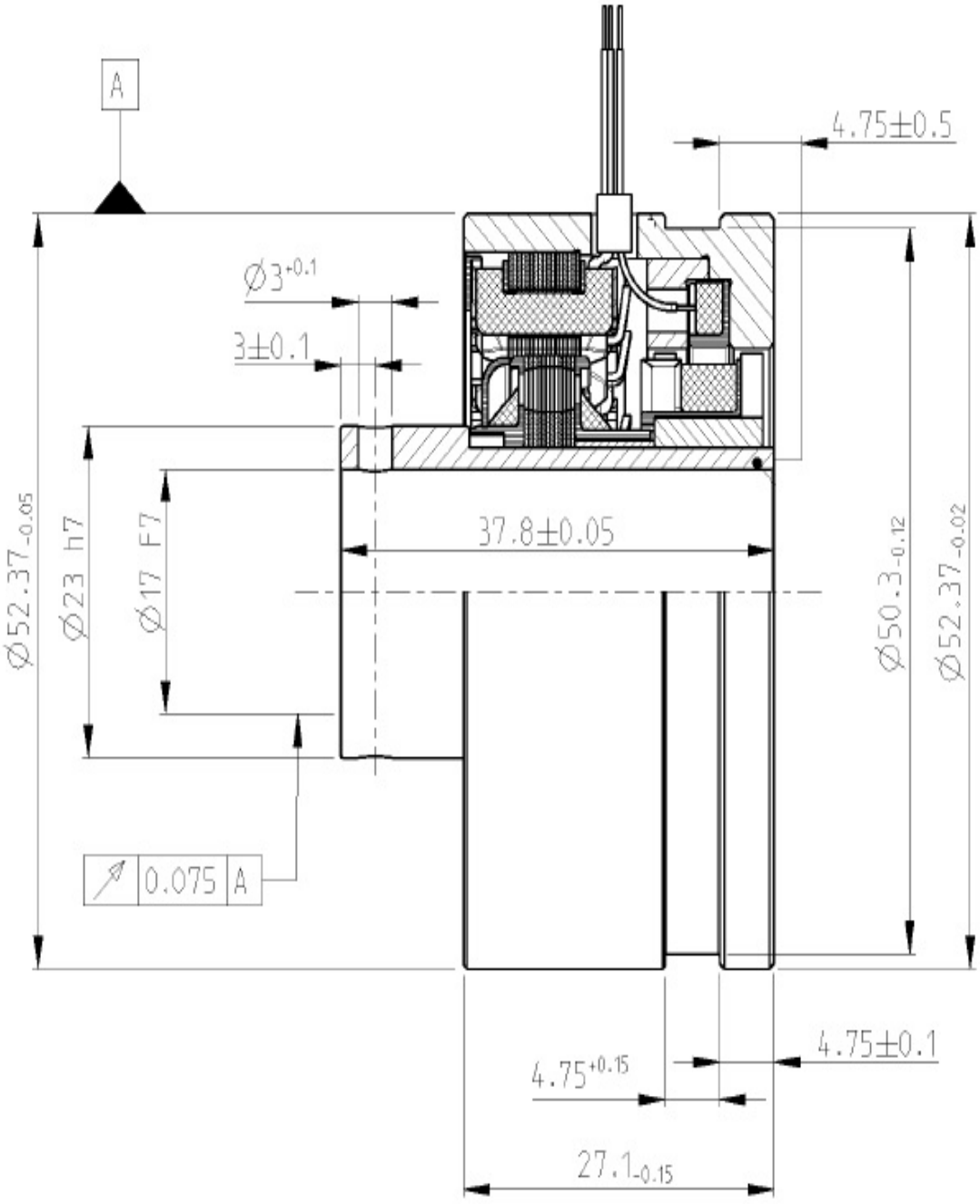
DATA SHEET - HOLLOW SHAFT RESOLVER

PN	6-1393048-5			
Description:	V23401		U7018-B709	
Size	21			
Shaft	B7			
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]	3.6		DC resistance R1R2 [Ω]	53
Frequency nom. [kHz]	7.8		R1R2 tolerance [±%]	15
Input current max [mA]	28	Based on nominal Input voltage and Frequency	DC resistance S1S3 or S2S4 [Ω]	58
Transformation ratio rT [±]	0.50		S1S3 or S2S4 tolerance [±%]	10
Transf. ratio tolerance [%]	5			
Phase shift min [º]	-13			
Phase shift max [º]	-3			
Angular Error max [']	16			
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