

DATA SHEET - HOLLOW SHAFT RESOLVER

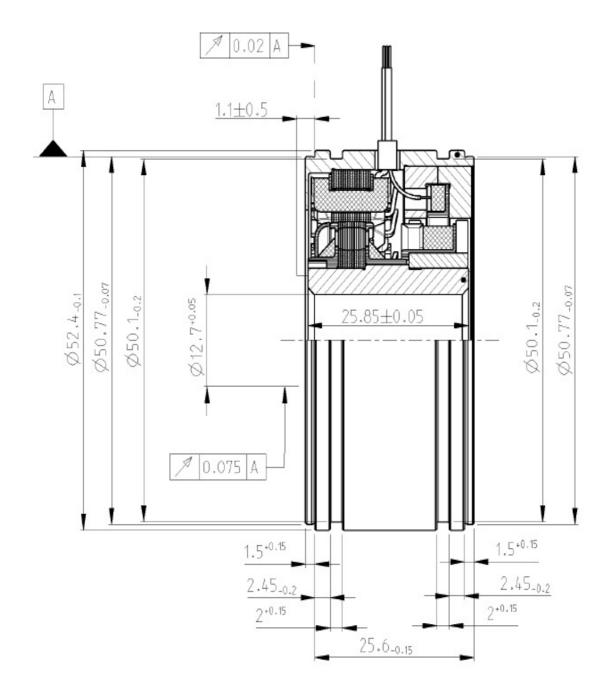
PN	3-1393048-3					
Description:	V23401		T1001-B122			
Size	21					
Shaft	B1					
Speed - pair of poles - [pp]	1					
Application Spec						
Test protocol		100% EOL testing,	stored. Available up on request			
Electrical parameters (at 22°	C):					
Input voltage nom. [Vrms]	7.0		DC resistance R1R2 [Ω]	19		
Frequency nom. [kHz]	10.0		R1R2 tolerance [±%]	10		
Input current max [mA]	40		DC resistance S1S3 or S2S4 [Ω]	58		
Transformation ratio rT [±]	1.00		S1S3 or S2S4 tolerance [±%]	10		
Transf. ratio tolerance [%]	10	Based on nominal				
Phase shift min [º]	-12	Input voltage and				
Phase shift max [º]	-2	Frequency				
Angular Error max [']	40					
Residual voltage max [mV]	25					
Connect. Wire Lenght [mm]		300, AV	VG 26 Teflon Isolated			
High Voltage test	Voltage: 500 $V_{AC} \pm 3\%$ (A) Measured between:					
	250 $V_{AC} \pm 3\%$ (B)		A: Winding R1-R2 and housing			
	Time: 1s		Winding S1-S3 and housing			
	Winding S2-S4 and housing					
Isolation test	Voltage: 500 $V_{DC}~\pm$ 5% (A, B) B: Windings S1-S3 and S2-S4					
	Criterium: $R_{isol.} > 50M \ Ohm$					
"Zero" setting:	Ele. "0" is	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					
	$U_{S1-S3} = + rT * U_{R1-R2} * cos(pp * \varphi)$					
	$U_{S2-S4} = + rT * U_{R1-R2} * sin(pp * \varphi)$					
Rotor Inertia	approx.	$20 g/cm^2$				
Max. Rotational Speed	20.000 rpm					
Shock resistance	1000 m/s2					
(11ms sine)	·					
Vibration (0 2 kHz)	200 m/s2					
Operating temp.	-55°C+150°C					

© 2015 TE Connectivity family of companies

All Rights Reserved

| Indicates Change

^{*}Trademark. TE Connectivity, TE connectivity (logo), and TE (logo) are trademarks. Other logos, product, and/or company names may be trademarks of their respective owners.



<u>DATE</u>	REV.	<u>DWN</u>	<u>APP</u>	<u>LTR</u>
2015-06-25	Α	P. Lerchenfeld	D. Ondrej	1