

DATA SHEET - HOLLOW SHAFT RESOLVER

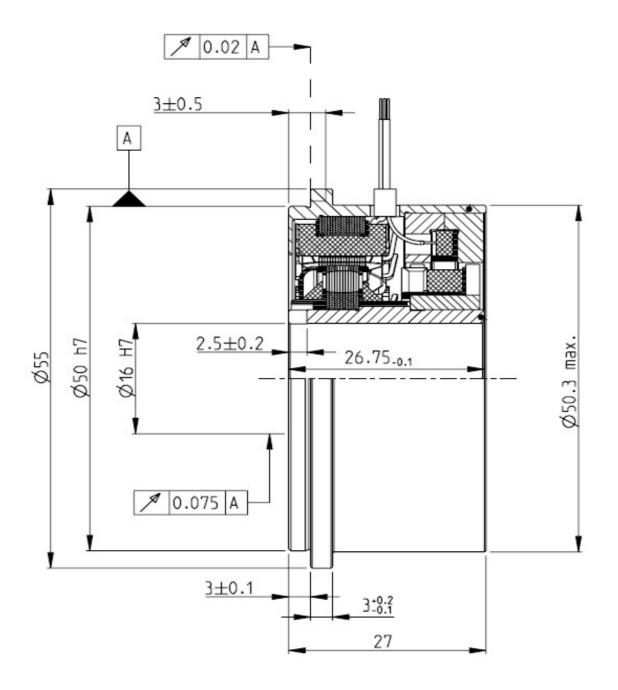
PN	4-1393048-2					
Description:	V23401		T2009-B202			
Size	21					
Shaft inner diameter [mm]	16 H7					
Speed - pair of poles - [pp]	1					
Application Spec						
Test protocol		100% EOL testing, st	tored. Available up on request			
Electrical parameters (at 22°C)):					
Input voltage nom. [Vrms]	5	possible 4V8V	DC resistance R1R2 [Ω]	21		
Frequency nom. [kHz]	4	pos, 2kHz10kHz	R1R2 tolerance $[\pm\Omega]$	2,1		
Input current max [mA]	50		DC resistance S1S3 or S2S4 [Ω]	22		
Transformation ratio rT [±]	0,5		S1S3 or S2S4 tolerance $[\pm\Omega]$	2,2		
Transf. ratio tolerance [%]	5	Based on nominal				
Phase shift min [º]	1	Input voltage and				
Phase shift max [º]	11	Frequency				
Angular Error [±']	7					
Residual voltage max [mV]	15					
Connect. Wire Lenght [mm]		300, AWG 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	ıd housing		
	Time: 1s Winding S1-S3 and housing					
	Winding S2-S4 and housing					
Isolation test	Voltage: 500	: 500 $V_{DC} \pm 5\%$ (A, B) B: Windings S1-S3 and S2-S4				
	Criterium: $R_{isol.} > 50M \ Ohm$					
"Zero" setting:	Ele. "0" is whe	Ele. "0" is when Winding Us2-s4 = 0 and Us1-s3 are in phase with Ur1-r2				
	Function applies to the clockwise rotation of the rotor when looking at the					
Transformation function	(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	1.000 m/s2					
(11ms sine)	1.000 111/32					
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>	PN REV.	<u>DWN</u>	<u>APP</u>	DS. REV
2015-06-25	С	P. Lerchenfeld	D. Ondrej	1
2017-04-26	С	P. Lerchenfeld	D. Ondrej	2