

DATA SHEET - HOLLOW SHAFT RESOLVER

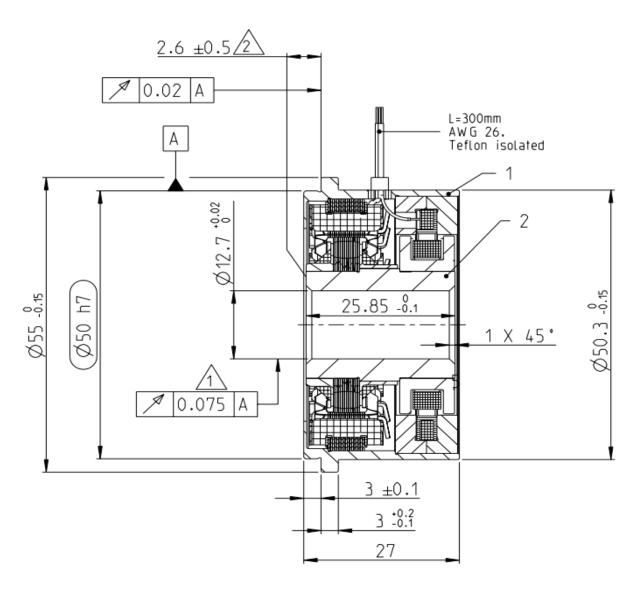
PN	2350437-1					
Description:	V23401-		T2071-B101			
Size	21					
Shaft inner diameter [mm]	12.7	1				
Speed (pair of poles) [p]	1					
Number of poles	2					
Application Specification						
Test protocol	Results saved to manufacturing site archives. Available by request					
Electrical parameters (22°C)	•					
Input voltage [V]	7		Input resistance R1R2 [Ω]	80		
Frequency Typical [kHz]	10		R1R2 tolerance [%]	± 10		
Input current max [mA]	50		Output resistance S1S3 or S2S4 [Ω]	80		
Transformation ratio (rT)	0.5		S1S3 or S2S4 tolerance [%]	± 10		
Transf. ratio tolerance [%]	± 10	Based on specified				
Phase shift min [°]	-10	Input voltage and				
Phase shift max [º]	0	Frequency				
Electrical Angular Error max [ˈ]	± 10					
Residual voltage max [mV]	25					
High Voltage test	Voltage: 500V _{AC} (A) Measured between:					
	250V _{AC} (B)		A: Winding R1-R2 and housing			
	Time: 1s		Winding S1-S3 and housing			
			Winding S2-S4 and housing			
Isolation test	Voltage: 500V _{DC} (A, B)					
	Criterium:	$R_{isol.} > 50M\Omega$	B: Windings S1-S3 and S2-S4			
"Zero" setting:	Electrical "0" is when Coils $V_{S2-S4} = 0$ and V_{S1-S3} are in phase with V_{R1-R2}					
Transfer function	Looking at Transformation part and turning Rotor clockwise					
	$V_{S1-S3} = +rT * V_{R1-R2} * cos(p*\alpha)$					
	$V_{S2-S4} = +rT * V_{R1-R2} * sin(p*\alpha)$					
Rotor Inertia	approx. 20g.cm ²					
Max. Rotational Speed	20,000 rpm					
Shock resistance	·					
(11ms sine)	1000 m/s ²					
Vibration	200 m/s ²					
Operating temp.	-55°C+150°C					

^{© 2019} TE Connectivity family of companies

All Rights Reserved

[|] Indicates Chang

^{*}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.



Gesamtschlag im eingebauten Zustand Concentricity in installed situation

Axialversatz
Axial displacement/offset

DATE	PN. REV.	<u>DWN</u>	<u>APP</u>	DS. REV.
22-01-20	1	H.Bernardo	D.Ondrej	1