Tuesday, May 5, 2020

DATA SHEET - HOLLOW SHAFT RESOLVER

PN	2367237-1			
Description:	V23401-		T2072-B101	
Size	21			
Shaft inner diameter [mm]	12.7			
Speed (pair of poles) [p]	3			
Number of poles	6			
Application Specification				
Test protocol	Results saved to manufacturing site archives. Available by request			
Electrical parameters (22°C)				
Input voltage [V]	3		Input resistance R1R2 [Ω]	18
Frequency Typical [kHz]	8		R1R2 tolerance [%]	± 1.8
Input current max [mA]	40	Based on specified Input voltage and Frequency	Output resistance S1S3 or S2S4 [Ω]	114
Transformation ratio (rT)	0.48		S1S3 or S2S4 tolerance [%]	± 11.4
Transf. ratio tolerance [%]	± 5			
Phase shift min [º]	-4			
Phase shift max [º]	6			
Electrical Angular Error max [']	± 10			
Residual voltage max [mV]	49			

High Voltage test	Voltage: $500V_{AC}$ (A) $250V_{AC}$ (B) Time: 1s	Measured between: A: Winding R1-R2 and housing 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	

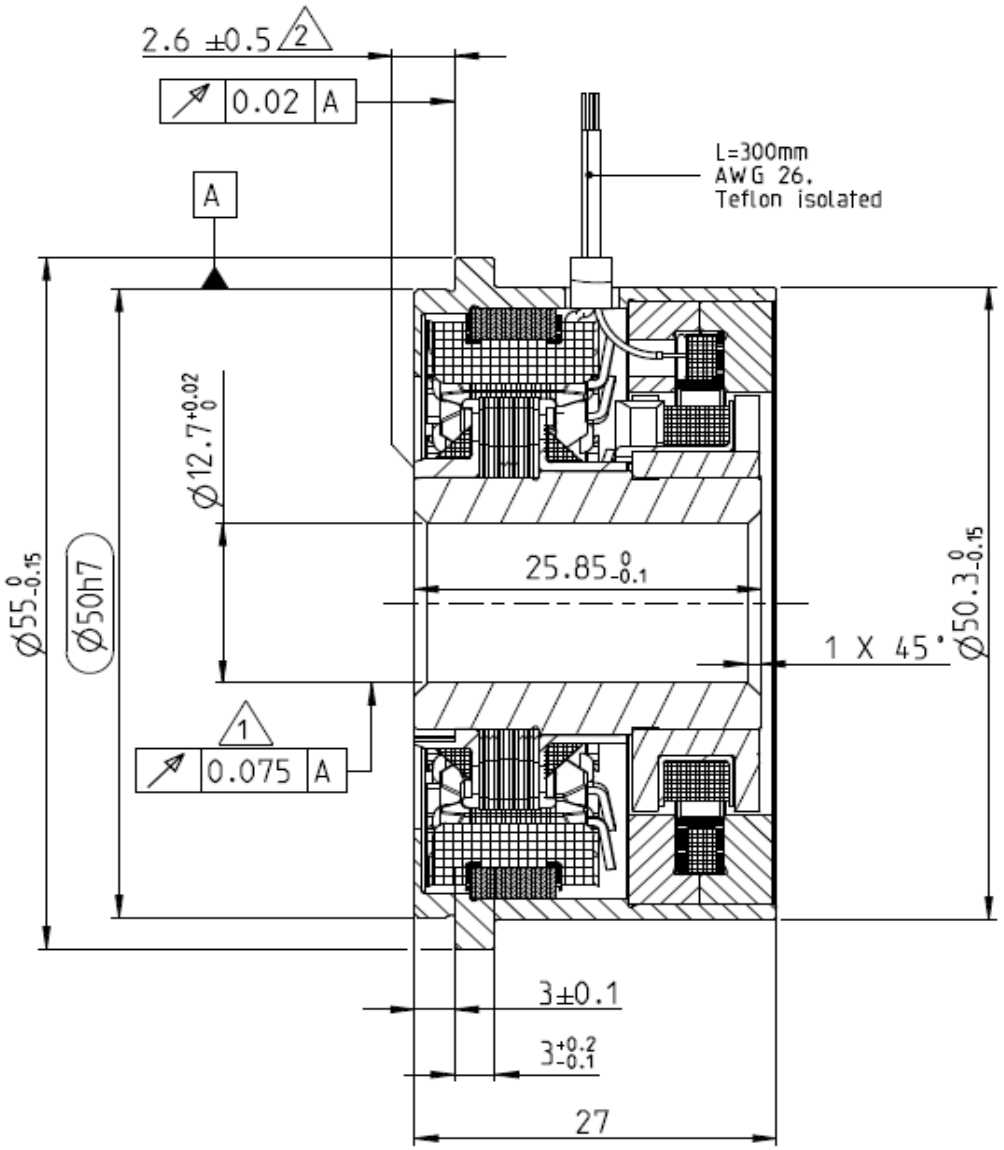
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1 Gesamtschlag im eingebauten Zustand
Concentricity in installed situation

2 Axialversatz
Axial displacement/offset

DATE	PN. REV.	DWN	APP	DS. REV.
05-05-20	1	H.Bernardo	D.Ondrej	3
05-05-20	1	H.Bernardo	D.Ondrej	2
07-02-20	1	H.Bernardo	D.Ondrej	1