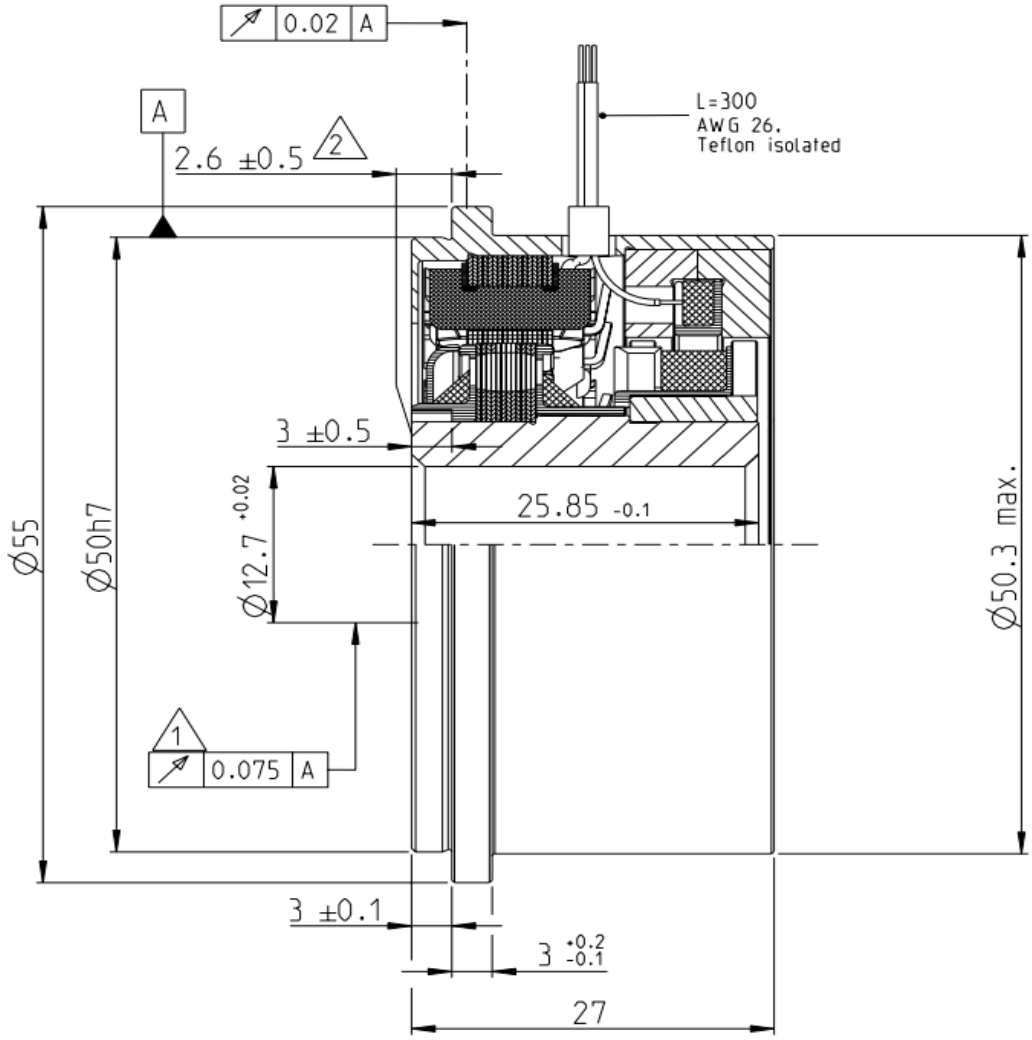
Wednesday, July 17, 2019

DATA SHEET - HOLLOW SHAFT RESOLVER

PN	2333949-1			
Description:	V23401-		T2061-B101	
Size	21			
Shaft inner diameter [mm]	12.7			
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]	4.0		Input resistance R1R2 [Ω]	40
Frequency Typical [kHz]	5.0		R1R2 tolerance [%]	± 10
Input current max [mA]	60	Based on specified Input voltage and Frequency	Output resistance S1S3 or S2S4 [Ω]	56
Transformation ratio (rT)	0.50		S1S3 or S2S4 tolerance [%]	± 10
Transf. ratio tolerance [%]	± 10			
Phase shift min [º]	-1			
Phase shift max [º]	9			
Electrical Angular Error max [']	± 10			
Residual voltage max [mV]	25			

High Voltage test	Voltage:	$500V_{AC}$ (A)	Measured between:
		$250V_{AC}$ (B)	A: Winding R1-R2 and housing Winding S1-S3 and housing Winding S2-S4 and housing
	Time:	1s	
Isolation test	Voltage:	$500V_{DC}$ (A, B)	B: Windings S1-S3 and S2-S4
	Criterium:	$R_{isol.} > 50M\Omega$	
"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		

| Indicates Change



1 Gesamtschlag im eingebauten Zustand
concentricity in installed situation

2 Axialversatz
axial displacement

DATE	PN. REV.	DWN	APP	DS. REV.
04-05-18	1	H.Bernardo	D.Ondrej	1
17-07-19	1	H.Bernardo	D.Ondrej	2

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