



Thursday, January 23, 2020

DATA SHEET - HOLLOW SHAFT RESOLVER

PN	2367236-1			
Description:	V23401-		T2074-B101	
Size	21			
Shaft inner diameter [mm]	12.7			
Speed (pair of poles) [p]	4			
Number of poles	8			
Application Specification				
Test protocol	Results saved to manufacturing site archives. Available by request			
Electrical parameters (22°C)				
Input voltage [V]	6	Based on specified Input voltage and Frequency	Input resistance R1R2 [Ω]	32
Frequency Typical [kHz]	8		R1R2 tolerance [%]	± 10
Input current max [mA]	65		Output resistance S1S3 or S2S4 [Ω]	50
Transformation ratio (rT)	0.45		S1S3 or S2S4 tolerance [%]	± 10
Transf. ratio tolerance [%]	± 10			
Phase shift min [°]	0			
Phase shift max [°]	10			
Electrical Angular Error max [°]	± 10			
Residual voltage max [mV]	19			
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)		B: Windings S1-S3 and S2-S4	
	Criterion:	R _{isol.} > 50MΩ		
"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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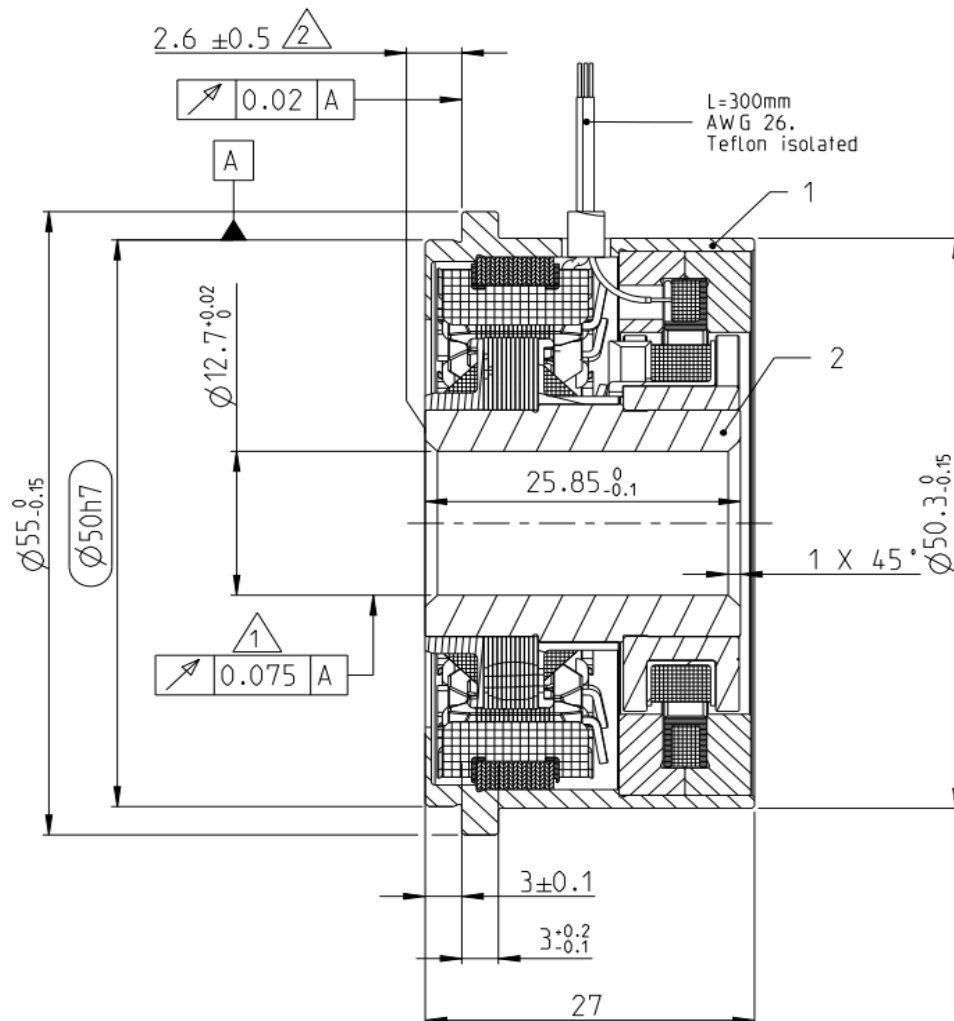
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1 Gesamtschlag im eingebauten Zustand
Concentricity in installed situation

2 Axialversatz
Axial displacement/offset

DATE	PN. REV.	DWN	APP	DS. REV.
23-01-20	1	H.Bernardo	D.Ondrej	1