

## DATA SHEET - HOLLOW SHAFT RESOLVER

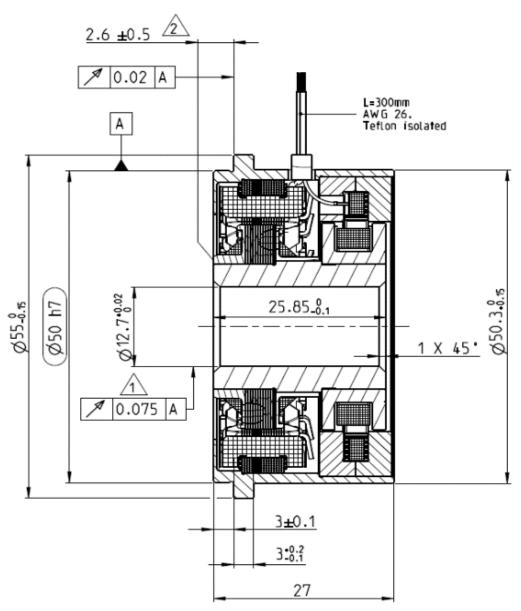
PN	2350437-1					
Description:	V23401-		T2071-B101			
Size	21		•			
Shaft inner diameter [mm]	12.7					
Speed (pair of poles) [p]	1					
Number of poles	2					
Application Specification						
Test protocol	Results	s saved to manufactu	ıring site archives. Available by reque	st		
Electrical parameters (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 Input voltage and				
Phase shift min [º]	-15					
Phase shift max [º]	5	Frequency				
Electrical Angular Error max [ˈ]	± 10					
Residual voltage max [mV]	25					
High Voltage test	Voltage: 500V <sub>AC</sub> (A)		Measured between:			
	250V <sub>AC</sub> (B)		A: Winding R1-R2 and housing			
	Time: 1s		Winding S1-S3 and housing			
			Winding S2-S4 and housing			
Isolation test	Voltage: 500V <sub>DC</sub> (A, B)		B: Windings S1-S3 and S2-S4			
	Criterium:	$R_{isol.} > 50M\Omega$	b. Willulings 31-33 and 32-34			
"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 <sup>2</sup>					
Max. Rotational Speed	20,000 rpm					
Shock resistance						
(11ms sine)	1000 m/s <sup>2</sup>					
Vibration	200 m/s <sup>2</sup>					
Operating temp.	-55°C+150°C					
Operating temp.	-00 0•100					

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<sup>|</sup> Indicates Change

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Gesamtschlag im eingebauten Zustand Concentricity in installed situation

Axialversatz
Axial displacement/offset

<u>DATE</u>	PN. REV.	<u>DWN</u>	<u>APP</u>	DS. REV.
22-01-20	1	H.Bernardo	D.Ondrej	1
25-06-20	1	H.Bernardo	D.Ondrej	2