

## DATA SHEET - HOLLOW SHAFT RESOLVER

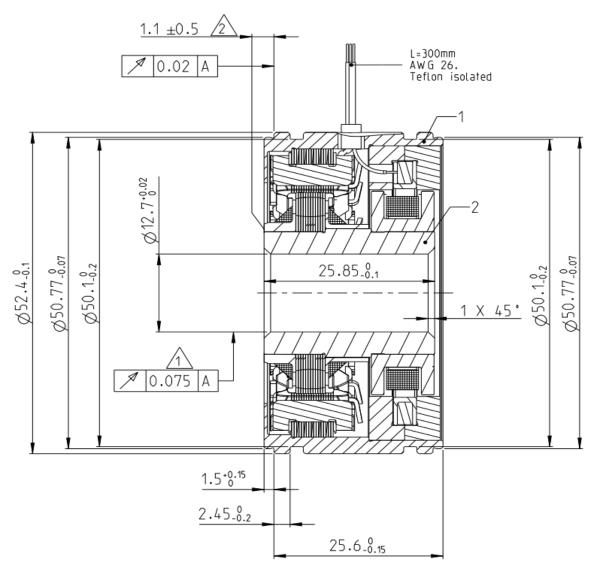
PN			2367234-1				
Description:	V23401-		T1079-B101				
Size	21						
Shaft inner diameter [mm]	12.7						
Speed (pair of poles) [p]	1						
Number of poles	2						
Application Specification							
Test protocol	Results saved to manufacturing site archives. Available by request						
Electrical parameters (22°C)							
Input voltage [V]	5		Input resistance R1R2 [Ω]	30			
Frequency Typical [kHz]	4		R1R2 tolerance [%]	± 10			
Input current max [mA]	50		Output resistance S1S3 or S2S4 $[\Omega]$	46			
Transformation ratio (rT)	0.5		S1S3 or S2S4 tolerance [%]	± 10			
Transf. ratio tolerance [%]	± 10	Based on specified					
Phase shift min [º]	1	Input voltage and					
Phase shift max [º]	11	Frequency					
Electrical Angular Error max [ˈ]	± 10						
Residual voltage max [mV]	15						
	ī						
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						
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Gesamtschlag im eingebauten Zustand Concentricity in installed situation

Axialversatz
Axial displacement/offset

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