



January 17, 2025

DATA SHEET - HOLLOW SHAFT RESOLVER

Part Number	2468470-1			
Description	V23401- H9019-B901			Sint
Size	21			
Shaft inner diameter [mm]	16H7 with thread			
Speed (pair of poles) [p]	1			
Number of poles	2			
Application Specification				
Test protocol	Results saved to manufacturing site archives. Available by request.			
Input voltage (V _{rms}) [V]	7.0	Based on specified Input voltage and Frequency	Input resistance R1–R2 [Ω]	21
Frequency (typical) [kHz]	7.0		R1–R2 tolerance [%]	± 10
Input current max [mA]	40		Output resistance S1–S3 or S2–S4 [Ω]	22
Transformation ratio (r _T)	0.45		S1–S3 or S2–S4 tolerance [%]	± 10
Transf. ratio tolerance [%]	± 3			
Phase shift (ψ) min [°]	-9			
Phase shift (ψ) max [°]	1			
Angular Error ^[1] max [°]	± 10 (20)			
Residual voltage max [mV]	25			
^[1] Angular error spread Δφ=φ _{el} - φ _{mech} · p		Electrical data measured at room temperature (22°C).		
High Voltage test	Voltage: 500V _{AC} (A) 250V _{AC} (B)		Measured between: 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	
	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} =+r _T * V _{R1–R2} * cos(p*α)			
	V _{S2–S4} =+r _T * V _{R1–R2} * sin(p*α)			
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 temperature	-55°C...+150°C			
Permissible radial runout	0.075 mm			
Permissible axial offset	± 0.50 mm			

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