

## DATA SHEET - HOLLOW SHAFT RESOLVER

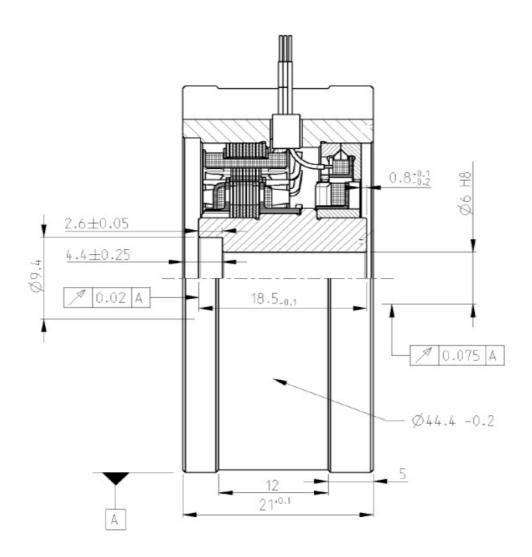
PN	1-1414621-0					
Description:	V23401-		R6008-E101			
Size	15					
Shaft inner diameter [mm]	6 H8					
Speed (pair of poles) [p]	3					
Number of poles	6					
Application Specification						
Test protocol	Results saved to manufacturing site archives. Available by request					
Electrical parameters (22°C)						
Input voltage [V]	7.0		Input resistance R1R2 [Ω]	33		
Frequency Typical [kHz]	8		R1R2 tolerance [%]	± 10		
Input current max [mA]	60		Output resistance S1S3 or S2S4 [ $\Omega$ ]	70		
Transformation ratio (rT)	0.50		S1S3 or S2S4 tolerance [%]	± 10		
Transf. ratio tolerance [%]	-10; +5	Based on specified				
Phase shift min [º]	10	Input voltage and				
Phase shift max [º]	20	Frequency				
Electrical Angular Error max [']	± 10					
Residual voltage max [mV]	20					
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)		D. W			
	Criterium:	$R_{isol.} > 50M\Omega$	B: Windings S1-S3 and S2-S4			
"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℃+150℃					
Operating temp.	JJ U+130	<u> </u>				

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<sup>|</sup> Indicates Change

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<u>DATE</u>	PN. REV.	<u>DWN</u>	<u>APP</u>	DS. REV.
25/06/2015	В	P. Lerchenfeld	D. Ondrej	1
26/04/2017	В	P. Lerchenfeld	D. Ondrej	2
18/12/2019	В	H.Bernardo	D.Ondrej	3