

DATA SHEET - HOLLOW SHAFT RESOLVER

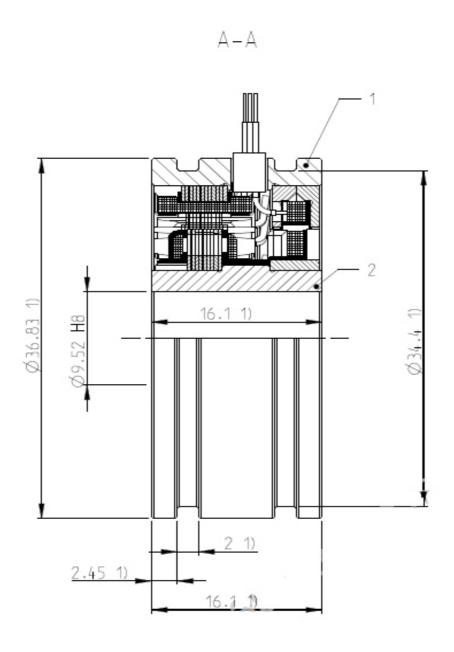
PN	1-1414631-0					
Description:	V23401-		S1001-B101			
Size	15					
Shaft	B1					
Speed (pair of poles) [p]	1					
Number of poles	2					
Application Spec						
Test protocol	Results saved to manufacturing site archives. Available by request					
Electrical parameters:						
Input voltage [V]	7.0		Input resistance R1R2 [Ω]	82		
Frequency Typical [kHz]	10.0		R1R2 tolerance [%]	± 10		
Input current max [mA]	40		Input resistance S1S3 or S2S4 [Ω]	68		
Transformation ratio (rT)	0.50		S1S3 or S2S4 tolerance [%]	± 10		
Transf. ratio tolerance [%]	± 5	Based on specified				
Phase shift min [º]	-2	Input voltage and				
Phase shift max [º]	8	Frequency				
Electrical Angular Error max [']	20					
Residual voltage max [mV]	25					
	ı					
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)				
	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 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					
akarama tambi	1 22 3					

^{© 2018} TE Connectivity family of companies

All Rights Reserved

[|] Indicates Change

^{*}Trademark. TE Connectivity, TE connectivity (logo), and TE (logo) are trademarks. Other logos, product, and/or company names may be trademarks of their respective owners.



DATE	PN. REV.	<u>DWN</u>	<u>APP</u>	DS. REV.
05/06/2018	D	H.Bernardo	D.Ondrej	Α