

DATA SHEET - HOLLOW SHAFT RESOLVER

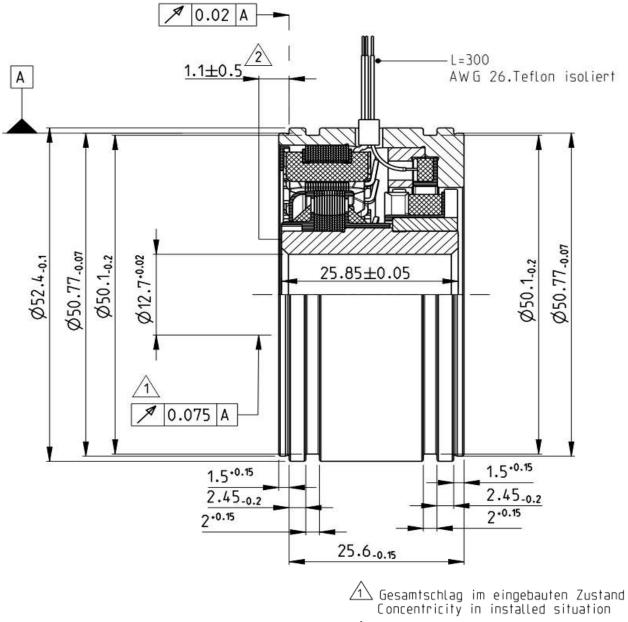
PN	2358691-1						
Description:	V23401-		T1071-B101				
Size	21		•				
Shaft inner diameter [mm]	12.7						
Speed (pair of poles) [p]	1						
Number of poles	2						
Application Specification							
Test protocol	Results	s saved to manufactu	uring site archives. Available by reque	st			
Electrical parameters (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	Based on specified Input voltage and Frequency	S1S3 or S2S4 tolerance [%]	± 10			
Transf. ratio tolerance [%]	± 10						
Phase shift min [º]	-15						
Phase shift max [º]	5						
Electrical Angular Error max [']	± 10						
Residual voltage max [mV]	25						
	1						
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)		B: Windings S1-S3 and S2-S4				
	Criterium:	R _{isol.} > 50MΩ	D. Windings 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						
	$V_{S1-S3} = +rT * V_{R1-R2} * \cos(p*\alpha)$						
	$\frac{V_{S1-S3} = +rT * V_{R1-R2} * \cos(p^*\alpha)}{V_{S2-S4} = +rT * V_{R1-R2} * \sin(p^*\alpha)}$						
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						
operating temp.	00 0 100	, 0					

© 2019 TE Connectivity family of companies

| 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.

All Rights Reserved



Axialversatz Axial displacement/offset

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