

DATA SHEET - HOLLOW SHAFT RESOLVER

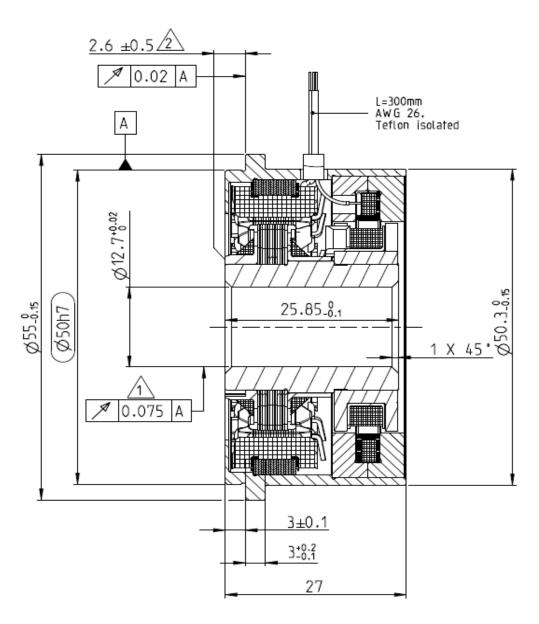
| PN | 2367237-1 | | | | | |
|----------------------------------|--|--|---|--------|--|--|
| Description: | V23401- | | T2072-B101 | | | |
| Size | 21 | | | | | |
| Shaft inner diameter [mm] | 12.7 | | | | | |
| Speed (pair of poles) [p] | 3 | | | | | |
| Number of poles | 6 | | | | | |
| Application Specification | | | | | | |
| Test protocol | Results | s saved to manufactu | ıring site archives. Available by reque | st | | |
| Electrical parameters (22°C) | | | | | | |
| Input voltage [V] | 3 | | Input resistance R1R2 [Ω] | 18 | | |
| Frequency Typical [kHz] | 8 | | R1R2 tolerance [%] | ± 1.8 | | |
| Input current max [mA] | 40 | | Output resistance S1S3 or S2S4 [Ω] | 114 | | |
| Transformation ratio (rT) | 0.48 | Based on specified Input voltage and Frequency | S1S3 or S2S4 tolerance [%] | ± 11.4 | | |
| Transf. ratio tolerance [%] | ± 5 | | | | | |
| Phase shift min [º] | -4 | | | | | |
| Phase shift max [º] | 6 | | | | | |
| Electrical Angular Error max ['] | ± 10 | | | | | |
| Residual voltage max [mV] | 49 | | | | | |
| | l | | In a second | | | |
| 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: | $R_{isol.} > 50M\Omega$ | B. Williamge of obtaine of of | | | |
| "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 | | | | |
| operating temp. | 1 30 0 100 | . • | | | | |

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[|] Indicates Change

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Gesamtschlag im eingebauten Zustand Concentricity in installed situation

Axialversatz
Axial displacement/offset

| <u>DATE</u> | PN. REV. | <u>DWN</u> | <u>APP</u> | DS. REV. |
|-------------|----------|------------|------------|-------------|
| | | | | |
| 05-05-20 | 1 | H.Bernardo | D.Ondrej | 3 |
| 05-05-20 | 1 | H.Bernardo | D.Ondrej | 2 |
| 07-02-20 | 1 | H.Bernardo | D.Ondrej | 1 |