


| Model Number 3125-01A | | ROTARY TORQUE TRANSFORMER, SHAFT-SHAFT | | Revision: NR ECN #: | | | | | | | | | | | |
|---|----------------------|---|---|---|--|---------------------|----------------------|-------------------|---------------------|--------------|----------------------|----------------------|----------------------|----------------------|--------------|
| Performance | | ENGLISH | SI | OPTIONAL VERSIONS Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used. | | | | | | | | | | | |
| Measurement Range(Full Scale Capacity) | | 5000 in-lb | 565 N-m | | | | | | | | | | | | |
| Sensitivity(output at rated capacity) | | 2.0 mV/V | 2.0 mV/V [4] | NOTES: [1] Recommended 10 VAC RMS. [2] FS - Full Scale. [3] Over compensated operating temperature range. [4] Nominal. [5] See drawing 45891 for complete dimensions. | | | | | | | | | | | |
| Non-Linearity | | ≤ 0.1 % FS | ≤ 0.1 % [2] | | | | | | | | | | | | |
| Hysteresis | | ≤ 0.1 % FS | FS ≤ 0.1 % [2] | | | | | | | | | | | | |
| Non-Repeatability | | ≤ 0.05 % FS | FS ≤ 0.05 % [2] | | | | | | | | | | | | |
| Environmental | | | | | | | | | | | | | | | |
| Overload Limit | | 10,000 in-lb | 1130 N-m | | | | | | | | | | | | |
| Temperature Range(Operating) | | 0 to 200 °F | -18 to 93 °C | | | | | | | | | | | | |
| Temperature Range(Compensated) | | 70 to 150 °F | 21 to 66 °C | | | | | | | | | | | | |
| Temperature Effect on Output(Maximum) | | ± 0.002 % Reading/°F | ± 0.0018 % Reading/°C [3] | | | | | | | | | | | | |
| Temperature Effect on Zero Balance(Maximum) | | ± 0.002 % FS/°F | ± 0.0018 %FS/°C [3] | | | | | | | | | | | | |
| Electrical | | | | <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Entered: <u>BLS</u></td> <td>Engineer: <u>PTE</u></td> <td>Sales: <u>JCC</u></td> <td>Approved: <u>MB</u></td> <td>Spec Number:</td> </tr> <tr> <td>Date: <u>3/29/10</u></td> <td>Date: <u>3/29/10</u></td> <td>Date: <u>3/29/10</u></td> <td>Date: <u>3/29/10</u></td> <td style="text-align: center;">45889</td> </tr> </table> | | Entered: <u>BLS</u> | Engineer: <u>PTE</u> | Sales: <u>JCC</u> | Approved: <u>MB</u> | Spec Number: | Date: <u>3/29/10</u> | Date: <u>3/29/10</u> | Date: <u>3/29/10</u> | Date: <u>3/29/10</u> | 45889 |
| Entered: <u>BLS</u> | Engineer: <u>PTE</u> | Sales: <u>JCC</u> | Approved: <u>MB</u> | | | Spec Number: | | | | | | | | | |
| Date: <u>3/29/10</u> | Date: <u>3/29/10</u> | Date: <u>3/29/10</u> | Date: <u>3/29/10</u> | | | 45889 | | | | | | | | | |
| Bridge Resistance | | 350 ohm | 350 ohm | | | | | | | | | | | | |
| Excitation Voltage | | 20 VDC or VAC rms | 20 VDC or VAC rms [1] | | | | | | | | | | | | |
| Bridge Current(at 5 VAC) | | 50 mA | 50 mA | | | | | | | | | | | | |
| Insulation Resistance | | >5 Gohm | >5 Gohm | | | | | | | | | | | | |
| Zero Balance | | ≤ 2 % FS | ≤ 2 % FS [2] | <div style="text-align: center;">  <p>PCB LOAD & TORQUE A PCB GROUP COMPANY</p> </div> <p>PCB Load & Torque, Inc. 24350 Indoplex Circle Farmington Hills, MI 48335 UNITED STATES Phone: 866-684-7107 Fax: 716-684-0987 E-Mail: ltinfo@pcbloadtorque.com Web site: http://www.pcbloadtorque.com</p> | | | | | | | | | | | |
| Physical | | | | | | | | | | | | | | | |
| Size (Shaft Length x Housing Length x Housing Diameter x Shaft Diameter x Shaft Keyway) | | 11.00 in x 5.25 in x 4.50 in x 1.50 in x 3/8 in | 279.4 mm x 133.4 mm x 114.3 mm x 38.1 mm x 9.5 mm [5] | | | | | | | | | | | | |
| Weight | | 9.5 lb | 4.4 kg | | | | | | | | | | | | |
| Mounting | | Keyed Shaft | Keyed Shaft | | | | | | | | | | | | |
| Sensing Element | | Strain Gage | Strain Gage | | | | | | | | | | | | |
| Housing Material | | Aluminum | Aluminum | | | | | | | | | | | | |
| Shaft Material | | Alloy Steel | Alloy Steel | | | | | | | | | | | | |
| Electrical Connector | | PT02H-10-6P | PT02H-10-6P | | | | | | | | | | | | |
| Electrical Connection Position | | Top | Top | | | | | | | | | | | | |
| Maximum Speed | | 7900 RPM | 7900 RPM | | | | | | | | | | | | |
| <p><i>All specifications are at room temperature unless otherwise specified. In the interest of constant product improvement, we reserve the right to change specifications without notice.</i></p> <p>ICP® is a registered trademark of PCB Group, Inc.</p> | | | | | | | | | | | | | | | |



Represented in India by
Structural Solutions Pvt Ltd. | Phone: 040 2322 2380 | Email: sales@stsols.com

#4th Floor, Sudheer Tapani Towers, Himayath Nagar, Hyderabad - 500 029