


| Model Number 3123-02A | ROTARY TORQUE TRANSFORMER, SHAFT-SHAFT | | | Revision NR ECN #: |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Performance Measurement Range (Full Scale Capacity) Sensitivity (output at rated capacity) Non-Linearity Hysteresis Non-Repeatability | ENGLISH 200 in-lb 2.0 mV/V ≤0.1 % FS ≤0.1 % FS ≤0.05 % FS | SI 22.6 Nm 2.0 mV/V ≤0.1 % FS ≤0.1 % FS ≤0.05 % FS | | Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.) |
| Environmental Overload Limit Temperature Range (Operating) Temperature Range (Compensated) Temperature Effect on Output (Maximum) | 400 in-lb 0 to 200 °F 70 to 150 °F ±0.002 %Reading/°F | 45.2 Nm -18 to 93 °C 21 to 66 °C ±0.0018 %Reading/°C ±0.0018 %FS/°C | [4] [2] [2] [2] [3] [3] | Notes [1] Recommended 10 VAC RMS. [2] FS - Full Scale. [3] Over compensated operating temperature range. [4] Nominal. [5] See drawing 44773 for complete dimensions. |
| Electrical Bridge Resistance Excitation Voltage Insulation Resistance Zero Balance Bridge Current (at 5 VAC) | 350 Ohm 20 VDC or VAC >5 GOhm ≤2 % FS 50 mA | 350 Ohm 20 VDC or VAC rms >5 GOhm ≤2 % FS 50 mA | [1] [2] | |
| Physical Size (Shaft Length x Housing Length x Housing Height x Shaft Diameter x Shaft Keyway) Weight Mounting Sensing Element Housing Material Shaft Material Electrical Connector Electrical Connection Position Rotating Inertia Maximum Speed | 9.00 in x 4.58 in x 4.00 in x 0.75 in x 3/16 in 4.5 lb Keyed Shaft Strain Gage Aluminum Alloy Steel PT02H-10-6P Top 0.48 in-lb/sec2 7900 RPM | 228.6 mm x 116.3 mm x 101.6 mm x 19 mm x 4.7 mm 2.04 Kg Keyed Shaft Strain Gage Aluminum Alloy Steel PT02H-10-6P Top 0.48 in-lb/sec2 7900 RPM | [5] | |
| <p><i>All specifications are at room temperature unless otherwise specified.</i></p> <p>In the interest of constant product improvement, we reserve the right to change specifications without notice.</p> <p>ICP® is a registered trademark of PCB group, Inc.</p> | | | | |
| Entered: BLS | Engineer: PE | Sales: JC | Approved: BLS | Spec Number: |
| Date: 03/27/2010 | Date: 03/27/2010 | Date: 03/27/2010 | Date: 03/27/2010 | 45885 |
|  | | | | <p>Company: PCB Load & Torque, Inc. Address: 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> |