Model Number **3123-01A**	**ROTARY TORQUE TRANSFORMER, SHAFT-SHAFT**	Revision NR ECN #:

	ENGLISH	SI	
Performance			
Measurement Range (Full Scale Capacity)	100 in-lb	11.3 Nm	
Sensitivity (output at rated capacity)	2.0 mV/V	2.0 mV/V	[4]
Non-Linearity	≤0.1 % FS	≤0.1 % FS	[2]
Hysteresis	≤0.1 % FS	≤0.1 % FS	[2]
Non-Repeatability	≤0.05 % FS	≤0.05 % FS	[2]
Environmental			
Overload Limit	200 in-lb	22.6 Nm	
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			
Bridge Resistance	350 Ohm	350 Ohm	
Excitation Voltage	20 VDC or VAC rms	20 VDC or VAC rms	[1]
Insulation Resistance	>5 GOhm	>5 GOhm	
Zero Balance	≤2 % FS	≤2 % FS	[2]
Bridge Current (at 5 VAC)	50 mA	50 mA	
Physical			
Size (Shaft Length x Housing Length x Housing Height x Shaft Diameter x Shaft Keyway)	9.00 in x 4.58 in x 4.00 in x 0.75 in x 3/16 in	228.6 mm x 116.3 mm x 101.6 mm x 19 mm x 4.7 mm	[5]
Weight	4.5 lb	2.04 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	
Rotating Inertia	0.48 in-lb/sec2	0.48 in-lb/sec2	
Maximum Speed	7900 RPM	7900 RPM	

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

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.

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	**45884**

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.
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Model Number **3123-02A**	**ROTARY TORQUE TRANSFORMER, SHAFT-SHAFT**	Revision NR ECN #:

	ENGLISH	SI	
Performance			
Measurement Range (Full Scale Capacity)	200 in-lb	22.6 Nm	
Sensitivity (output at rated capacity)	2.0 mV/V	2.0 mV/V	[4]
Non-Linearity	≤0.1 % FS	≤0.1 % FS	[2]
Hysteresis	≤0.1 % FS	≤0.1 % FS	[2]
Non-Repeatability	≤0.05 % FS	≤0.05 % FS	[2]
Environmental			
Overload Limit	400 in-lb	45.2 Nm	
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			
Bridge Resistance	350 Ohm	350 Ohm	
Excitation Voltage	20 VDC or VAC rms	20 VDC or VAC rms	[1]
Insulation Resistance	>5 GOhm	>5 GOhm	
Zero Balance	≤2 % FS	≤2 % FS	[2]
Bridge Current (at 5 VAC)	50 mA	50 mA	
Physical			
Size (Shaft Length x Housing Length x Housing Height x Shaft Diameter x Shaft Keyway)	9.00 in x 4.58 in x 4.00 in x 0.75 in x 3/16 in	228.6 mm x 116.3 mm x 101.6 mm x 19 mm x 4.7 mm	[5]
Weight	4.5 lb	2.04 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	
Rotating Inertia	0.48 in-lb/sec2	0.48 in-lb/sec2	
Maximum Speed	7900 RPM	7900 RPM	

Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

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.

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**

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