

Model Number 3124-01A	ROTARY TORQUE TRANSFORMER, SHAFT-SHAFT				Revision NR ECN #:
Performance	ENGLISH	SI	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)		
Measurement Range (Full Scale Capacity)	500 in-lb	56.5 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			Notes		
Overload Limit	1000 in-lb	113 Nm	[1] Recommended 10 VAC RMS.		
Temperature Range (Operating)	0 to 200 °F	-18 to 93 °C	[2] FS - Full Scale.		
Temperature Range (Compensated)	70 to 150 °F	21 to 66 °C	[3] Over compensated operating temperature range.		
Temperature Effect on Output (Maximum)	±0.002 %Reading/°F	±0.0018 %Reading/°C	[4] Nominal.		
Temperature Effect on Zero Balance (Maximum)	±0.002 %FS/°F	±0.0018 %FS/°C	[5] See drawing 44773 for complete dimensions.		
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 1.00 in x 1/4 in	228.6 mm x 116.3 mm x 101.6 mm x 25.4 mm x 6.3 mm	[5]		
Weight	5.3 lb	2.4 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			
Rotating Inertia	0.48 in-lb/sec2	0.48 in-lb/sec2			
Maximum Speed	7900 RPM	7900 RPM			
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. ICP® is a registered trademark of PCB group, Inc.					
Entered: BLS Engineer: PE Sales: JC Approved: BLS Spec Number: Date: Date: Date: Date: 45886 03/29/2010 03/29/2010 03/29/2010 03/29/2010					
PCB LOAD & TORQUE A PCB GROUP COMPANY 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					

Model Number 3124-02A	ROTARY TORQUE TRANSFORMER, SHAFT-SHAFT				Revision NR ECN #:
Performance	ENGLISH	SI	Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)		
Measurement Range (Full Scale Capacity)	1000 in-lb	113 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			Notes		
Overload Limit	2000 in-lb	226 Nm	[1] Recommended 10 VAC RMS.		
Temperature Range (Operating)	0 to 200 °F	-18 to 93 °C	[2] FS - Full Scale.		
Temperature Range (Compensated)	70 to 150 °F	21 to 66 °C	[3] Over compensated operating temperature range.		
Temperature Effect on Output (Maximum)	±0.002 %Reading/°F	±0.0018 %Reading/°C	[4] Nominal.		
Temperature Effect on Zero Balance (Maximum)	±0.002 %FS/°F	±0.0018 %FS/°C	[5] See drawing 44773 for complete dimensions.		
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 1.00 in x 1/4 in	228.6 mm x 116.3 mm x 101.6 mm x 25.4 mm x 6.3 mm	[5]		
Weight	5.3 lb	2.4 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			
Rotating Inertia	0.48 in-lb/sec2	0.48 in-lb/sec2			
Maximum Speed	7900 RPM	7900 RPM			
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. ICP® is a registered trademark of PCB group, Inc.					
Entered: BLS Engineer: PE Sales: JC Approved: BLS Spec Number: Date: 03/29/2010 Date: 03/29/2010 Date: 03/29/2010 Date: 03/29/2010 45887 PCB LOAD & TORQUE A PCB GROUP COMPANY 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					

Model Number 3124-03A	ROTARY TORQUE TRANSFORMER, SHAFT-SHAFT				Revision NR ECN #:
Performance	ENGLISH	SI		Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)	
Measurement Range (Full Scale Capacity)	2000 in-lb	226 Nm			
Sensitivity (output at rated capacity)	2.0 mV/V	2.0 mV/V	[4]		
Non-Linearity	≤0.1 % FS	≤0.1 % FS	[2]	Notes	
Hysteresis	≤0.1 % FS	≤0.1 % FS	[2]	[1] Recommended 10 VAC RMS.	
Non-Repeatability	≤0.05 % FS	≤0.05 % FS	[2]	[2] FS - Full Scale.	
Environmental				[3] Over compensated operating temperature range.	
Overload Limit	4000 in-lb	452 Nm		[4] Nominal.	
Temperature Range (Operating)	0 to 200 °F	-18 to 93 °C		[5] See drawing 44773 for complete dimensions.	
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 1.00 in x 1/4 in	228.6 mm x 116.3 mm x 101.6 mm x 25.4 mm x 6.3 mm	[5]		
Weight	5.3 lb	2.4 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			
Rotating Inertia	0.48 in-lb/sec2	0.48 in-lb/sec2			
Maximum Speed	7900 RPM	7900 RPM			
All specifications are at room temperature unless otherwise specified.					
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Entered: BLS		Engineer: PE		Sales: JC	Approved: BLS
Date: 03/29/2010		Date: 03/29/2010		Date: 03/29/2010	Spec Number: 45888
		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			

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