Model Number	ROTARY TRANSFORMER TOROUF SENSOR								ision: D
4115K-07A								ECN #: 38181	
Performance		<u>ENGLISH</u>	<u>SI</u>		OPTIONAL VERSIONS				
Measurement Range(Full Scale Capacity)		1200 in-lb	135 N-m	[1]	Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.				
Sensitivity(± 15 %)(output at rated capacity)		2.5 mV/V	2.5 mV/V	[1][3]					
Non-Linearity		≤ 0.05 % FS	≤ 0.05 % FS	[3]					
Hysteresis		≤ 0.05 % FS	≤ 0.05 % FS	[3]					
Non-Repeatability		≤ 0.03 % FS	≤ 0.03 % FS	[3]					
Environmental									
Overload Limit		3600 in-lb	405 N-m						
Temperature Range(Operating)		-65 to 285 F	-54 to 141 °C						
Temperature Range(Compensated)		+70 to +170 ℃	+21 to 77 °C	[4]					
Temperature Effect on Output(Maximum)		± 0.002 %Reading/° F	± 0.0036 %Reading/°C	[4]	NOTES: [1] Nominal. [2] Recommended 10 VAC RMS. [3] FS - Full Scale.				
Temperature Effect on Zero Balance(Maximum) Electrical		± 0.002 %FS/F	± 0.0036 %FS/℃	[4][3]					
Excitation Frequency		3.28 kHz	3.28 kHz		[4] Over compensated operating temperature range.				
Bridge Resistance		350 ohm	350 ohm	[1]		[5] Mounting per AND10262 and AND20002. [6] See PCB Declaration of Conformance PS062 for details.			
Excitation Voltage		2 to 10 VAC rms	2 to 10 VAC rms	[2]					
Bridge Current(at 5 VAC)		50 mA	50 mA						
Insulation Resistance		>5000 Mohm	>5000 Mohm						
Zero Balance		≤ 2 % FS	≤ 2 % FS	[3]					
Physical									
Size (Shaft Length x Housing Length x Housing Diameter)		9.56 in x 8.25 in x 6.00 in	242.82 mm x 209.55 mm x 152.40 mm						
Weight		47 lb	21.3 kg						
Mounting		Flange w/ Splined Shaft	Flange w/ Splined Shaft	[5]	SUPPLIED ACCESSORIES: Model 180-019A 5-socket mating connector for Series 3100, 4100, 4200 torgue sensors				
Sensing Element		Strain Gage	Strain Gage			Model 8113-105A Relay activated precision shunt calibration module			
Housing Material		Black Oxided Steel	Black Oxided Steel						
Shaft Material		Steel	Steel			-			
Electrical Connector		MS3102A-14S-5P	MS3102A-14S-5P		Entered: DMW	Engineer: JSD	Sales: RR	Approved: JC	Spec Number:
Torsional Stiffness		204 kin-lb/radian	23 kN-m/radian			5			· · · · · · · · · · · · · · · · · · ·
Rotating Inertia Maximum Speed		0.0052 in-lb/sec2 15,000 RPM	0.0006 N-m/sec2 15,000 RPM		Date: 1/12/2012	Date: 1/12/2012	Date: 1/12/2012	Date: 1/12/2012	18487
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.					PCB LOAD & TOROUE A PCB GROUP COMPANY PCB GROUP COMPANY PCB GROUP COMPANY PCB GROUP COMPANY PCB GROUP COMPANY PCB COMPANY PCB COMPANY PCB LOAD & TOROUE Farmington Hills, MI 48335 UNITED STATES Phone: 866-684-7107 Fax: 716-684-0987 E-Mail: Itinfo@pcbloadtorque.com Web site: http://www.pcbloadtorque.com				