Model Number 4115A-03A	ROTARY TRANSFORMER TORQUE SENSOR								vision: E N #: 43820	
Performance Measurement Range(Full Scale Capacity) Sensitivity(± 15 %)(output at rated capacity) Non-Linearity Hysteresis Non-Repeatability Environmental		ENGLISH 200 in-lb 2.5 mV/V ≤ 0.05 % FS ≤ 0.05 % FS ≤ 0.03 % FS	<u>SI</u> 23 Nm 2.5 mV/V ≤ 0.05 % FS ≤ 0.05 % FS ≤ 0.03 % FS	[1] [1][3] [3] [3] [3]	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.					
Coverload Limit Temperature Range(Operating) Temperature Effect on Output(Maximum) Temperature Effect on Zero Balance(Maximum) Electrical Bridge Resistance Excitation Frequency Excitation Voltage Insulation Resistance Zero Balance Bridge Current(at 5 VAC) Physical Size (Shaft Length x Housing Length x Housing Height Weight		600 in-lb -65 to 285 °F +70 to +170 °F ± 0.002 %Reading/°F ± 0.002 %FS/°F 350 Ohm 3.28 kHz 2 to 10 VAC rms >5,000,000 kohm ≤ 2 % FS 50 mA 9.10 in x 8.25 in x 6.00 in 46 lb	68 Nm -54 to 141 °C +21 to 77 °C ± 0.0036 %Reading/°C ± 0.0036 %FS/°C 350 Ohm 3.28 kHz 2 to 10 VAC rms >5,000,000 kohm ≤ 2 % FS 50 mA 231.14 mm x 209.55 mm x 152.40 mm 20.9 kg	[4] [4][3] [1] [2] [3]	NOTES: [1]Nominal. [2]Recommended 10 VAC RMS. [3]FS - Full Scale. [4]Over compensated operating temperature range. [5]Mounting per AND10262 and AND20002. [6]See PCB Declaration of Conformance PS062 for details. SUPPLIED ACCESSORIES: Model 180-019A 5-socket mating connector for Series 3100, 4100, 4200 torque sensors Model 8113-105A Relay activated precision shunt calibration module					
Mounting		Flange w/ Splined	Flange w/ Splined Shaft	[5]	Entered: AP	Engineer: PE	Sales: KWW	Approved: JSD	Spec Number:	
Sensing Element Housing Material Shaft Material		Shaft Strain Gage Black Oxided Steel Steel	Strain Gage Black Oxided Steel Steel		Date: 2/12/2015	Date: 2/12/2015	Date: 2/12/2015	Date: 2/12/2015	19260	
Electrical Connector MS3102A-14S-5P MS3102A-14S-5P Torsional Stiffness 33,000 in-lb/radian 3700 N-m/radian Rotating Inertia 0.0049 in-lb sec2 0.0005 N-m sec2 Maximum Speed 15,000 RPM 15,000 RPM					PCB Load & Torque, Inc. 24350 Indoplex Circle 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					