



Model Number <b>5308D-03A</b>	<b>TORKDISC® ROTARY TORQUE SENSING SYSTEM</b>			Revision: B ECN #: 44198									
<b>Performance</b> Measurement Range(Full Scale Capacity) Accuracy Frequency Range(-3 dB) Filter Type(High Pass) Filter Type(Low Pass - Anti Alias) Voltage Output(channel A - AC coupled) Voltage Output(channel B - DC coupled) Gain(Channel A) Gain(Channel B) Digital Output Maximum Load(Axial) Maximum Load(Lateral) Maximum Moment <b>Environmental</b> Overload Limit(Bolt Joint Slip) Overload Limit(Failure) Overload Limit(Safe) Temperature Range(Rotor/Stator - Operating) Temperature Range(Rotor - Compensated) Temperature Range(Receiver - Operating) Temperature Effect on Output(System - within compensated range) Temperature Effect on Zero Balance(System - within compensated range) Position Sensitivity(180° rotation of sensor)	<b>ENGLISH</b> 30,000 in-lb ± 0.10 % FS 0 to 8500 Hz 2-pole Butterworth 8-pole Elliptical ± 10 V ± 10 V 1-16 dB 0.3-1.3 dB QSPI 4000 lb 5000 lb 10,000 in-lb 35,000 in-lb 100,000 in-lb 75,000 in-lb +32 to +185 °F +70 to +170 °F 0 to +122 °F 0.002 %FS/°F 0.002 %FS/°F ≤ 0.1 % FS 9 to 18 VDC 16 Bit 26,484 samples/sec 0.31 mV <b>Physical</b> Maximum Speed Permissible Axial Float(rotor to stator) Permissible Radial Float(rotor to stator) Rotating Inertia(without adaptors) Dynamic Balance Torsional Stiffness Torsional Angle(at Full Scale Capacity) Housing Material(Sensor) Weight(rotor/sensor)	<b>SI</b> 3390 Nm ± 0.10 % FS 0 to 8500 Hz 2-pole Butterworth 8-pole Elliptical ± 10 V ± 10 V 1-16 dB 0.3-1.3 dB QSPI 17.8 kN 22.2 kN 1130 Nm 3955 Nm 11,298 Nm 8474 Nm 0 to +85 °C +21 to +77 °C -17.7 to 50 °C 0.0036 %FS/°C 0.0036 %FS/°C ≤ 0.1 % FS 9 to 18 VDC 16 Bit 26,484 samples/sec 0.31 mV 10,000 RPM 6.4 mm 6.4 mm 0.027 N-m/sec2 per ISO G 2.5 11,298 N-m/radian 0.017 ° 0.017 ° Steel Alloy Steel Alloy 4.5 kg	<b>OPTIONAL VERSIONS</b> Optional versions have identical specifications and accessories as listed for the standard model except where noted below. More than one option may be used.  <b>NOTES:</b> [1]Supplied with universal AC power adaptor. [2]Bolt joint slip torque is calculated assuming a coefficient of friction (μ) of 0.1 and that grade 8 socket head cap screws are used and tightened to 75% of yield. [3]Root sum square of non-linearity, hysteresis, and non repeatability. [4>Selectable High Pass cutoff frequencies of 5, 10, 20, 200 and 500 Hz. [5>Selectable Low Pass cutoff frequencies of 10,000, 5000, 2500, 1200, 625 and 313 Hz. [6]Request Technical Note FTQ-STN5 regarding digital output signal. [7]Extraneous load limits reflect the maximum axial load, lateral load, and bending moment that may be applied singularly without electrical or mechanical damage to the sensor. [8]Where combined extraneous loads are applied, decrease loads proportionally. [9]See PCB Declaration of Conformance PS069 for details.										
<b>Electrical</b> Power Required(50 to 60 Hz) Digital Resolution Digital Sample Rate Analog Resolution(based on ±10 V FSO and 16-bit resolution)		[1]	<b>SUPPLIED ACCESSORIES:</b> Model 012AC024AT Cable (1) Model 182-028A Connector (1) Model M0003978 Power supply (1)										
			<table border="1" style="width: 100%;"> <tr> <td>Entered: AP</td> <td>Engineer: JM</td> <td>Sales: KWW</td> <td>Approved: JSD</td> <td>Spec Number:</td> </tr> <tr> <td>Date: 5/13/2015</td> <td>Date: 5/13/2015</td> <td>Date: 5/13/2015</td> <td>Date: 5/13/2015</td> <td style="text-align: center;"><b>40579</b></td> </tr> </table>	Entered: AP	Engineer: JM	Sales: KWW	Approved: JSD	Spec Number:	Date: 5/13/2015	Date: 5/13/2015	Date: 5/13/2015	Date: 5/13/2015	<b>40579</b>
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 <p data-bbox="157 1266 787 1317"> <i>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.</i> </p>		<div style="text-align: center;">  <p><b>PCB Load &amp; Torque</b>  <b>24350 Indoplex Circle</b>  <b>Farmington Hills, MI 48335</b>  <b>UNITED STATES</b>  <b>Phone: 866-684-7107</b>  <b>Fax: 716-684-0987</b>  <b>E-Mail: <a href="mailto:ltinfo@pcbloadtorque.com">ltinfo@pcbloadtorque.com</a></b>  <b>Web site:</b>  <b><a href="http://www.pcbloadtorque.com">http://www.pcbloadtorque.com</a></b></p> </div>											