Model Number 2304-01 A		F	REACTION TORG	UE S	ENSOR
Performance		ENGLISH	SI		Optional Ve
Measurement Ra	nge (Full Scale Capacity)	100000 lbf-in	11298 Nm	[1]	for standard
	%) (output at rated	2 mV/V	2 mV/V	[1][5]	
capacity)					Notes
Non-Linearity		≤0.1 % FS	≤0.1 % FS	[5]	[1] No
Hysteresis		≤0.1 % FS	≤0.1 % FS	[5]	[2] Ca
Non-Repeatability		≤0.02 % FS	≤0.02 % FS	[5]	[3] Sin
Resonant Freque	ency	690 Hz	690 Hz		[4] Ov
Maximum Torque)	150000 lbf-in	16948 Nm		[5] FS
Environmental					[6] Se
Overload Limit (100000 lbf	444.8 kN	[3]	
	Overhung Moment)	50000 lbf-in	5650 Nm	[3]	
Overload Limit (15000 lbf	66.72 kN	[3]	Supplied A
Temperature Rar		-65 to +200 °F	-54 to +93 °C		181-012A F
	nge (Compensated)	+70 to +170 °F	+21 to +77 °C		
Temperature Effe	ect on Output (Maximum)	±0.002	±0.0036 %Reading/°C	[4]	
		%Reading/°F			
•	ect on Zero Balance	±0.002 %FS/°F	±0.0036 %FS/°C	[5][4]	
(Maximum)					
Electrical					
Bridge Resistanc		350 Ohm	350 Ohm	[1]	
	e (Recommended)	10 VDC	10 VDC	[2]	
Insulation Resista	ance	5 GOhm	5 GOhm		
Zero Balance		≤1.0 %RO	≤1.0 %RO		
Physical					
Size (Diameter x	Length)	9.75 in x 8.50 in	247.65 mm x 215.90	[6]	
147 1 17		00 "	mm		
Weight		80 lb	36.29 Kg		
Mounting		Flange (3/4in	Flange (M20 Bolts)		
T : 10:"		Bolts)	0447111 / "		
Torsional Stiffnes	SS	21400 klbf- in/radian	2417 kN-m/radian		
Sensing Element		Strain Gage	Strain Gage		
Housing Material		Plated Steel	Plated Steel		
Electrical Connec		PT02E-10-6P	PT02E-10-6P		

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

Revision D

ECN #: 38221

Notes

- [1] Nominal.
- [2] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
- [3] Singularly applied, i.e. no other extraneous loads.
- [4] Over compensated operating temperature range.
- [5] FS Full Scale.
- [6] See Drawing 26442 for Complete Dimensions

Supplied Accessories

181-012A PT06A-10-6S(SR) (1)

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All specifications are at room temperature unless otherwise specified.

In the interest of constant product improvement, we reserve the right to change specifications without

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Entered: DMW	Engineer: PE	Sales: RR	Approved: JC	Spec Number:
Date: 01/24/2012	Date: 01/24/2012	Date: 01/24/2012	Date: 01/24/2012	18732
01/21/2012	01/21/2012	0172172012	01/21/2012	



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Model Number 2304-02A		F	REACTION TORG	UE S	ENSOR
Performance		ENGLISH	SI		Optional Ve
	nge (Full Scale Capacity)	200000 lbf-in	22596 Nm	[1]	for standard
	%) (output at rated	2 mV/V	2 mV/V	[1][5]	
capacity)					Notes
Non-Linearity		≤0.1 % FS	≤0.1 % FS	[5]	[1] No
Hysteresis		≤0.1 % FS	≤0.1 % FS	[5]	[2] Ca
Non-Repeatability		≤0.02 % FS	≤0.02 % FS	[5]	[3] Sin
Resonant Freque	ency	1.1 kHz	1100 Hz		[4] Ov
Maximum Torque	•	300000 lbf-in	33895 Nm		[5] FS
Environmental					[6] Se
Overload Limit (200000 lbf	889.6 kN	[3]	
	Overhung Moment)	100000 lbf-in	11298 Nm	[3]	
Overload Limit (30000 lbf	133.44 kN	[3]	Supplied A
Temperature Ran		-65 to +200 °F	-54 to +93 °C		181-012A F
	nge (Compensated)	+70 to +170 °F	+21 to +77 °C		
Temperature Effe	ect on Output (Maximum)	±0.002	±0.0036 %Reading/°C	[4]	
		%Reading/°F			
	ect on Zero Balance	±0.002 %FS/°F	±0.0036 %FS/°C	[5][4]	
(Maximum)					
Electrical		050.01	050.01		
Bridge Resistance		350 Ohm	350 Ohm	[1]	
	e (Recommended)	10 VDC	10 VDC	[2]	
Insulation Resista	ance	5 GOhm	5 GOhm		
Zero Balance		≤1 %RO	≤1 %RO		
Physical		0.75: 0.50:	0.47.05		
Size (Diameter x	Length)	9.75 in x 8.50 in	247.65 mm x 215.90	[6]	
14/ - 1 - 1- (00 !!.	mm		
Weight		80 lb	36.29 Kg		
Mounting		Flange (3/4in	Flange (M20 Bolts)		
Tamaiamal Otiffaaa	_	Bolts)	COOO I-NI / di		
Torsional Stiffnes	S	53900 klbf-	6090 kN-m/radian		
Consina Florest		in/radian	Strain Cogo		
Sensing Element		Strain Gage	Strain Gage		
Housing Material Electrical Connec		Plated Steel PT02E-10-6P	Plated Steel PT02E-10-6P		
Electrical Connec	ioi	F102E-10-0P	P102E-10-0P		

ECN #: 38221 Optional Versions (Optional versions have identical specifications and accessories as listed for standard model except where noted below. More than one option maybe used.)

Revision C

Notes

- [1] Nominal.
- [2] Calibrated at 10 VDC, usable 5 to 20 VDC or VAC RMS.
- [3] Singularly applied, i.e. no other extraneous loads.
- [4] Over compensated operating temperature range.
- [5] FS Full Scale.
- [6] See Drawing 26442 for Complete Dimensions

Supplied Accessories

181-012A PT06A-10-6S(SR) (1)

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All specifications are at room temperature unless otherwise specified.

In the interest of constant product improvement, we reserve the right to change specifications without

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Entered: DMW	Engineer: PE	Sales: RR	Approved: JC	Spec Number:
Date:	Date:	Date:	Date:	22017
01/24/2012	01/24/2012	01/24/2012	01/24/2012	



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