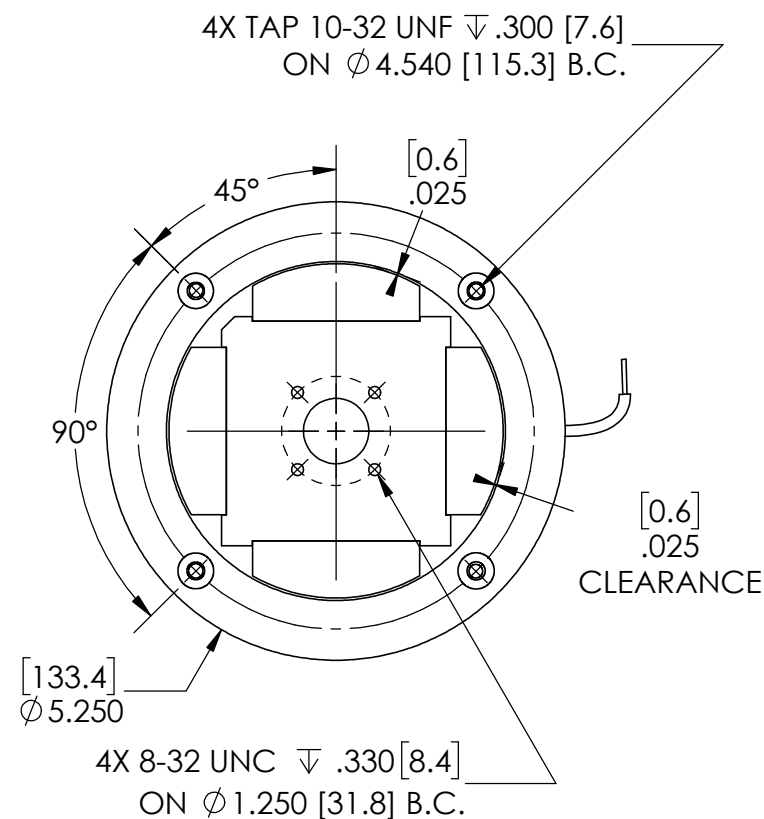
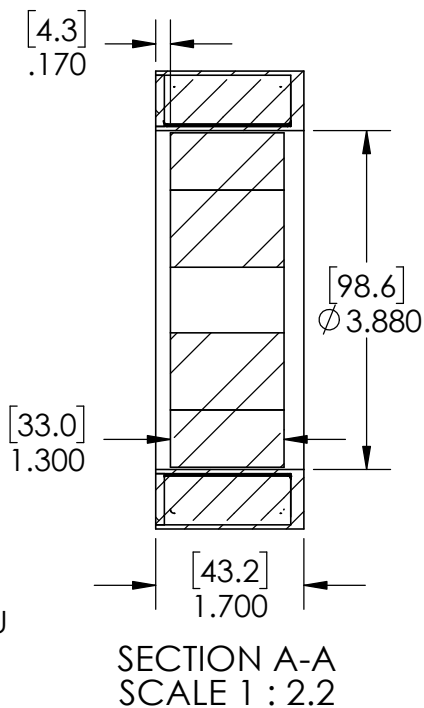
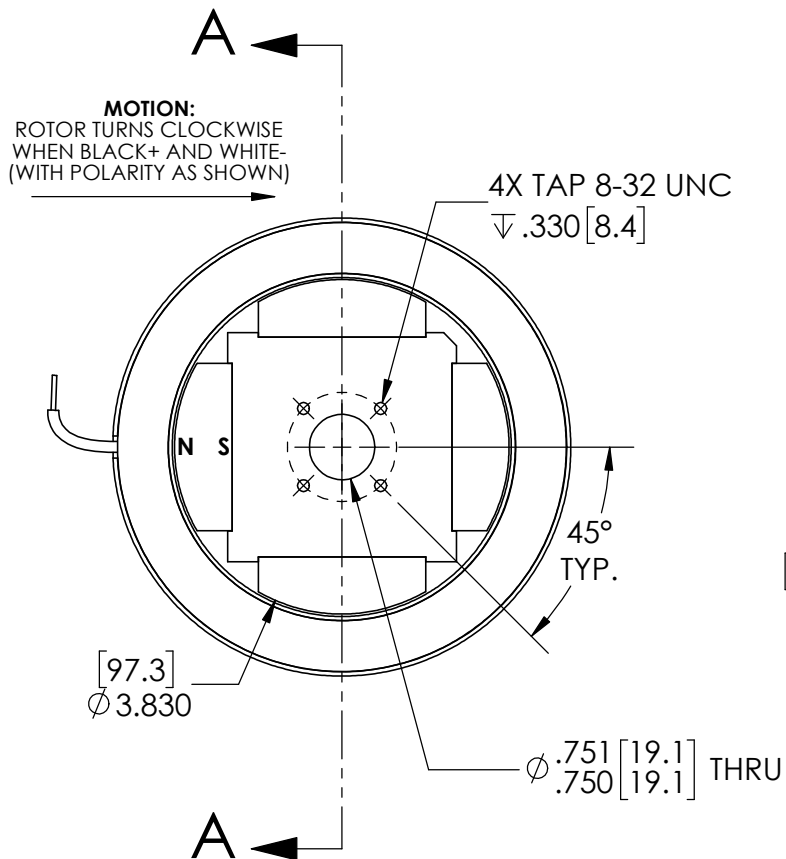


MOTOR SHOWN AT MIDSTROKE

REVISION TABLE					
REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	JRM	MPW	3-6-14



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UNLESS SPECIFIED OTHERWISE:
All dimensions are in inches
Standard Tolerances are as follows
XXX ±.005 ANGLES ±1°
.XX ±.010 FILLETS .010
.X ±.020 CORNERS .010
Remove All Burrs and Sharp Edges

**FOR
REFERENCE
ONLY**

MATERIAL

FINISH

TITLE
**Limited Angle Torque Motor Model #:
TMR-020-53-270-4-48V**

DWG # **80-0272**
REV
DATE 3-6-14 SHEET 1 of 2

1

2

3

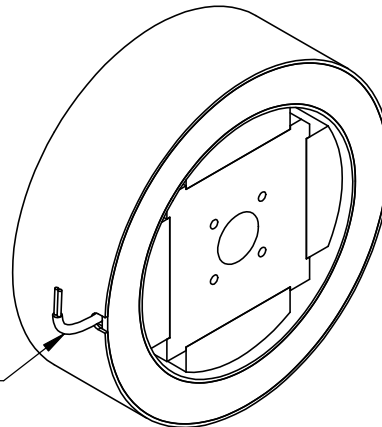
4

5

LIMITED ANGLE TORQUE MOTOR SPECIFICATIONS

Motor P/N	TMR-020-53-270-4-48V	
Device Type	MR	
Stroke	20 degrees	0.35 radians
Radial Clearance	0.025 in	0.64 mm
Housed with Bearings	No	
Rotor Inertia	110.4 oz-in ²	2.02 E-3 kg-m ²
Total Mass	6.5 lbs	3.00 kgs
Resistance @ 20C	9.0 ohms	
Inductance @ 20C	5.5 mH	
Electrical Time Constant	0.61 msec	
Motor Constant	60 in-oz/sqrt(watt)	42 N-cm/sqrt(watt)
Torque Constant	180 in-oz/amp	126 N-cm/amp
Back EMF	0.13 V/rpm	1.3 V/rad/sec
Torque @ 100% Duty	380 in-oz	265 N-cm
Power @ 100% Duty	40 watts	
Current @ 100% Duty	2.1 amps	
Torque @ 10% Duty	960 in-oz	795 N-cm
Power @ 10% Duty	360 watts	
Current @ 10% Duty	6.3 amps	

POWER LEADS
2X CONDUCTOR CABLE
P/N#: E22(2)SJ FEP



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SHEET

2 of 2