

1

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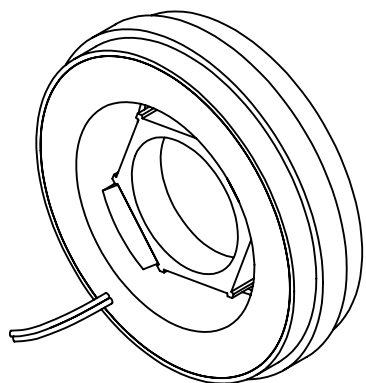
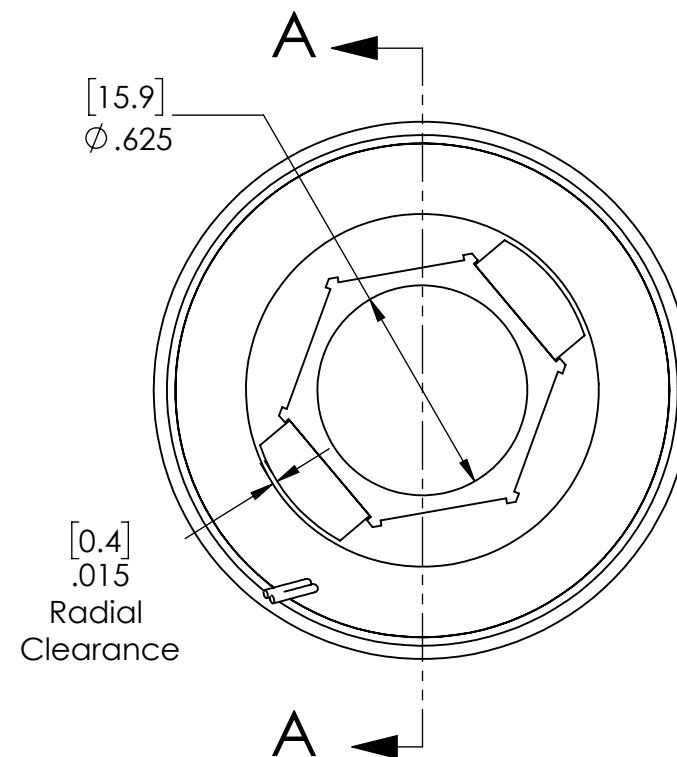
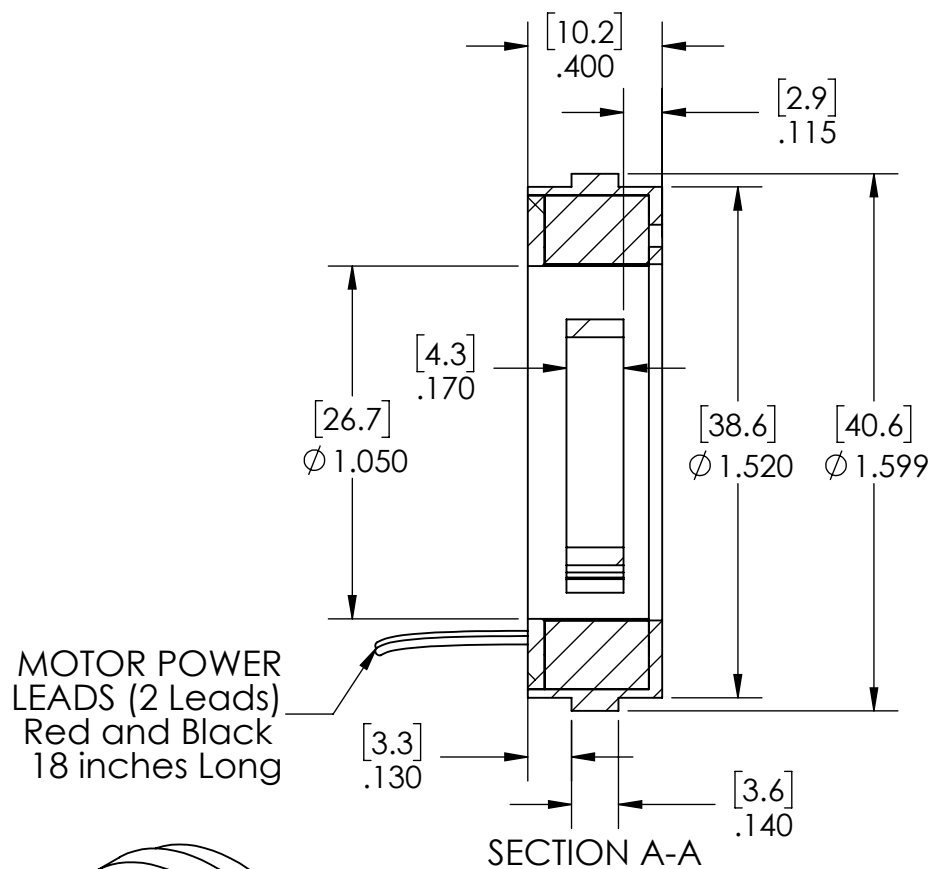
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REVISION TABLE

REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Initial Release	JRM	FGW	5-26-21



H2W Technologies, Inc.
Santa Clarita, CA 91350 USA
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www.h2wtech.com

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

MATERIAL

FINISH

TITLE

Limited Angle Torque Motor
Model #: TWR-075-16-001-2

DWG # **80-0457**

REV

DATE

5-26-21

SHEET

1 of 2

1

2

3

4

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LIMITED ANGLE TORQUE MOTOR SPECIFICATIONS

Motor P/N	TMR-075-16-001-2	
Device Type	MR	
Stroke	75 degrees	1.31 radians
Radial Clearance	0.015 in	0.64 mm
Housed with Bearings	No	
Rotor Inertia	0.59 oz-in ²	1.07 E-6 kg-m ²
Total Mass	0.07 lbs	32.1 grams
Resistance @ 20C	1.1 ohms	
Inductance @ 20C	0.1 mH	
Electrical Time Constant	0.13 msec	
Motor Constant	0.46 in-oz/sqrt(watt)	0.32 N-cm/sqrt(watt)
Torque Constant	0.48 in-oz/amp	0.34 N-cm/amp
Back EMF	3.5 E-4 V/rpm	3.5 E-3 V/rad/sec
Torque @ 100% Duty	1.3 in-oz	0.9 N-cm
Power @ 100% Duty	8 watts	
Current @ 100% Duty	2.7 amps	
Torque @ 10% Duty	4 in-oz	2.8 N-cm
Power @ 10% Duty	62 watts	
Current @ 10% Duty	8.3 amps	

* Values based on calculations and are for reference only, actual values will be confirmed upon shipment. As a rule of thumb the values contained are +/- 10% unless otherwise stated within the table.



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.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 #: TWR-075-16-001-2

DWG #

80-0457

REV

DATE

6-8-21

SHEET

2 of 2