

1

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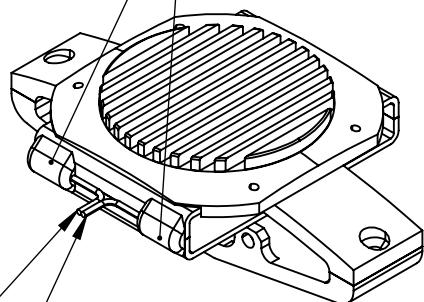
4

5

REVISION TABLE

REV	ECN#	DESCRIPTION	REV BY	APPROVED	DATE
---	---	Original Drawing	JRM	MPW	08-19-25

Connection Space
(2PI)



2X M4x0.7 THRU

2X C'Sink for a SS M4 FHCS

4X M3x0.5 Tapped Hole

#24 AWG Flexible Lead Wire (12 inch) - Black

#24 AWG Flexible Lead Wire (12 inch) - Red

[88]
Ø 3.465

[62.3]
Ø 2.453

[56]
2.20

[76]
Ø 2.992

30°

30°

[76]
2.992

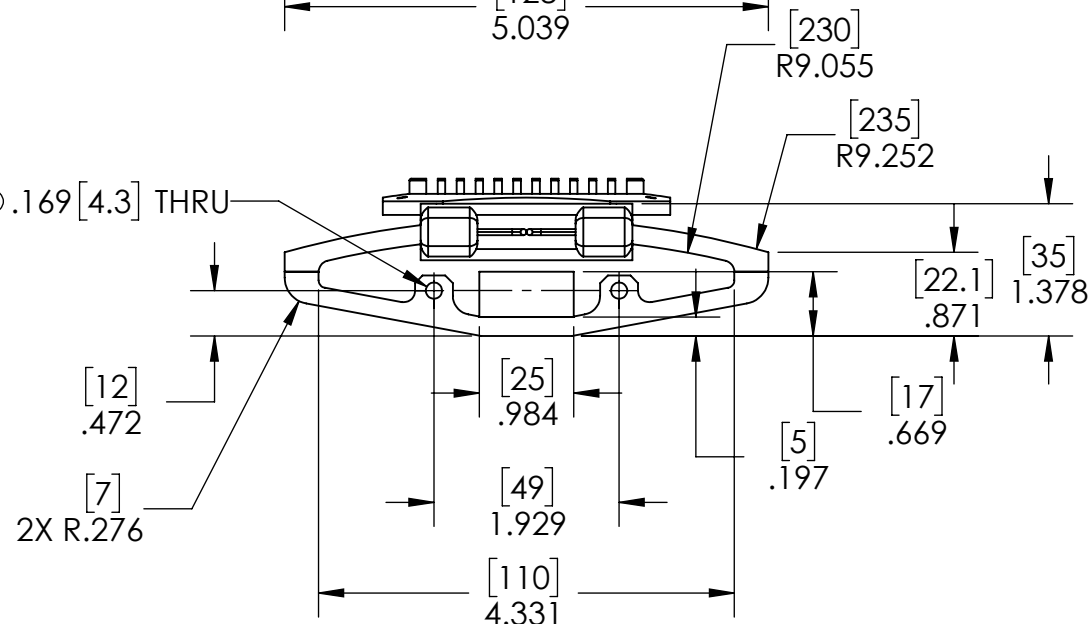
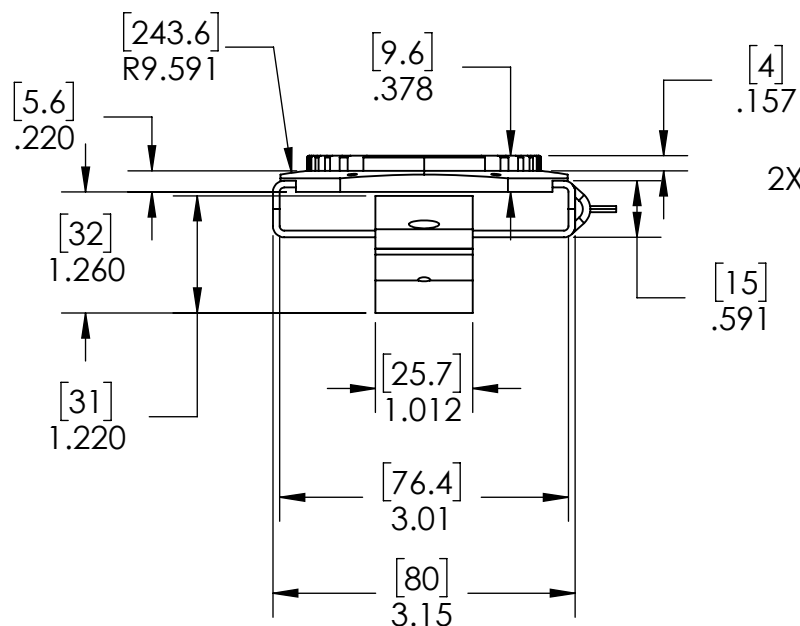
[128]
5.039

[230]
R9.055

[235]
R9.252

2X Ø .169 [4.3] THRU

[7]
2X R.276



H2W Technologies, Inc.
Santa Clarita, CA 91350 USA
Tel: (661) 291-1620
www.h2wtech.com

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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

MATERIAL

FINISH

TITLE

Rotary Voice Coil Actuator
TWR-010-120-1RCR

DWG # **80-0506**

REV

DATE

8-19-25

SHEET

1 of 2

1

2

3

4

5

LIMITED ANGLE TORQUE MOTOR SPECIFICATIONS

Motor P/N	TWR-010-120-1RCR	
Device Type	WR	
Stroke	10 degrees	0.17 radians
Radial Clearance	0.040 in	1.0 mm
Housed with Bearings	No	
Rotor Inertia	0.89 oz-in ²	1.64 E-5 kg-m ²
Total Mass	0.18 lbs	82 grams
Resistance @ 20C	6.0 ohms	
Inductance @ 20C	6.0 mH	
Electrical Time Constant	1.0 msec	
Motor Constant	35 in-oz/sqrt(watt)	24 N-cm/sqrt(watt)
Torque Constant	86 in-oz/amp	60 N-cm/amp
Back EMF	1.2 V/rpm	12 V/rad/sec
Torque @ 100% Duty	120 in-oz	84 N-cm
Power @ 100% Duty	12 watts	
Current @ 100% Duty	1.4 amps	
Torque @ 10% Duty	360 in-oz	252 N-cm
Power @ 10% Duty	105 watts	
Current @ 10% Duty	4.2 amps	

Note: The values here are estimates and will be confirmed upon first build.

Assumed to operate at 26 Volts at a temperature of -45°C to 20°C, at higher temperatures up to 85°C torque values will be diminished



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Rotary Voice Coil Actuator
TWR-010-120-1RCR

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REV **----**

DATE **8-19-25** SHEET **2 of 2**