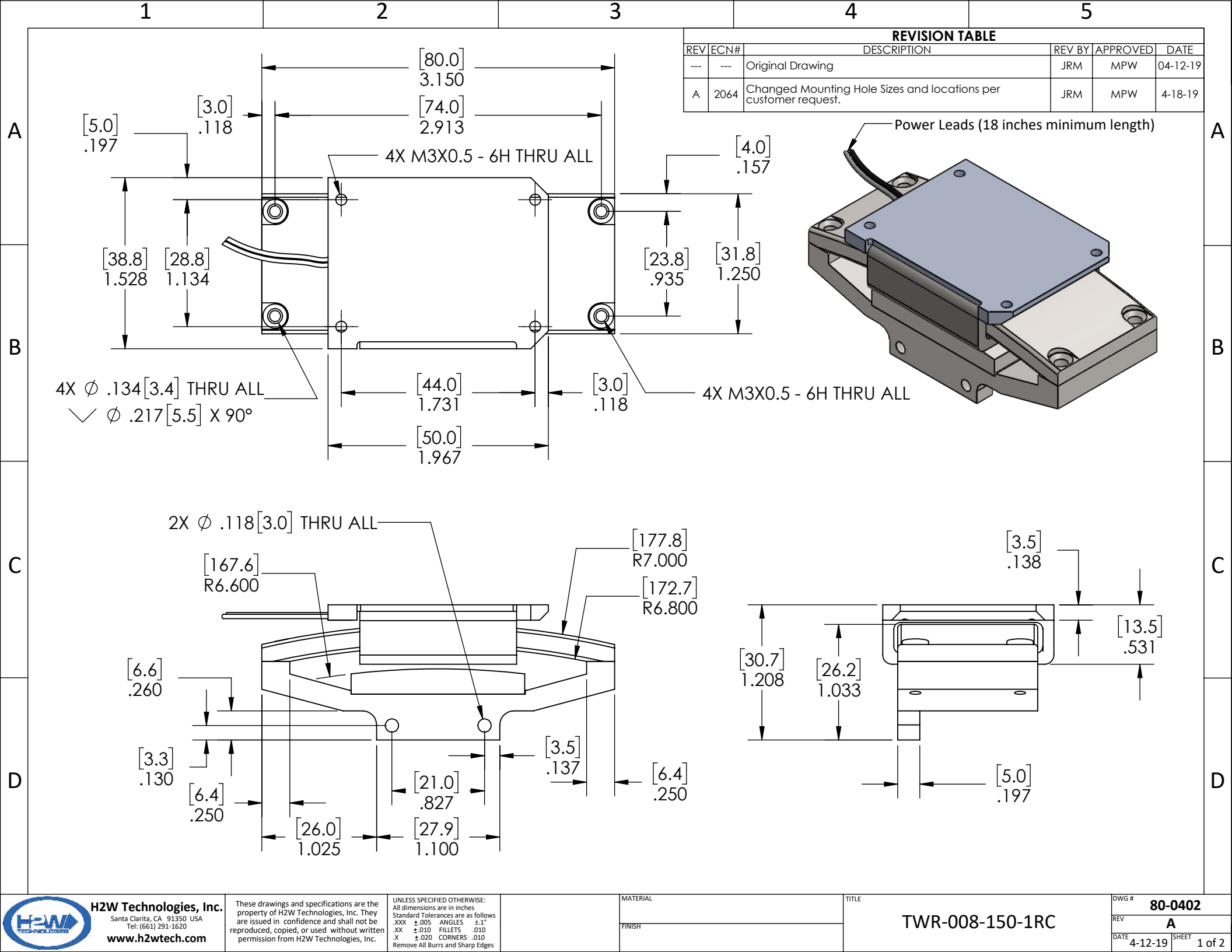




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LIMITED ANGLE TORQUE MOTOR SPECIFICATIONS

Motor P/N	TWR-008-150-1RC	
Device Type	WR	
Stroke	8 degrees	0.14 radians
Radial Clearance	0.020 in	0.5 mm
Housed with Bearings	No	
Rotor Inertia	0.32 oz-in ²	5.9 E-6 kg-m ²
Total Mass	0.70 lbs	310 grams
Resistance @ 20C	3.5 ohms	
Inductance @ 20C	1.3 mH	
Electrical Time Constant	0.37 msec	
Motor Constant	47 in-oz/sqrt(watt)	34 N-cm/sqrt(watt)
Torque Constant	88 in-oz/amp	62 N-cm/amp
Back EMF	6.5 E-2 V/rpm	6.2 E-1 V/rad/sec
Torque @ 100% Duty	150 in-oz	106 N-cm
Power @ 100% Duty	10 watts	
Current @ 100% Duty	1.7 amps	
Torque @ 10% Duty	450 in-oz	318 N-cm
Power @ 10% Duty	90 watts	
Current @ 10% Duty	5.1 amps	

An operating voltage of 26 volts $\pm 10\%$ is sufficient for most operation.

Note:

The specifications on this table are based on calculations and will be confirmed and/or modified with testing prior to shipment.



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

MATERIAL

FINISH

TITLE

TWR-008-150-1RC
Specifications

DWG #

80-0402

REV

A

DATE

4-12-19

SHEET

2 of 2