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## LIMITED ANGLE TORQUE MOTOR SPECIFICATIONS

Motor P/N	TWR-034-800-1RC	
Device Type	WR	
Stroke	34 degrees	0.59 radians
Radial Clearance	0.050 in	1.3 mm
Housed with Bearings	No	
Rotor Inertia	10.7 oz-in <sup>2</sup>	2.0 E-4 kg-m <sup>2</sup>
Total Mass	17.0 lbs	7700 grams
Resistance @ 20C	8.8 ohms	
Inductance @ 20C	26 mH	
Electrical Time Constant	2.95 msec	
Motor Constant	275 in-oz/sqrt(watt)	192 N-cm/sqrt(watt)
Torque Constant	795 in-oz/amp	555 N-cm/amp
Back EMF	0.55 V/rpm	5.5 V/rad/sec
Torque @ 100% Duty	1400 in-oz	980 N-cm
Power @ 100% Duty	25 watts	
Current @ 100% Duty	1.7 amps	
Torque @ 10% Duty	4200 in-oz	2900 N-cm
Power @ 10% Duty	230 watts	
Current @ 10% Duty	5.1 amps	

### 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 ±.005 ANGLES ±.1°  
.XX ±.010 FILLETS .010  
.X ±.020 CORNERS .010  
Remove All Burrs and Sharp Edges

**FOR  
REFERENCE  
ONLY**

MATERIAL

FINISH

TITLE

TWR-034-800-1RC

DWG # **80-0424**

REV **B**

DATE 11-13-19 SHEET 2 of 2