

ElectroCraft's MP36 MobilePower™ integrates a 4-pole PMDC brush motor with a 2-stage right-angle worm gearbox, designed for medical mobility applications.

ElectroCraft MobilePower™ gearmotors feature an integrated design that provides increased performance and reliability at an affordable price compared to traditional motor/gearbox combinations. As with all ElectroCraft products, MobilePower™ gearmotors are customizable to meet specific application requirements.

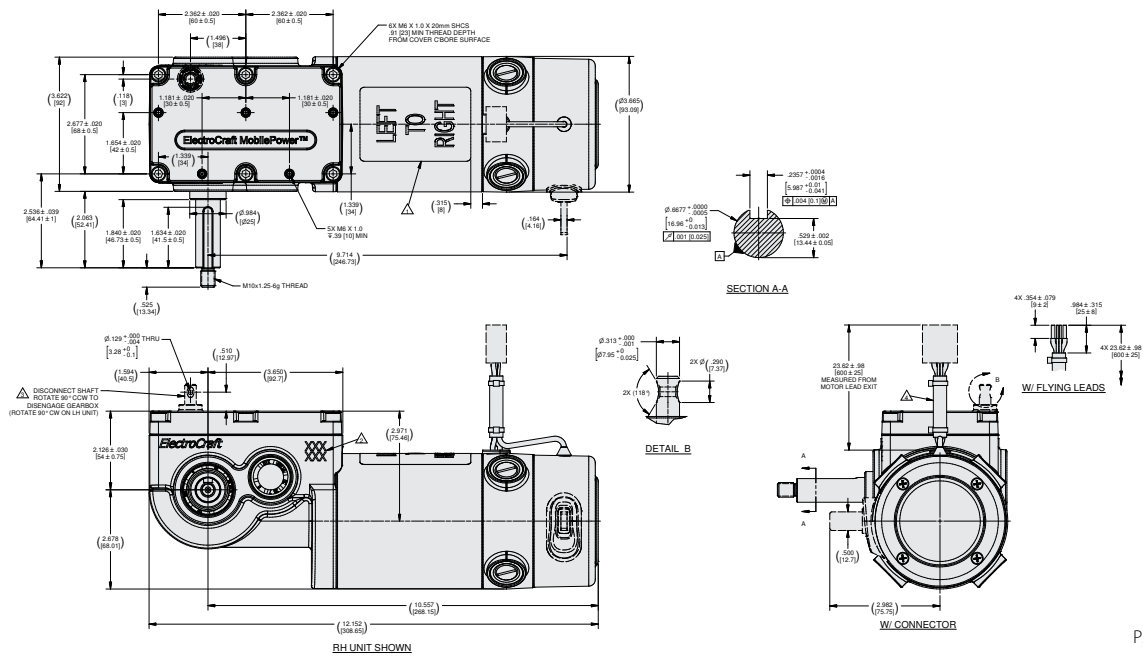
Features:

- Smooth, efficient motion
- Durable and highly reliable integrated worm-gear design
 - Suitable for uneven terrain and curb-climbing
- High starting torque:
 - Peak starting torque up to 109.89Nm
 - 15-minute continuous torque up to 31.42Nm
- Configurable or completely customizable designs
 - Motor, gearbox, brake, encoder, cabling
- Typical applications:
 - Medical Mobility Chairs
 - Stair Lifts



M P 3 6 - W R - 0 2 1 V 2 4 - 4 0 0 - X

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|--|--|--|--|--|
| <p>MTR-GRB Model</p> <p>MP36 = Standard Duty Gearbox with PMDC 4-Pole</p> <p>Gearbox Option</p> <p>WR = Right Angle Worm & Spur W/ Right Hand Output Shaft</p> <p>WL = Right Angle Worm & Spur W/ Left Hand Output Shaft</p> | <p>Gear Ratio</p> <p>016 = 16.44:1</p> <p>018 = 17.88:1</p> <p>020 = 19.50:1</p> <p>021 = 21.33:1</p> <p>025 = 24.67:1</p> <p>027 = 26.82:1</p> <p>029 = 29.25:1</p> <p>032 = 32.00:1</p> | <p>Rated Voltage</p> <p>24 = 24 VDC</p> | <p>Disengage Option</p> <p>2 = No Gear Release, Manual Release Brake</p> <p>4 = Gear Release, Std Brake (No Manual Release)</p> | <p>Encoder Option</p> <p>X = None</p> <p>Connector Option</p> <p>0 = None</p> <p>5 = Dynamic Controls Shark</p> <p>6 = PG R-net Drive</p> <p>7 = Anderson Powerpole</p> <p>8 = PG VR2 Drive</p> <p>9 = Curtis enAble Drive</p> <p>Lead Option</p> <p>0 = Unshielded Leads Covered with Braided Sleeving</p> |
|--|--|--|--|--|



MP36 ElectroCraft MobilePower™

Geared Motor

Low Voltage - High Torque



MP36 Motor Parameters

Gear Ratio	32.00:1	29.25:1	26.82:1	24.67:1	21.33:1	19.50:1	17.88:1	16.44:1
Operating Voltage (VDC)	24							
No Load Speed (RPM)	115	126	137	149	173	189	206	224
Peak Torque (Nm)	109.89	100.45	92.11	84.72	73.25	66.97	61.4	56.46
Peak Current (Amps)	80.0							
Peak Power (Watts)	972							
S2 Torque (15 min) (Nm)	31.42	28.72	26.34	24.22	20.94	19.15	17.56	16.14
S2 Current (15 min) (Amps)	25.0							
S2 Power (15 min) (Watts)	355							
S1 Torque (Continuous) (Nm)	10.02	9.16	8.40	7.72	6.68	6.11	5.60	5.15
S1 Current (Continuous) (Amps)	10.0							
S1 Power (Continuous) (Watts)	121							
Torque Constant (Nm/A)	0.05918							
Voltage Constant (V/KRPM)	6.2							
Motor Inertia (Armature) (kg.mm ²)	1386.1							
Motor Winding Resistance (Ohms)	0.16							
Motor Winding Inductance (µH)	79							
Motor Max Winding Temp (°C)	155							
Motor Poles	4							
Motor Mass (kg)	6.26							

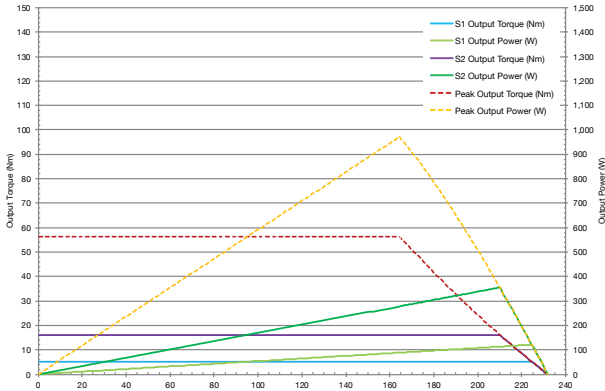
Notes:

Gear Motor specifications (torque, current, power) are reference values based on 25°C operating temperature.

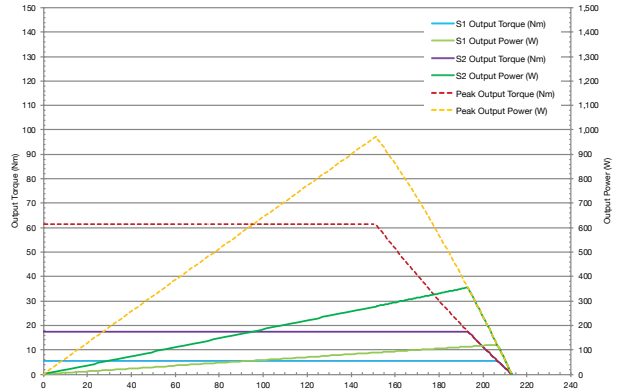
Do not apply maximum current for more than 5 seconds or more than twice without 10 minutes between cycles

MP36 Motor Performance

16.44:1 Ratio



17.88:1 Ratio



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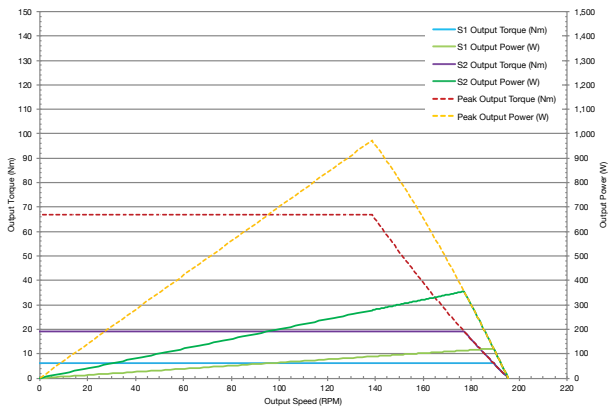
ElectroCraft, Inc.
2 Marin Way, Suite 3
Stratham, NH 03885-2578 USA

Tel: (844) 565-6144

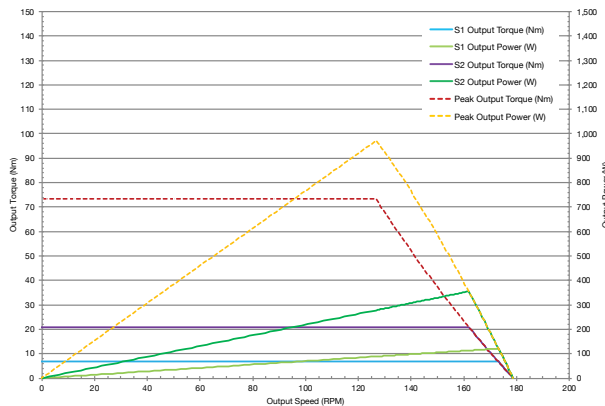
Email: sales@electrocraft.com
www.electrocraft.com

MP36 Motor Performance Cont.

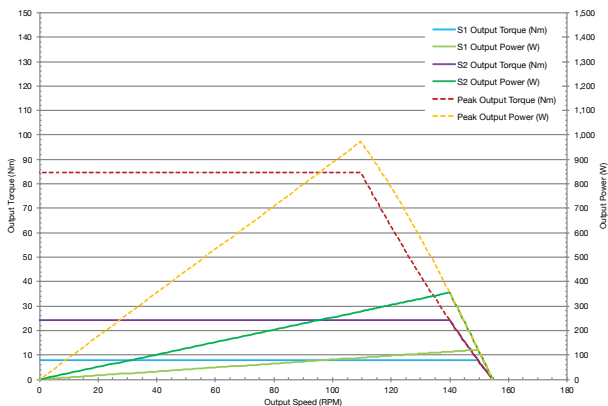
19.50:1 Ratio



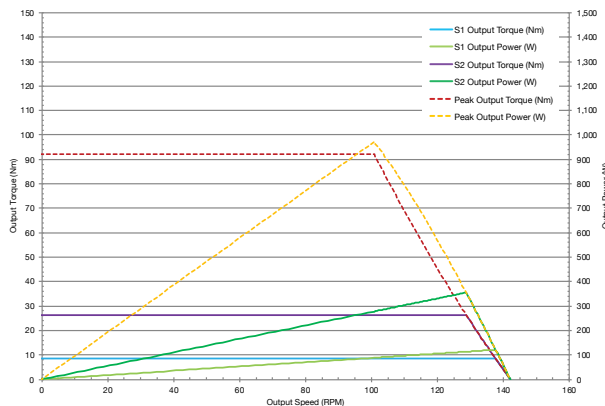
21.33:1 Ratio



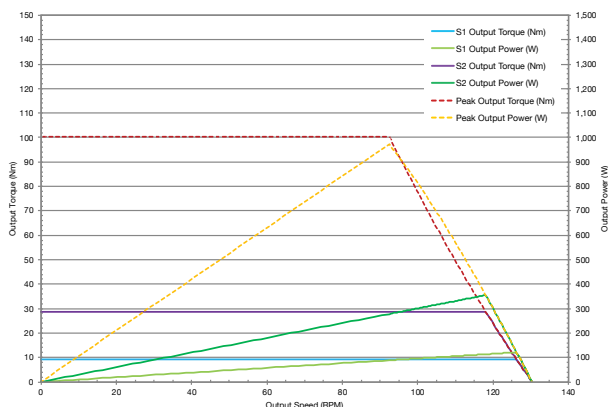
24.67:1 Ratio



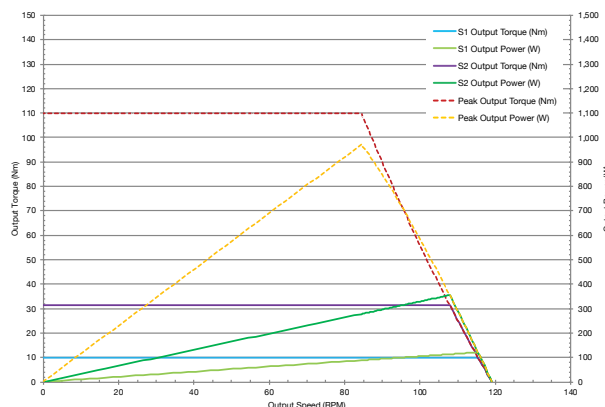
26.82:1 Ratio



29.25:1 Ratio



32.00:1 Ratio



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