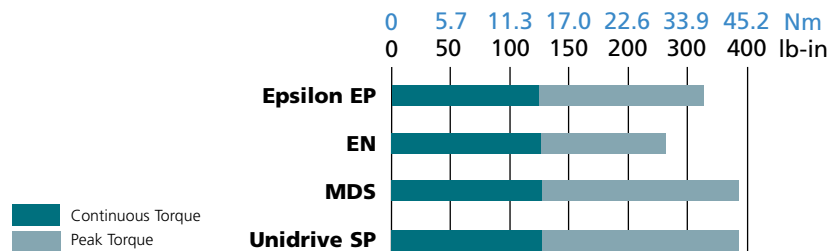


MG MOTOR—230V

The MG Motor is low inertia motor that is ideally suited for dynamic applications with torque requirements between 5 lb-in (0.57 Nm) and 163 lb-in (18.4 Nm). MG motors use Neodymium magnets to achieve a high torque to inertia ratio giving them a size advantage when compared to competitors' motors. MG motors are available in English (NEMA 23, 34, or 56) and Metric (IEC-72-1) flanges with or without brakes. The standard encoder resolution is 2048 lines per rev. MG motors come standard with MS style connectors. All models are rated IP65.

MG



MG Motor Specifications

Motor Model	Rated Torque lb-in Nm	Cont. Stall Current Arms	Peak Current Arms	Motor Resistance Ohms	Motor Inductance mH	Max Operating Speed RPM	Inertia lb-in-sec ² kg-cm ²	Motor Ke Vrms/krpm	Motor Kt lb-in/Arms Nm/Arms	Motor Weight lb kg
MG-205	5.3 0.6	1.3	4.3	18.5	26.40	5000	0.000099 0.112	28	4.1 0.47	3 1.3
MG-208	9.4 1.1	2.3	7.8	7.3	12.50	5000	0.000169 0.191	28	4.1 0.47	4 1.8
MG-316	19.3 2.2	3.5	12	3.9	9.40	4000	0.000560 0.630	38	5.5 0.62	8.3 3.8
MG-340	47.3 5.3	5.7	19.5	1.9	6.80	3000	0.001458 1.646	57	8.3 0.94	14.6 6.6
MG-455	63.4 7.2	7.2	26.4	1.1	7.40	3000	0.002658 3.000	60	8.8 0.99	20 9.1
MG-490	88.6 10.0	10.3	45	0.4	3.30	3000	0.005175 5.823	59	8.6 0.97	28.6 13.0
MG-4120	123.9 14.0	11.8	49.2	0.4	3.20	3000	0.007458 8.4	72	10.5 1.19	37 16.8

Note: Encoder resolution 2048 ppr

MG Holding Brake Specifications

Motor Frame Size	Volt DC	Current (A)	Static Torque lb-in Nm	Mechanical Disengagement Time-Brake Released ms	Mechanical Engagement Time-Brake Holding ms	Added Inertia lb-in-sec ² kg-cm ²
2"	24	0.21	10 1.13	40	25	0.000025 0.028
3"	24	0.52	60 6.78	250	100	0.00015 0.17
4"	24	0.088	230 27.12	250	100	0.00041 0.46