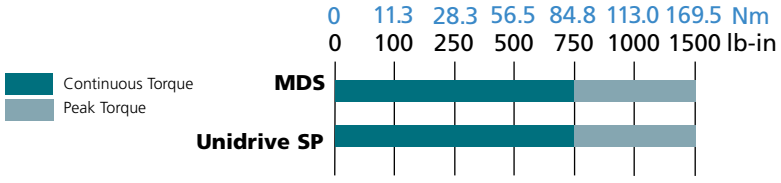
MH MOTOR—460V

The MH Motor is a low inertia motor that is ideally suited to the MDS operating with 460 VAC Input. Applications with torque requirements between 16 lb-in (1.8 Nm) and 748 lb-in (84.5 Nm) can be solved. MH motors use Neodymium magnets to achieve a high torque to inertia ratio giving them a size advantage when compared to competitors' motors. MH motors are available in English and Metric flanges, with or without brakes. The standard encoder resolution is 2048 lines per rev. All models are rated IP65.



MH 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-sec² / kg-cm²	Motor Ke Vrms/krpm	Motor Kt lb-in/Arms / Nm/Arms	Motor Weight lb / kg
MH-316	21.5 2.4	1.97	5.88	15.3	39.7	4000	0.00067 0.759253	75	10.98 1.24	8.3 3.8
MH-340	46 5.2	3	9	7.8	28	3000	0.00143 1.61	116	16.98 1.92	12.4 5.6
MH-455	72.5 8.2	4.34	13.02	4.2	30	3000	0.0036 4.02	120	17.57 1.98	18.0 8.2
MH-490	105 11.8	6.84	20.52	1.8	12.1	3000	0.006727 7.6	110	16.1 1.82	26.2 11.9
MH-6120	120 13.6	7	21	1.9	13	3000	0.01066 12.03	115	16.84 1.9	32.4 14.7
MH-6200	234 26.4	14.43	43.29	0.68	5.6	3000	0.0188 21.3	115	16.84 1.9	48 21.8
MH-6300	299 33.8	18.5	55.5	0.45	4.3	3000	0.0271 30.7	115	16.84 1.9	65 29.5
MH-8250	285 32.2	19	45.9	0.86	10.3	3000	0.54 61.4	128	18.7 2.11	77 35
MH-8500	530 59.9	34	58	0.3	5.2	3000	0.078 87.8	122	17.8 2.01	110 49.9
MH-8750	748 84.5	34	68	0.3	4.7	2500	0.133 150.2	162	23.7 2.68	171 77.6

Note: Encoder resolution 2048 ppr

MH Holding Brake Specifications

Motor Frame Size	Volt DC	Current (A)	Static Torque lb-in	Static Torque Nm	Mechanical Disengagement Time-Brake Released ms	Mechanical Engagement Time-Brake Holding ms	Added Inertia lb-in-sec²	Added Inertia kg-cm²
3"	24	0.52	60	6.78	250	100	0.00015	0.16935
4"	24	0.088	230	27.12	250	100	0.0004112	0.464245
6"	24	1.13	360	40.68	100	50	0.00015	2.56283
8"	Consult Factory							