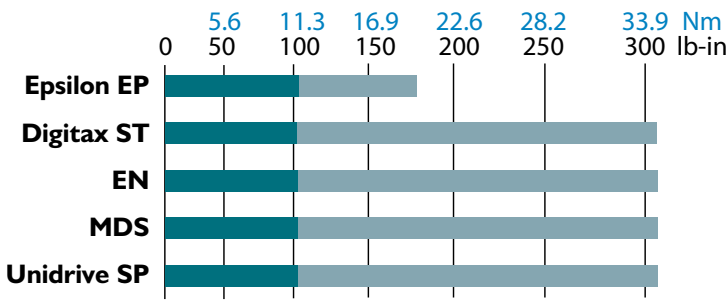


XV—230V

The XV Servo Motor series is a high-performance, low inertia, and high torque in a compact motor package. It offers a low cost solution with the features of a premium priced servo offering. Intended for higher throughputs and smaller machines, XV motors are available in 4 Frame Sizes: 40, 60, 80 and 130 mm with speeds ranging from 2000 to 5000 rpm. Applications with Continuous Torque requirements up to 101 lb-in (11.4 Nm) are the perfect match for the XV motors. XV motors are CE, UL and RoHS approved.

XV

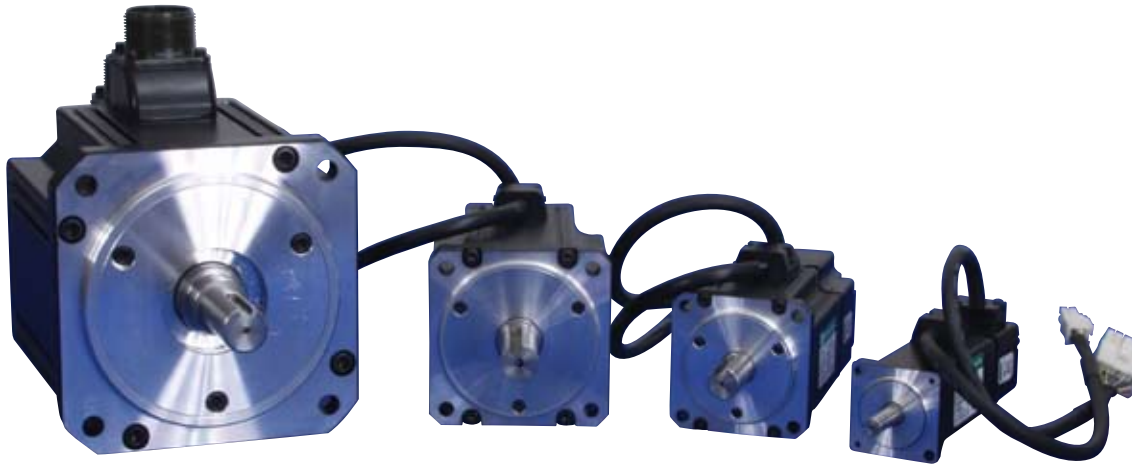



XV Motor Specifications

Motor Model	Rated Torque lb-in Nm	Cont. Stall Current Amps	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
XV-401	0.95 0.11	1.07	2.9	11.69	8.54	5000	0.0000097 0.011	7.8	0.89 0.1	0.7 0.3
XV-403	3.09 0.35	1.38	3.8	6.89	6.73	5000	0.00004 0.045	12.7	2.24 0.25	1.1 0.52
XV-606	6.13 0.69	1.63	4.6	4.15	15.21	5000	0.000161 0.182	29.2	3.76 0.43	2.4 1.11
XV-6011	12.0 1.36	2.89	8.3	1.64	7.32	5000	0.000284 0.321	29.5	4.15 0.47	3.5 1.63
XV-8017	17.9 2.0	3.58	10.3	1.43	9.18	5000	0.00096 1.092	35.2	5 0.57	5.4 2.49
XV-8023	24.1 2.73	3.82	11.0	1.29	9.10	3000	0.001335 1.509	44.6	6.32 0.71	6.9 3.15
XV-8028	29.9 3.38	5.37	15.5	0.75	5.04	5000	0.001705 1.927	39.2	5.57 0.63	8.3 3.8
XV-13046	48.4 5.47	6.28	18.5	0.77	7.76	3000	0.010611 11.99	53.1	7.71 0.87	15.8 7.2
XV-13051	53.4 6.04	4.15	12.1	1.87	20.10	2000	0.010611 11.99	85.8	12.87 1.45	15.8 7.2
XV-13068	70.1 7.92	9.23	27.2	0.47	5.27	3000	0.015345 17.34	54.2	7.59 0.86	19.1 8.7
XV-13089	90.0 10.17	5.78	17.2	1.41	15.99	2000	0.015345 17.34	94.6	15.57 1.76	21.3 9.7
XV-130101	101.0 11.41	7.63	22.3	0.87	10.67	2000	0.0200072 22.68	90.0	13.88 1.57	22.4 10.2

Note: Encoder resolution 2048 ppr

Servomotors



XV Motor Holding Brake Specifications

Motor Frame Size mm	Power Supply DC	Current (A)	Static Torque		Mechanical Engagement Time - Holding Brake ms	Added Inertia		Added weight kg
			lb-in	Nm		lb-in-sec ²	kg-cm ²	
40	24	0.25	2.8	0.318	20	0.0000027	0.003	0.2
60	24	0.27	13.0	1.47	50	0.0000425	0.048	0.6
80	24	0.38	28.6	3.23	60	0.0001106	0.125	0.7
130	24	0.29	70.8	8	40	0.0004779	0.54	0.83

XV Motor IP Ratings

Frame size	IP rating	Exclusions
40 mm	IP55*	Shaft through area of face plate and connectors
60 mm	IP55*	Shaft through area of face plate and connectors
80 mm	IP65*	Shaft through area of face plate and connectors
130 mm	IP65*	shaft through area of face plate

* Shafts are not fitted with seals

Thermal Protection

The XV motors do not have and are not offered with a winding thermal temperature sensor. Motor feedback cables have the Motor Temperature Sensor lines defeated (shorted between pin 14 (DNG) and pin 15 (5V)). These cables include cable model numbers: XUFTS-xxx and XUFCS-xxx (XEFTS-xxx and XEFCS-xxx).

All of the servo drives offered by Control Techniques have a current limiting algorithm in the firmware specifically to limit current levels. When properly matched and limited to the motor specifications the drive firmware will fault the drive when the rated RMS current of the motor is exceeded.

- Ambient operating temperature: 0° to 40° Celsius
- Storage Temperature: -20° to 80° Celsius
- Atmosphere: No corrosive gas, flammable gas, oil mist, or dust

XV Motor Dimensions Table

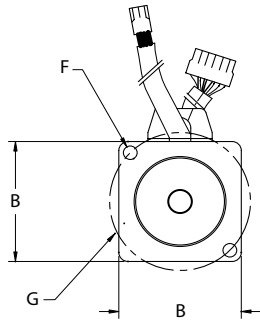
Inches (mm)	40mm		60mm	
	XVM-401	XVM-403	XVM-606	XVM-6011
A Length Overall - CONS (Max)				
A Length Overall - TONS (Max)	2.980 (75.7)	3.917 (99.5)	4.173 (106)	5.276 (134)
A Length Overall - CBNS (Max)				
A Length Overall - TBNS (Max)	4.409 (112)	5.354 (136)	5.748 (146)	6.850 (174)
B Flange Square	1.575 (40)	1.575 (40)	2.44 (62)	2.44 (62)
C Flange Thickness	0.197 (5)	0.197 (5)	0.236 (6)	0.236 (6)
D Pilot Diameter	1.181 (30)	1.181 (30)	1.969 (50)	1.969 (50)
E Pilot Thickness	0.098 (2.5)	0.098 (2.5)	0.118 (3)	0.118 (3)
F Bolt Hole Diameter	0.177 (4.5)	0.177 (4.5)	0.236 (6)	0.236 (6)
G Bolt Circle Diameter	1.811 (46)	1.811 (46)	2.756 (70)	2.756 (70)
H Signal Connector Height - CONS (Max)				
H Signal Connector Height - TONS (Max)	1.220 (31)	1.220 (31)	1.732 (44)	1.732 (44)
H Signal Connector Height - CBNS (Max)				
H Signal Connector Height - TBNS (Max)	1.220 (31)	1.220 (31)	1.732 (44)	1.732 (44)
I Shaft Length	0.984 (25)	0.984 (25)	1.181 (30)	1.181 (30)
J Shaft Diameter	0.315 (8)	0.315 (8)	0.551 (14)	0.551 (14)
Shaft key Dimensions				
K Keyway Length (Min)			0.886 (22.5)	0.886 (22.5)
L Keyway Depth			0.118 (3)	0.118 (3)
M Keyway Width			0.197 (5)	0.197 (5)

Inches (mm)	80mm			130mm				
	XVM-8017	XVM-8023	XVM-8028	XVM-13046	XVM-13051	XVM-13068	XVM-13089	XVM-130101
A Length Overall - CONS (Max)				6.614 (168)	6.614 (168)	7.559 (192)	7.559 (192)	8.501 (216)
A Length Overall - TONS (Max)	5.433 (138)	6.220 (158)	7.008 (178)					
A Length Overall - CBNS (Max)				8.110 (206)	8.110 (206)	9.055 (230)	9.055 (230)	10.00 (254)
A Length Overall - TBNS (Max)	7.008 (178)	7.795 (198)	8.583 (218)					
B Flange Square	3.150 (80)	3.150 (80)	3.150 (80)	5.118 (130)	5.118 (130)	5.118 (130)	5.118 (130)	5.118 (130)
C Flange Thickness	0.433 (11)	0.433 (11)	0.433 (11)	0.551 (14)	0.551 (14)	0.551 (14)	0.551 (14)	0.551 (14)
D Pilot Diameter	2.756 (70)	2.756 (70)	2.756 (70)	4.331 (110)	4.331 (110)	4.331 (110)	4.331 (110)	4.331 (110)
E Pilot Thickness	0.118 (3)	0.118 (3)	0.118 (3)	0.236 (6)	0.236 (6)	0.236 (6)	0.236 (6)	0.236 (6)
F Bolt Hole Diameter	0.260 (6.6)	0.260 (6.6)	0.260 (6.6)	0.354 (9)	0.354 (9)	0.354 (9)	0.354 (9)	0.354 (9)
G Bolt Circle Diameter	3.543 (90)	3.543 (90)	3.543 (90)	5.709 (145)	5.709 (145)	5.709 (145)	5.709 (145)	5.709 (145)
H Signal Connector Height -CONS (Max)				4.409 (112)	4.409 (112)	4.409 (112)	4.409 (112)	4.409 (112)
H Signal Connector Height -TONS (Max)	2.087 (53)	2.087 (53)	2.087 (53)					
H Signal Connector Height -CBNS (Max)				4.409 (112)	4.409 (112)	4.409 (112)	4.409 (112)	4.409 (112)
H Signal Connector Height -TBNS (Max)	2.087 (53)	2.087 (53)	2.087 (53)					
I Shaft Length	1.575 (40)	1.575 (40)	1.575 (40)	2.283 (58)	2.283 (58)	2.283 (58)	2.283 (58)	2.283 (58)
J Shaft Diameter	0.630 (16)	0.630 (16)	0.630 (16)	0.748 (19)	0.748 (19)	0.866 (22)	0.866 (22)	0.866 (22)
Shaft key Dimensions								
K Keyway Length (Min)	1.181 (30)	1.181 (30)	1.181 (30)	0.984 (25)	0.984 (25)	0.984 (25)	0.984 (25)	0.984 (25)
L Keyway Depth	0.118 (3)	0.118 (3)	0.118 (3)	0.118 (3)	0.118 (3)	0.138 (3.5)	0.138 (3.5)	0.138 (3.5)
M Keyway Width	0.197 (5)	0.197 (5)	0.197 (5)	0.197 (5)	0.197 (5)	0.236 (6)	0.236 (6)	0.236 (6)

XV MOTOR DIMENSIONS

Fly lead length 12" on 40mm, 60mm and 80mm

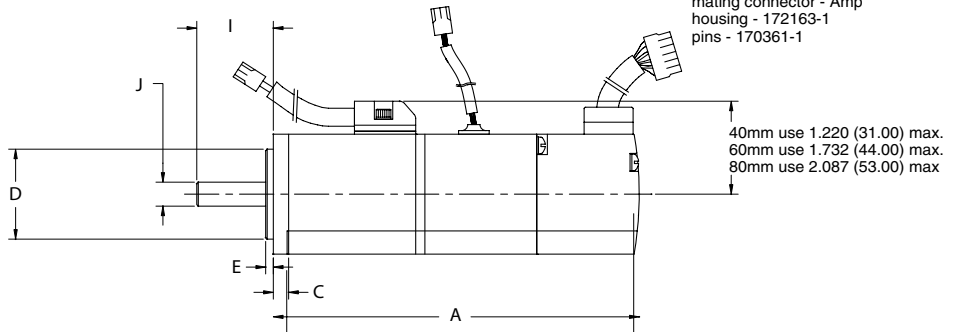
TONS
TBNS



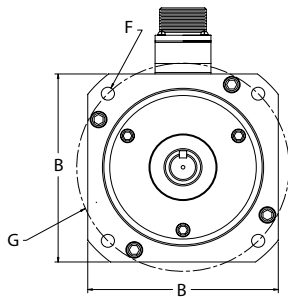
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mating connector - Amp
housing - 172159-1
pins - 170362-1

PLUG: AMP 172165-1
mating connector - Amp
housing - 172157-1
pins - 170362-1

PLUG: AMP 172171-1
mating connector - Amp
housing - 172163-1
pins - 170361-1

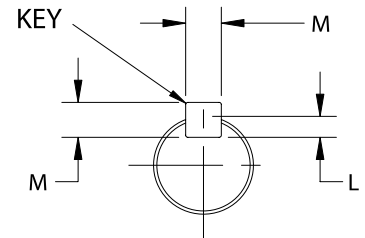
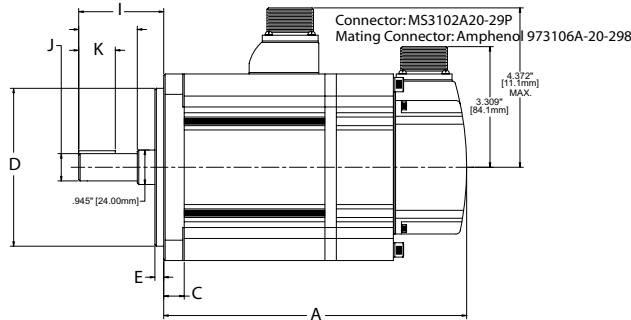


CONS
CBNS



Connector standard: MS3102A20-4P
Mating Connector: Amphenol MS3106A-20-4S
Connector brake: MS3102A20-15P
Mating Connector: Amphenol MS3106A-20-15S

Connector: MS3102A20-29P
Mating Connector: Amphenol 973106A-20-298



40 mm motor has no key way

The dimensional information found on these pages is not to be used for design purposes. For complete engineering controlled drawings, please refer to the web site or Power CD.

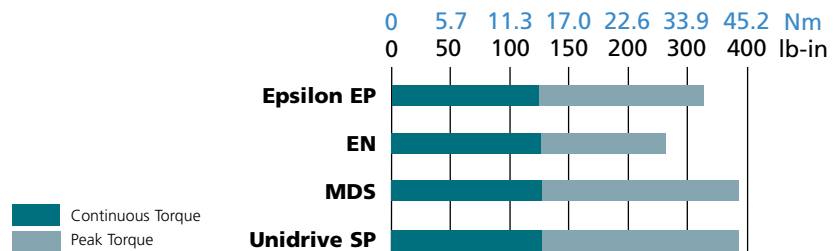
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Servomotors

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

MG MOTOR DIMENSIONS

English Dimensions inches (mm)	2"		3"		4"		
	MGE-205	MGE-208	MGE-316	MGE-340	MGE-455	MGE-490	MGE-4120
A Length Overall - Unbraked (Max)	5.55 (141)	6.75 (171.4)	7.24 (183.9)	10.24 (260.1)	8.61 (218.7)	11.11 (282.1)	13.61 (345.7)
A Length Overall - Braked (Max)	-	-	8.74 (222)	-	10.61 (269.5)	13.11 (332.9)	15.61 (396.5)
B Flange Square	2.25 (57.2)	2.25 (57.2)	3.31 (84.1)	3.31 (84.1)	5 (127)	5 (127)	5 (127)
C Flange Thickness	0.46 (11.7)	0.46 (11.7)	0.44 (11.2)	0.44 (11.2)	0.53 (13.5)	0.53 (13.5)	0.53 (13.5)
D Pilot Diameter	1.502 (38.15)	1.502 (38.15)	2.877 (73.08)	2.877 (73.08)	4.5 (114.3)	4.5 (114.3)	4.5 (114.3)
E Pilot Thickness	0.06 (1.6)	0.06 (1.6)	0.06 (1.6)	0.06 (1.6)	0.1 (2.5)	0.1 (2.5)	0.1 (2.5)
F Bolt Hole Diameter	0.205 (5.21)	0.205 (5.21)	0.233 (5.66)	0.233 (5.66)	0.375-16 unc	0.375-16 unc	0.375-16 unc
G Bolt Circle Diameter	2.625 (66.68)	2.625 (66.68)	3.875 (98.43)	3.875 (98.43)	5.875 (149.23)	5.875 (149.23)	5.875 (149.23)
H Signal Connector Height - Unbraked (Max)	2 (51)	2 (51)	2.5 (64)	2.5 (64)	3.2 (81.3)	3.2 (81.3)	3.7 (95)
H Signal Connector Height - Braked (Max)	-	-	2.5 (64)	2.7 (68)	3.3 (83)	3.3 (83)	3.3 (83)
I Shaft Length	1.2 (30.5)	1.2 (30.5)	1.2 (30.5)	1.2 (30.5)	1.9 (48.2)	1.9 (48.2)	1.9 (48.2)
J Shaft Diameter	0.375 (9.53)	0.375 (9.53)	0.4997 (12.7)	0.4997 (12.69)	0.6245 (15.862)	0.875 (22.23)	0.875 (22.225)

Shaft key Dimensions							
K Keyway Length (Min)	0.563 (14.3)	0.563 (14.3)	0.9 (22.9)	0.9 (22.9)	1.5 (38.1)	1.5 (38.1)	1.5 (38.1)
L Keyway Depth	0.3 (7.6)	0.3 (7.6)	0.42 (10.7)	0.42 (10.7)	0.51 (13)	0.77 (19.6)	0.77 (19.6)
M Keyway Width	0.127 (3.23)	0.127 (3.23)	0.1265 (3.2)	0.1265 (3.21)	0.189 (4.801)	0.189 (4.801)	0.189 (4.801)

Metric Dimensions inches (mm)	2"		3"		4"		
	MGM-205	MGM-208	MGM-316	MGM-340	MGM-455	MGM-490	MGM-4120
A Length Overall - Unbraked (Max)	5.49 (139.5)	6.69 (170)	7.24 (183.9)	10.24 (260.1)	8.59 (218.2)	11.09 (281.7)	13.59 (345.2)
A Length Overall - Braked (Max)	-	-	8.74 (222)	11.74 (298.2)	10.59 (269)	13.09 (332.5)	15.59 (396.0)
B Flange Square	66 (2.598)	66 (2.598)	3.5 (89)	3.5 (89)	4.76 (121)	4.76 (121)	4.76 (121)
C Flange Thickness	0.4 (10.2)	0.4 (10.2)	0.44 (11.2)	0.44 (11.2)	0.51 (13)	0.51 (13)	0.51 (13)
D Pilot Diameter	1.9685 (50)	1.969 (50)	3.15 (80.01)	3.15 (80.01)	4.331 (110.1)	4.331 (110.1)	4.331 (110.1)
E Pilot Thickness	0.12 (3)	0.12 (3)	0.12 (3)	0.12 (3)	0.12 (3)	0.12 (3)	0.12 (3)
F Bolt Hole Diameter	0.197 (5)	0.197 (5)	0.276 (7.01)	0.276 (7.01)	0.375-16 unc	0.375-16 unc	0.375-16 unc
G Bolt Circle Diameter	3.15 (80)	3.15 (80)	3.937 (100)	3.937 (100)	5.709 (145)	5.709 (145)	5.709 (145)
H Signal Connector Height - Unbraked (Max)	2 (51)	2 (51)	2.5 (64)	2.5 (64)	3.2 (81.3)	3.2 (81.3)	3.2 (81.3)
H Signal Connector Height - Braked (Max)	-	-	2.5 (64)	2.7 (68)	3.3 (83)	3.3 (83)	3.3 (83)
I Shaft Length	1.2 (30.5)	1.2 (30.5)	1.2 (30.5)	1.2 (30.5)	1.99 (50.5)	1.99 (50.5)	1.99 (50.5)
J Shaft Diameter	0.315 (8)	0.315 (8)	0.5512 (14)	0.5512 (14)	0.748 (19)	0.9449 (24)	0.9449 (24)

Shaft key Dimensions							
K Keyway Length (Min)	0.551 (14)	0.551 (14)	0.79 (20)	0.79 (20)	1.58 (40)	1.46 (37)	1.46 (37)
L Keyway Depth	0.26 (6.7)	0.26 (6.7)	0.43 (10.9)	0.43 (10.9)	0.61 (15.49)	0.784 (19.9)	0.784 (19.9)
M Keyway Width	0.0787 (2)	0.0787 (2)	0.2 (5.08)	0.2 (5.08)	0.236 (6)	0.3149 (7.998)	0.3149 (7.998)

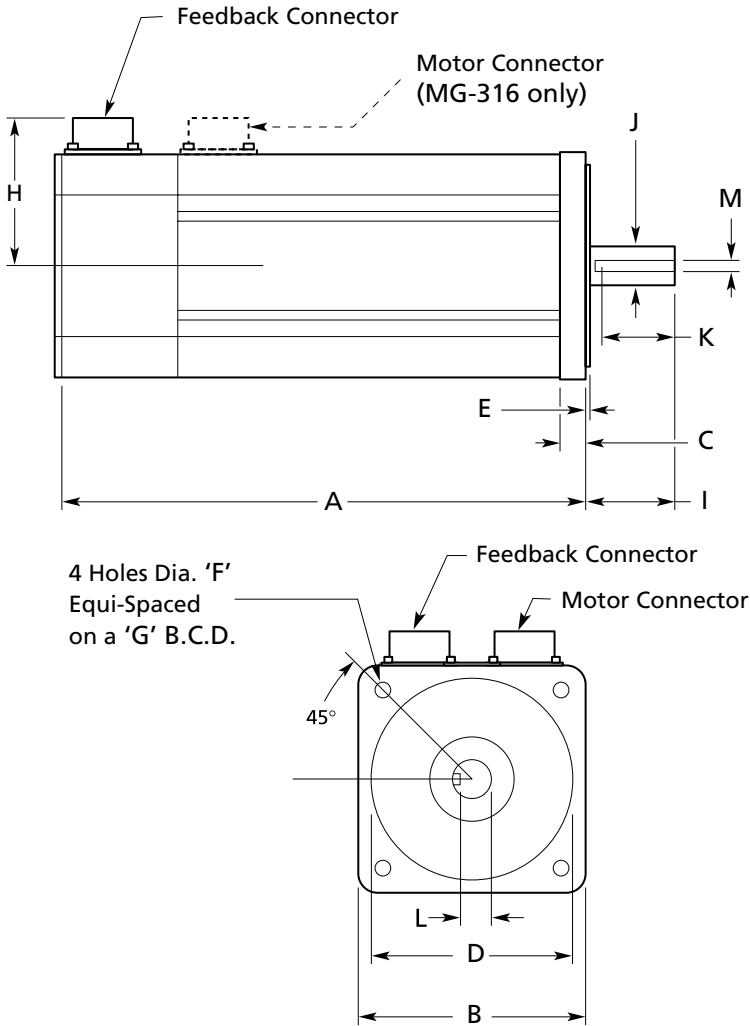
Servomotors

MG MOTOR DIMENSIONS

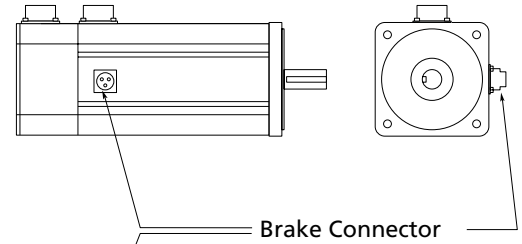
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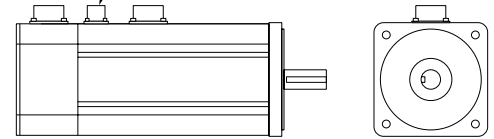
Servomotors



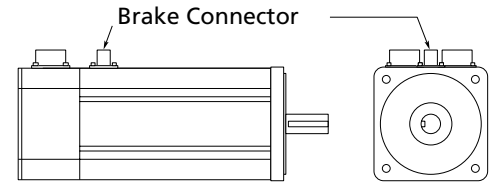
MG-316



MG-340



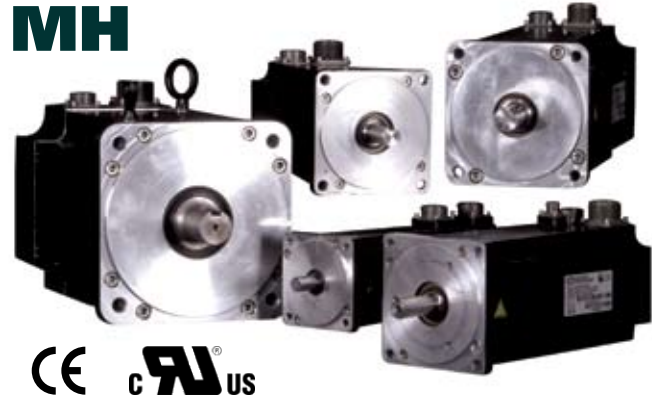
MG-455—MG-4120



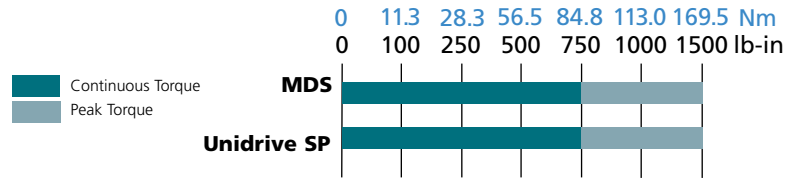
MH MOTOR—460V

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



Servomotors



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-sec ² kg-cm ²	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

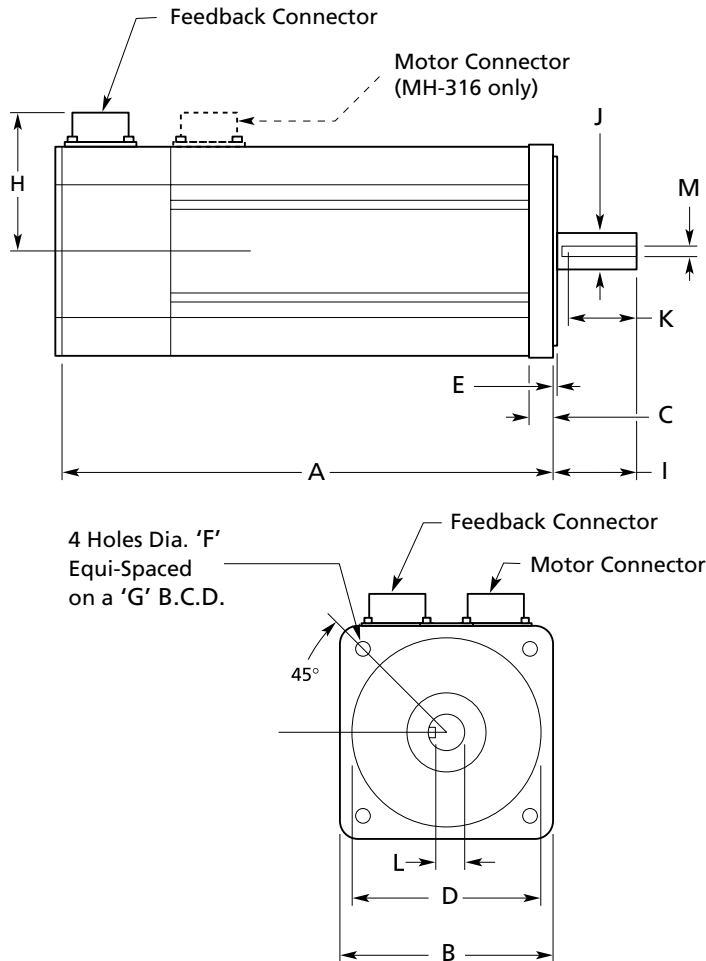
Motor Frame Size	Volt DC	Current (A)	Static Torque		Mechanical Disengagement Time-Brake Released ms	Mechanical Engagement Time-Brake Holding ms	Added Inertia		
			lb-in	Nm			lb-in-sec ²	kg-cm ²	
3"	24	0.52	60	6.78	250	100	0.00015	0.16935	
4"	24	0.088	230	27.12	250	100	0.0004112	0.464245	
6"	24	1.13	360	40.68	100	50	0.00015	2.56283	
8"	Consult Factory								

MH MOTOR DIMENSIONS

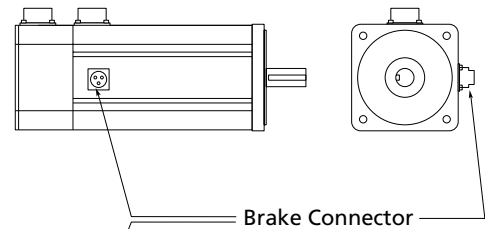
Go to **Power CD** for complete data

The dimensional information found on these pages is not to be used for design purposes. For complete engineering controlled drawings, please refer to the web site or Power CD.

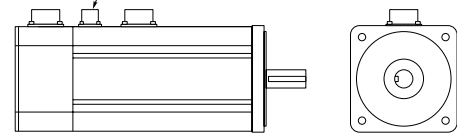
Servomotors



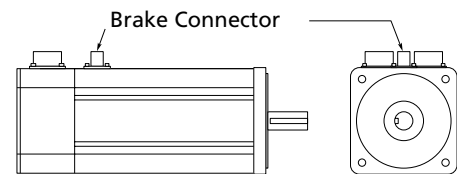
MH-316



MH-340



MH-455—MG-8750



MH Motor Dimensions

(Note: English and Metric 3" and 4" MH motors share the same dimensions as MG motors.)

Metric Dimensions inches (mm)	6"			8"		
	MHM-6120	MHM-6200	MHM-6300	MHM-8250	MHM-8500	MHM-8750
A Length Overall - Unbraked (Max)	11.29 (286.7)	13.99 (355.3)	16.99 (423.9)	12.65 (321.3)	15.65 (397.5)	21.65 (549.8)
A Length Overall - Braked (Max)	13.99 (355.3)	16.69 (423.88)	19.69 (492.48)	-	-	-
B Flange Square	5.59 (142)	5.59 (142)	5.59 (142)	7.48 (190)	7.48 (190)	7.48 (190)
C Flange Thickness	0.71 (18)	0.71 (18)	0.71 (18)	1 (25.4)	1 (25.4)	1 (25.4)
D Pilot Diameter	5.118 (130)	5.118 (130)	5.118 (130)	7.09 (180)	7.09 (180)	7.09 (180)
E Pilot Thickness	0.14 (3.6)	0.14 (3.6)	0.14 (3.6)	0.16 (4)	0.16 (4)	0.16 (4)
F Bolt Hole Diameter	4.33 (11)	4.33 (11)	4.33 (11)	0.551 (14)	0.551 (14)	0.551 (14)
G Bolt Circle Diameter	6.496 (165)	6.496 (165)	6.496 (165)	8.46 (215)	8.464 (215)	8.464 (215)
H Signal Connector Height - No Brake (Max)	3.7 (95)	3.7 (95)	3.7 (95)	4.84 (123)	4.84 (123)	4.84 (123)
H Signal Connector Height - Brake (Max)	3.7 (95)	3.7 (95)	3.7 (95)	-	-	-
I Shaft Length	1.99 (50.5)	1.99 (50.5)	1.99 (50.5)	2.3 (58.5)	2.3 (58.5)	3.23 (82)
J Shaft Diameter	0.9449 (24)	0.9449 (24)	1.2598 (32)	1.26 (32)	1.259 (32)	1.89 (48)
Shaft key Dimensions						
K Keyway Length (Min)	1.46 (37)	1.46 (37)	1.46 (37)	1.54 (39)	1.54 (39)	2.54 (64.5)
L Keyway Depth	0.78 (19.9)	0.78 (19.9)	1.06 (26.9)	1.06 (26.9)	1.06(26.9)	1.67 (42.39)
M Keyway Width	0.3149 (7.998)	0.3149 (7.998)	0.3937 (10)	0.3937 (10)	0.394 (10)	0.55 (14)