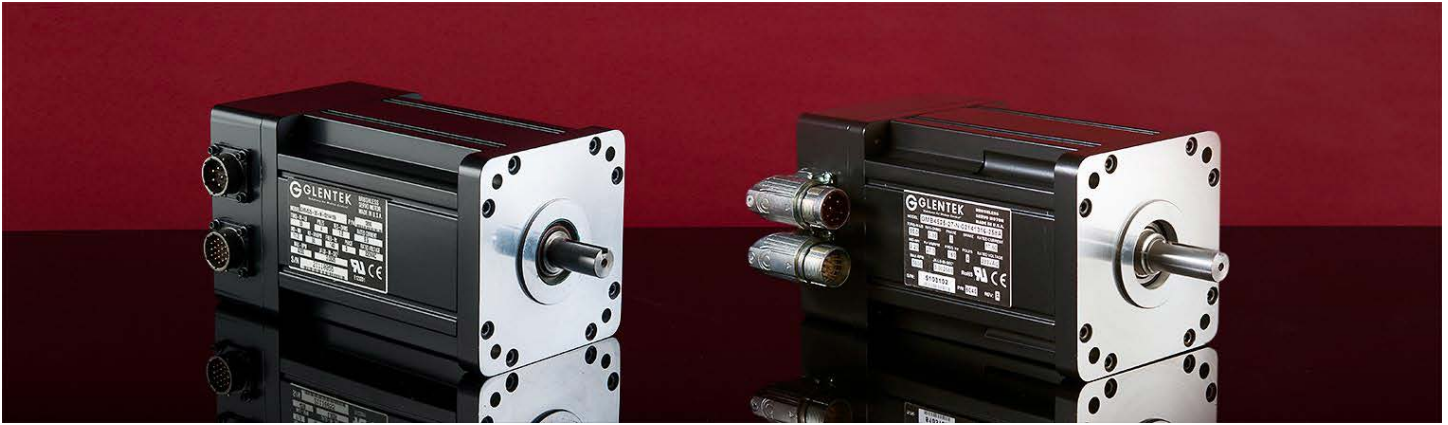


GLENTEK BRUSHLESS SERVO MOTORS GMB4500 SERIES

Revision: 2/14/2020



Glentek's GMB4500 series of high performance, permanent magnet Brushless servo motors utilize high-energy Neodymium-Iron- Boron (NdFeB) magnets, which provide more torque in a smaller package with higher dynamic performance than traditional ferrite magnet designs. In addition, due to high torque to inertia ratio of these motors, they are ideal for applications which require high acceleration and deceleration characteristics or where the physical size of the motor is a major concern.

- Continuous Torque Range:
55 Lb-in (6.21 Nm) to 116.0 Lb-in (13.11 Nm)
- Peak Torque Range:
165.0 Lb-in (18.63 Nm) to 348.0 Lb-in (39.33 Nm)

GMB4500 SERIES FEATURES

- High-energy Neodymium-Iron-Boron (NdFeB) magnet design with low inertia rotors provides a high dynamic performance.
- Special design provides ultra smooth operation (i.e. low cogging torque) at all speeds.
- Worldwide standard mounting configurations are available (English, Metric, NEMA 42, and NEMA 56C).
Optional custom mounting configurations are available to meet virtually any requirement.
- Normally closed thermal switch provides over temperature protection.
- Encoder with commutation tracks, brushless resolvers or Hall sensors are standard feedback devices offered
- Various electrical windings are available as standard to suit both low (120 VAC) and high (230 VAC) voltage drives in order to provide optimum speed and torque characteristics. Optional custom electrical windings are available.
- Shaft Keyway.
- Class H insulation standard.
- Standard operating temperature is dependent on the feedback device installed. Motors with resolver feedback can be specially configured to operate down to -40°C.
- Optional 24VDC holding brakes are available.
- Constructed to withstand the toughest industrial environment with rugged, high performance bearings and TENV construction with IP65 sealing standard
- RoHS compliant
- CE marked.
- UL Recognized Component for US and Canada.

GMB4500 SERIES ENVIRONMENTAL CONDITIONS

- Storage Temperature:** -20°C to 70°C
- Operating Temperature:** Standard: -20°C to 40°C, without derating, derate torque 10% per 10°C above 40°C
Special: -40°C to 40°C, without derating, derate torque 10% per 10°C above 40°C
- Humidity:** 5% to 95% relative humidity, non-condensing
- Altitude:** Up to 1000m without derating, derate torque 10% per 1000m above 1000m

GMB4500 SERIES SELECTION TABLE

K_t = Torque Constant • K_v = BEMF = V_{RMS} Phase-to-Phase/1000 RPM • R_A = Phase-to-Phase Resistance • L_A = Phase-to-Phase Inductance

Model Number	Power @ Rated Speed		Speed, RPM		Cont. Stall Rating			Peak Stall Rating			K_t		K_v	R_A	L_A	Rotor Inertia	
	HP	KW	Max	Rated	Lb-in	Nm	Amps	Lb-in	Nm	Amps	Lb-in/A	Nm/A	V	Ω	mH	Lb-in-sec ²	Kg-m ²
GMB4525-34	2.79	2.08	5000	4000	55	6.21	14.3	165.0	18.63	42.9	3.84	0.43	34	0.6	3.5	0.0026	0.000294
GMB4525-55	1.95	1.46	3500	2800	55	6.21	8.9	165.0	18.63	26.7	6.21	0.70	55	1.8	11.2	0.0026	0.000294
GMB4525-110	0.98	0.73	1800	1400	55	6.21	4.4	165.0	18.63	13.2	12.43	1.40	110	7.2	39.8	0.0026	0.000294
GMB4550-37	4.21	3.14	5000	4000	83	9.38	19.9	249.0	28.14	59.7	4.18	0.47	37	0.2	1.8	0.0051	0.000576
GMB4550-55	2.95	2.20	3500	2800	83	9.38	13.4	249.0	28.14	40.2	6.21	0.70	55	0.6	4.9	0.0051	0.000576
GMB4550-74	2.11	1.57	2500	2000	83	9.38	9.9	249.0	28.14	29.7	8.36	0.94	74	1.1	8.3	0.0051	0.000576
GMB4550-110	1.47	1.10	1800	1400	83	9.38	6.7	249.0	28.14	20.1	12.43	1.40	110	2.6	17	0.0051	0.000576
GMB4560-50	4.06	3.03	4000	3200	100	11.30	17.7	300.0	33.90	53.1	5.65	0.64	50	0.4	2.8	0.0064	0.000727
GMB4560-90	2.16	1.61	2100	1700	100	11.30	9.8	300.0	33.90	29.4	10.17	1.15	90	1.1	9.7	0.0064	0.000727
GMB4575-35	5.89	4.39	5000	4000	116	13.11	29.3	348.0	39.33	87.9	3.95	0.45	35	0.1	1.1	0.0074	0.000836
GMB4575-55	4.12	3.07	3500	2800	116	13.11	18.7	348.0	39.33	56.1	6.21	0.70	55	0.3	2.5	0.0074	0.000836
GMB4575-70	3.24	2.42	2700	2200	116	13.11	14.7	348.0	39.33	44.1	7.91	0.89	70	0.5	4.4	0.0074	0.000836
GMB4575-110	2.06	1.54	1800	1400	116	13.11	9.3	348.0	39.33	27.9	12.43	1.40	110	1.7	13.4	0.0074	0.000836

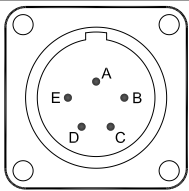
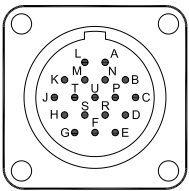
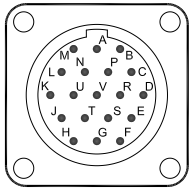
NOTE: All ratings based on a 25°C ambient temperature with the motor face mounted to a 14" x 14" x 3/4" aluminum heatsink. The values for Max and Rated Speed are for motors operated with a 230 VAC power supply

BRAKE OPTION

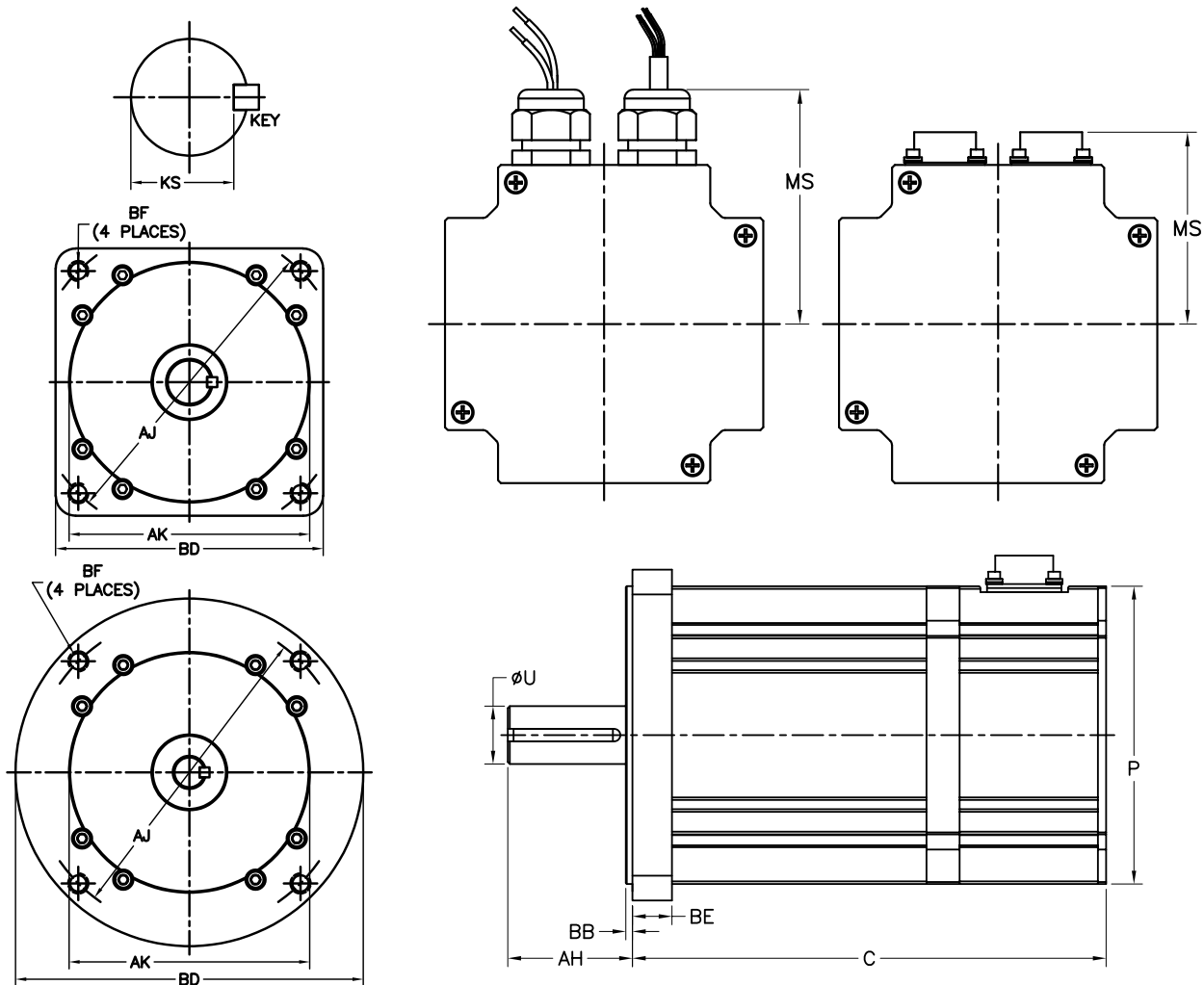
Brake requires 24V DC input voltage. The values for "Extension" represent the nominal maximum length that the brake will add to the motor. For some models, the extension will be less. Please contact one of our sales engineers for the exact values.

Extension	Torque		Power
in. (mm)	Lb-in	Nm	Watts
2.51 (64)	159	18	24

CONNECTORS & PIN-OUT INFORMATION

5-Pin MS connector MS3112E14-5P		18-Pin MS connector MS3112E14-18P		19-Pin MS connector MS3112E14-19P				
 <p style="text-align: center;">FRONT VIEW</p> <p style="text-align: center;">Straight Mating Connector, MS3116F14-5S</p>		 <p style="text-align: center;">FRONT VIEW</p> <p style="text-align: center;">Straight Mating Connector, MS3116F14-18S</p>		 <p style="text-align: center;">FRONT VIEW</p> <p style="text-align: center;">Straight Mating Connector, MS3116F14-19S</p>				
Pin#	Function	Pin#	Function	Pin#	Function			
A	Phase R	A	Resolver	A	Resolver	Encoder with Commutation Track		
B	Phase S	B	Brake +	B			Temperature Switch	Temperature Switch
C	Phase T	C	Brake -	C	Temperature Switch	Temperature Switch		
D	Case Ground	D	Brake Shield	D	Resolver Shield	Encoder Shield		
<p style="text-align: center;">Special mounting options are available. Please contact a Glentek Sales Engineer for detailed information.</p>		E	Resolver Shield	E	N/C	Encoder +5VDC		
		F	Reference	F	Since Ground	F	N/C	Encoder Common
		G	Cosine Ground	G	Cosine Ground	G	Cosine Ground	Channel A+
		H	Sine	H	Sine	H	Cosine +	Channel A-
		J	N/C	J	Sine Ground	J	Sine Ground	Channel B+
		K	N/C	K	N/C	K	Reference Ground	Channel B-
		L	N/C	L	N/C	L	Reference	Channel Z+
		M	N/C	M	N/C	M	N/C	Channel Z-
		N	Temperature Switch	N	Temperature Switch	M	N/C	Comm. Track S1+
		P	N/C	P	N/C	N	N/C	Comm. Track S1-
		R	Reference Ground	R	Reference Ground	P	N/C	Comm. Track S2+
		S	Cosine	S	Cosine	R	N/C	Comm. Track S2-
		T	N/C	T	N/C	S	N/C	Comm. Track S3+
		U	Temperature Switch	U	Temperature Switch	T	N/C	Comm. Track S3-
				U	Brake +	Brake +		
				V	Brake -	Brake -		

GMB4500 SERIES DIMENSIONS



Model Number	Kg (lbs.)	C (max)	P (max)	Shaft				Flange/Face				Mounting Hole		
				AH	U	KEY	KS	AK	BB	BD	BE	AJ	BF Dia.	Tap
GMB4525-XXX-M	8.9 (19.6)	218.3 (8.6)	114.3 (4.50)	50.00 (1.97)	19.00 (0.748)	M6 SQ. X 40	15.4 - 15.5 (4.331)	110.00 (4.331)	3.00 (0.12)	114.30 (4.50)	14.7 (0.58)	130.00 (5.118)	9.19 (0.362)	THRU
GMB4550-XXX-M	12.4 (27.3)	280.5 (11.0)	114.3 (4.50)	50.00 (1.97)	24.00 (0.945)	M8 X M7 X 38	19.8 - 20.0 (4.331)	110.00 (4.331)	3.00 (0.12)	114.30 (4.50)	14.7 (0.58)	130.00 (5.118)	9.19 (0.362)	THRU
GMB4560-XXX-M	14.0 (30.8)	305.4 (12.0)	114.3 (4.50)	50.00 (1.97)	24.00 (0.945)	M8 X M7 X 38	19.8 - 20.0 (4.331)	110.00 (4.331)	3.00 (0.12)	114.30 (4.50)	14.7 (0.58)	130.00 (5.118)	9.19 (0.362)	THRU
GMB4575-XXX-M	15.9 (35.0)	345.3 (13.6)	114.3 (4.50)	50.00 (1.97)	24.00 (0.945)	M8 X M7 X 38	19.8 - 20.0 (4.331)	110.00 (4.331)	3.00 (0.12)	114.30 (4.50)	14.7 (0.58)	130.00 (5.118)	9.19 (0.362)	THRU

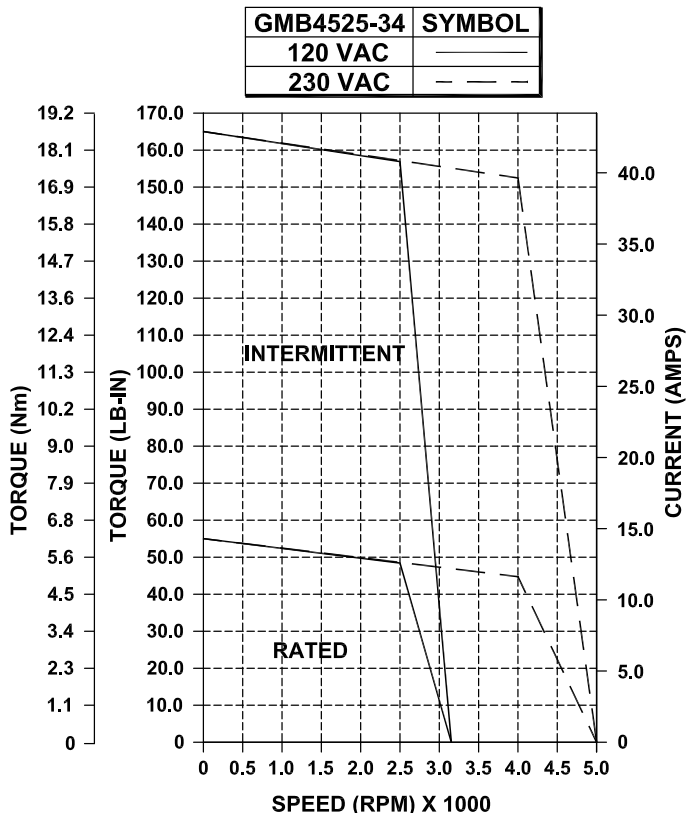
Note: Dimensions are in **mm** (inches)

Model Number	Lbs. (Kg)	C (max)	P (max)	Shaft				Flange/Face				Mounting Hole		
				AH	U	KEY	KS	AK	BB	BD	BE	AJ	BF Dia.	Tap
GMB4525-XXX-E	19.6 (8.9)	8.59 (218.2)	4.50 (114.3)	1.88 (47.8)	0.6250 (15.88)	.188 SQ. X 1.50	.507 - .517 (114.30)	4.500 (2.54)	0.100 (127.0)	5.00 (15.24)	0.60 (149.23)	5.875 (149.23)		3/8-16 THRU
GMB4550-XXX-E	27.3 (12.4)	11.04 (280.4)	4.50 (114.3)	1.88 (47.8)	0.8750 (22.23)	.188 SQ. X 1.50	.761 - .771 (114.30)	4.500 (2.54)	0.100 (127.0)	5.00 (15.24)	0.60 (149.23)	5.875 (149.23)		3/8-16 THRU
GMB4560-XXX-E	31.0 (14.1)	12.02 (305.3)	4.50 (114.3)	1.88 (47.8)	0.8750 (22.23)	.188 SQ. X 1.50	.761 - .771 (114.30)	4.500 (2.54)	0.100 (127.0)	5.00 (15.24)	0.60 (149.23)	5.875 (149.23)		3/8-16 THRU
GMB4575-XXX-E	35.0 (15.9)	13.59 (345.2)	4.50 (114.3)	1.88 (47.8)	0.8750 (22.23)	.188 SQ. X 1.50	.761 - .771 (114.30)	4.500 (2.54)	0.100 (127.0)	5.00 (15.24)	0.60 (149.23)	5.875 (149.23)		3/8-16 THRU
NEMA 42				1.32 (33.5)	0.6250 (15.88)	.188 SQ. X 1.50	.507 - .517 (55.58)	2.188 (2.54)	0.10 (114.3)	4.50 (127.0)	0.60 (15.24)	4.950 (125.73)	0.300 (7.62)	THRU
NEMA 56C				2.06 (52.3)	0.6250 (15.88)	.188 SQ. X 1.50	.507 - .517 (114.30)	4.500 (3.05)	0.12 (165.1)	6.50 (15.49)	0.61 (15.49)	5.875 (149.23)		3/8-16 THRU

Note: Dimensions are in **inches** (mm)

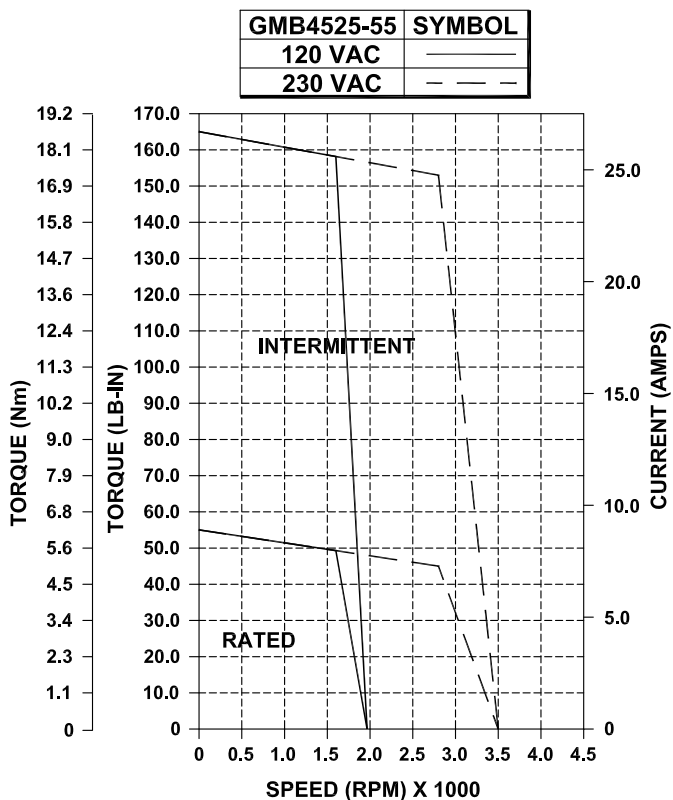
Connectors	5-Pin	18-Pin	19-Pin	Strain Relief
MS	2.71	2.71	2.71	3.32
inches (mm)	(68.9)	(68.9)	(68.9)	(84.2)
MS	68.9	68.9	68.9	84.2
mm (inches)	(2.71)	(2.71)	(2.71)	(3.32)

GMB4525-34 PERFORMANCE DATA



Power @ Rated Speed	HP	2.79
	KW	1.95
Speed, RPM	Max.	5000
	Rated	4000
Cont. Stall Rating	Lb-in	55
	Nm	6.21
	Amps	14.3
Peak Stall Rating	Lb-in	165.0
	Nm	18.63
	Amps	42.9
Torque Constant	Lb-in/A	3.84
	Nm/A	0.43
Back EMF	V/Krpm	34
Resistance	Ohms	0.6
Inductance	mH	3.5
Armature Inertia	Lb-in-sec²	0.0026
	Kg-m²	0.000294

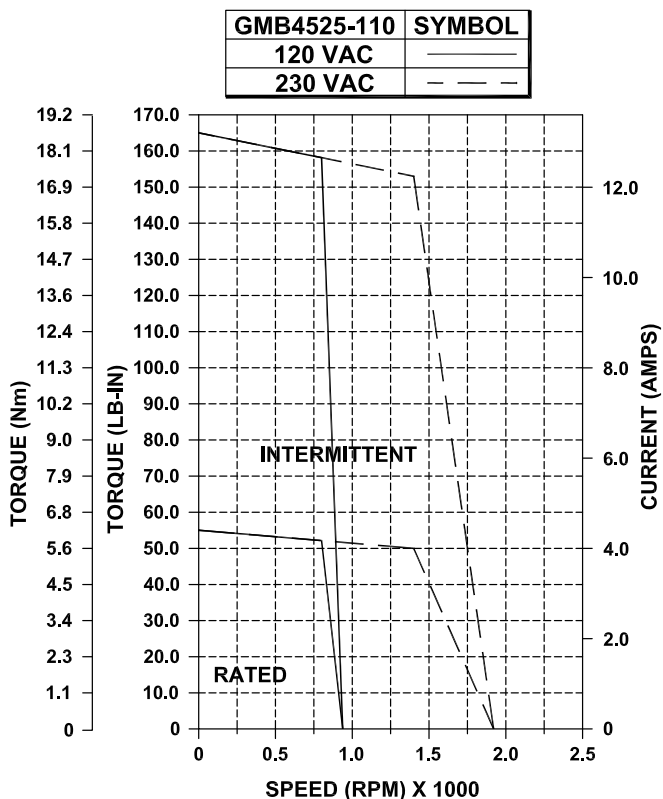
GMB4525-55 PERFORMANCE DATA



Power @ Rated Speed	HP	1.95
	KW	1.46
Speed, RPM	Max.	3500
	Rated	2800
Cont. Stall Rating	Lb-in	55
	Nm	6.21
	Amps	8.9
Peak Stall Rating	Lb-in	165.0
	Nm	18.63
	Amps	26.7
Torque Constant	Lb-in/A	6.21
	Nm/A	0.70
Back EMF	V/Krpm	55
Resistance	Ohms	1.8
Inductance	mH	11.2
Armature Inertia	Lb-in-sec²	0.0026
	Kg-m²	0.000294

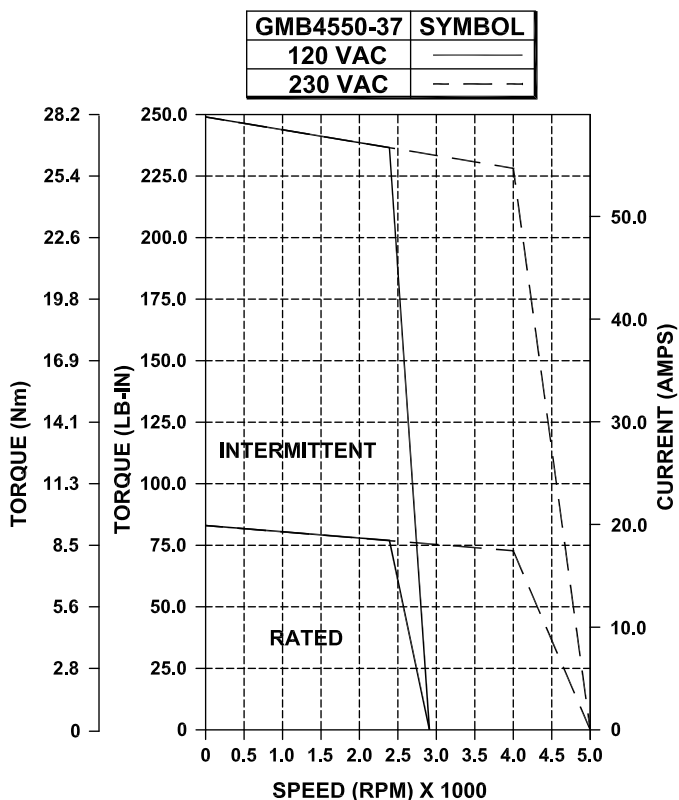
NOTE: All ratings based on a 25°C ambient temperature with the motor face mounted to a 14" x 14" x 3/4" aluminum heatsink.

GMB4525-110 PERFORMANCE DATA



Power @ Rated Speed	HP	0.98
	KW	0.73
Speed, RPM	Max.	1800
	Rated	1400
Cont. Stall Rating	Lb-in	55
	Nm	6.21
	Amps	4.4
Peak Stall Rating	Lb-in	165.0
	Nm	18.63
	Amps	13.2
Torque Constant	Lb-in/A	12.43
	Nm/A	1.40
Back EMF	V/Krpm	110
Resistance	Ohms	7.2
Inductance	mH	39.8
Armature Inertia	Lb-in-sec²	0.0026
	Kg-m²	0.00294

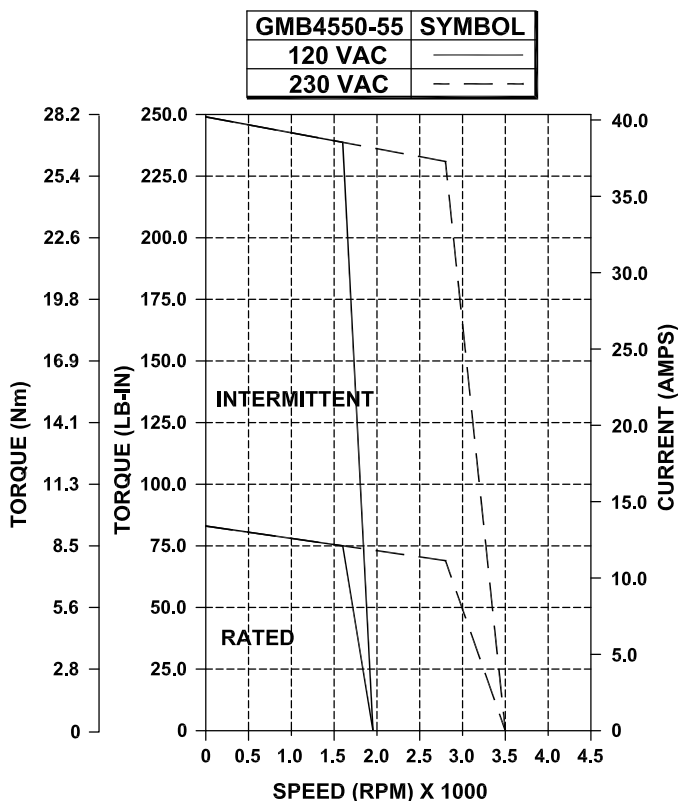
GMB4550-37 PERFORMANCE DATA



Power @ Rated Speed	HP	4.21
	KW	3.14
Speed, RPM	Max.	5000
	Rated	4000
Cont. Stall Rating	Lb-in	83
	Nm	9.38
	Amps	19.9
Peak Stall Rating	Lb-in	249.0
	Nm	28.14
	Amps	59.7
Torque Constant	Lb-in/A	4.18
	Nm/A	0.47
Back EMF	V/Krpm	37
Resistance	Ohms	0.2
Inductance	mH	1.8
Armature Inertia	Lb-in-sec²	0.0051
	Kg-m²	0.000576

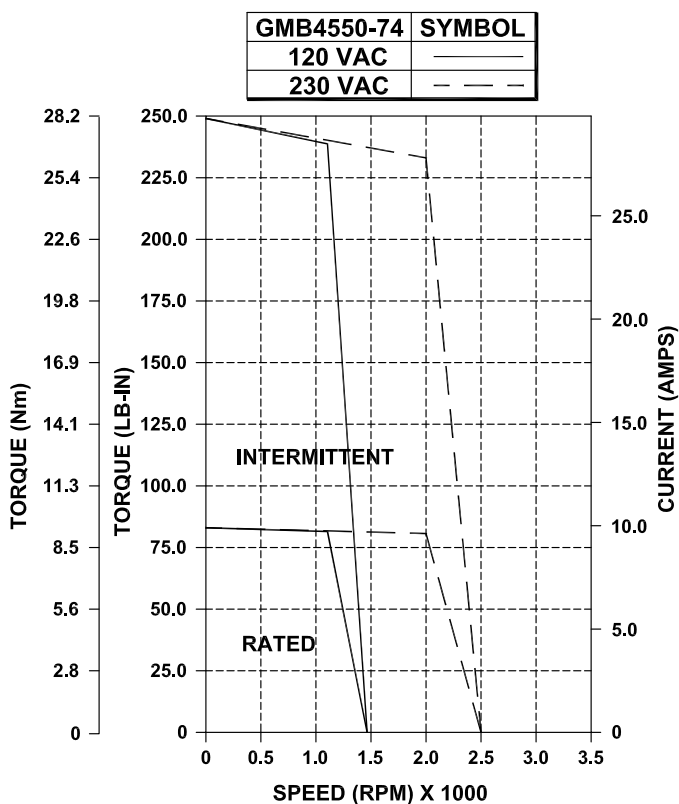
NOTE: All ratings based on a 25°C ambient temperature with the motor face mounted to a 14" x 14" x 3/4" aluminum heatsink.

GMB4550-55 PERFORMANCE DATA



Power @ Rated Speed	HP	2.95
	KW	2.20
Speed, RPM	Max.	3500
	Rated	2800
Cont. Stall Rating	Lb-in	83
	Nm	9.38
	Amps	13.4
Peak Stall Rating	Lb-in	249.0
	Nm	28.14
	Amps	40.2
Torque Constant	Lb-in/A	6.21
	Nm/A	0.70
Back EMF	V/Krpm	55
Resistance	Ohms	0.6
Inductance	mH	4.9
Armature Inertia	Lb-in-sec²	0.0051
	Kg-m²	0.000576

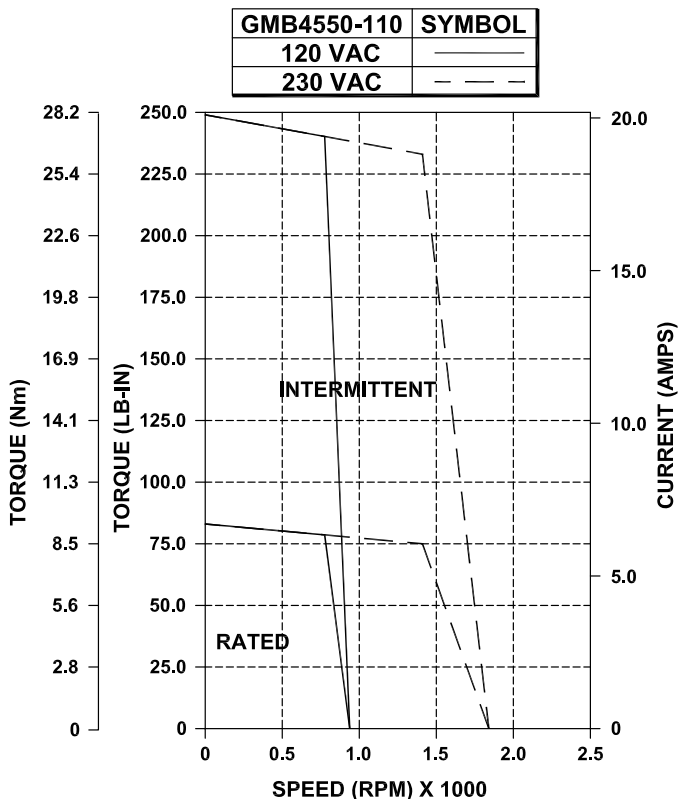
GMB4550-74 PERFORMANCE DATA



Power @ Rated Speed	HP	2.11
	KW	1.57
Speed, RPM	Max.	2500
	Rated	2000
Cont. Stall Rating	Lb-in	83
	Nm	9.38
	Amps	9.9
Peak Stall Rating	Lb-in	249.0
	Nm	28.14
	Amps	29.7
Torque Constant	Lb-in/A	8.36
	Nm/A	0.94
Back EMF	V/Krpm	74
Resistance	Ohms	1.1
Inductance	mH	8.3
Armature Inertia	Lb-in-sec²	0.0051
	Kg-m²	0.000576

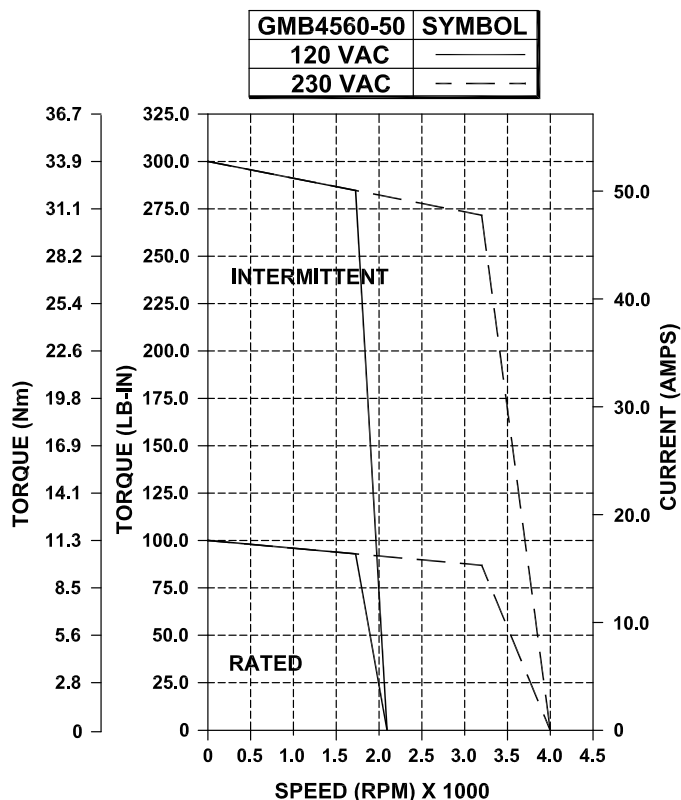
NOTE: All ratings based on a 25°C ambient temperature with the motor face mounted to a 14" x 14" x 3/4" aluminum heatsink.

GMB4550-110 PERFORMANCE DATA



Power @ Rated Speed	HP	1.47
	KW	1.10
Speed, RPM	Max.	1800
	Rated	1400
Cont. Stall Rating	Lb-in	83
	Nm	9.38
	Amps	6.7
Peak Stall Rating	Lb-in	249.0
	Nm	28.14
	Amps	20.1
Torque Constant	Lb-in/A	12.43
	Nm/A	1.40
Back EMF	V/Krpm	110
Resistance	Ohms	2.6
Inductance	mH	17
Armature Inertia	Lb-in-sec²	0.0051
	Kg-m²	0.000576

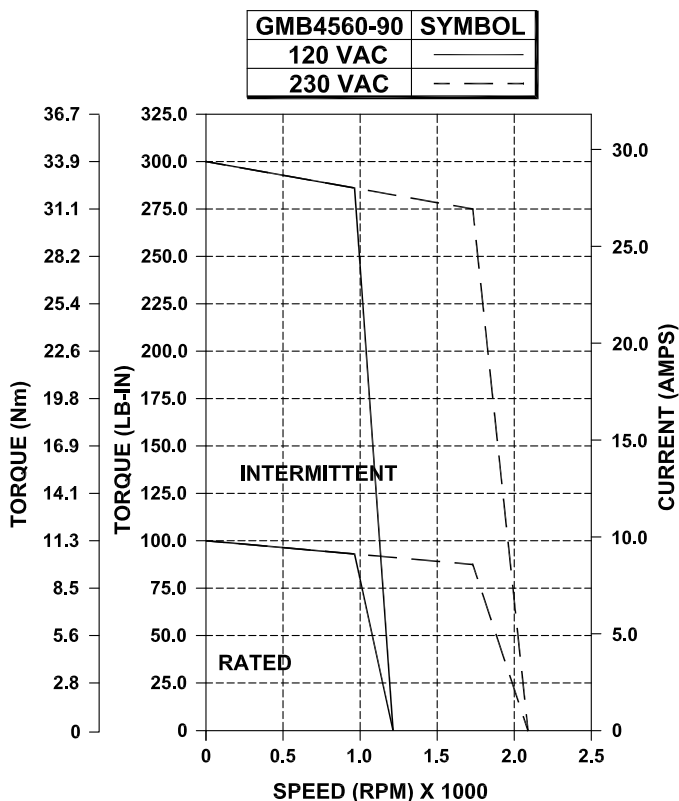
GMB4560-50 PERFORMANCE DATA



Power @ Rated Speed	HP	4.06
	KW	3.03
Speed, RPM	Max.	4000
	Rated	3200
Cont. Stall Rating	Lb-in	100
	Nm	11.30
	Amps	17.7
Peak Stall Rating	Lb-in	300.0
	Nm	33.90
	Amps	53.1
Torque Constant	Lb-in/A	5.65
	Nm/A	0.64
Back EMF	V/Krpm	50
Resistance	Ohms	0.4
Inductance	mH	2.8
Armature Inertia	Lb-in-sec²	0.0064
	Kg-m²	0.000727

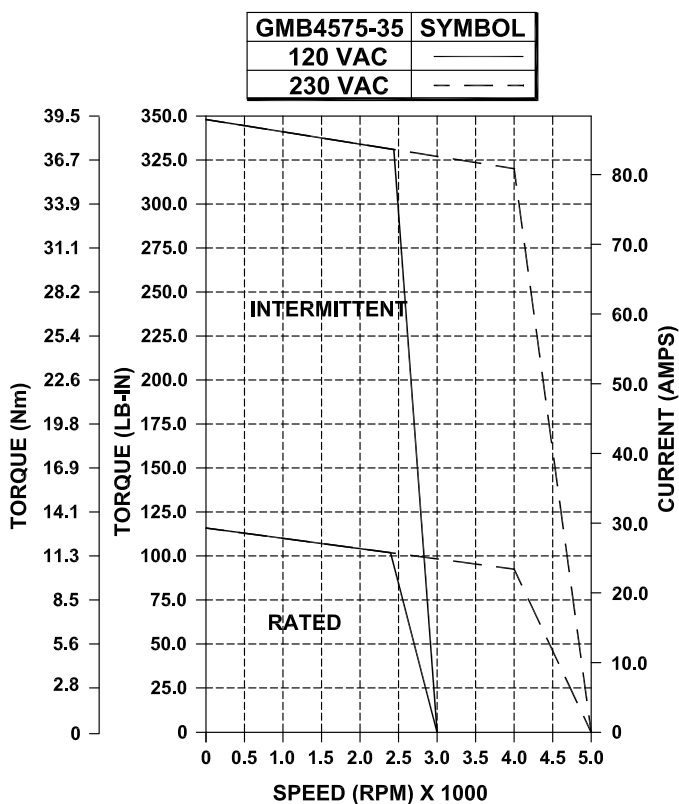
NOTE: All ratings based on a 25°C ambient temperature with the motor face mounted to a 14" x 14" x 3/4" aluminum heatsink.

GMB4560-90 PERFORMANCE DATA



Power @ Rated Speed	HP	2.16
	KW	1.61
Speed, RPM	Max.	2100
	Rated	1700
Cont. Stall Rating	Lb-in	100
	Nm	11.30
	Amps	9.8
Peak Stall Rating	Lb-in	300.0
	Nm	33.90
	Amps	29.4
Torque Constant	Lb-in/A	10.17
	Nm/A	1.15
Back EMF	V/Krpm	90
Resistance	Ohms	1.1
Inductance	mH	9.7
Armature Inertia	Lb-in-sec²	0.0064
	Kg-m²	0.000727

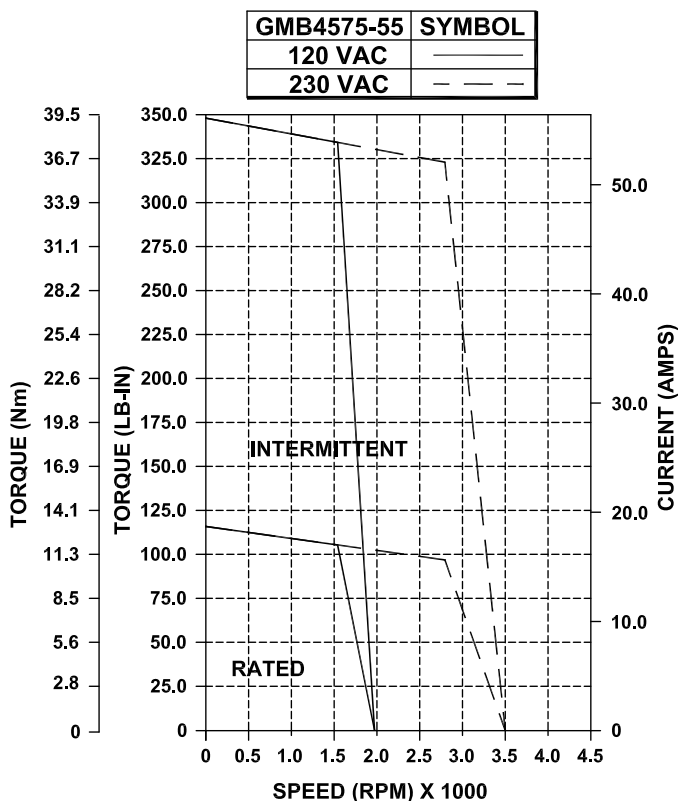
GMB4575-35 PERFORMANCE DATA



Power @ Rated Speed	HP	5.89
	KW	4.39
Speed, RPM	Max.	5000
	Rated	4000
Cont. Stall Rating	Lb-in	116
	Nm	13.11
	Amps	29.3
Peak Stall Rating	Lb-in	348.0
	Nm	39.33
	Amps	87.9
Torque Constant	Lb-in/A	3.95
	Nm/A	0.45
Back EMF	V/Krpm	35
Resistance	Ohms	0.1
Inductance	mH	1.1
Armature Inertia	Lb-in-sec²	0.0074
	Kg-m²	0.000836

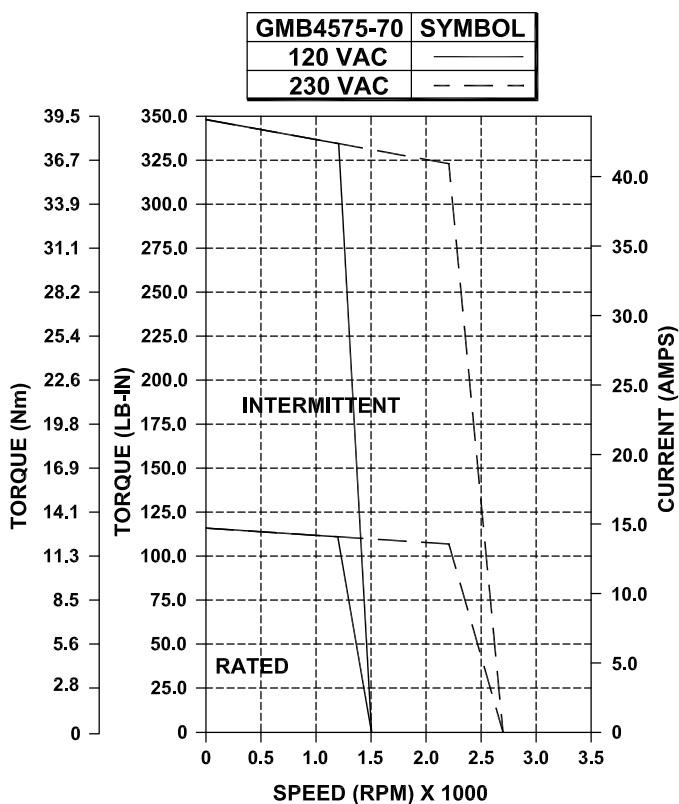
NOTE: All ratings based on a 25°C ambient temperature with the motor face mounted to a 14" x 14" x 3/4" aluminum heatsink.

GMB4575-55 PERFORMANCE DATA



Power @ Rated Speed	HP	4.12
	KW	3.07
Speed, RPM	Max.	3500
	Rated	2800
Cont. Stall Rating	Lb-in	116
	Nm	13.11
	Amps	18.7
Peak Stall Rating	Lb-in	348.0
	Nm	39.33
	Amps	56.1
Torque Constant	Lb-in/A	6.21
	Nm/A	0.70
Back EMF	V/Krpm	55
Resistance	Ohms	0.3
Inductance	mH	2.5
Armature Inertia	Lb-in-sec²	0.0074
	Kg-m²	0.000836

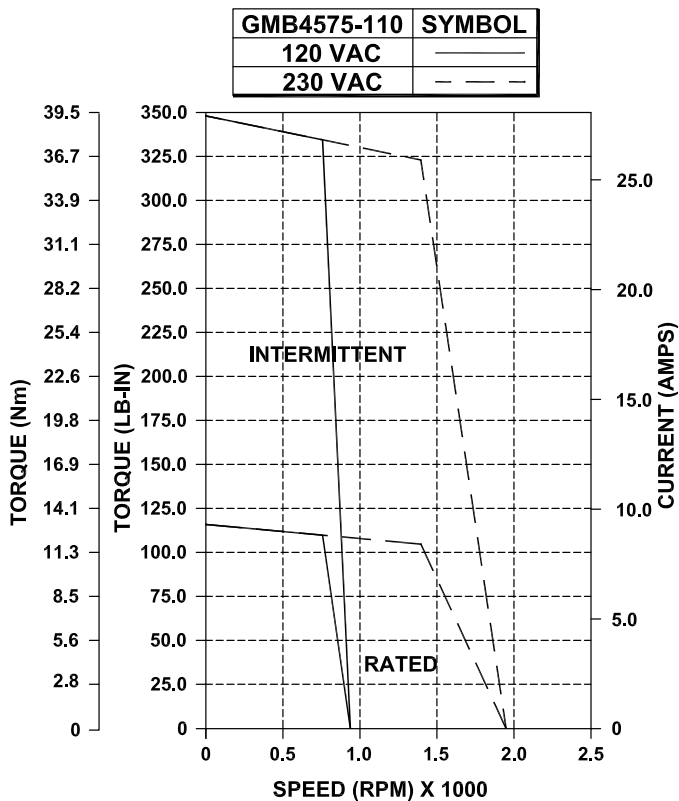
GMB4575-70 PERFORMANCE DATA



Power @ Rated Speed	HP	3.24
	KW	2.42
Speed, RPM	Max.	2700
	Rated	2200
Cont. Stall Rating	Lb-in	116
	Nm	13.11
	Amps	14.7
Peak Stall Rating	Lb-in	348.0
	Nm	39.33
	Amps	44.1
Torque Constant	Lb-in/A	7.91
	Nm/A	0.89
Back EMF	V/Krpm	70
Resistance	Ohms	0.5
Inductance	mH	4.4
Armature Inertia	Lb-in-sec²	0.0074
	Kg-m²	0.000836

NOTE: All ratings based on a 25°C ambient temperature with the motor face mounted to a 14" x 14" x 3/4" aluminum heatsink.

GMB4575-110 PERFORMANCE DATA



Power @ Rated Speed	HP	2.06
	KW	1.54
Speed, RPM	Max.	1800
	Rated	1400
Cont. Stall Rating	Lb-in	116
	Nm	13.11
	Amps	9.3
Peak Stall Rating	Lb-in	348.0
	Nm	39.33
	Amps	27.9
Torque Constant	Lb-in/A	12.43
	Nm/A	1.40
Back EMF	V/Krpm	110
Resistance	Ohms	1.7
Inductance	mH	13.4
Armature Inertia	Lb-in-sec²	0.0074
	Kg-m²	0.000836

NOTE: All ratings based on a 25°C ambient temperature with the motor face mounted to a 14" x 14" x 3/4" aluminum heatsink.

GMB4500 SERIES MODEL NUMBERING

This section explains the model numbering system for Glentek's GMB4500 Series Brushless Servo Motors. The model numbering system is designed so that you, our customer, will be able to quickly and accurately create the model number for the drive that best suits your requirements. Please complete the drive configuration code you require using the information on this page. After completing your model number, please contact a Glentek Sales Engineer to confirm that the model number you have created is correct.

GMB 45 25 - 34 - E - 0 0 1 0 0 1 0 0 -

- Magnet Type** blank = NdFeB
- Frame Size** 45 = 4.5" (4 pole) Motor
- Stack Length** 25 = 2.5 inch stack
- Back EMF Constant** 34 = 34 V/Krpm
- Dimensions** E = English
- Brake option** 0 = No brake installed
- Commutation Device** 0 = Brushless Resolver
- Number of Motor poles** 1 = 4 Pole
- Flange Type** 0 = Standard
- Shaft Type** 0 = Standard
- Lead Termination** 1 = Two MS Connectors
- Wiring Diagram (MS connector lead termination only)** 0 = Glentek Standard
- Encoder Option** 0 = No encoder installed
- Factory Assigned Option** leave blank

GMB - - - -

Magnet Type	
Leave blank for rare earth magnets	
Frame Size	
45	4.5" Motor
Stack Length	
25	2.5" Stack
50	5.0" Stack
60	6.0" Stack
75	7.5" Stack

Back EMF Constant							
2.5" Stack		5.0" Stack		6.0" Stack		7.5" Stack	
34	34V/Krpm	37	37V/Krpm	50	50V/Krpm	25	25V/Krpm
55	55V/Krpm	55	55V/Krpm	90	90V/Krpm	50	50V/Krpm
110	110V/Krpm	74	74V/Krpm			61	61V/Krpm
		110	110V/Krpm			110	110V/Krpm
For custom Back EMF, Please Contact Glentek							

Dimensions					
E	English	M	Metric	N	NEMA

Brake Option					
0	No brake installed	1	24 VDC Brake	2	Special

Commutation Device					
0	Brushless Resolver	2	Encoder with commutation tracks	4	Absolute Encoder
1	Hall Effect Sensors	3	Special	5	Sin/Cos Encoder

Number of Motor Poles					
1	4 pole	2	6 pole	3	8 pole

Flange Type							
0	Standard	1	Special	4	NEMA 42	5	NEMA 56C

Shaft Type							
0	Standard	1	Special	4	NEMA 42	5	NEMA 56C

Lead Termination			
0	One MS Connector	3	Special
1	Two MS Connectors	4	Liquid tight strain relief with flying leads
2	NPT(s) only with flying leads	5	Euro-style connectors

Wiring Diagram (MS connector lead termination only)			
0	Glentek Standard	1	Special

Encoder Option							
0	No encoder installed	4	1250 PPR	8	8192 PPR	C	4096 PPR
1	500PPR	5	2000 PPR	9	5000 PPR	D	3600 PPR
2	1000PPR	6	2500 PPR	A	512 PPR	E	18000 PPR
3	1024PPR	7	Special	B	2048 PPR		

Factory Assigned Option

A numerical code will be assigned by Glentek to motors whose specifications vary from the standard configuration