

# GLENTEK BRUSHLESS SERVO MOTORS GMBM220 SERIES

Revision: 3/16/2017



Glentek's GMBM220 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, GMBM220 series have been tooled for high volume production which makes them easy to use and extremely cost effective..

- Continuous Torque Range:  
92.9 Lb-in (10.5 Nm) to 845.2 Lb-in (95.5 Nm)
- Peak Torque Range:  
278.7 Lb-in (31.5 Nm) to 1986.1 Lb-in (224.4 Nm)

## GMBM220 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.
Optional custom mounting configurations are available to meet virtually any requirement.
Encoder with commutation tracks, brushless resolvers or Hall sensors are standard feedback devices offered
Shaft Keyway.
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 90VDC holding brakes are available.
Constructed to withstand the toughest industrial environment with rugged, high performance bearings and TENV construction with IP65 sealing optional
CE marked.
RoHS Compliant

## GMBM220 SERIES ENVIRONMENTAL CONDITIONS

<b>Storage Temperature:</b>	-20°C to 70°C
<b>Operating Temperature:</b>	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
<b>Humidity:</b>	5% to 95% relative humidity, non-condensing
<b>Altitude:</b>	Up to 1000m without derating, derate torque 10% per 1000m above 1000m

## GMBM220 SERIES SELECTION TABLE

$K_T$  = Torque Constant •  $K_V$  = BEMF = Volts/1000 RPM •  $R_A$  = Phase to Phase Resistance •  $L_A$  = Inductance

Model Number	Rated Power		Speed, RPM			Cont. Stall Rating			Peak Stall Torque			$K_T$		$K_V$	$R_A$	$L_A$	Rotor Inertia	
	W	Max	Rated	Lb-in	Nm	Amps	Lb-in	Nm	Amps	Lb-in/A	Nm/A	V	$\Omega$	mH	Lb-in-sec <sup>2</sup>	Kg-m <sup>2</sup>		
GMBM2202200-55	2200	3000	2000	92.9	10.5	16.0	278.7	31.5	48.0	8.05	0.91	55.1	0.12	2.25	0.045511	0.005142		
GMBM2202000-55	1800	3000	1500	101.8	11.5	16.0	305.4	34.5	48.0	8.23	0.93	55.1	0.12	2.25	0.045511	0.005142		
GMBM2201200-82	1200	2000	1000	101.8	11.5	11.0	305.4	34.5	33.0	11.68	1.32	81.5	0.25	5.02	0.045511	0.005142		
GMBM2203500-55	3500	3000	2000	147.8	16.7	21.0	443.4	50.1	63.0	7.97	0.90	55.4	0.05	1.20	0.071116	0.008035		
GMBM2203000-55	2900	3000	1500	163.7	18.5	21.0	491.1	55.5	63.0	8.14	0.92	55.4	0.05	1.20	0.071116	0.008035		
GMBM2202000-78	2000	2000	1000	169.0	19.1	16.0	507.0	57.3	48.0	11.51	1.30	78.3	0.10	2.40	0.071116	0.008035		
GMBM2205500-56	5500	3000	2000	232.8	26.3	32.0	698.4	78.9	96.0	7.97	0.90	55.9	0.03	0.66	0.117193	0.013241		
GMBM2204400-56	4400	3000	1500	247.8	28.0	32.0	743.4	84.0	96.0	8.14	0.92	55.9	0.03	0.66	0.117193	0.013241		
GMBM2203000-82	3000	2000	1000	253.1	28.6	21.0	759.3	85.8	63.0	11.59	1.31	82.3	0.05	1.45	0.117193	0.013241		
GMBM2207500-66	7500	2500	2000	316.9	35.8	38.0	792.4	89.5	114.0	9.20	1.04	65.6	0.02	0.67	0.153038	0.017291		
GMBM2206000-66	6000	2500	1500	338.1	38.2	38.0	845.2	95.5	45.6	9.38	1.06	65.6	0.02	0.67	0.153038	0.017291		
GMBM2204400-83	4400	2000	1000	371.7	42.0	32.0	1115.1	126.0	96.0	11.86	1.34	83.1	0.04	1.07	0.153038	0.017291		
GMBM22011000-66	11000	2500	2000	464.7	52.5	50.0	1162.1	131.3	150.0	9.38	1.06	66.3	0.01	0.39	0.257875	0.029136		
GMBM2208500-66	8500	2500	1500	478.8	54.1	50.0	1197.5	135.3	60.0	9.38	1.06	66.3	0.01	0.39	0.257875	0.029136		
GMBM2206000-94	6000	2000	1000	507.1	57.3	38.0	1521.3	171.9	114.0	13.19	1.49	94.4	0.03	0.78	0.257875	0.029136		
GMBM22011000-78	11000	2000	1500	619.6	70.0	57.4	1549.8	175.1	143.5	10.80	1.22	77.6	0.02	0.52	0.257875	0.029136		
GMBM22015000-82	15000	2000	1500	845.2	95.5	71.8	1986.1	224.4	168.7	11.77	1.33	81.8	0.01	0.42	0.375714	0.042450		

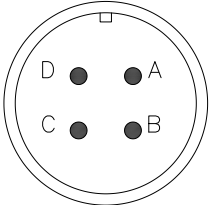
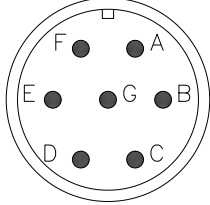
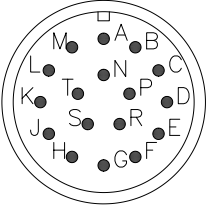
**NOTE:** The values for Max and Rated Speed are for motors operated with a 200 VAC power supply.

## BRAKE OPTION

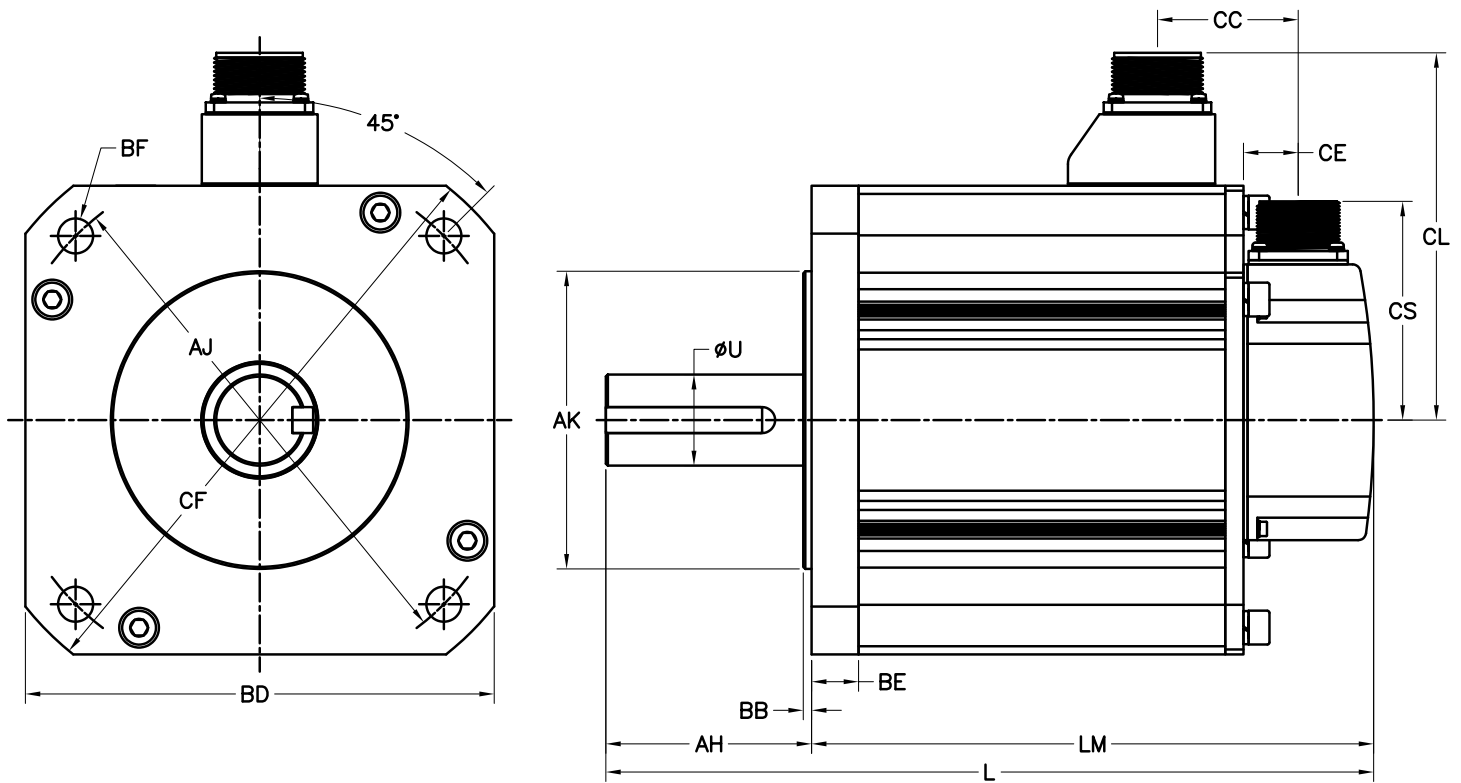
Brake requires 90V DC input voltage. The values for "Extension" represent the nominal maximum length that the brake will add to the motor. For some models, the extension will be less. Please contact one of our sales engineers for the exact values.

Extension	Torque		Power
mm (in.)	Lb-in	Nm	Watts
66 (2.61)	654.9	74	32

## CONNECTORS & PIN-OUT INFORMATION

A - Motor Power		B - Brake																															
MS Connector	Pin # Function	MS Connector	Pin # Function																														
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="background-color: #800000; color: white;">A</td><td>Phase T</td></tr> <tr><td style="background-color: #800000; color: white;">B</td><td>Phase S</td></tr> <tr><td style="background-color: #800000; color: white;">C</td><td>Phase R</td></tr> <tr><td style="background-color: #800000; color: white;">D</td><td>Ground</td></tr> </table>	A	Phase T	B	Phase S	C	Phase R	D	Ground		<table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td style="background-color: #800000; color: white;">A</td><td>Phase T</td></tr> <tr><td style="background-color: #800000; color: white;">B</td><td>Phase S</td></tr> <tr><td style="background-color: #800000; color: white;">C</td><td>Phase R</td></tr> <tr><td style="background-color: #800000; color: white;">D</td><td>Ground</td></tr> <tr><td style="background-color: #800000; color: white;">E</td><td>Brake +</td></tr> <tr><td style="background-color: #800000; color: white;">F</td><td>Brake -</td></tr> </table>	A	Phase T	B	Phase S	C	Phase R	D	Ground	E	Brake +	F	Brake -										
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A	A+																																
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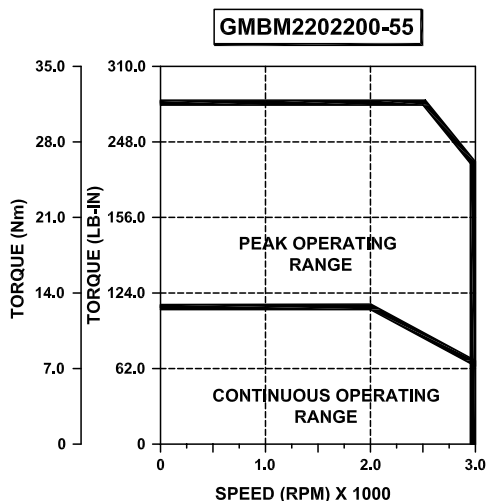
## GMBM220 SERIES DIMENSIONS



Model Number	Weight	External Dimension							Shaft/Key			Flange/Face				Mounting		
	Kg	L	LM	LC	CC	CE	CS	CL	AH	U	KEY	AK	BB	BD	BE	CF	AJ	BF Ø
<b>GMBM2202200-55</b>																		
<b>GMBM2202000-55</b>	17.0	237	172	122.0	66	21.0	84.0	172.0	65.0	35.0	M10 X M8 X 55	200.0	4.0	220.0	22.0	270.0	235.0	13.5
<b>GMBM2201200-82</b>																		
<b>GMBM2203500-55</b>																		
<b>GMBM2203000-55</b>	22.0	257	192	142.0	66	21.0	84.0	172.0	65.0	35.0	M10 X M8 X 55	200.0	4.0	220.0	22.0	270.0	235.0	13.5
<b>GMBM2202000-78</b>																		
<b>GMBM2205500-56</b>																		
<b>GMBM2204400-56</b>	30.8	293	228	178.0	66	21.0	84.0	172.0	65.0	35.0	M10 X M8 X 55	200.0	4.0	220.0	22.0	270.0	235.0	13.5
<b>GMBM2203000-82</b>																		
<b>GMBM2207500-66</b>																		
<b>GMBM2206000-66</b>	37.5	321	256	206.0	66	21.0	84.0	172.0	65.0	35.0	M10 X M8 X 55	200.0	4.0	220.0	22.0	270.0	235.0	13.5
<b>GMBM2204400-83</b>																		
<b>GMBM22011000-66</b>																		
<b>GMBM2208500-66</b>	66.2	421	356	304.0	66	21.0	84.0	172.0	65.0	45.0	M10 X M8 X 55	200.0	4.0	220.0	22.0	270.0	235.0	13.5
<b>GMBM2206000-94</b>																		
<b>GMBM22011000-78</b>	66.3	469	354	304	66	21	84	172	115.0	42.0	M12XM8X96	200.0	4.0	220.0	22	270	235.0	13.5
<b>GMBM22015000-82</b>	92.2	575	459	409	66	21	84	172	116.0	55.0	M16XM10X96	200.0	4.0	220.0	35	270	235.0	13.5

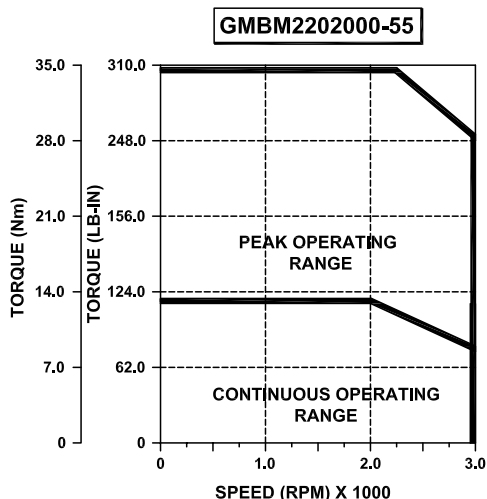
Note: Dimensions are in **mm**

### GMBM2202200-55 PERFORMANCE DATA



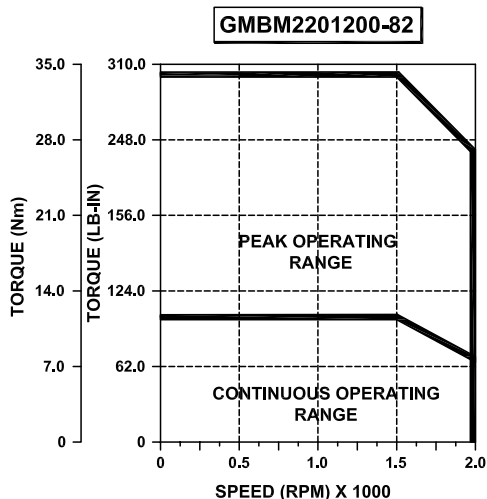
Power @ Max Speed	HP	2.950
	W	2200
Speed, RPM	Max.	3000
	Rated	2000
Cont. Stall Rating	Lb-in	92.9
	Nm	10.5
	Amps	16.0
Peak Stall Rating	Lb-in	278.7
	Nm	31.5
	Amps	48.0
Torque Constant	Lb-in/A	8.05
	Nm/A	0.91
Back EMF	V/Krpm	55.1
Resistance	Ohms	0.12
Inductance	mH	2.25
Armature Inertia	Lb-in-sec <sup>2</sup>	0.045511
	Kg-m <sup>2</sup>	0.005142

### GMBM2202000-55 PERFORMANCE DATA



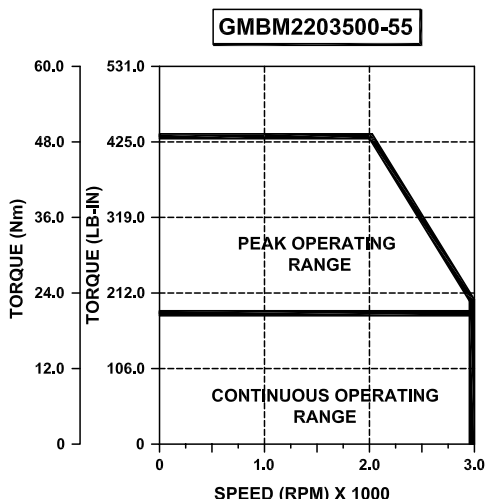
Power @ Max Speed	HP	2.414
	W	1800
Speed, RPM	Max.	3000
	Rated	1500
Cont. Stall Rating	Lb-in	101.8
	Nm	11.5
	Amps	16.0
Peak Stall Rating	Lb-in	305.4
	Nm	34.5
	Amps	48.0
Torque Constant	Lb-in/A	8.05
	Nm/A	0.91
Back EMF	V/Krpm	55.1
Resistance	Ohms	0.12
Inductance	mH	2.25
Armature Inertia	Lb-in-sec <sup>2</sup>	0.045511
	Kg-m <sup>2</sup>	0.005142

### GMBM2201200-82 PERFORMANCE DATA



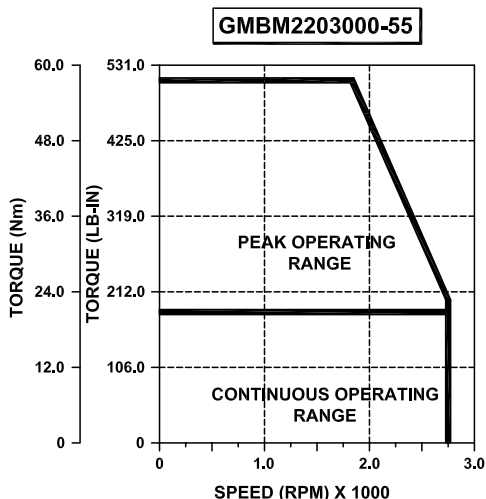
Power @ Max Speed	HP	1.609
	W	1200
Speed, RPM	Max.	2000
	Rated	1000
Cont. Stall Rating	Lb-in	101.8
	Nm	11.5
	Amps	11.0
Peak Stall Rating	Lb-in	305.4
	Nm	34.5
	Amps	33.0
Torque Constant	Lb-in/A	11.68
	Nm/A	1.32
Back EMF	V/Krpm	81.5
Resistance	Ohms	0.25
Inductance	mH	5.02
Armature Inertia	Lb-in-sec <sup>2</sup>	0.045511
	Kg-m <sup>2</sup>	0.005142

### GMBM2203500-55 PERFORMANCE DATA



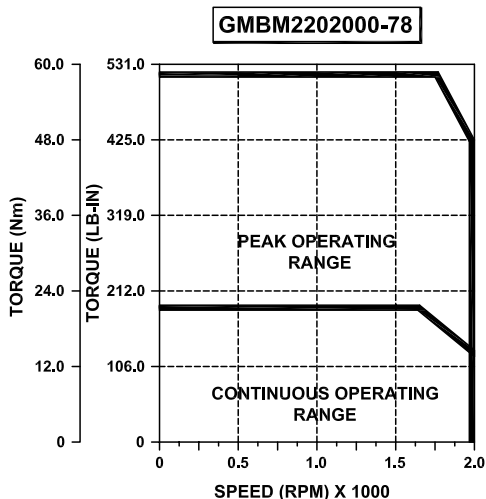
Power @ Max Speed	HP	4.693
	W	3500
Speed, RPM	Max.	3000
	Rated	2000
Cont. Stall Rating	Lb-in	147.8
	Nm	16.7
	Amps	21.0
Peak Stall Rating	Lb-in	443.4
	Nm	50.1
	Amps	63.0
Torque Constant	Lb-in/A	7.97
	Nm/A	0.90
Back EMF	V/Krpm	55.4
Resistance	Ohms	0.05
Inductance	mH	1.20
Armature Inertia	Lb-in-sec <sup>2</sup>	0.0711116
	Kg-m <sup>2</sup>	0.008035

### GMBM2203000-55 PERFORMANCE DATA



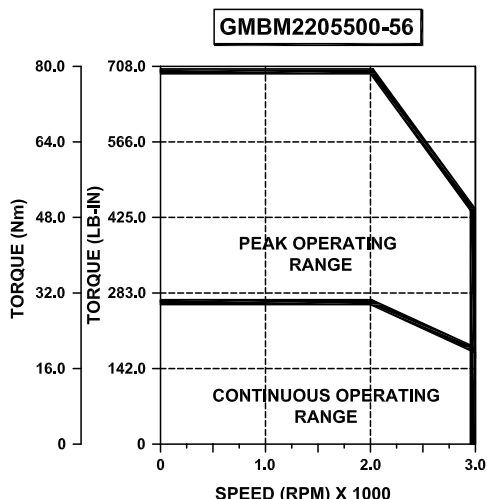
Power @ Max Speed	HP	3.889
	W	2900
Speed, RPM	Max.	3000
	Rated	1500
Cont. Stall Rating	Lb-in	163.7
	Nm	18.5
	Amps	21.0
Peak Stall Rating	Lb-in	491.1
	Nm	55.5
	Amps	63.0
Torque Constant	Lb-in/A	8.14
	Nm/A	0.92
Back EMF	V/Krpm	55.4
Resistance	Ohms	0.05
Inductance	mH	1.20
Armature Inertia	Lb-in-sec <sup>2</sup>	0.0711116
	Kg-m <sup>2</sup>	0.008035

### GMBM2202000-78 PERFORMANCE DATA



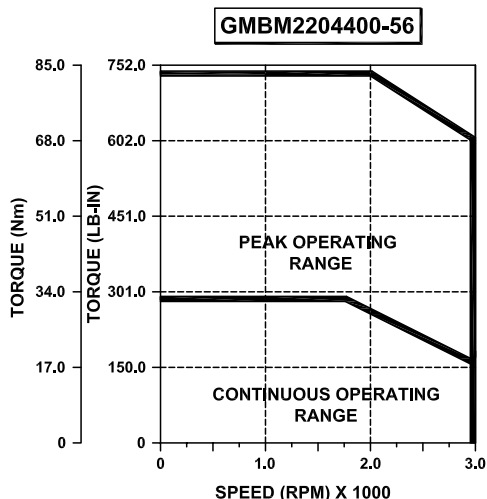
Power @ Max Speed	HP	2.682
	W	2000
Speed, RPM	Max.	2000
	Rated	1000
Cont. Stall Rating	Lb-in	169.0
	Nm	19.1
	Amps	16.0
Peak Stall Rating	Lb-in	507.0
	Nm	57.3
	Amps	48.0
Torque Constant	Lb-in/A	11.51
	Nm/A	1.30
Back EMF	V/Krpm	78.3
Resistance	Ohms	0.10
Inductance	mH	2.40
Armature Inertia	Lb-in-sec <sup>2</sup>	0.0711116
	Kg-m <sup>2</sup>	0.008035

## GMBM2205500-56 PERFORMANCE DATA



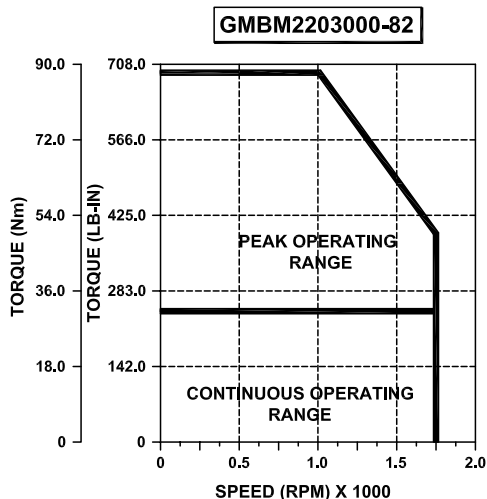
<b>Power @ Max Speed</b>	<b>HP</b>	7.376
	<b>W</b>	5500
<b>Speed, RPM</b>	<b>Max.</b>	3000
	<b>Rated</b>	2000
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	232.8
	<b>Nm</b>	26.3
	<b>Amps</b>	32.0
<b>Peak Stall Rating</b>	<b>Lb-in</b>	698.4
	<b>Nm</b>	78.9
	<b>Amps</b>	96.0
<b>Torque Constant</b>	<b>Lb-in/A</b>	7.97
	<b>Nm/A</b>	0.90
<b>Back EMF</b>	<b>V/Krpm</b>	55.9
<b>Resistance</b>	<b>Ohms</b>	0.03
<b>Inductance</b>	<b>mH</b>	0.66
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.117193
	<b>Kg-m<sup>2</sup></b>	0.013241

## GMBM2204400-56 PERFORMANCE DATA



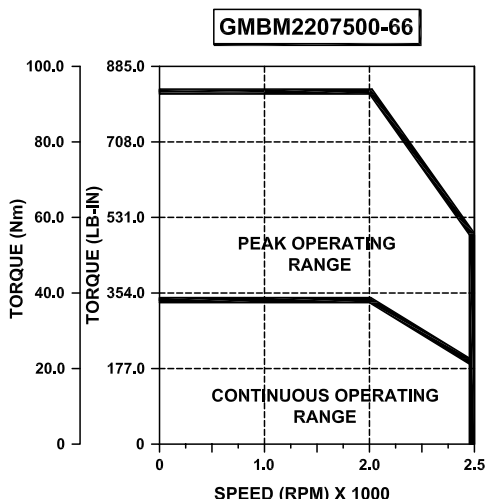
<b>Power @ Max Speed</b>	<b>HP</b>	5.900
	<b>W</b>	4400
<b>Speed, RPM</b>	<b>Max.</b>	3000
	<b>Rated</b>	1500
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	247.8
	<b>Nm</b>	28.0
	<b>Amps</b>	32.0
<b>Peak Stall Rating</b>	<b>Lb-in</b>	743.4
	<b>Nm</b>	84.0
	<b>Amps</b>	96.0
<b>Torque Constant</b>	<b>Lb-in/A</b>	8.14
	<b>Nm/A</b>	0.92
<b>Back EMF</b>	<b>V/Krpm</b>	55.9
<b>Resistance</b>	<b>Ohms</b>	0.03
<b>Inductance</b>	<b>mH</b>	0.66
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.117193
	<b>Kg-m<sup>2</sup></b>	0.013241

## GMBM2203000-82 PERFORMANCE DATA



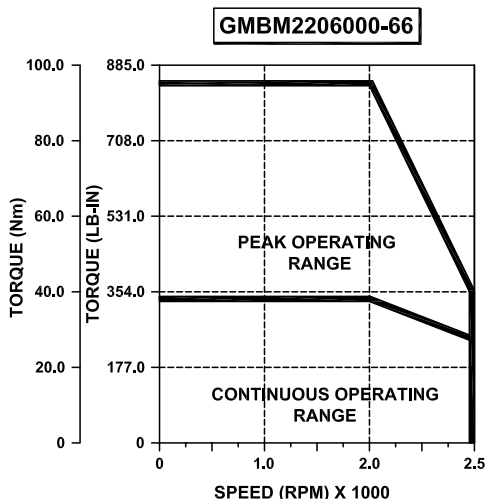
<b>Power @ Max Speed</b>	<b>HP</b>	4.023
	<b>W</b>	3000
<b>Speed, RPM</b>	<b>Max.</b>	2000
	<b>Rated</b>	1000
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	253.1
	<b>Nm</b>	28.6
	<b>Amps</b>	21.0
<b>Peak Stall Rating</b>	<b>Lb-in</b>	759.3
	<b>Nm</b>	85.8
	<b>Amps</b>	63.0
<b>Torque Constant</b>	<b>Lb-in/A</b>	11.59
	<b>Nm/A</b>	1.31
<b>Back EMF</b>	<b>V/Krpm</b>	82.3
<b>Resistance</b>	<b>Ohms</b>	0.05
<b>Inductance</b>	<b>mH</b>	1.45
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.117193
	<b>Kg-m<sup>2</sup></b>	0.013241

### GMBM2207500-66 PERFORMANCE DATA



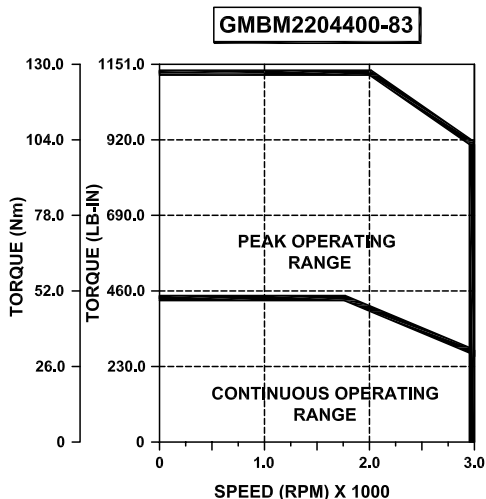
Power @ Max Speed	HP	10.058
	W	7500
Speed, RPM	Max.	2500
	Rated	2000
Cont. Stall Rating	Lb-in	316.9
	Nm	35.8
	Amps	38.0
Peak Stall Rating	Lb-in	792.4
	Nm	89.5
	Amps	114.0
Torque Constant	Lb-in/A	9.20
	Nm/A	1.04
Back EMF	V/Krpm	65.6
Resistance	Ohms	0.02
Inductance	mH	0.67
Armature Inertia	Lb-in-sec <sup>2</sup>	0.153038
	Kg-m <sup>2</sup>	0.017291

### GMBM2206000-66 PERFORMANCE DATA



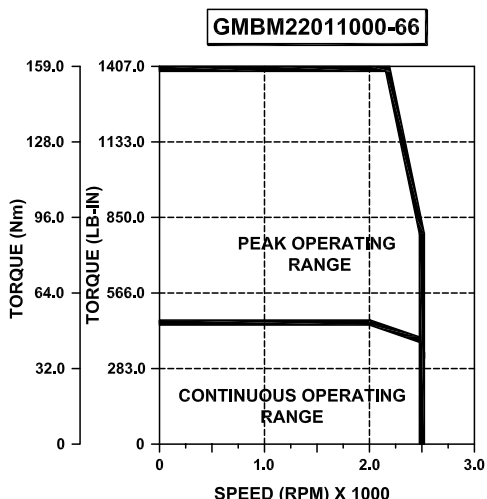
Power @ Max Speed	HP	8.046
	W	6000
Speed, RPM	Max.	2500
	Rated	1500
Cont. Stall Rating	Lb-in	338.1
	Nm	38.2
	Amps	38.0
Peak Stall Rating	Lb-in	845.2
	Nm	95.5
	Amps	45.6
Torque Constant	Lb-in/A	9.38
	Nm/A	1.06
Back EMF	V/Krpm	65.6
Resistance	Ohms	0.02
Inductance	mH	0.67
Armature Inertia	Lb-in-sec <sup>2</sup>	0.153038
	Kg-m <sup>2</sup>	0.017291

### GMBM2204400-83 PERFORMANCE DATA



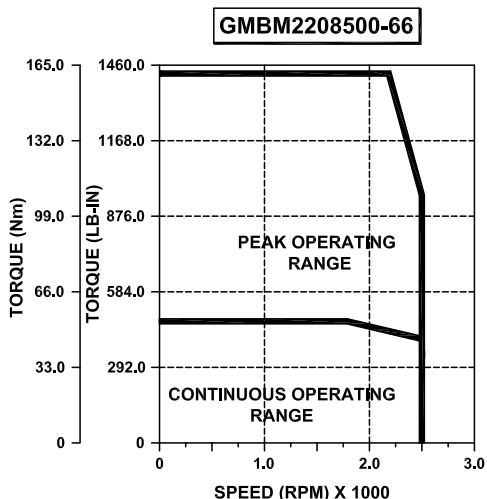
Power @ Max Speed	HP	5.900
	W	4400
Speed, RPM	Max.	2000
	Rated	1000
Cont. Stall Rating	Lb-in	371.7
	Nm	42.0
	Amps	32.0
Peak Stall Rating	Lb-in	1115.1
	Nm	126.0
	Amps	96.0
Torque Constant	Lb-in/A	11.86
	Nm/A	1.34
Back EMF	V/Krpm	83.1
Resistance	Ohms	0.04
Inductance	mH	1.07
Armature Inertia	Lb-in-sec <sup>2</sup>	0.153038
	Kg-m <sup>2</sup>	0.017291

## GMBM22011000-66 PERFORMANCE DATA



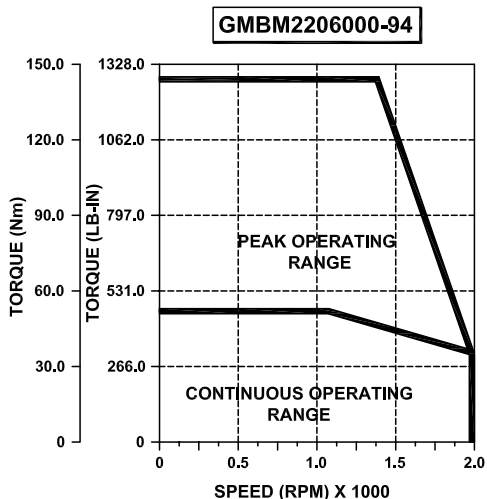
<b>Power @ Max Speed</b>	<b>HP</b>	14.751
	<b>W</b>	11000
<b>Speed, RPM</b>	<b>Max.</b>	2500
	<b>Rated</b>	2000
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	464.7
	<b>Nm</b>	52.5
	<b>Amps</b>	50.0
<b>Peak Stall Rating</b>	<b>Lb-in</b>	1162.1
	<b>Nm</b>	131.3
	<b>Amps</b>	150.0
<b>Torque Constant</b>	<b>Lb-in/A</b>	9.38
	<b>Nm/A</b>	1.06
<b>Back EMF</b>	<b>V/Krpm</b>	66.3
<b>Resistance</b>	<b>Ohms</b>	0.01
<b>Inductance</b>	<b>mH</b>	0.39
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.257875
	<b>Kg-m<sup>2</sup></b>	0.029136

## GMBM2208500-66 PERFORMANCE DATA



<b>Power @ Max Speed</b>	<b>HP</b>	11.399
	<b>W</b>	8500
<b>Speed, RPM</b>	<b>Max.</b>	2500
	<b>Rated</b>	1500
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	478.8
	<b>Nm</b>	54.1
	<b>Amps</b>	50.0
<b>Peak Stall Rating</b>	<b>Lb-in</b>	1197.5
	<b>Nm</b>	135.3
	<b>Amps</b>	60.0
<b>Torque Constant</b>	<b>Lb-in/A</b>	9.38
	<b>Nm/A</b>	1.06
<b>Back EMF</b>	<b>V/Krpm</b>	66.3
<b>Resistance</b>	<b>Ohms</b>	0.01
<b>Inductance</b>	<b>mH</b>	0.39
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.257875
	<b>Kg-m<sup>2</sup></b>	0.029136

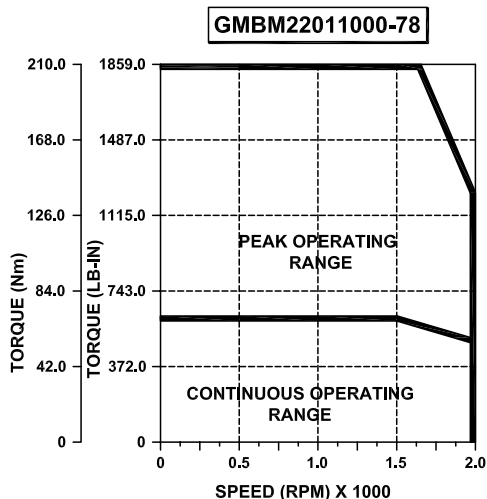
## GMBM2206000-94 PERFORMANCE DATA



<b>Power @ Max Speed</b>	<b>HP</b>	8.046
	<b>W</b>	6000
<b>Speed, RPM</b>	<b>Max.</b>	2000
	<b>Rated</b>	1000
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	507.1
	<b>Nm</b>	57.3
	<b>Amps</b>	38.0
<b>Peak Stall Rating</b>	<b>Lb-in</b>	1521.3
	<b>Nm</b>	171.9
	<b>Amps</b>	114.0
<b>Torque Constant</b>	<b>Lb-in/A</b>	13.19
	<b>Nm/A</b>	1.49
<b>Back EMF</b>	<b>V/Krpm</b>	94.4
<b>Resistance</b>	<b>Ohms</b>	0.03
<b>Inductance</b>	<b>mH</b>	0.78
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.257875
	<b>Kg-m<sup>2</sup></b>	0.029136

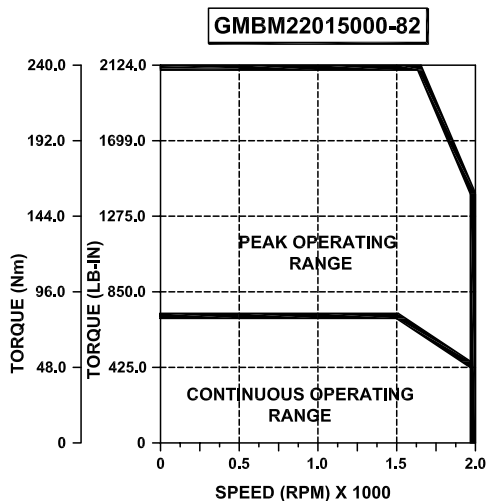


## GMBM22011000-78 PERFORMANCE DATA



<b>Power @ Max Speed</b>	<b>HP</b>	14.751
	<b>W</b>	11000
<b>Speed, RPM</b>	<b>Max.</b>	2000
	<b>Rated</b>	1500
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	619.6
	<b>Nm</b>	70.0
	<b>Amps</b>	57.4
<b>Peak Stall Rating</b>	<b>Lb-in</b>	1549.8
	<b>Nm</b>	175.1
	<b>Amps</b>	143.5
<b>Torque Constant</b>	<b>Lb-in/A</b>	10.80
	<b>Nm/A</b>	1.22
<b>Back EMF</b>	<b>V/Krpm</b>	77.6
<b>Resistance</b>	<b>Ohms</b>	0.02
<b>Inductance</b>	<b>mH</b>	0.52
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.257875
	<b>Kg-m<sup>2</sup></b>	0.029136

## GMBM22015000-82 PERFORMANCE DATA



<b>Power @ Max Speed</b>	<b>HP</b>	20.115
	<b>W</b>	15000
<b>Speed, RPM</b>	<b>Max.</b>	2000
	<b>Rated</b>	1500
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	845.2
	<b>Nm</b>	95.5
	<b>Amps</b>	71.8
<b>Peak Stall Rating</b>	<b>Lb-in</b>	1986.1
	<b>Nm</b>	224.4
	<b>Amps</b>	168.7
<b>Torque Constant</b>	<b>Lb-in/A</b>	11.77
	<b>Nm/A</b>	1.33
<b>Back EMF</b>	<b>V/Krpm</b>	81.8
<b>Resistance</b>	<b>Ohms</b>	0.01
<b>Inductance</b>	<b>mH</b>	0.42
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.375714
	<b>Kg-m<sup>2</sup></b>	0.042450

## GMBM220 SERIES MODEL NUMBERING

This section explains the model numbering system for Glentek's GMBM220 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.

GMBM 220 3000 - 55 - 0 0 0 0 0 0 0 0 -

- Frame Size** 220 = 220mm Motor
- Power at Rated RPM** 3000 = 3000 Watts
- Back EMF Constant** 55 = 55 V/Krpm
- Brake option** 0 = No brake installed
- Flange Type** 0 = Standard
- Shaft Type** 0 = Standard
- Lead Termination** 0 = Two AMP Connectors
- Wiring Diagram** 0 = Glentek Standard
- Encoder Option** 0 = 2048 PPR
- Sealing Option** 0 = No Shaft Seal
- Factory Assigned Option** leave blank

GMBM [ ] [ ] - [ ] - [ ] [ ] [ ] [ ] [ ] [ ] [ ] [ ] - [ ]

Frame Size	
220	220mm Motor

Power at Rated RPM					
1200	1200 Watts	3500	3500 Watts	7500	7500 Watts
2000	2000 Watts	4400	4400 Watts	8500	8500 Watts
2200	2200 Watts	5500	5500 Watts	11000	11000 Watts
3000	3000 Watts	6000	6000 Watts	15000	15000 Watts

Back EMF Constant			
1200 Watts	2000 Watts	2200 Watts	3000 Watts
82	82V/Krpm	55	55V/Krpm
55	55V/Krpm	55	55V/Krpm
82	82V/Krpm	55	55V/Krpm
3500 Watts	4400 Watts	5500 Watts	6000 Watts
55	55V/Krpm	56	56V/Krpm
56	56V/Krpm	56	56V/Krpm
66	66V/Krpm	66	66V/Krpm
83	83V/Krpm	94	94V/Krpm
7500 Watts	8500 Watts	11000 Watts	15000 Watts
66	66V/Krpm	66	66V/Krpm
66	66V/Krpm	66	66V/Krpm
78	78V/Krpm	82	82V/Krpm

Brake Option			
0	No brake installed	1	90 VDC Brake
2	Special		

Flange Type	
0	Standard Round
1	Special

Shaft Type	
0	Standard Round
1	Special

Lead Termination Type	
1	Special
2	Two MS Connectors

Wiring Diagram	
0	Glentek Standard
1	Special

Encoder Option	
0	2048 PPR
1	3000 PPR
3	1024 PPR
4	2500 PPR
5	5000 PPR
7	Special

Sealing Option	
0	No Shaft Seal (IP54 Sealing)
1	Shaft Seal
2	Special

Factory Assigned Option

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