

# GLENTEK BRUSHLESS SERVO MOTORS GMBF5000 SERIES

Revision: 1/22/2019



Glentek's GMBF5000 series of high performance, permanent magnet Brushless servo motors utilize traditional ferrite magnets which are ideal for cost sensitive applications. This helps to reduce the mechanical shaft resonance which allows higher servo gains with increased stability. In addition, all frame sizes incorporate skewed stators which provide ultra smooth operation (i.e. low cogging torque) at all speeds.

- Continuous Torque Range:  
32.6 Lb-in (3.68 Nm) to 75.0 Lb-in (8.47 Nm)
- Peak Torque Range:  
97.8 Lb-in (11.04 Nm) to 225.0 Lb-in (25.41 Nm)

## GMBF5000 SERIES FEATURES

Traditional ferrite magnet design, which are ideal for cost sensitive applications.

Special design provides ultra smooth operation (i.e. low cogging torque) at all speeds.

Worldwide standard mounting configurations are available (English, Metric, 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.

## GMBF5000 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

## GMBF5000 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	$\Omega$	mH	Lb-in-sec <sup>2</sup>	Kg-m <sup>2</sup>
<b>GMBF5030-25</b>	1.17	0.87	3500	2800	33	3.68	11.5	98.0	11.04	34.5	2.82	0.32	25	0.7	3.1	0.014	0.001582
<b>GMBF5030-50</b>	1.17	0.87	3500	2800	33	3.68	5.8	98.0	11.04	17.4	5.65	0.64	50	2.3	10.2	0.014	0.001582
<b>GMBF5030-61</b>	1.01	0.75	3000	2400	33	3.68	4.4	98.0	11.04	13.2	7.46	0.84	66	4.6	19.9	0.014	0.001582
<b>GMBF5030-75</b>	0.84	0.62	2500	2000	33	3.68	3.8	98.0	11.04	11.4	8.47	0.96	75	4.8	23	0.014	0.001582
<b>GMBF5040-25</b>	1.42	1.06	3500	2800	40	4.52	14.2	120.0	13.56	42.6	2.82	0.32	25	0.3	3	0.019	0.002147
<b>GMBF5040-50</b>	1.42	1.06	3500	2800	40	4.52	7.1	120.0	13.56	21.3	5.65	0.64	50	1.4	12	0.019	0.002147
<b>GMBF5040-75</b>	1.02	0.76	2500	2000	40	4.52	4.7	120.0	13.56	14.1	8.47	0.96	75	3.5	28	0.019	0.002147
<b>GMBF5060-25</b>	2.67	1.99	3500	2800	75	8.47	26.6	225.0	25.41	79.8	2.82	0.32	25	0.2	2	0.028	0.003164
<b>GMBF5060-50</b>	2.67	1.99	3500	2800	75	8.47	13.3	225.0	25.41	39.9	5.65	0.64	50	0.9	7	0.028	0.003164
<b>GMBF5060-75</b>	1.90	1.42	2500	2000	75	8.47	8.9	225.0	25.41	26.7	8.47	0.96	75	2.1	11	0.028	0.003164

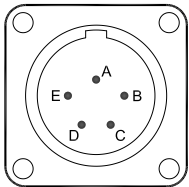
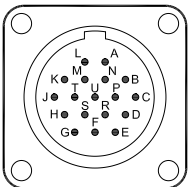
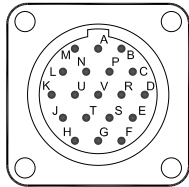
**NOTE:** All ratings based on a 25°C ambient temperature with the motor face mounted to a 14" x 14" x 3/4" aluminum heatsink. The values for Max and Rated Speed are for motors operated with a 230 VAC power supply

### BRAKE OPTION

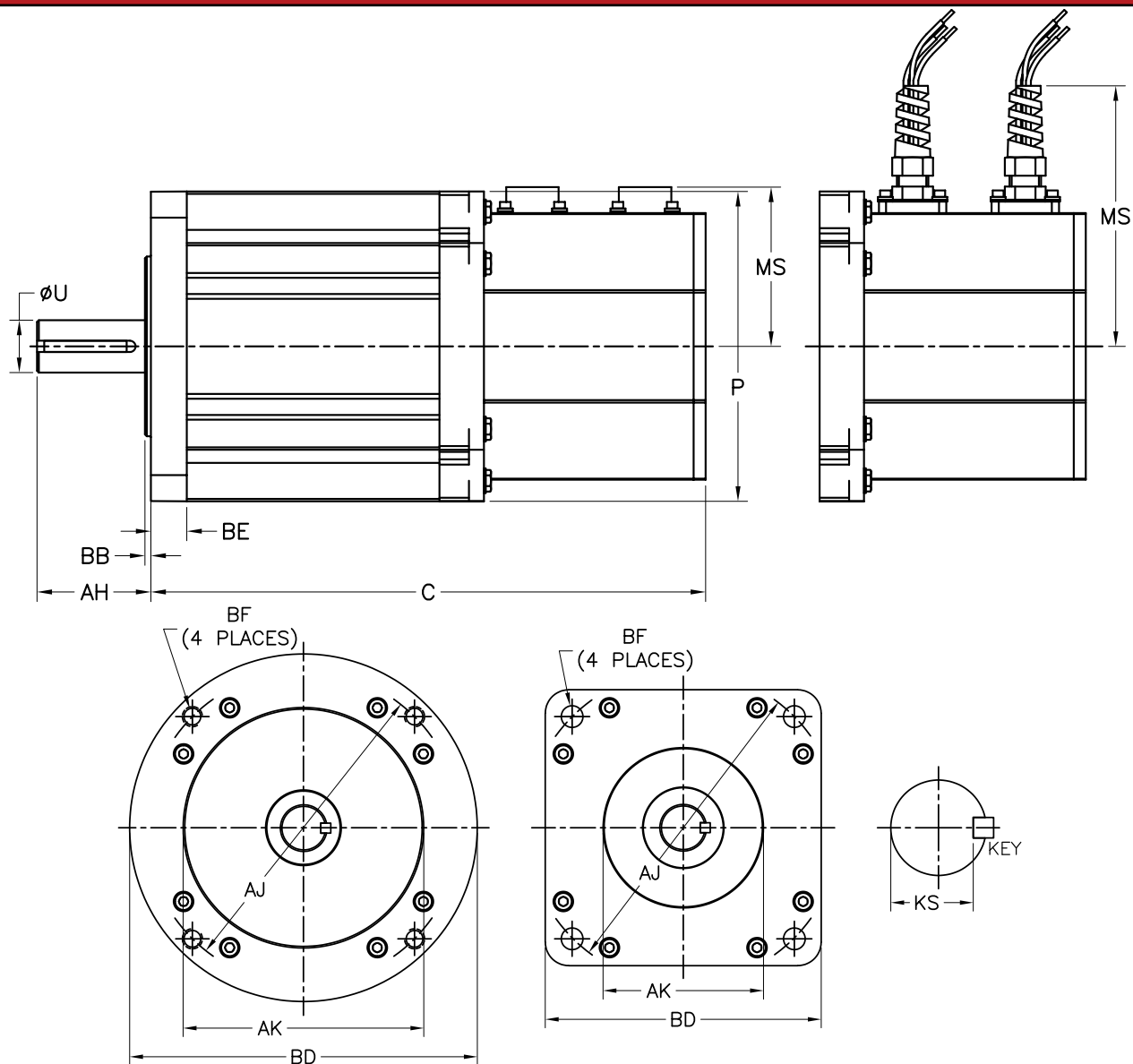
Brake requires 24V DC input voltage. The values for "Extension" represent the nominal maximum length that the brake will add to the motor. For some models, the extension will be less. Please contact one of our sales engineers for the exact values.

Extension	Torque		Power
in. (mm)	Lb-in	Nm	Watts
2.25 (57)	318	36	26

### CONNECTORS & PIN-OUT INFORMATION

5-Pin MS connector MS3102R22-22P		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	
<b>A</b>	Phase R	<b>A</b>	Resolver	<b>A</b>	Resolver	Encoder with Commutation Track
<b>B</b>	Phase S	<b>B</b>	Brake +	<b>B</b>		
<b>C</b>	Phase T	<b>C</b>	Brake -	<b>C</b>	Temperature Switch	Temperature Switch
<b>D</b>	Case Ground	<b>C</b>	Brake Shield	<b>C</b>	Resolver Shield	Encoder Shield
<b>Special mounting options are available. Please contact a Glentek Sales Engineer for detailed information.</b>		<b>D</b>	Resolver Shield	<b>D</b>	N/C	Encoder +5VDC
		<b>E</b>	Reference	<b>E</b>	N/C	Encoder Common
		<b>F</b>	Since Ground	<b>F</b>	Cosine Ground	Channel A+
		<b>G</b>	Cosine Ground	<b>G</b>	Cosine +	Channel A-
		<b>H</b>	Sine	<b>H</b>	Sine Ground	Channel B+
		<b>J</b>	N/C	<b>J</b>	Reference Ground	Channel B-
		<b>K</b>	N/C	<b>K</b>	Reference	Channel Z+
		<b>L</b>	N/C	<b>L</b>	N/C	Channel Z-
		<b>M</b>	N/C	<b>M</b>	N/C	Comm. Track S1+
		<b>N</b>	Temperature Switch	<b>N</b>	N/C	Comm. Track S1-
		<b>P</b>	N/C	<b>P</b>	N/C	Comm. Track S2+
		<b>R</b>	Reference Ground	<b>R</b>	N/C	Comm. Track S2-
		<b>S</b>	Cosine	<b>S</b>	N/C	Comm. Track S3+
		<b>T</b>	N/C	<b>T</b>	N/C	Comm. Track S3-
<b>U</b>	Temperature Switch	<b>U</b>	Brake +	Brake +		
		<b>V</b>	Brake -	Brake -		

## GMBF5000 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
GMBF5030-XXX-M	10.2 (22.4)	294.4 (11.6)	131.6 (5.18)	50.00 (1.97)	24.00 (0.945)	M8 X M7 X 38	19.8 - 20.0	130.00 (5.118)	3.60 (0.142)	142.00 (5.59)	15.4 (0.61)	165.00 (6.496)	11.00 (0.433)	THRU
GMBF5040-XXX-M	12.5 (27.5)	303.8 (12.0)	131.6 (5.18)	50.00 (1.97)	24.00 (0.945)	M8 X M7 X 38	19.8 - 20.0	130.00 (5.118)	3.60 (0.142)	142.00 (5.59)	15.4 (0.61)	165.00 (6.496)	11.00 (0.433)	THRU
GMBF5060-XXX-M	15.9 (35.0)	370.8 (14.6)	131.6 (5.18)	50.00 (1.97)	24.00 (0.945)	M8 X M7 X 38	19.8 - 20.0	130.00 (5.118)	3.60 (0.142)	142.00 (5.59)	15.4 (0.61)	165.00 (6.496)	11.00 (0.433)	THRU

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

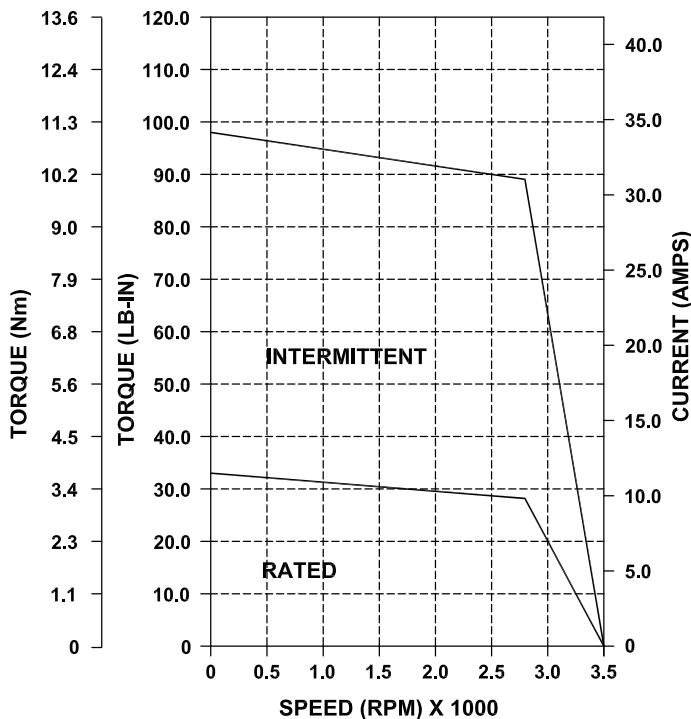
Model Number	Lbs. (Kg)	C (max)	P (max)	Shaft				Flange/Face				Mounting Hole		
				AH	U	KEY	KS	AK	BB	BD	BE	AJ	BF Dia.	Tap
GMBF5030-XXX-E	22.5 (10.2)	11.59 (294.4)	5.18 (131.6)	1.90 (48.3)	0.8750 (22.23)	.188 SQ. X 1.50	.761 - .771	3.000 (76.20)	0.10 (2.54)	5.18 (131.6)	0.60 (15.24)	5.875 (149.23)	0.406 (10.31)	THRU
GMBF5040-XXX-E	27.5 (12.5)	11.96 (303.8)	5.18 (131.6)	1.90 (48.3)	0.8750 (22.23)	.188 SQ. X 1.50	.761 - .771	3.000 (76.20)	0.10 (2.54)	5.18 (131.6)	0.60 (15.24)	5.875 (149.23)	0.406 (10.31)	THRU
GMBF5060-XXX-E	35.0 (15.9)	14.60 (370.8)	5.18 (131.6)	1.90 (48.3)	0.8750 (22.23)	.188 SQ. X 1.50	.761 - .771	3.000 (76.20)	0.10 (2.54)	5.18 (131.6)	0.60 (15.24)	5.875 (149.23)	0.406 (10.31)	THRU
NEMA 56C				2.06 (52.3)	0.6250 (15.88)	.188 SQ. X 1.50	.507 - .517	4.500 (114.30)	0.12 (3.05)	6.50 (165.1)	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	2.62	2.62	2.62	4.35
inches (mm)	(66.5)	(66.5)	(66.5)	(110.4)
MS	66.5	66.5	66.5	81.1
mm (inches)	(2.62)	(2.62)	(2.62)	(3.19)

## GMBF5030-25 PERFORMANCE DATA

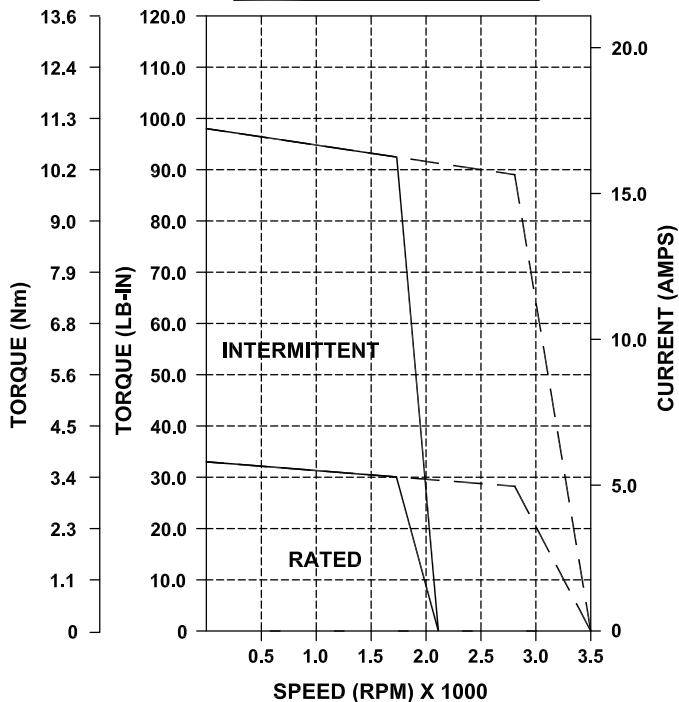
<b>GMBF5030-25</b>	<b>SYMBOL</b>
120 OR 230 VAC	—



<b>Power @ Rated Speed</b>	<b>HP</b>	1.17
	<b>KW</b>	0.87
<b>Speed, RPM</b>	<b>Max.</b>	3500
	<b>Rated</b>	2800
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	33
	<b>Nm</b>	3.68
	<b>Amps</b>	11.5
<b>Peak Stall Rating</b>	<b>Lb-in</b>	98.0
	<b>Nm</b>	11.04
	<b>Amps</b>	34.5
<b>Torque Constant</b>	<b>Lb-in/A</b>	2.82
	<b>Nm/A</b>	0.32
<b>Back EMF</b>	<b>V/Krpm</b>	25
<b>Resistance</b>	<b>Ohms</b>	0.7
<b>Inductance</b>	<b>mH</b>	3.1
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.014
	<b>Kg-m<sup>2</sup></b>	0.001582

## GMBF5030-50 PERFORMANCE DATA

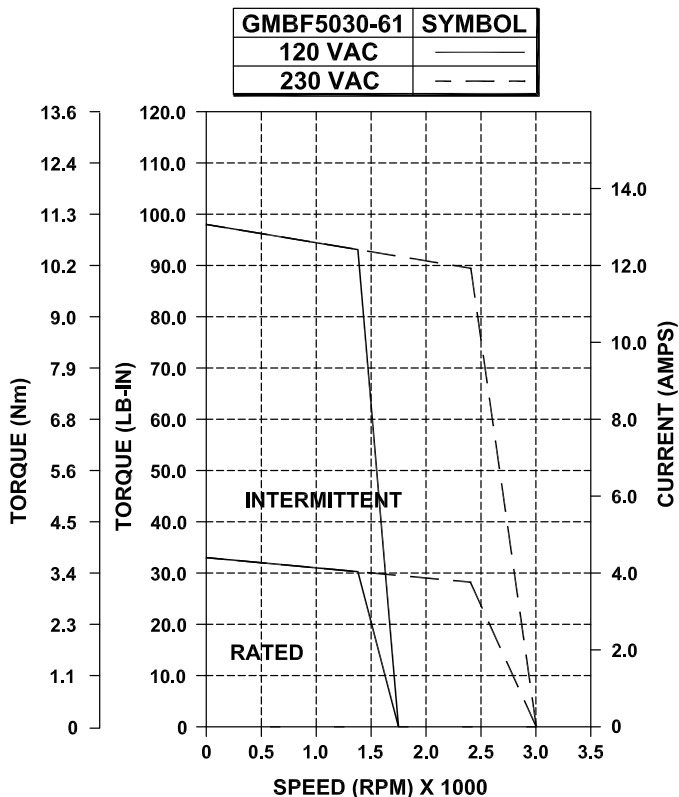
<b>GMBF5030-50</b>	<b>SYMBOL</b>
120 VAC	—
230 VAC	---



<b>Power @ Rated Speed</b>	<b>HP</b>	1.17
	<b>KW</b>	0.87
<b>Speed, RPM</b>	<b>Max.</b>	3500
	<b>Rated</b>	2800
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	33
	<b>Nm</b>	3.68
	<b>Amps</b>	5.8
<b>Peak Stall Rating</b>	<b>Lb-in</b>	98.0
	<b>Nm</b>	11.04
	<b>Amps</b>	17.4
<b>Torque Constant</b>	<b>Lb-in/A</b>	5.65
	<b>Nm/A</b>	0.64
<b>Back EMF</b>	<b>V/Krpm</b>	50
<b>Resistance</b>	<b>Ohms</b>	2.3
<b>Inductance</b>	<b>mH</b>	10.2
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.014
	<b>Kg-m<sup>2</sup></b>	0.001582

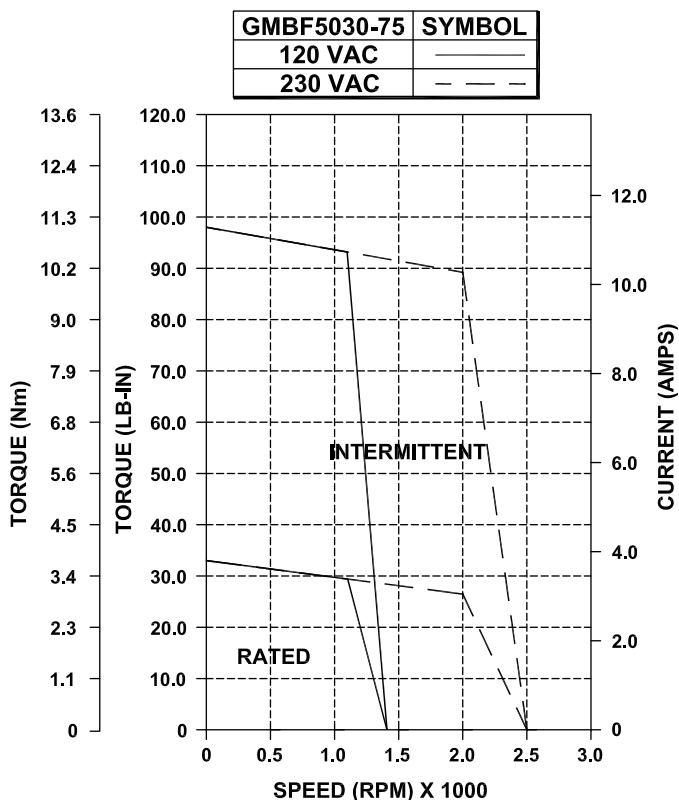
**NOTE:** All ratings based on a 25°C ambient temperature with the motor face mounted to a 14" x 14" x 3/4" aluminum heatsink.

## GMBF5030-61 PERFORMANCE DATA



<b>Power @ Rated Speed</b>	HP	1.01
	KW	0.75
<b>Speed, RPM</b>	Max.	3000
	Rated	2400
<b>Cont. Stall Rating</b>	Lb-in	33
	Nm	3.68
	Amps	4.4
<b>Peak Stall Rating</b>	Lb-in	98.0
	Nm	11.04
	Amps	13.2
<b>Torque Constant</b>	Lb-in/A	7.46
	Nm/A	0.84
<b>Back EMF</b>	V/Krpm	66
<b>Resistance</b>	Ohms	4.6
<b>Inductance</b>	mH	19.9
<b>Armature Inertia</b>	Lb-in-sec <sup>2</sup>	0.014
	Kg-m <sup>2</sup>	0.001582

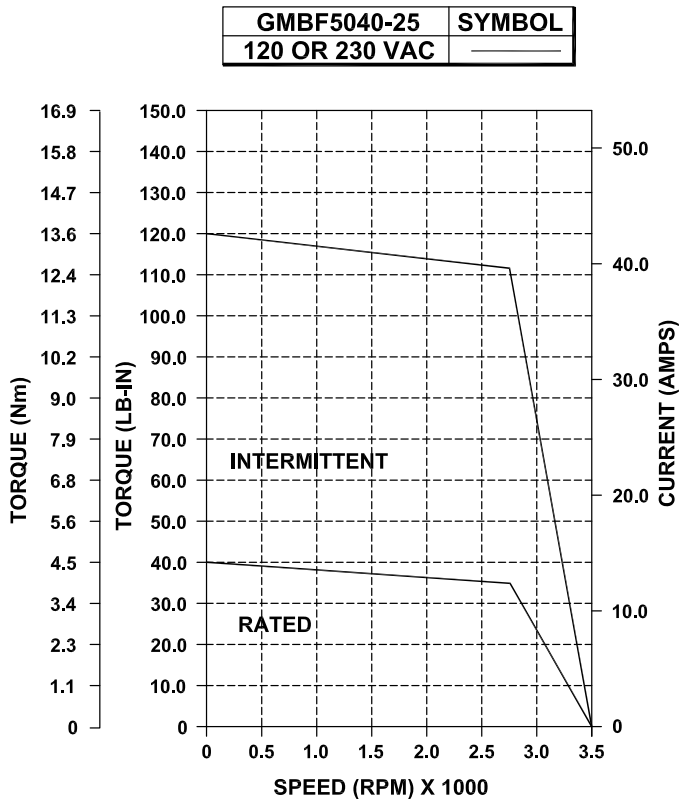
## GMBF5030-75 PERFORMANCE DATA



<b>Power @ Rated Speed</b>	HP	0.84
	KW	0.62
<b>Speed, RPM</b>	Max.	2500
	Rated	2000
<b>Cont. Stall Rating</b>	Lb-in	33
	Nm	3.68
	Amps	3.8
<b>Peak Stall Rating</b>	Lb-in	98.0
	Nm	11.04
	Amps	11.4
<b>Torque Constant</b>	Lb-in/A	8.47
	Nm/A	0.96
<b>Back EMF</b>	V/Krpm	75
<b>Resistance</b>	Ohms	4.8
<b>Inductance</b>	mH	23
<b>Armature Inertia</b>	Lb-in-sec <sup>2</sup>	0.014
	Kg-m <sup>2</sup>	0.001582

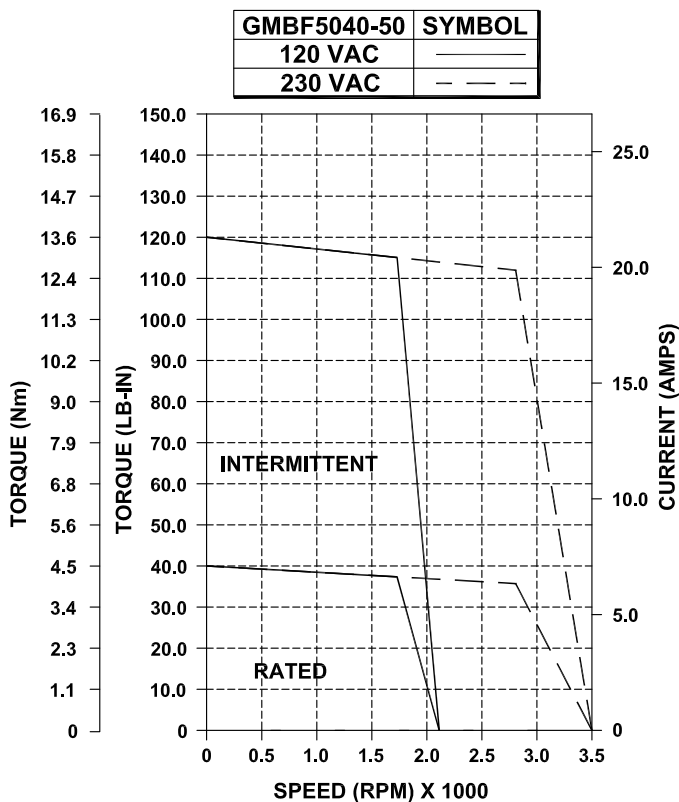
**NOTE:** All ratings based on a 25°C ambient temperature with the motor face mounted to a 14" x 14" x 3/4" aluminum heatsink.

## GMBF5040-25 PERFORMANCE DATA



<b>Power @ Rated Speed</b>	<b>HP</b>	1.42
	<b>KW</b>	1.06
<b>Speed, RPM</b>	<b>Max.</b>	3500
	<b>Rated</b>	2800
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	40
	<b>Nm</b>	4.52
	<b>Amps</b>	14.2
<b>Peak Stall Rating</b>	<b>Lb-in</b>	120.0
	<b>Nm</b>	13.56
	<b>Amps</b>	42.6
<b>Torque Constant</b>	<b>Lb-in/A</b>	2.82
	<b>Nm/A</b>	0.32
<b>Back EMF</b>	<b>V/Krpm</b>	25
<b>Resistance</b>	<b>Ohms</b>	0.3
<b>Inductance</b>	<b>mH</b>	3
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.019
	<b>Kg-m<sup>2</sup></b>	0.002147

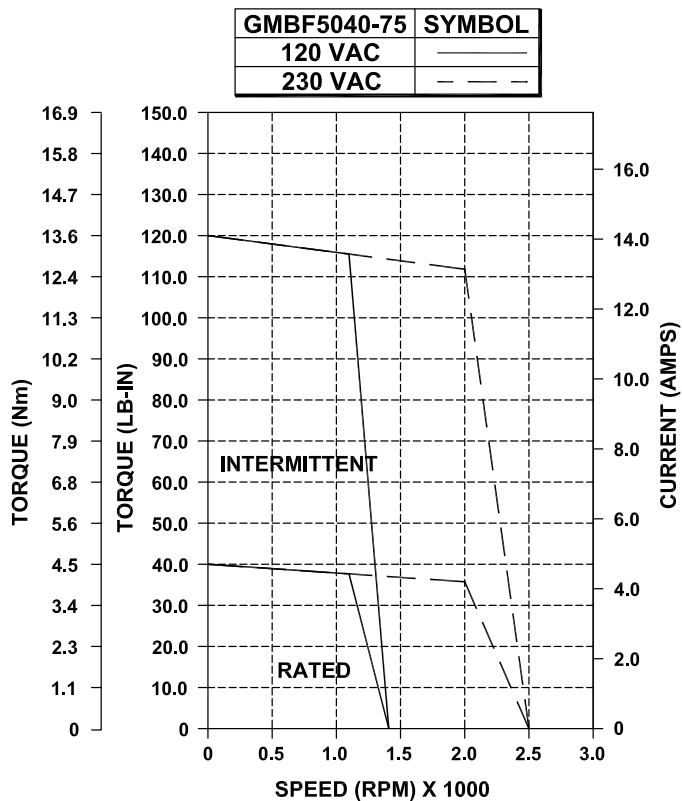
## GMBF5040-50 PERFORMANCE DATA



<b>Power @ Rated Speed</b>	<b>HP</b>	1.42
	<b>KW</b>	1.06
<b>Speed, RPM</b>	<b>Max.</b>	3500
	<b>Rated</b>	2800
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	40
	<b>Nm</b>	4.52
	<b>Amps</b>	7.1
<b>Peak Stall Rating</b>	<b>Lb-in</b>	120.0
	<b>Nm</b>	13.56
	<b>Amps</b>	21.3
<b>Torque Constant</b>	<b>Lb-in/A</b>	5.65
	<b>Nm/A</b>	0.64
<b>Back EMF</b>	<b>V/Krpm</b>	50
<b>Resistance</b>	<b>Ohms</b>	1.4
<b>Inductance</b>	<b>mH</b>	12
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.019
	<b>Kg-m<sup>2</sup></b>	0.002147

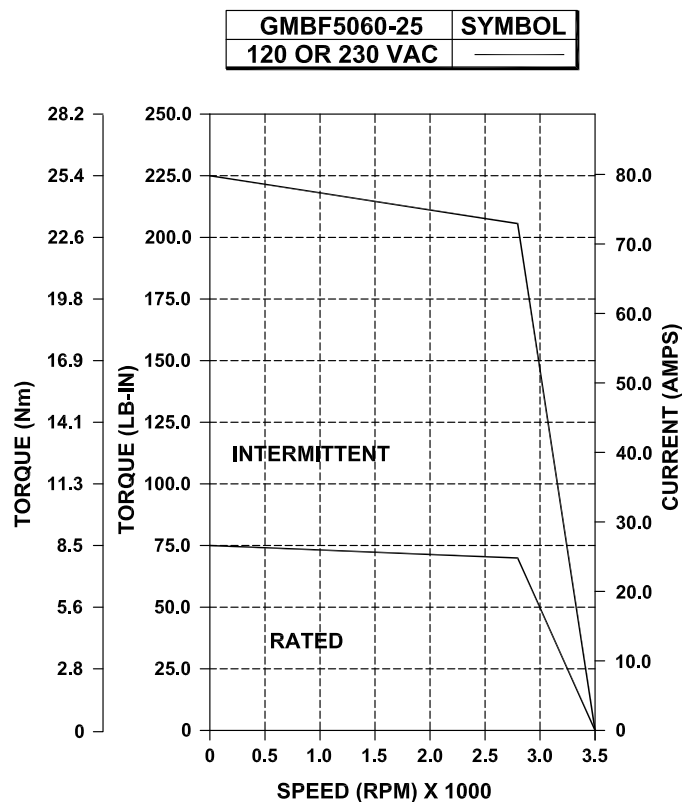
**NOTE:** All ratings based on a 25°C ambient temperature with the motor face mounted to a 14" x 14" x 3/4" aluminum heatsink.

## GMBF5040-75 PERFORMANCE DATA



<b>Power @ Rated Speed</b>	<b>HP</b>	1.02
	<b>KW</b>	0.76
<b>Speed, RPM</b>	<b>Max.</b>	2500
	<b>Rated</b>	2000
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	40
	<b>Nm</b>	4.52
	<b>Amps</b>	4.7
<b>Peak Stall Rating</b>	<b>Lb-in</b>	120.0
	<b>Nm</b>	13.56
	<b>Amps</b>	14.1
<b>Torque Constant</b>	<b>Lb-in/A</b>	8.47
	<b>Nm/A</b>	0.96
<b>Back EMF</b>	<b>V/Krpm</b>	75
<b>Resistance</b>	<b>Ohms</b>	3.5
<b>Inductance</b>	<b>mH</b>	28
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.019
	<b>Kg-m<sup>2</sup></b>	0.002147

## GMBF5060-25 PERFORMANCE DATA

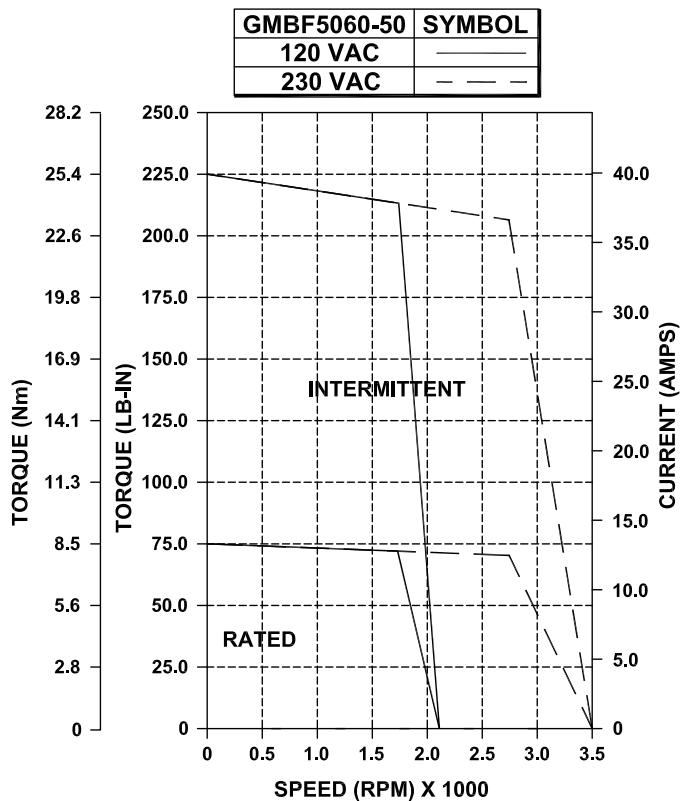


<b>Power @ Rated Speed</b>	<b>HP</b>	2.67
	<b>KW</b>	1.99
<b>Speed, RPM</b>	<b>Max.</b>	3500
	<b>Rated</b>	2800
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	75
	<b>Nm</b>	8.47
	<b>Amps</b>	26.6
<b>Peak Stall Rating</b>	<b>Lb-in</b>	225.0
	<b>Nm</b>	25.41
	<b>Amps</b>	79.8
<b>Torque Constant</b>	<b>Lb-in/A</b>	2.82
	<b>Nm/A</b>	0.32
<b>Back EMF</b>	<b>V/Krpm</b>	25
<b>Resistance</b>	<b>Ohms</b>	0.2
<b>Inductance</b>	<b>mH</b>	2
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.028
	<b>Kg-m<sup>2</sup></b>	0.003164

**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.

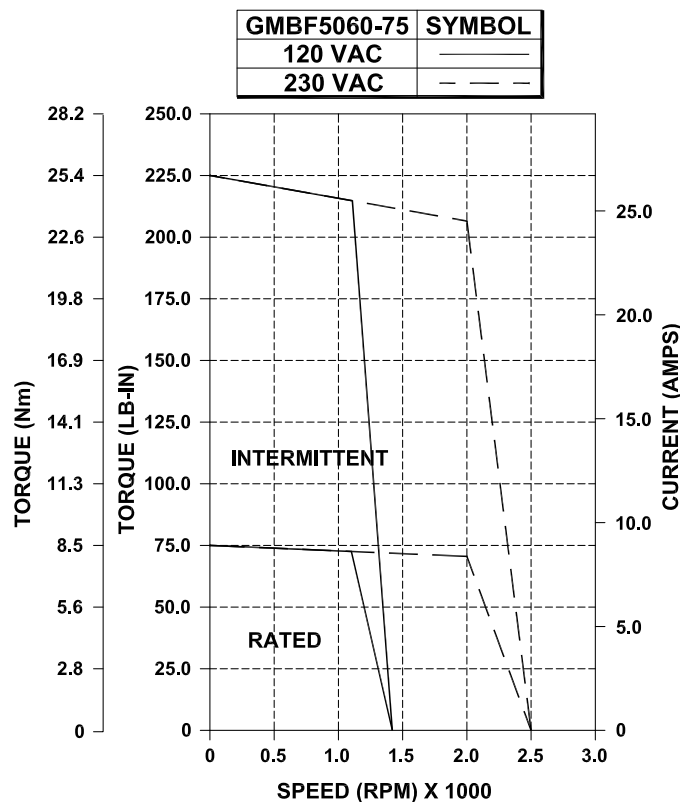


## GMBF5060-50 PERFORMANCE DATA



<b>Power @ Rated Speed</b>	<b>HP</b>	2.67
	<b>KW</b>	1.99
<b>Speed, RPM</b>	<b>Max.</b>	3500
	<b>Rated</b>	2800
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	75
	<b>Nm</b>	8.47
	<b>Amps</b>	13.3
<b>Peak Stall Rating</b>	<b>Lb-in</b>	225.0
	<b>Nm</b>	25.41
	<b>Amps</b>	39.9
<b>Torque Constant</b>	<b>Lb-in/A</b>	5.65
	<b>Nm/A</b>	0.64
<b>Back EMF</b>	<b>V/Krpm</b>	50
<b>Resistance</b>	<b>Ohms</b>	0.9
<b>Inductance</b>	<b>mH</b>	7
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.028
	<b>Kg-m<sup>2</sup></b>	0.003164

## GMBF5060-75 PERFORMANCE DATA



<b>Power @ Rated Speed</b>	<b>HP</b>	1.90
	<b>KW</b>	1.42
<b>Speed, RPM</b>	<b>Max.</b>	2500
	<b>Rated</b>	2000
<b>Cont. Stall Rating</b>	<b>Lb-in</b>	75
	<b>Nm</b>	8.47
	<b>Amps</b>	8.9
<b>Peak Stall Rating</b>	<b>Lb-in</b>	225.0
	<b>Nm</b>	25.41
	<b>Amps</b>	26.7
<b>Torque Constant</b>	<b>Lb-in/A</b>	8.47
	<b>Nm/A</b>	0.96
<b>Back EMF</b>	<b>V/Krpm</b>	75
<b>Resistance</b>	<b>Ohms</b>	2.1
<b>Inductance</b>	<b>mH</b>	11
<b>Armature Inertia</b>	<b>Lb-in-sec<sup>2</sup></b>	0.028
	<b>Kg-m<sup>2</sup></b>	0.003164

**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.



## GMBF5000 SERIES MODEL NUMBERING

This section explains the model numbering system for Glentek's GMBF5000 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.



- Magnet Type** F = Ferrite magnet
- Frame Size** 50 = 5.0" (8 pole) Motor
- Stack Length** 30 = 3.0 inch stack
- Back EMF Constant** 25 = 25 V/Krpm
- Dimensions** E = English
- Brake option** 0 = No brake installed
- Commutation Device** 0 = Brushless Resolver
- Number of Motor poles** 3 = 8 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



Magnet Type					
<b>F</b>	Ferrite magnets				
Frame Size					
<b>50</b>	5.0" Motor				
Stack Length					
<b>30</b>	3.0" Stack	<b>60</b>	6.0" Stack		
<b>40</b>	4.0" Stack				
Back EMF Constant					
3.0" Stack		4.0" Stack		6.0" Stack	
<b>25</b>	25V/Krpm	<b>25</b>	25V/Krpm	<b>25</b>	25V/Krpm
<b>50</b>	50V/Krpm	<b>50</b>	50V/Krpm	<b>50</b>	50V/Krpm
<b>61</b>	61V/Krpm	<b>75</b>	75V/Krpm	<b>75</b>	75V/Krpm
<b>75</b>	75V/Krpm				
For custom Back EMF, Please Contact Glentek					

Dimensions					
<b>E</b>	English	<b>M</b>	Metric	<b>N</b>	NEMA

Brake Option					
<b>0</b>	No brake installed	<b>1</b>	24 VDC Brake	<b>2</b>	Special

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

Number of Motor Poles	
<b>3</b>	8 pole

Flange Type					
<b>0</b>	Standard	<b>1</b>	Special	<b>5</b>	NEMA 56C

Shaft Type					
<b>0</b>	Standard	<b>1</b>	Special	<b>5</b>	NEMA 56C

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

Wiring Diagram (MS connector lead termination only)			
<b>0</b>	Glentek Standard	<b>1</b>	Special

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

**Factory Assigned Option**

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