


TORQUE RANGE: 2.6-10 IN-LBS
.29-1.13 Nm
Motor Data (Trap)

Motor Parameters		Units	661ATF****	661BT****	662ATF****	662BT****
Horsepower	Hp Rated	Hp	.15	.09	.22	.16
Kilowatts	KW Rated	KW	.11	.07	.16	.12
Max. Operating Speed	N Max	RPM	6000	3000	5000	3000
Speed @ Rated Torque	N Rated	RPM	4000	2500	4000	2500
*Continuous Rated Torque @ Rated Speed		IN-LBS[Nm]	2.3[.26]	2.3[.26]	3.4[.38]	4.0[.45]
*Continuous Stall Torque		IN-LBS[Nm]	2.6[.29]	2.6[.29]	5.0[.56]	5.0[.56]
Continuous Line Current		AMPS	3.0	1.53	2.5	1.6
Peak Torque	Tpk	IN-LBS[Nm]	7.8[0.9]	7.8[0.9]	15.1[1.7]	15.1[1.7]
Peak Current		AMPS	9.7	5.0	7.6	4.7
Max. Theoretical Accel.		RAD/SEC ²	118,182	118,182	155,670	155,670
Torque Sensitivity	Kt	IN-LBS/AMP[Nm/AMP]	1.03[.12]	2.0[.23]	2.0[.23]	3.2[.36]
Back EMF (Line to Line)	±10%	Vrms/Krpm	9.2	18.0	17.8	28.3
D.C. Resistance (P-P)	±10%	OHMS	6.9	31.9	8.4	18.5
Inductance (P-P)	±10%	MILLIHENRIES	7.7	29.4	11.6	26.4
Rotor Inertia	Jm	IN-LBS-SEC ² [Kg-M ²]	.000066[.0000075]	.000066[.0000075]	.000097[.0000109]	.000097[.0000109]
Static Friction	Tf	IN-LBS[Nm]	.35[.04]	.35[.04]	0.5[.06]	0.5[.06]
Motor Weight		LBS[Kg]	2.2[1.0]	2.2[1.0]	2.8[1.3]	2.8[1.3]
Line Voltage		VAC	110	110	110	110

Motor Parameters		Units	663ATF****	663BT****	664ATF****	664BT****
Horsepower	Hp Rated	Hp	.36	.19	.48	.34
Kilowatts	KW Rated	KW	.27	.14	.35	.26
Max. Operating Speed	N Max	RPM	5500	3300	6000	3600
Speed @ Rated Torque	N Rated	RPM	4500	2000	5000	2700
*Continuous Rated Torque @ Rated Speed		IN-LBS[Nm]	5.0[.56]	6.0[.68]	6.0[.68]	8.0[.90]
*Continuous Stall Torque		IN-LBS[Nm]	7.5[.85]	7.5[.85]	10.0[1.13]	10.0[1.13]
Continuous Line Current		AMPS	3.8	2.0	5.0	3.1
Peak Torque	Tpk	IN-LBS[Nm]	22.5[2.54]	22.5[2.54]	30.0[3.4]	30.0[3.4]
Peak Current		AMPS	11.3	7.0	15.0	9.4
Max. Theoretical Accel.		RAD/SEC ²	175,781	175,781	188,679	188,679
Torque Sensitivity	Kt	IN-LBS/AMP[Nm/AMP]	2.0[.23]	3.2[.36]	2.0[.23]	3.2[.36]
Back EMF (Line to Line)	±10%	Vrms/Krpm	17.8	28.3	17.8	28.3
D.C. Resistance (P-P)	±10%	OHMS	5.2	14.4	3.1	7.0
Inductance (P-P)	±10%	MILLIHENRIES	7.0	17.9	5.1	11.0
Rotor Inertia	Jm	IN-LBS-SEC ² [Kg-M ²]	.000128[.0000145]	.000128[.0000145]	.000159[.0000179]	.000159[.0000179]
Static Friction	Tf	IN-LBS[Nm]	.65[.073]	.65[.073]	0.8[.09]	0.8[.09]
Motor Weight		LBS[Kg]	3.2[1.5]	3.2[1.5]	3.8[1.7]	3.8[1.7]
Line Voltage		VAC	110	110	110	110

Brake Info:

Min. Holding Torque: 10 IN-LBS
Input Voltage: 24VDC
Current: .21 AMPS
Inertia: .000025 IN-LB-SEC²
Weight Adder: .8 LBS

*25° C Ambient with a maximum case temperature of 100° C on motor. Motor mounted on a 10" x 10" x 1/4" aluminum heatsink. Thermostat in stator windings will open if winding temperature exceeds 155° C for an approximate +10% headroom in the continuous torque rating before thermostat opens.

Mechanical Notes:

1. Axial Load: 15 LBS. Max.
 2. Radial Load: 20 LBS. Max. @ 1" from face
 3. Motor sealed to IP65
- Please note: MPM66*BTG**** are available


TORQUE RANGE: 2.6-10 IN-LBS
.29-1.13 Nm
Motor Data (Sine)

Motor Parameters		Units	661ASF****	661BSF****	662ASF****	662BSF****
Horsepower	Hp Rated	Hp	.15	.09	.22	.16
Kilowatts	KW Rated	KW	.11	.07	.16	.12
Max. Operating Speed	N Max	RPM	6000	3000	5000	3000
Speed @ Rated Torque	N Rated	RPM	4000	2500	4000	2500
*Continuous Rated Torque @ Rated Speed		IN-LBS[Nm]	2.3[.26]	2.3[.26]	3.4[.38]	4.0[.45]
*Continuous Stall Torque		IN-LBS[Nm]	2.6[.29]	2.6[.29]	5.0[.56]	5.0[.56]
Continuous Line Current		AMPS(RMS/φ)	2.1	1.1	1.8	1.1
Peak Torque	Tpk	IN-LBS[Nm]	7.8[0.9]	7.8[0.9]	15.1[1.7]	15.1[1.7]
Peak Current		AMPS(RMS/φ)	6.9	3.5	5.4	3.3
Max. Theoretical Accel.		RAD/SEC ²	118.182	118.182	155,670	155,670
Torque Sensitivity		Kt IN-LBS/AMP(RMS/φ)[Nm/AMP(RMS/φ)]	1.5[.16]	2.8[.32]	2.8[.32]	4.5[.51]
Back EMF (Line to Line)	±10%	Vrms/Krpm	9.2	18.0	17.8	28.3
D.C. Resistance (P-P)		OHMS	6.9	31.9	8.4	18.5
Inductance (P-P)		MILLIHENRIES	7.7	29.4	11.6	26.4
Rotor Inertia		Jm IN-LBS-SEC ² [Kg-M ²]	.000066[.0000075]	.000066[.0000075]	.000097[.0000109]	.000097[.0000109]
Static Friction		Tf IN-LBS[Nm]	.35[.04]	.35[.04]	0.5[0.06]	0.5[0.06]
Motor Weight		LBS[Kg]	2.2[1.0]	2.2[1.0]	2.8[1.3]	2.8[1.3]
Line Voltage		VAC	110	110	110	110

Motor Parameters		Units	663ASF****	663BSF****	664ASF****	664BSF****
Horsepower	Hp Rated	Hp	.36	.19	.48	.34
Kilowatts	KW Rated	KW	.27	.14	.35	.26
Max. Operating Speed	N Max	RPM	5500	3300	6000	3600
Speed @ Rated Torque	N Rated	RPM	4500	2000	5000	3000
*Continuous Rated Torque @ Rated Speed		IN-LBS[Nm]	5.0[.56]	6.0[.68]	6.0[.68]	8.0[.90]
*Continuous Stall Torque		IN-LBS[Nm]	7.5[.85]	7.5[.85]	10.0[1.13]	10.0[1.13]
Continuous Line Current		AMPS(RMS/φ)	2.7	1.4	3.5	2.2
Peak Torque	Tpk	IN-LBS[Nm]	22.5[2.54]	22.5[2.54]	30.0[3.4]	30.0[3.4]
Peak Current		AMPS(RMS/φ)	8.0	4.9	10.6	6.6
Max. Theoretical Accel.		RAD/SEC ²	175,781	175,781	188,679	188,679
Torque Sensitivity		Kt IN-LBS/AMP(RMS/φ)[Nm/AMP(RMS/φ)]	2.8[.32]	4.5[.51]	2.8[.32]	4.5[.51]
Back EMF (Line to Line)	±10%	Vrms/Krpm	17.8	28.3	17.8	28.3
D.C. Resistance (P-P)		OHMS	5.2	14.4	3.1	7.0
Inductance (P-P)		MILLIHENRIES	7.0	17.9	5.1	11.0
Rotor Inertia		Jm IN-LBS-SEC ² [Kg-M ²]	.000128[.0000145]	.000128[.0000145]	.000159[.0000179]	.000159[.0000179]
Static Friction		Tf IN-LBS[Nm]	.65[.073]	.65[.073]	0.8[0.09]	0.8[0.09]
Motor Weight		LBS[Kg]	3.2[1.5]	3.2[1.5]	3.8[1.7]	3.8[1.7]
Line Voltage		VAC	110	110	110	110

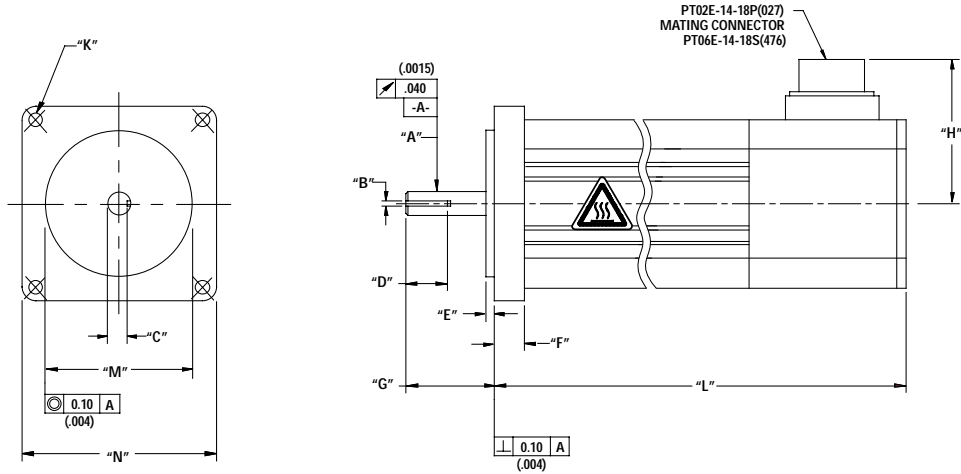
Brake Info:

Min. Holding Torque: 10 IN-LBS
Input Voltage: 24VDC
Current: .21 AMPS
Inertia: .000025 IN-LB-SEC²
Weight Adder: .8 LBS

*25° C Ambient with a maximum case temperature of 100° C on motor. Motor mounted on a 10" x 10" x 1/4" aluminum heatsink. Thermostat in stator windings will open if winding temperature exceeds 155° C for an approximate +10% headroom in the continuous torque rating before thermostat opens.

Mechanical Notes:

1. Axial Load: 15 LBS. Max.
 2. Radial Load: 20 LBS. Max. @ 1" from face
 3. Motor sealed to IP65
- Please note: MPM66*BTG****are available



2" (66) English and Metric Connectorized Termination-Option 1 Motors

Model	"A"	"B"	"C"	"D"	"E"	"F"
MPM662***6***	∅ .2500 (6.350) .2495 (6.337)	NA	NA	NA	.06 (1.6)	.46 (11.7)
MPM662***7***	∅ 8.000 (.3150) 7.991 (.3146)	2.000 (.0787) 1.971 (.0776)	6.68 (.263)	14.00 (.551) Min	3.0 (.12)	10.2 (.40)
MPM664***6***	∅ .2500 (6.350) .2495 (6.337)	NA	NA	NA	.06 (1.6)	.46 (11.7)
MPM664***7***	∅ 8.000 (.3150) 7.991 (.3146)	2.000 (.0787) 1.971 (.0776)	6.68 (.263)	14.00 (.551) Min	3.0 (.12)	10.2 (.40)

Model	"G"	"H"	"K"	"L"	"L" w/ Brake	"M"	"N"
MPM662***6***	.83 (21.1) .79 (20.1)	2.0 (51) Max	.205 (5.21) THRU (4) EQ SPD AS SHOWN ON ∅2.625 (66.68) B.C.	5.55 (140.9) Max	6.75 (171.5)	∅ 1.502 (38.15) 1.498 (38.05)	□ 2.25 (57.2)
MPM662***7***	30.5 (1.20) 29.5 (1.16)	51 (2.0) Max	∅5.00 (.197) THRU (4) EQ SPD AS SHOWN ON ∅80.00 (3.150) B.C.	139.5 (5.49) Max	169.9 (6.69)	∅ 50.000 (1.9685) 49.975 (1.9675)	□ 66.00 (2.598)
MPM664***6***	.83 (21.1) .79 (20.1)	2.0 (51) Max	.205 (5.21) THRU (4) EQ SPD AS SHOWN ON ∅2.625 (66.68) B.C.	6.75 (171.5) Max	7.95 (201.9)	∅ 1.502 (38.15) 1.498 (38.05)	□ 2.25 (57.2)
MPM664***7***	30.5 (1.20) 29.5 (1.16)	51 (2.0) Max	∅5.00 (.197) THRU (4) EQ SPD AS SHOWN ON ∅80.00 (3.150) B.C.	169.6 (6.69) Max	200.4 (7.89)	∅ 50.000 (1.9685) 49.975 (1.9675)	□ 66.00 (2.598)

English = 6
Metric = 7

2" Motor with Encoder Feedback

Option 1



Motor Brake Encoder Connector 270-00219 (PT02E-16-23P (027))

Pin	Function	Wire Color
A	ϕ R	RED
B	ϕ S	BLACK
C	ϕ T	BLUE
D	PE GND	GRN/YEL
T	GND	BLACK
E	+5VDC	RED
F	CH A	BLUE
U	CH A\	BLUE/BLK
G	CH B	GREEN
V	CH B\	GRN/BLK
H	CH Z	YELLOW
W	CH Z\	YEL/BLK
J	CH U	BROWN
K	CH U\	BRN/BLK
X	CH V	GRAY
L	CH V\	GRAY/BLK
Y	CH W	WHITE
M	CH W\	WHT/BLK
N	GND/CABLE	SHLD
S	THERM	BLACK
R	THERM	BLACK
*P	BRK (+) 	DIODE
*Z	BRK (-) 	1N4007

*USE ONLY WITH BRAKE OPTION

Option 2

Motor Connector 270-00256 (BEGA089NN000009000)

Pin	Function	Wire Color
1	ϕ R	RED
2	ϕ S	GRN/YEL
3	ϕ T	BLACK
4	ϕ T	BLUE
*A	BRK (+) 	DIODE
*B	BRK (-) 	1N4007
C	THERM	BLACK
D	THERM	BLACK

*USE ONLY WITH BRAKE OPTION



Encoder Connector 270-00257 (AEGA052NN0000013000)

Pin	Function	Wire Color
1	GND (0V)	BLACK
2	CH A\ (A)	BLUE/BLK
3	CH A (A)	BLUE
4	CH B (B)	GREEN
5	CH B\ (B)	GRN/BLK
6	CH Z (Z)	YELLOW
7	CH Z\ (Z)	YEL/BLK
8	+5V (+5V)	RED
9	-	-
10	CH U (RLG U)	BROWN
11	CH V (RLG V)	GRAY
12	CH W (RLG W)	WHITE

2" Motor with Resolver Feedback

Option 1



Motor Connector 270-00024 (PT02E-14-18P (027))

Pin	Function	Wire Color
A	ϕ R	RED
B	ϕ S	BLACK
C	ϕ T	BLUE
D	PE GND	GRN/YEL
U	THERM	BLACK
N	THERM	BLACK
H	SIN	YELLOW
G	COS GND	BLACK
S	COS	RED
F	SIN GND	BLUE
R	REF GND	YEL/WHT
E	REF	RED/WHT
J	RES SHLD	GRN/YEL
*K	BRK (+) 	DIODE
*L	BRK (-) 	1N4007
*M	BRK SHLD	-
P	-	-
T	-	-

*USE ONLY WITH BRAKE OPTION

Option 2

Motor Connector 270-00256 (BEGA089NN000009000)

Pin	Function	Wire Color
1	ϕ R (U1)	RED
2	PE GND	GRN/YEL
3	ϕ T (W1)	BLUE
4	ϕ S (V1)	BLACK
*A	BRK (+) 	DIODE
*B	BRK (-) 	1N4007
C	THERM	BLACK
D	THERM	BLACK

*USE ONLY WITH BRAKE OPTION

Resolver Connector 270-00257 (AEGA052NN00000013000)

Pin	Function	Wire Color
1	-	-
2	REF (R1)	RED/WHT
3	REF GND (R2)	YEL/WHT
4	COS GND (S1)	BLACK
5	COS (S3)	RED
6	SIN (S2)	YELLOW
7	SIN GND (S4)	BLUE
8	-	-
9	-	-
10	-	-
11	-	-
12	-	-