

MIDWEST MOTION PRODUCTS

“Technical Performance Specs – Off-The-Shelf Motion Products”

Gearmotor Sizing KEY:

TM 22 = 22 mm Diameter
G13 = 1.3" Diameter
G15 = 1.5" Diameter
TM40 = 40mm (1.57") Diameter
TM55 = 55mm (2.2") Diameter
C21, S23 & B23 = 2.25" Diameter
S28 = 3.2" Diameter
C40 = 4.0" Diameter

****CLICK HERE FOR DETAILED (pdf) SPEC SHEETS FOR ANY ITEMS
(will email within 24 hours)****

Date: 05/22/2006

Section 1: DC Gearmotors

Note: The “Output Torque” values listed are CONTINUOUS-
**PEAK Values are available in the detailed specs **

MMP TM 16 GEARMOTOR SERIES

<u>Model Number</u>	<u>Input Voltage</u>	<u>Input Current</u>	<u>Output Speed</u>	<u>Output Torque</u>	<u>Qty O/H</u>
MMP TM 16-12V GP-084	12 VDC	0.20 A	87 RPM	700 g-Cm	1

MMP TM 22 GEARMOTOR SERIES:

<u>Model Number</u>	<u>Input Voltage</u>	<u>Input Current</u>	<u>Output Speed</u>	<u>Output Torque</u>	<u>Qty O/H</u>
MMP TM 22-12V GP-016	12 VDC	0.20 A	416 RPM	222 g-Cm	9
MMP TM 22-12V GP-053	12 VDC	0.20 A	125 RPM	617 g-Cm	9
MMP TM 22-12V GP-072	12 VDC	0.20 A	92 RPM	843 g-Cm	6
MMP TM 22-12V GP-104	12 VDC	0.20 A	64 RPM	1210 g-Cm	8
MMP TM 22-12V GP-370	12 VDC	0.20 A	18 RPM	3000 g-Cm	8
MMP TM 22-12V GP-1014	12 VDC	0.20 A	7 RPM	3000 g-Cm	6
MMP TM 22-24V GP-004	24 VDC	0.11 A	1800 RPM	61 g-Cm	9
MMP TM 22-24V GP-005	24 VDC	0.11 A	1440 RPM	73 g-Cm	8
MMP TM 22-24V GP-014	24 VDC	0.11 A	514 RPM	185 g-Cm	9
MMP TM 22-24V GP-019	24VDC	0.11 A	416 RPM	222 g-Cm	8
MMP TM 22-24V GP-025	24VDC	0.11 A	288 RPM	284 g-Cm	5
MMP TM 22-24V GP-316	24VDC	0.11 A	23 RPM	3000 g-Cm	6

MMP G-13 GEARMOTOR SERIES:

<u>Model Number</u>	<u>Input Voltage</u>	<u>Input Current</u>	<u>Output Speed</u>	<u>Output Torque</u>	<u>Qty O/H</u>
MMP G13-12V GS-60.5	12 VDC	0.8 A	86 RPM	66 oz in	0
MMP G13-12V GS-095	12 VDC	0.8 A	55 RPM	100 oz in	0
MMP G13-12V-2 GS 188	12 VDC	0.8 A	28 RPM	100 oz in	10
MMP G13-12V GS-582	12 VDC	0.8 A	9.0 RPM	100 oz in	3
MMP G13-12V-922	12 VDC	0.8 A	5.6 RPM	100 oz in	1

MMP G-15 GEARMOTOR SERIES:

<u>Model Number</u>	<u>Input Voltage</u>	<u>Input Current</u>	<u>Output Speed</u>	<u>Output Torque</u>	<u>Qty O/H</u>
MMP G15-12V GT-036	12 VDC	2.3 A	144 RPM	102 oz in	2
MMP G15-12V GT-100	12 VDC	2.3 A	52 RPM	220 oz. in	2
MMP G15-24V GT-100	24 VDC	3.0 A	52 RPM	220 oz. in	1
MMP G15-24V GT-144	24 VDC	3.0 A	36 RPM	290 oz in	0
MMP G15-24V GT-180	24 VDC	3.0 A	29 RPM	345 oz in	1
MMP G15-24V GT-256	24 VDC	3.0 A	20 RPM	495 oz in	2
MMP G15-24V GT-400	24 VDC	3.0 A	12 RPM	705 oz in	4
MMP G15-24V HS/GT-120	24 VDC	3.0 A	70 RPM	352 oz in	2
MMP G15-24V GS-020 (Spur Gear)	24 VDC	1.0 A	260 RPM	57 oz in	2

For a Quick Quote email: randy@midwestmotion.com

Note: Products with a “zero” quantity on hand indicate standard products that are normally stocked. Leadtime to replenish Stock should be minimal.

**MMP TM40-12V GEARMOTOR SERIES:**

<u>Model Number</u>	<u>Input Voltage</u>	<u>Input Current</u>	<u>Output Speed</u>	<u>Output Torque</u>	<u>Qty O/H</u>
MMP TM40-36-12V GPK42-007	12 VDC	2.2 A	250 RPM	4.9 in lb	0
MMP TM40- -12V GP42-029	12 VDC	6.3 A	224 RPM	264 in lb	1
MMP TM40-24-12V GP42-035	12 VDC	2.8 A	100 RPM	19.7 in lb	1

MMP TM40-24V GEARMOTOR SERIES:



Model Number	Input Voltage	Input Current	Output Speed	Output Torque	Qty O/H
MMP TM40-36-24V GP42-124	24 VDC	2.2 A	32 RPM	133 in lb	0

MMP TM55-12V GEARMOTOR SERIES:



Model Number	Input Voltage	Input Current	Output Speed	Output Torque	Qty O/H
MMP TM55-12V GPK52-007	12 VDC	7.0 A	657 RPM	7.5 in lb	7
MMP TM55-12V GPK52-016	12 VDC	7.2 A	281 RPM	16 in lb	3
MMP TM55-12V GPK52-022	12 VDC	7.2 A	209 RPM	22 in lb	2
MMP TM55-12V GPK52-029	12 VDC	7.2 A	155 RPM	29 in lb	5
MMP TM55-12V GP52-035	12 VDC	7.5 A	131 RPM	35 in lb	2
MMP TM55-12V GP52-046	12 VDC	7.5 A	107 RPM	45 in lb	2
MMP TM55-24V GP52-079	12 VDC	7.5 A	58 RPM	79 in lb	1
MMP TM55-12V GP52-100	12 VDC	7.5 A	50 RPM	100 in lb	2
MMP TM55-12V GPK52-169	12 VDC	7.2 A	27 RPM	158 in lb	2
MMP TM55-12V GP52-308	12 VDC	7.2 A	15 RPM	310 in lb	2

NOTES: MANY OF THE ABOVE PRODUCTS ARE "IP54" SEALED DESIGNS, FOR USE IN HARSH ENVIRONMENTS

For a Quick Quote email: randy@midwestmotion.com

Note: Products with a "zero" quantity on hand indicate standard products that are normally stocked. Leadtime to replenish Stock should be minimal.



MMP TM55-24V GEARMOTOR SERIES:

Model Number	Input Voltage	Input Current	Output Speed	Output Torque	Qty O/H
MMP TM55-24V GPK52-007	24 VDC	3.6 A	643 RPM	7.5 in lb	3
MMP TM55-24V GPK52-016	24 VDC	3.6 A	281 RPM	16.1 in lb	4
MMP TM55-24V GPK52-022	24 VDC	3.6 A	205 RPM	22 in lb	2
MMP TM55-24V GPK52-029	24 VDC	3.6 A	160 RPM	29 in lb	5
MMP TM55-24V GPK52-035	24 VDC	3.6A	131 RPM	35 in lb	2
MMP TM55-24V GPK52-046	24 VDC	3.6 A	100 RPM	46 in lb	2
MMP TM55-24V GP52-079	24 VDC	3.0 A	58 RPM	79 in lb	1
MMP TM55-24V GP52-100	24 VDC	3.6 A	46 RPM	100 in lb	2
MMP TM55-24V GP52-169	24 VDC	3.6 A	27 RPM	170 in lb	3
MMP TM55-24V GP52-308	24 VDC	3.6 A	15 RPM	309 in lb	3



MMP TM55-36V GEARMOTOR SERIES:

Model Number	Input Voltage	Input Current	Output Speed	Output Torque	Qty O/H
MMP TM55-36V GPK52-007	36 VDC	2.6 A	700 RPM	7.5 in lb	3
MMP TM55-36V GPK52-016	36 VDC	2.6 A	281 RPM	16 in lb	2
MMP TM55-36V GPK52-022	36 VDC	2.6 A	205 RPM	22 in lb	1
MMP TM55-36V GPK52-029	36 VDC	2.6 A	155 RPM	29 in lb	2
MMP TM55-36V GPK52-046	36 VDC	2.6 A	98 RPM	46 in lb	1
MMP TM55-36V GP52-100	36 VDC	2.6 A	45 RPM	100 in lb	2
MMP TM55-36V GP52-169	36 VDC	2.6 A	27 RPM	170 in lb	1
MMP TM55-36V GP52-308	36 VDC	2.6 A	15 RPM	310 in lb	1

Note: Products with a “zero” quantity on hand indicate standard products that are normally stocked. Leadtime to replenish Stock should be minimal.



MMP S23 GEARMOTOR SERIES:

Model Number	Input Voltage	Input Current	Output Speed	Output Torque	Qty O/H
MMP S23-100H-12V GPK52-007	12 VDC	5.3 A	215 RPM	17 IN. LB.	1
MMP S23-100H-24V GPK52-007	24 VDC	5.3 A	430 RPM	17 IN. LB.	1
MMP S23-100F-12V GP52-016	12 VDC	8.1 A	150 RPM	38 IN. LB.	0
MMP S23-100F-24V GP 52-016	24 VDC	8.1 A	300 RPM	38 IN. LB.	0
MMP S23-100F-24V GP 52-025	24 VDC	8.1 A	192 RPM	58 IN. LB.	1
MMP S23-100H-24V GP52-046	24 VDC	5.3 A	65 RPM	108 IN. LB.	1

NOTES: MANY OF THE ABOVE PRODUCTS ARE "IP54" SEALED DESIGNS, FOR USE IN HARSH ENVIRONMENTS

MMP BL3056 BRUSHLESS GEARMOTOR SERIES: (HALL CELL COMMUATION)

Model Number	Input Voltage	Input Current	Output Speed	Output Torque	Qty O/H
MMP BL3056-24V GPT-019	24 VDC	3.6A	374 RPM	5.2 IN LBS	4
MMP BL3056-24V GPT-071 E-1024 (With Integral Optical Encoder)	24VDC	3.6A	100 RPM	9.3 IN LBS	4



MMP B23 BRUSHLESS GEARMOTOR SERIES(HALL CELL COMMUATION) :

Model Number	Input Voltage	Input Current	Output Speed	Output Torque	Qty O/H
MMP B23-150H-24V GP 52-035 WITH 5 IN LB, 24V BRAKE	24 VDC	8.7 A	72 RPM	145 IN. LB.	0

MMP S28 GEARMOTOR SERIES:

Model Number	Input Voltage	Input Current	Output Speed	Output Torque	Qty O/H
MMP S28 150C-24V GP81-014	24 VDC	13 A	250 RPM	72 in lb	1
MMP S28 150C-24V GP81-035	24 VDC	13 A	100 RPM	180 in lb	1
MMP S28 200B-24V GP81-046	24 VDC	14 A	70 RPM	280 in lb	1
MMP S28 100F-48V GPL65-038	48 VDC	8 A	130 RPM	21 nm	1
MMP S28 200G-48V GP81-014	48 VDC	4.6 A	129 RPM	85 in lb	0
MMP S28 200G-90V GP81-014	90 VDC	4.6 A	264 RPM	85 in lb	1

NOTES: MANY OF THE ABOVE PRODUCTS ARE "IP54" SEALED DESIGNS, FOR USE IN HARSH ENVIRONMENTS

MMP PDSF80 GEARMOTOR SERIES:



<u>Model Number</u>	<u>Input Voltage</u>	<u>Input Current</u>	<u>Output Speed</u>	<u>Output Torque</u>	<u>Qty O/H</u>
MMP PDSF80-12V GS-018	12 VDC	5.2 A	167 RPM	26 in lb	1
MMP PDSF80-12V GS-050	12 VDC	5.2 A	60 RPM	58 in lb	1
MMP PDSF80-12V GS-060	12 VDC	5.2 A	50 RPM	70 in lb	2
MMP PDSF80-12V GS-075	12 VDC	5.2 A	40 RPM	70 in lb	1
MMP PDSF80-12V GS-120	12 VDC	5.2 A	25 RPM	70 in lb	1
MMP PDSF80-12V GS-180	12 VDC	5.2 A	17 RPM	70 in lb	1
MMP PDSF80-12V-LS GS-180	12 VDC	4.0 A	10 RPM	70 in lb	18
MMP PDSF80-12V-LS GS-180-7.5	12 VDC	4.0 A	7.5 RPM	70 in lb	25
MMP PDSF80-90V GS-180	90 VDC	1.0 A	17 RPM	70 in lb	1
MMP PDSF80-12 V GRA-049 RIGHT ANGLED GEARMOTOR	12 VDC	10.0 A	76 RPM	115 in lb	2

For a Quick Quote email: randy@midwestmotion.com



MMP C21 GEARMOTOR SERIES:

<u>Model Number</u>	<u>Input Voltage</u>	<u>Input Current</u>	<u>Output Speed</u>	<u>Output Torque</u>	<u>Qty O/H</u>
MMP C21-125D-12V GP52-005	12 VDC	3.8 A	520 RPM	4.8 lb in	3
MMP C21-125D-12V GP52-046	12 VDC	3.8 A	58 RPM	40.3 lb in	1
MMP C21-125D-24V GP52-005	24 VDC	3.8 A	1000 RPM	6.0 lb in	0
MMP C21-125D-24V GP52-014	24 VDC	3.8 A	357 RPM	15 lb in	0



MMP C40 GEARMOTOR SERIES:

<u>Model Number</u>	<u>Input Voltage</u>	<u>Input Current</u>	<u>Output Speed</u>	<u>Output Torque</u>	<u>Qty O/H</u>
MMP C40-300FX-12V GP81-007	12 VDC	66 A	257 RPM	146 lb in	1

Note: Products with a “zero” quantity on hand indicate standard products that are normally stocked. Leadtime to replenish Stock should be minimal.

Section 2: DC Motors, Servomotors, Motor / Tachometers:

MMP TM40 PM DC Motor Series: 1.57" Diameter

<u>Model Number</u>	<u>Input Voltage</u>	<u>Input Current</u>	<u>Output Speed</u>	<u>Output Torque</u>	<u>Qty O/H</u>
MMP TM 40-12V	12 VDC	5.4A	7000 RPM	12 Oz. In.	25
MMP TM 40-24V	24VDC	2.7A	7000 RPM	12 Oz. In.	20
MMP TM 40-36V	36 VDC	1.9A	7000 RPM	12 Oz. In.	23

MMP TM55 PM DC Motor Series: 2.2" Diameter

<u>Model Number</u>	<u>Input Voltage</u>	<u>Input Current</u>	<u>Output Speed</u>	<u>Output Torque</u>	<u>Qty O/H</u>
MMP TM 55-12V	12 VDC	7.2A	4600 RPM	23 Oz. In.	42
MMP TM 55-24V	24VDC	3.6A	4600 RPM	23 Oz. In.	19
MMP TM 55-36V	36 VDC	2.6A	4600 RPM	23 Oz. In.	24



MMP S28 ServoMotor Series 2.8" Diameter:

<u>Model Number</u>	<u>Input Voltage</u>	<u>Input Current</u>	<u>Output Speed</u>	<u>Output Torque</u>	<u>Qty O/H</u>
MMP S28-400A-24V BR-015 T-007 Contains integral Tach and Brake	24 VDC (Tach = 7 V/Krpm)	5.9 A	1900 RPM	15.6 lb in (Brake= 15 Lb In.)	2

Note: Products with a "zero" quantity on hand indicate standard products that are normally stocked. Leadtime to replenish Stock should be minimal

Section 3: Linear Actuators



LA-3 LINEAR ACTUATOR SERIES:

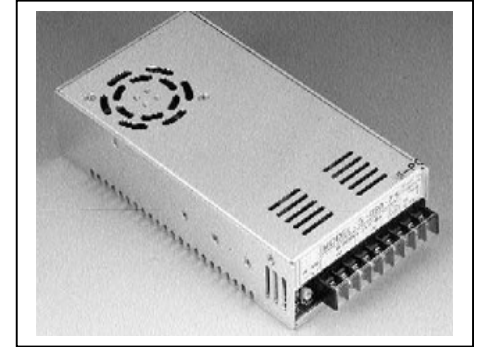
Model Number	Input Voltage	Gear Ratio	Stroke Length	Stroke Speed	Output Force	Qty O/H
MMP LA 3-12V-5-A-50mm	12 VDC	5:1	50mm	45mm/Sec	27 lbs	0
MMP LA 3-12V-20-A-50mm	12 VDC	20:1	50mm	12mm/Sec	112 lbs	3
MMP LA 3-12V-20-A-50mm-IP65-P	12 VDC	20:1	50mm	12mm/Sec	112 lbs	4
MMP LA 3-12V-30-A-50mm	12 VDC	30:1	50mm	8mm/Sec	169 lbs	1
MMP LA 3-12V-5-A-100mm	12 VDC	5:1	100mm	45mm/Sec	27 lbs	0
MMP LA 3-12V-10-A-100mm	12 VDC	10:1	100mm	22mm/Sec	54 lbs	3
MMP LA 3-12V-20-A-100mm	12 VDC	20:1	100mm	12mm/Sec	112 lbs	3
MMP LA 3-12V-30-A-100mm IP65	12 VDC	30:1	100mm	8mm/Sec	169 lbs	1
MMP LA 3-12V-10-A-150mm	12 VDC	10:1	150mm	22mm/Sec	54 lbs	1
MMP LA 3-12V-20-A-150mm IP	12 VDC	20:1	150mm	12mm/Sec	112 lbs	0
MMP LA 3-12V-30-150mm IP 65	12 VDC	30:1	150mm	8mm/Sec	169 lbs	5
MMP LA 3-12V-10-A-200mm	12 VDC	10:1	200mm	22mm/Sec	54 lbs	5
MMP LE-8-12V-20:1-450mm	12 VDC	20:1	450mm	13mm /Sec	506 Lbs	2
MMP LA 3-24V-5-A-50mm	24 VDC	5:1	50mm	45mm/Sec	27 lbs	6
MMP LA 3-24V-10-A-50mm-P-IP65	24 VDC	10:1	50mm	22mm/Sec	54 lbs	1
MMP LA 3-24V-20-A-50mm	24 VDC	20:1	50mm	12mm/Sec	112 lbs	3
MMP LA 3-24V-30-A-50mm	24 VDC	30:1	50mm	8mm/Sec	169 lbs	5
MMP LA 3-24V-10-A-50mm	24 VDC	10:1	50mm	22mm/Sec	54 lbs	3
MMP LA 3-24V-5-A-100mm	24 VDC	5:1	100mm	45mm/Sec	27 lbs	8
MMP LA-3 24V 10-A-100mm	24 VDC	10:1	100mm	22mm/sec	54 lbs	4
MMP LA-3-24V 30-A-150mm	24 VDC	30:1	150mm	8mm / Sec	169 lbs	1
MMP LA 3-24V-20-A-300mm	24 VDC	20:1	300mm	12mm/Sec	112 lbs	2
MMP LA-3-24V-30-A-300mm-IP65	24 VDC	30:1	300mm	8mm / Sec	169 Lbs	3

For a Quick Quote email: randy@midwestmotion.com

Note: Products with a "zero" quantity on hand indicate standard products that are normally stocked. Leadtime to replenish Stock should be minimal.

Section 4: Servo Amplifiers, Motor Speed Controls & AC → DC Power Supplies*

<u>Item</u>	<u>Model #</u>	<u>Description</u>
A.)	MMP 25A-12 V	12 Volt, 25 Amp Motor Speed Control, IP-65 Sealed, Potted Design
B.)	MMP 25A-24 V	24 Volt, 25 Amp Motor Speed Control, IP-65 Sealed, Potted Design
C.)	MMP 25A-48V	48 Volt, 25 Amp Motor Speed Control, IP-65 Sealed, Potted Design
D.)	MMP-M815-BR	20-80 Volt DC, 8 A cont. 15A peak PWM Brushed Motor Servo Drive
E.)	MMP-M815-BL	20-80 Volt DC, 8 A cont. 15A peak PWM Brushless Motor Servo Drive
F.)	MMP-M1224-BL	200-360 VDC, 12A Cont, 24A peak, Brushless Servo Drive
G.)	MMP M1525-BL	60-170 VDC, 15A Cont, 25A peak, Brushless Servo Drive
H.)	MMP 20A-12V-RSP	12 Volt, 20 Amp Motor Speed Control with Built-In Reversing Switch & Speed Pot (Sealed Design)
I.)	MMP-PS-320-12V	AC to DC Power Supply, 88-264 VAC In, 12VDC adjustable voltage, to 25 Ampere output current
J.)	MMP-PS-320-24V	AC to DC Power Supply, 88-264 VAC In, 24VDC adjustable voltage, to 12.5 Ampere output current
K.)	MMP-PS-320-48V	AC to DC Power Supply, 88-264 VAC In, 48VDC adjustable voltage, to 6.7 Ampere output current
L.)	MMP 115VAC-12VDC	Motor Speed Control accepts 115 VAC input, provides variable speed to 12 Volt DC Motors



* Items are generally available from stock but are subject to availability and existing demands. Please contact our sales department for availability confirmation. Lists are updated Monthly
Additional Product Photos Pending

For a Quick Quote email: randy@midwestmotion.com

Complete pdf Spec Sheets for each Product available via email (see below)

Power Supplies, Optional Encoders, integral Tachs and Integral DC Failsafe Brakes available. Contact our Sales Department for further details.

ASK FOR YOUR FREE COPY OF OUR NEW "e-CATALOG" ON CD-ROM

Your contact: Randy Cordes, Applications / Sales

MIDWEST MOTION PRODUCTS

10761 Ahern Avenue SE Watertown, MN. 55388

Phone: 952-955-2626 Fax: 480-247-4096

Web: www.midwestmotion.com E-mail: randy@midwestmotion.com

~1978~ "Celebrating 28 Years of service to the Motion Control Industry" ~2006~