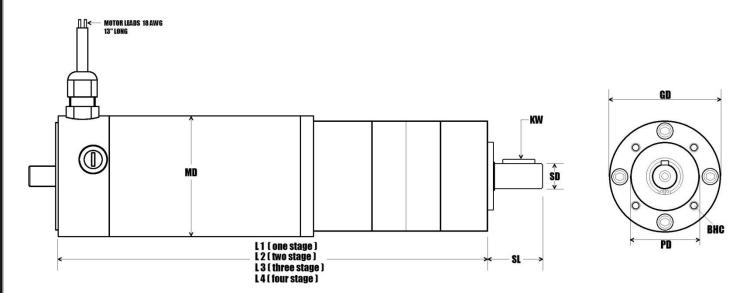


Model Number: MMP D22-490G-48V GP52-007



Note: Rear Shaft Extension for Optional Encoders & Failsafe Brakes. See Pages 2 and 3 for details.

DIMENSIONS: (Note: Center of output shaft contains an M-6 threaded hole)

 $\overline{MD} = 2.25$ " (57mm) SL = 25mm (usable shaft length = 21mm)

L1 = 7.68" (195mm) GD = 2.045" (52mm)

 $KW = 2H \times 4W \times 16mm$ long PD = 32mm, pilot length = 3mm

SD = 12mm; +0, -21 μ m BHC = M5 x 10mm deep (4 ea) on a 40mm Ø BC

DC MOTOR PERFORMANCE PARAMETERS:	VALUE	UNITS	TOLERANCE	
Rated DC Voltage	48.0	DC VOLTS		
Rated Continuous Current	2.35	AMPERES		
No-Load Speed	3810	RPM	MAX	
Rated Speed	3350	RPM	+/- 15%	
Rated Continuous Power Out	99	WATTS	+/- 15%	
Rated Continuous Torque	40.0	OZ-IN		
Peak Torque (motor only)	280	OZ-IN		
No-Load Current	0.29	AMPERES	MAX	
Back EMF Constant (Ke)	12.6	V/KRPM	+/- 10%	
Torque Constant (Kt)	17.0	OZ-IN/AMP	+/- 10%	
DC Armature Resistance (@1.5 amps)	2.19	OHMS	+/- 15%	
Armature Inductance	3.32	mH	+/- 15%	
Armature temperature	155	DEG. C	MAX	
PLANETARY GEARMOTOR OUTPUT PARAMETERS:	VALUE	UNITS	TOLERANCE	
Gearhead Ratio (exact)	6.75 : 1		_	
Gearmotor Rated Continuous Torque	14	IN-LBS	MAX	
Gearmotor Rated Peak Torque	70++	IN-LBS	MAX	
Gearhead Shaft Output Speed (at full-load)	496	RPM		
Gearhead Standard Backlash	42	ARC MINUTES	MAX	
Gearhead Efficiency	80%			
Gearmotor Total Weight	4.0	LBS	MAX	
++ All Peak Torque Values are dependent upon duty. Consult our Sales Offices for details				

++ All Peak Torque Values are dependent upon duty. Consult our Sales Offices for details.

THIS ROBUST, TENV DESIGN WITH 'TRUE PLANETARY GEARING' IS OFFERED BY:

MIDWEST MOTION PRODUCTS

Design, Manufacturing & Distribution - Motion Control Equipment

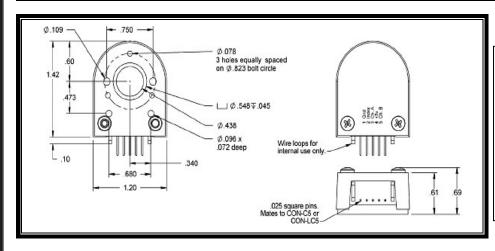
Phone: 952-955-2626 Fax: 480-247-4096

www.midwestmotion.com email:sales@midwestmotion.com



Option1: Optical Encoder Option

Contact sales for pricing



EU-Series Interconnects/Functions			
<u>Pin #:</u>	Function:	Color:	
Pin 1	Ground	Brown	
Pin 2	Index	Violet	
Pin 3	Channel A	Blue	
Pin 4	+ 5 Volts	Orange	
Pin 5	Channel B	Yellow	

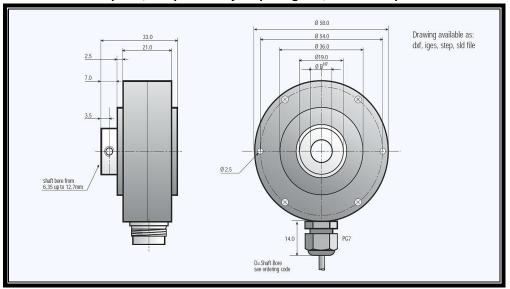
**Encoder resolutions available: 32 PPR, 100 PPR, 250 PPR, 500 PPR, 1024 PPR

(Use suffix "EU-xxx" after model # to designate the encoder and its resolution)

The standard modular encoder option, mounted integrally to the back of the motor, includes an index pulse, and 12" long flying leads with connector - mounted and tested before shipping.

Option2: "IP-65" Optical Encoder 512 / 1000 PPR Contact sales for pricing

Features index pulse, complementary output signals, IP-65 rated protection for harsh environments, 6 ft long cable.



Ei-Series Interconnects/Functions:		
Function:	Color:	
O Volts	White	
+ Volts	Brown	
A	Green	
В	Yellow	
0	Grey	
A-	Pink	
B-	Blue	
0-	Red	

*Encoder Resolution 512 or 1000 PPR available from stock, with many others available.

Use Suffix "Ei-xxx" after model # to designate encoder and resolution.

Consult our sales office for details.



Option 3: Integral Brake Option

Contact sales for pricing

The MMP small frame gearmotors and motors, including the MMP D22 Series, MMP S22 Series and MMP BL58 (brushless) series are sufficiently served by a 5 in-lb brake, when used correctly.

The standard brake dimensions are as follows:

Typical dimensions 1.8" Diameter by 1.3" Long, with 24" leadwires

Typical (24v) brake current = 375 mA; All brakes (12v, 24v, 36v and 48v, 90vDC and 115VAC) are 9 Watt devices

Use suffix "BR-005" after model # to designate the brake and its' Holding Torque.

IMPORTANT NOTE: IF THE BRAKE IS TO BE ENERGIZED BY A VOLTAGE LEVEL OTHER THAN THE SPECIFIED OPERATING VOLTAGE OF THE MOTOR, PLEASE SPECIFY THE BRAKE OPERATING VOLTAGE SEPARATELY. IF NOT OTHERWISE NOTED, IT IS ASSUMED THAT THE BRAKE'S COIL VOLTAGE WILL MATCH THAT OF THE MOTOR.

Please specify "BR-005" for standard "holding" brake (not to be used for dynamic braking)

This part number suffix also identifies a "Failsafe" type brake. (engages in the ABSENCE of input power to the coil).

For a "Power ON" brake, or a brake that is engaged with POWER APPLIED, please specify part number suffix "BR-005n".

Both of the above mentioned brakes are integrally mounted to the back of the motor, and are equipped with mounting holes and a shaft extension for an encoder.

The rear surface of the standard brake doubles as an encoder mounting surface. Most MMP brake motors and gearmotors are designed to include encoder compatibility.

*For additional details or assistance configuring the model number for brake and encoder options, please feel free to contact our sales offices.

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