

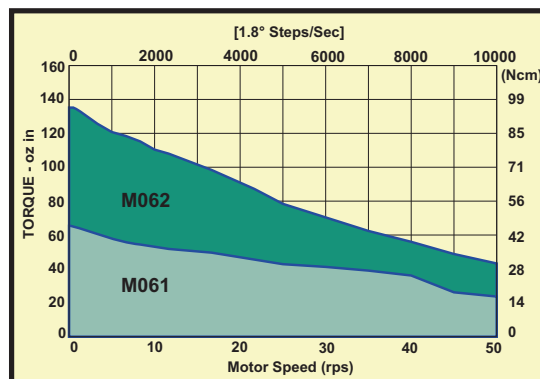
# M06

## Standard 60mm Frame Size (NEMA Size 23)



### Performance Envelope

(see page DC11 for detailed torque-speed curves)



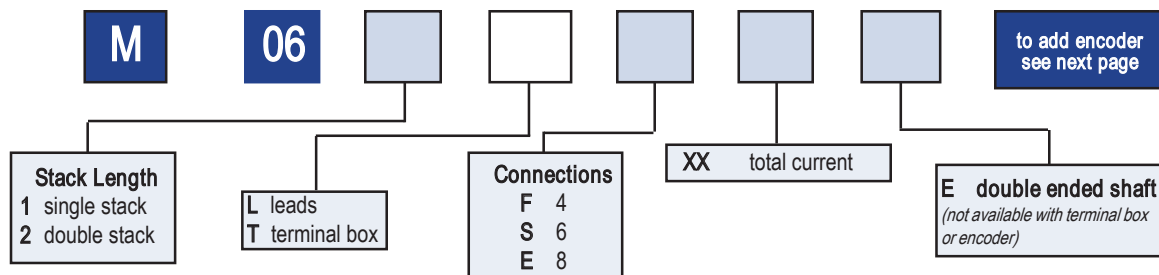
- ◆ Up to 150% rated torque reserve capacity
- ◆ ± 3% typical step accuracy
- ◆ Standard terminal box, encoders, and precision gearheads available
- ◆ Available with four, six or eight leads
- ◆ Customized configurations available



Motor Frame	Minimum Holding Torque		Rotor Inertia oz-in-s <sup>2</sup> (kg-cm <sup>2</sup> )	Weight		Maximum Shaft Load		Minimum Residual Torque oz-in (Ncm)
	Unipolar 2Ø on	Bipolar 2Ø on		Net*	Ship*	Overhang	Thrust	
	oz-in (Ncm)	oz-in (Ncm)		lb (kg)	lb (kg)	lb (kg)	lb (kg)	
M 061	60 (42)	75 (53)	0.0017 (0.12)	1.3 (0.57)	1.5 (0.68)	15 (6.8)	25 (11)	1.0 (0.71)
M 062	100 (71)	125 (88)	0.0034 (0.24)	2.0 (0.91)	2.5 (1.1)	15 (6.8)	25 (11)	1.4 (0.99)

\* Weight for motor with leads

# SLO-SYN® DC STEP MOTORS



M06

*See next page for detailed model number information*

4-CONNECTION STEP MOTORS					
Model Number <sup>◇</sup>		Winding Specifications			
New	Old (Leads)	Voltage VDC	Current Amperes	Resistance ohms	Inductance mH
<i>See next page for options</i>					
M061- F01	M061-LF-408	8.0	0.50	16	61
M061- F02	M061-FF-206	6.3	1.0	6.3	25
M062- F02	M062-LF-402	6.6	1.0	6.6	33
M062- F03	M062-FF-206	4.8	1.7	2.8	13

6-CONNECTION STEP MOTORS								
Model Number	Winding Specifications							
	Unipolar				Bipolar Series			
<i>See next page for options</i>	Voltage VDC	Current Amperes	Resistance ohms	Inductance mH	Voltage VDC	Current Amperes	Resistance ohms	Inductance mH
M061-□S01	11	0.44	23	38	16	0.30	45	150
M061-□S02	5.0	1.0	5.0	9.6	7.0	0.70	10	38
M061-□S08	1.3	3.8	0.33	0.64	1.8	2.7	0.66	2.5
M062-□S03	5.3	1.6	3.3	8.3	7.5	1.1	6.6	33
M062-□S04	4.2	1.9	2.2	5.9	5.9	1.3	4.4	24
M062-□S06	2.6	3.1	0.88	2.0	3.9	2.2	1.8	8.0
M062-□S09	1.7	4.7	0.35	0.80	2.3	3.3	0.7	3.2

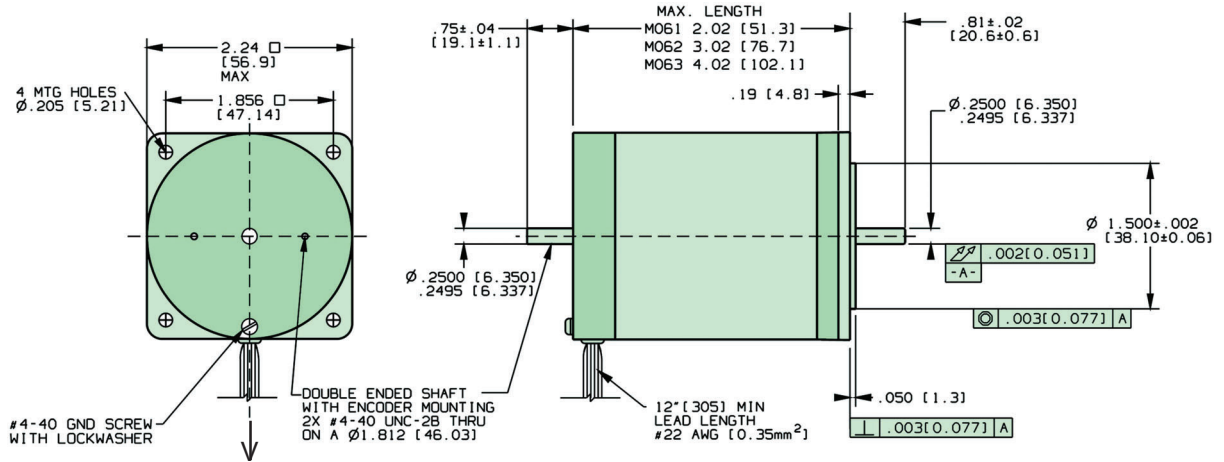
\*Old Model # is: M061-□S-301

8-CONNECTION STEP MOTORS								
Model Number	Winding Specifications							
	Unipolar				Bipolar Parallel <sup>◆</sup>			
<i>See next page for options</i>	Voltage VDC	Current Amperes	Resistance ohms	Inductance mH	Voltage VDC	Current Amperes	Resistance ohms	Inductance mH
M061-□E02	5.0	1.0	5.0	9.6	3.5	1.4	2.5	9.6
M061-□E08	1.3	3.8	0.33	0.64	0.89	5.4	0.16	0.64
M061-□E04	4.2	1.9	2.2	5.9	3.0	2.7	1.1	5.9
M062-□E06	2.6	3.1	0.88	2.0	1.9	4.4	0.44	2.0
M062-□E09	1.7	4.7	0.35	0.80	1.2	6.7	0.18	0.80

<sup>◇</sup> nameplate may reference old model number

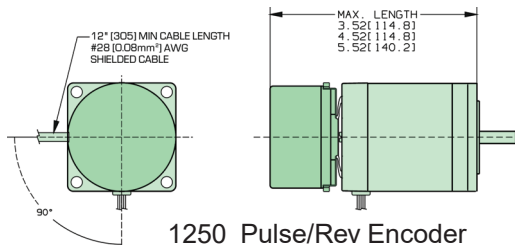
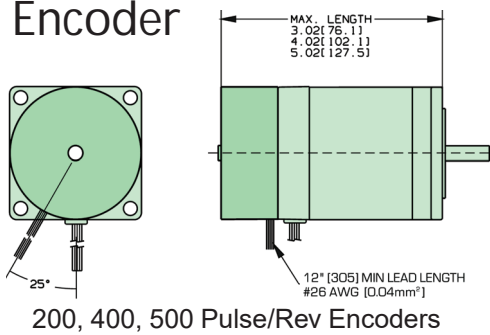
<sup>◆</sup> see 6-lead table for 8-lead bipolar series ratings

## Motor Dimensions



Add "E" to model number for double ended shaft. Example: M062-LS03E

## Encoder



## Add to Model Number:

C

500

6

### Pulses per Revolution

200, 400, 500, or 1250

### Number of Outputs

2 A, B (not available with 1250)  
3 A, B, Index (not available with 1250)  
6 A, B, Index, A, B, Index  
Differential Line Drivers supplied with 6 outputs

M061-LE08C2003

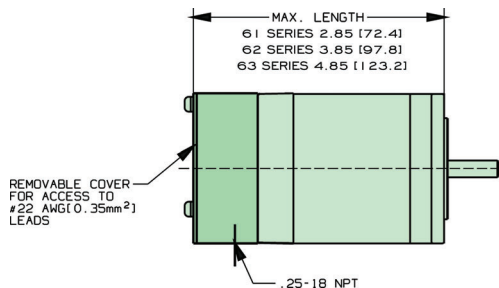
single stack, eight leads, 8 amps, 200 pulse encoder with A, B outputs

M062-LS09C12506

double stack, six leads, 9 amps, 1250 pulse encoder with 6 outputs.

(consult factory for encoder with terminal box)

## Terminal Box



## Change Model Number:

Example: M062-TE09 (double stack, terminal box, eight leads, 9 amp winding)

(consult factory for encoder with terminal box)

# SLO-SYN<sup>®</sup> DC STEP MOTORS

# M06

## 24 V Bipolar - Full Step

◆ 24 volt data measured with SD200 Modular Drive Module or the SS2000MD4 Modular Drive.

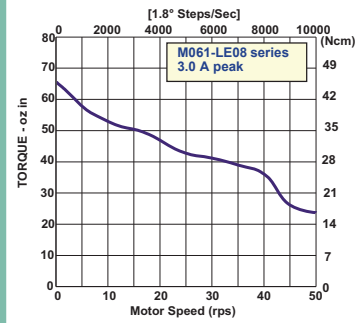
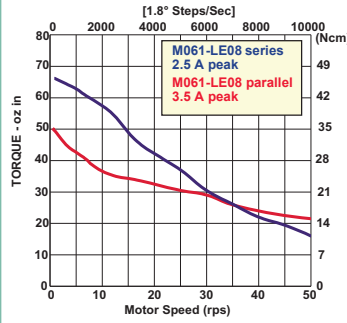
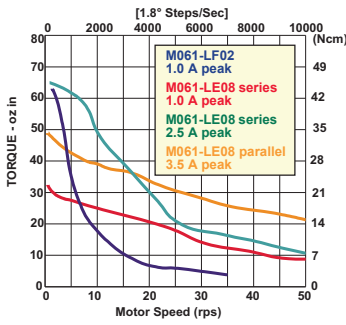
## 36 V Bipolar - Full Step

◆ 36 volt data measured with SD200 Modular Drive Module or the SS2000MD4 Modular Drive.

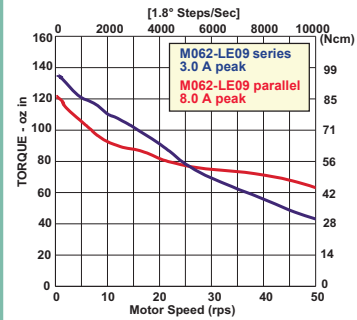
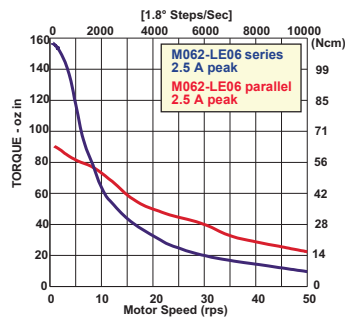
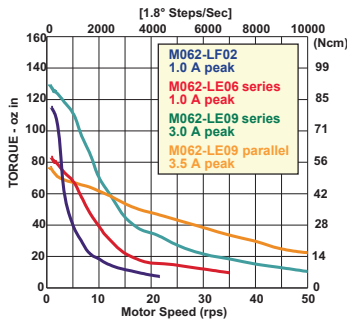
## 72 V Bipolar - Full Step

◆ 72 volt data measured with MD808 Modular Drive

### M061



### M062



- ◆ The curves do not show system resonances which will vary with system mechanical parameters.
- ◆ Duty cycle is dependent on torque, speed, Drive parameters, and heat sink conditions. Maximum case temperature is 100°C.