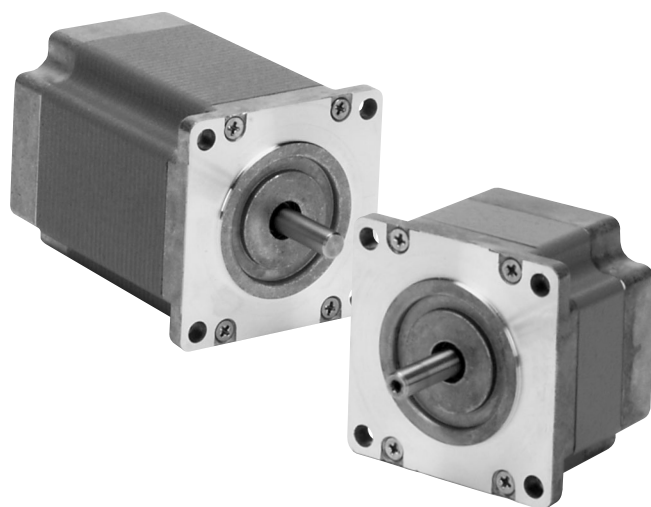


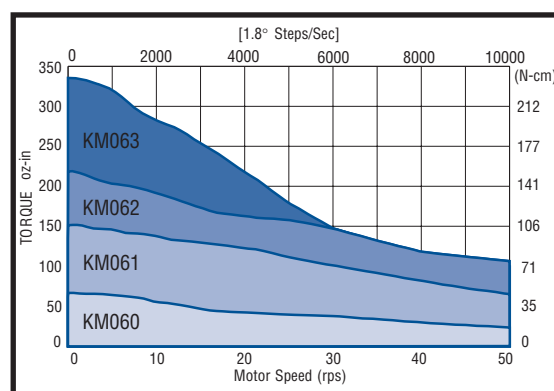
KM06

High Torque 60mm Frame Size
(NEMA Size 23)



Performance Envelope

(see page 9 for detailed torque-speed curves)



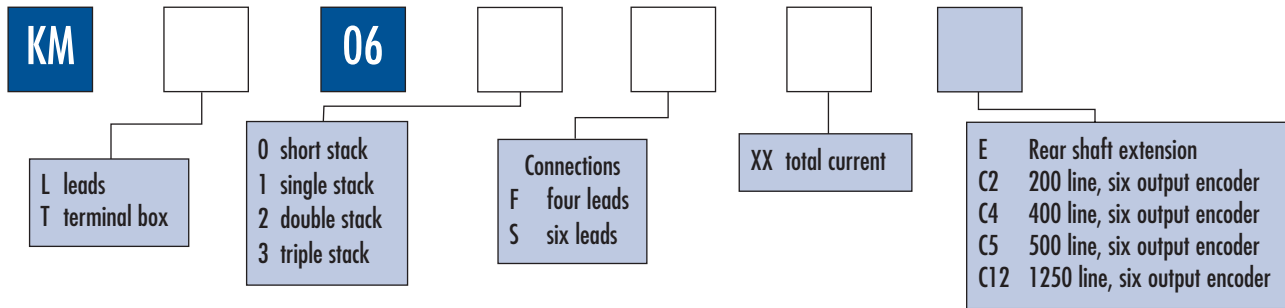
- Up to 200% rated torque reserve capacity
- $\pm 2\%$ typical step accuracy
- Terminal box, encoders, precision gearheads and rear shafts available
- Available with four or six leads
- Customized configurations available



Motor Frame	Minimum Holding Torque		Rotor Inertia oz-in-s ² (kg-cm ²)	*Weight		Maximum Shaft Load		Minimum Residual Torque oz-in (N-cm)
	Unipolar 2Ø on	Bipolar 2Ø on		Net	Ship	Overhang	Thrust	
	oz-in (N-cm)	oz-in (N-cm)		lb (kg)	lb (kg)	lb (kg)	lb (kg)	
KM060	54 (38)	68 (48)	0.00154 (0.108)	1.03 (0.47)	1.1 (0.050)	15 (6.8)	25 (11)	2.0 (1.4)
KM061	128 (90.4)	170 (120)	0.0034 (0.24)	1.6 (0.73)	1.7 (0.77)	15 (6.8)	25 (11)	3.0 (2.1)
KM062	188 (133)	250 (177)	0.0056 (0.395)	2.3 (1.04)	2.5 (1.1)	15 (6.8)	25 (11)	6.0 (4.2)
KM063	263 (186)	350 (247)	0.0084 (0.593)	3.2 (1.45)	3.4 (1.5)	15 (6.8)	25 (11)	7.0 (4.9)

* Weight for motor with leads (add approximately 0.2 lbs for terminal box).

KM06

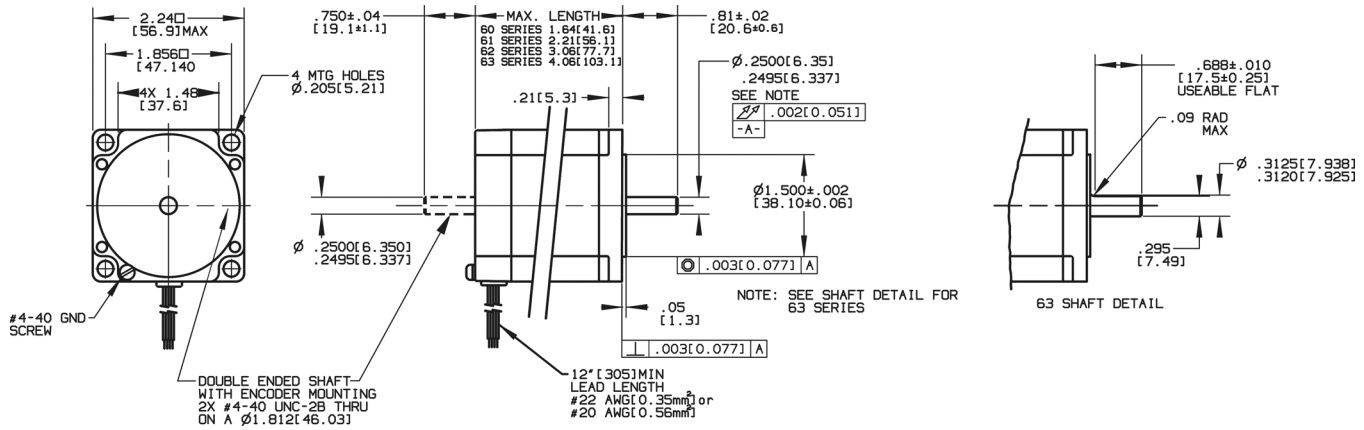


See next page for additional KM06 information

4-CONNECTION STEP MOTORS				
Model Number	Winding Specifications			
See Next page for options	Voltage (VDC)	Current (amperes)	Resistance (ohms)	Inductance (mH)
KM□060F02	3.8	1.1	3.6	16
KM□060F05	1.7	2.7	0.64	2.5
KM□060F08	1.1	4.0	0.28	1.0
KM□060F11	1.0	5.3	0.19	0.63
KM□061F02	5.2	1.1	4.9	30
KM□061F03	4.2	1.4	3.0	16
KM□061F05	2.3	2.7	0.85	4.6
KM□061F08	1.4	4.1	0.33	1.8
KM□061F11	1.2	5.4	0.23	1.1
KM□062F03	4.4	1.5	2.9	17
KM□062F05	3.1	2.5	1.3	7.1
KM□062F07	2.5	3.3	0.75	3.4
KM□062F08	2.0	4.1	0.49	2.5
KM□062F13	1.3	6.6	0.20	0.85
KM□063F03	6.1	1.5	4.1	24
KM□063F04	5.0	1.8	2.8	17
KM□063F07	3.4	3.3	1.0	6.2
KM□063F08	2.6	4.1	0.64	3.9
KM□063F13	1.9	6.6	0.28	1.5

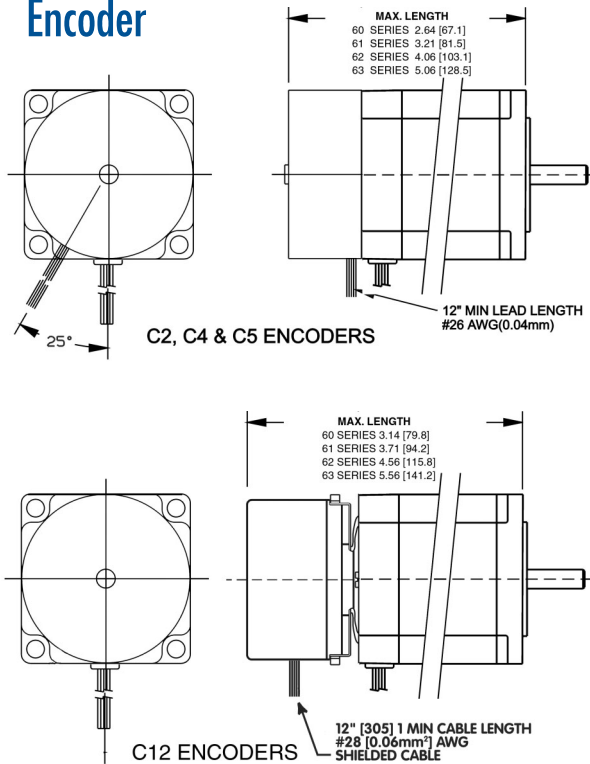
6-CONNECTION STEP MOTORS								
Model Number	Winding Specifications							
	Unipolar				Bipolar Series			
See Next page for options	Voltage (VDC)	Current (amperes)	Resistance (ohms)	Inductance (mH)	Voltage (VDC)	Current (amperes)	Resistance (ohms)	Inductance (mH)
KM□060S03	2.9	1.5	1.9	4.0	4.0	1.0	3.9	16
KM□060S08	1.3	3.8	0.34	0.63	1.8	2.7	0.67	2.5
KM□061S02	6.4	1.0	6.4	18	9.0	0.70	13	70
KM□061S04	3.0	2.1	1.5	3.5	4.2	1.4	2.9	14
KM□061S08	1.7	3.8	0.46	1.1	2.4	2.7	0.92	4.4
KM□062S04	3.1	2.1	1.5	4.2	4.4	1.5	2.9	17
KM□062S06	2.8	3.0	0.94	2.5	3.9	2.1	1.9	10
KM□062S09	1.8	4.7	0.38	0.85	2.5	3.3	0.75	3.4
KM□063S04	4.3	2.1	2.0	6.0	6.0	1.5	4.0	24
KM□063S09	2.5	4.7	0.54	1.6	3.5	3.3	1.1	6.3

KM06: Motor Dimensions



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

Encoder



Add to Model Number:

C2 200 lines per rev.
 C4 400 lines per rev.
 C5 500 lines per rev.
 C12 1250 lines per rev.

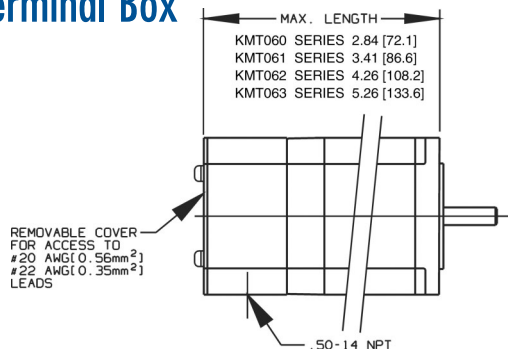
Outputs: A, B, Index,
 $\bar{A}$, $\bar{B}$, $\bar{\text{Index}}$,

Differential Line Drivers supplied

Example: KML063S09C5

For encoder specifications see pages 22-23

Terminal Box



Change to Model Number:

Example: KMT063S09 (triple stack, terminal box, six leads, 4.7 amp winding)

KM06

24 V Bipolar - Full Step

24 volt data measured with SS2000MD4 drive.

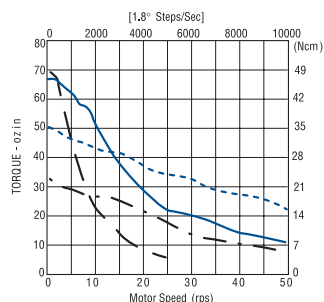
36 V Bipolar - Full Step

36 volt data measured with SS2000MD4 drive.

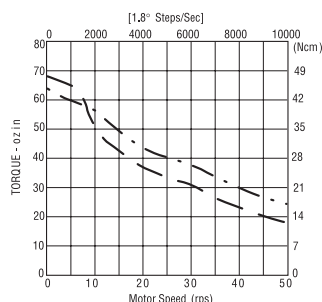
72 V Bipolar - Microstep

72 volt data measured with MD808 drive

KM060



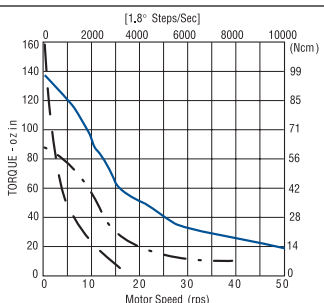
KM060F02 - 1.0 A peak
KM060F05 - 2.5 A peak
KM060F11 - 3.5 A peak



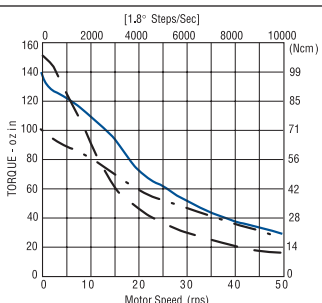
KM060F05 - 2.5 A peak
KM060F08 - 3.5 A peak

- 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.

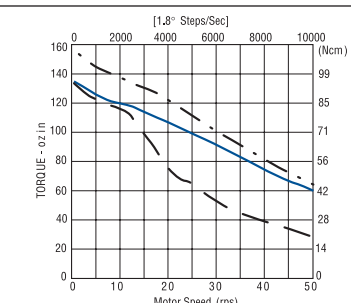
KM061



KM061F02 - 1.0 A peak
KM061F04 - 1.0 A peak
KM061F08 - 3.5 A peak

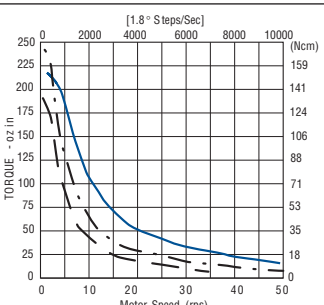


KM061F05 - 2.5 A peak
KM061F08 - 2.5 A peak
KM061F08 - 3.5 A peak

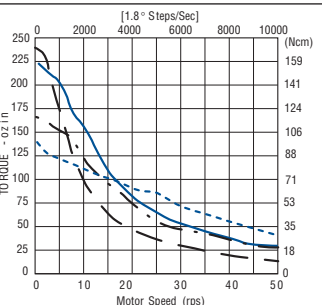


KM061F05 - 3.0 A peak
KM061F08 - 6.0 A peak
KM061F11 - 7.5 A peak

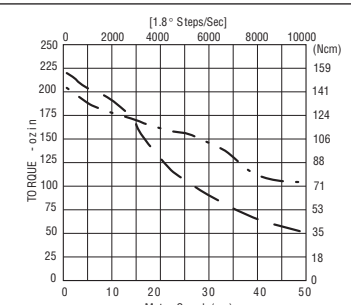
KM062



KM062F03 - 1.0 A peak
KM062F05 - 2.5 A peak
KM062F08 - 3.5 A peak

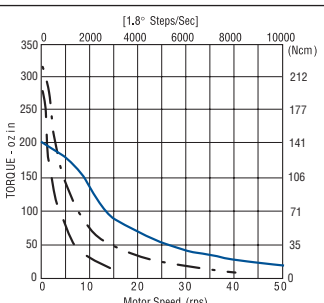


KM062F05 - 2.5 A peak
KM062F08 - 2.5 A peak
KM062F13 - 3.5 A peak

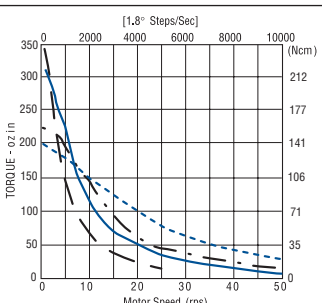


KM062F07 - 4.0 A peak
KM062F13 - 8.0 A peak

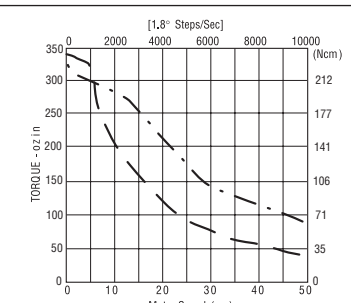
KM063



KM063F03 - 1.0 A peak
KM063F07 - 3.0 A peak
KM063F13 - 3.5 A peak



KM063F04 - 2.0 A peak
KM063F08 - 2.5 A peak
KM063F13 - 3.5 A peak



KM063F07 - 4.0 A peak
KM063F13 - 8.0 A peak