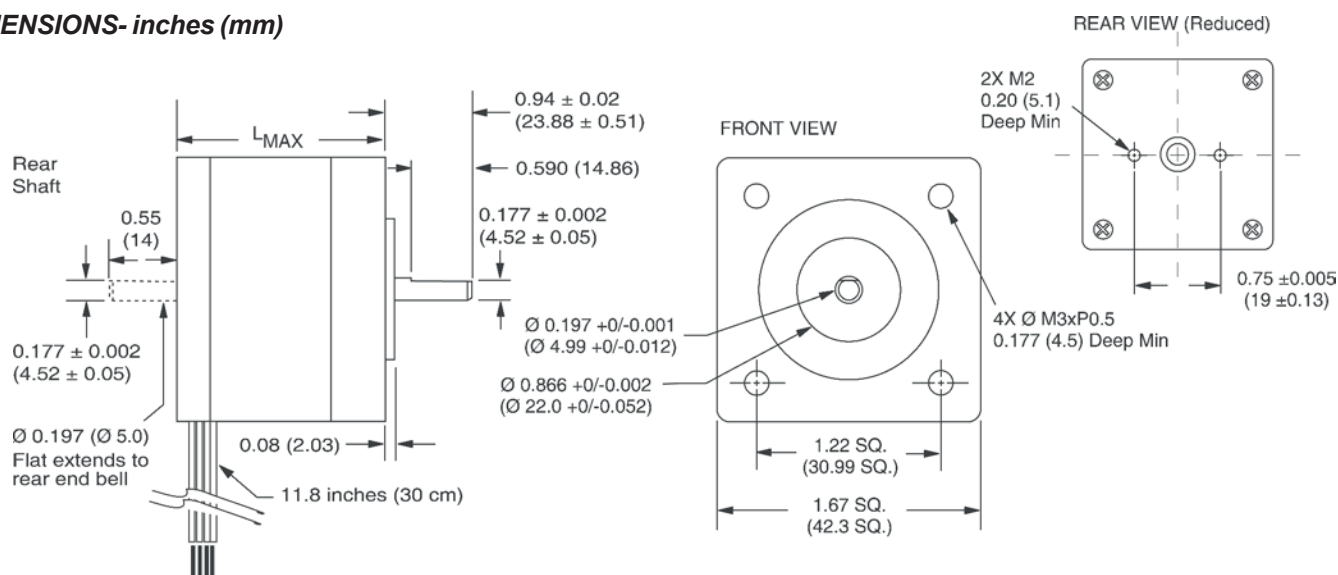


## SIZE 17 1.8° HYBRID STEPPING MOTORS

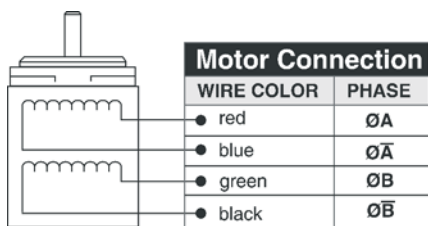
### SPECIFICATIONS

Model Number	Holding Torque oz-in (N-cm)	Phase Current Amps	Number of Leads	Phase Resistance Ohms	Phase Inductance mH	Detent Torque oz-in-sec <sup>2</sup>	Rotor Inertia oz-in-sec <sup>2</sup>	L <sub>MAX</sub> Length inches (cm)	Weight oz (gm)
AM17-32-1	32 (23)	1.5	4	1.3	2.1	1.7 (1.2)	0.000538 (0.038)	1.34 (3.4)	7.4 (210)
AM17-60-2	60 (42)	1.5	4	2.1	5.0	2.1 (1.5)	0.0008037 (0.057)	1.57 (4.0)	8.1 (230)
AM17-75-3	75 (53)	1.5	4	2.0	3.85	3.5 (2.5)	0.0011562 (0.082)	1.89 (4.8)	12.7 (360)

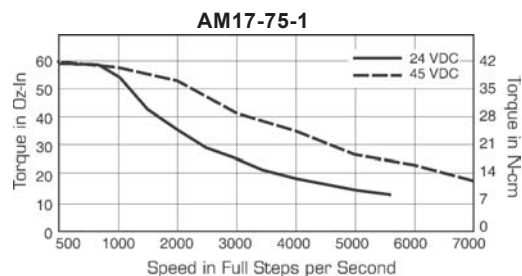
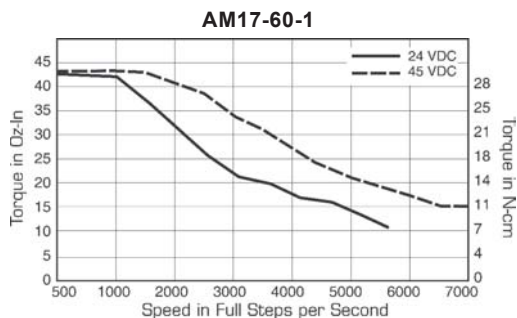
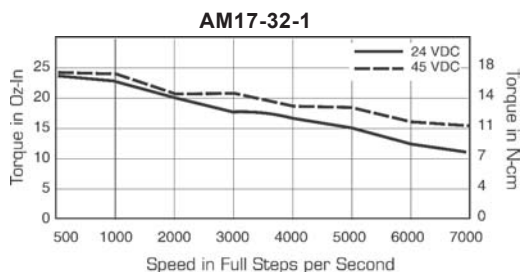
### DIMENSIONS-inches (mm)



### CONNECTION



### TORQUE SPEED CURVES- 1.5 Amps RMS

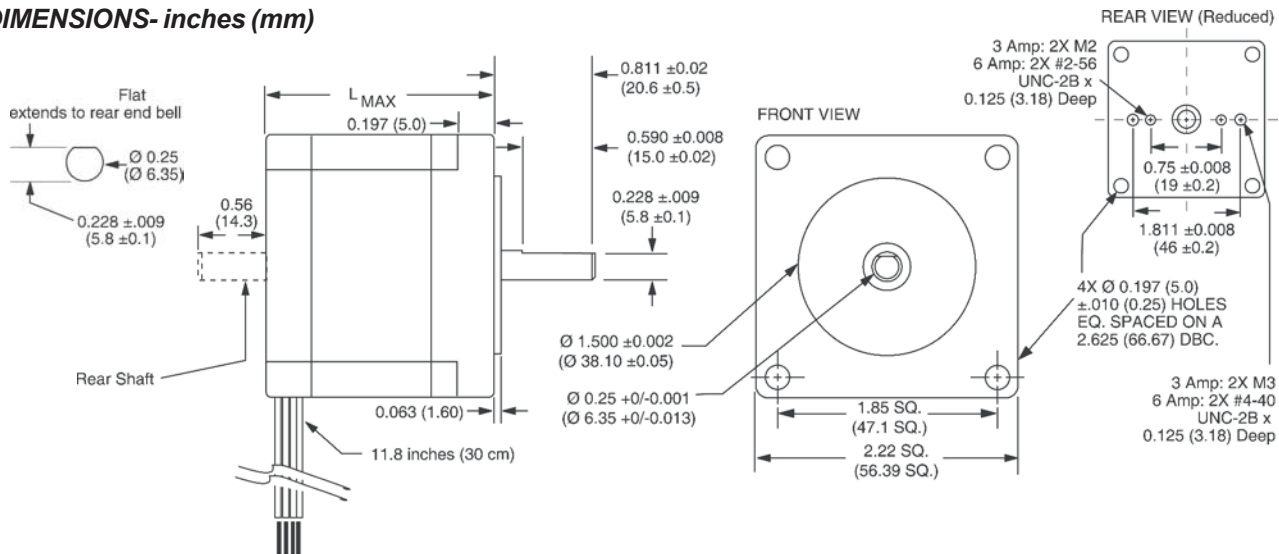


## SIZE 23 1.8° HYBRID STEPPING MOTORS

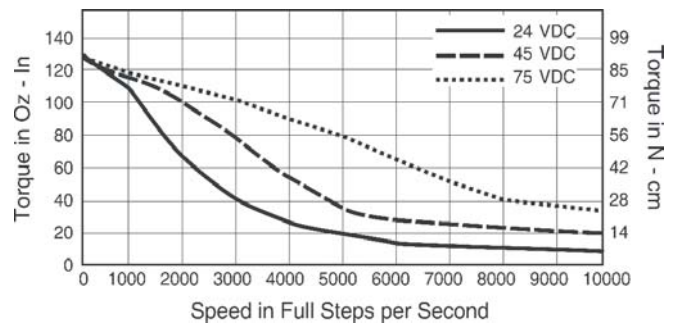
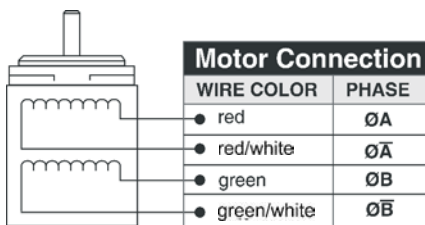
### SPECIFICATIONS

Model Number	Holding Torque oz-in (N-cm)	Phase Current Amps	Number of Leads	Phase Resistance Ohms	Phase Inductance mH	Detent Torque oz-in-sec <sup>2</sup>	Rotor Inertia oz-in-sec <sup>2</sup>	L <sub>MAX</sub> Length inches (cm)	Weight oz (gm)
AM23-90-1	90 (64)	3.0	4	0.65	1.5	3.9 (2.7)	0.00255 (0.18)	1.77 (4.5)	16.9 (480)
AM23-144-2	144 (102)	3.0	4	0.85	2.6	5.6 (3.9)	0.00368 (0.26)	2.13 (5.4)	21.2 (600)
AM23-239-3	239 (169)	3.0	4	0.95	3.36	9.7 (6.9)	0.0065 (0.46)	2.99 (7.6)	35.3 (1000)

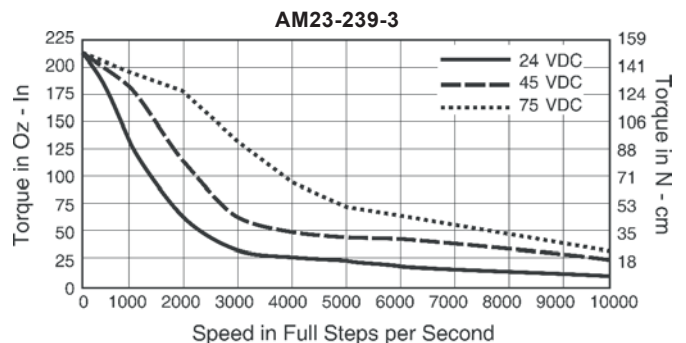
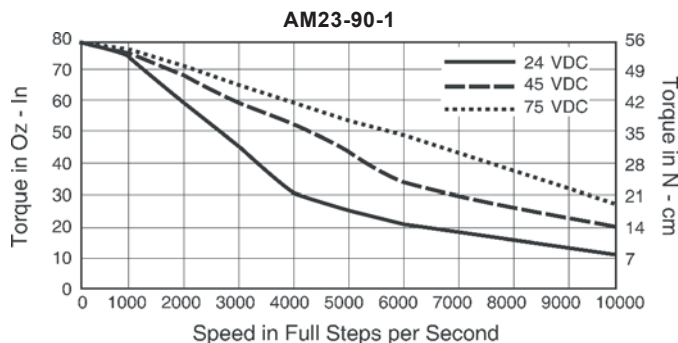
### DIMENSIONS- inches (mm)



### CONNECTION



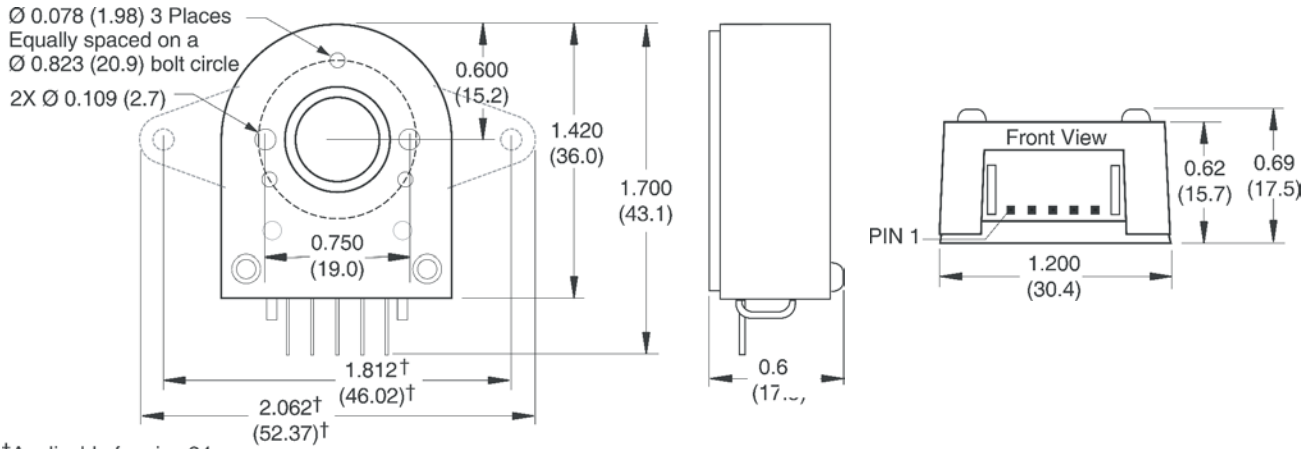
### TORQUE SPEED CURVES- 3.0 Amps RMS





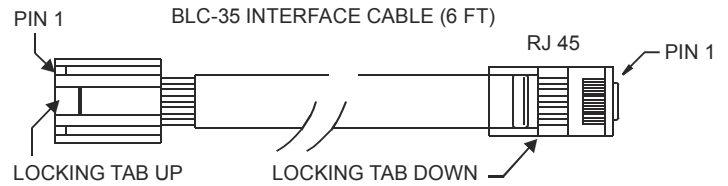
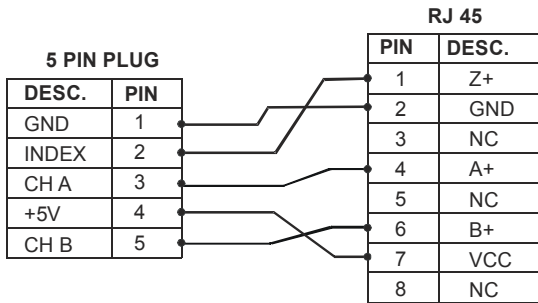
## 500 LINE ENCODER OPTION

### DIMENSIONS- inches (mm)



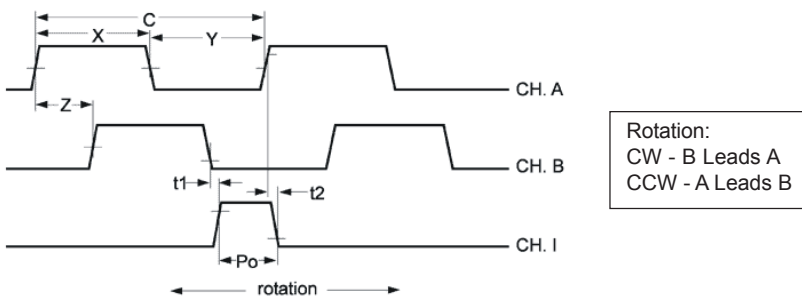
†Applicable for size 34 stepping motors

### ENCODER PIN ASSIGNMENTS



Note: All AM Series motors with the encoder option come standard with the BLC-35 interface cable.

### ENCODER TIMING DIAGRAM



#### Characteristics

Parameter	Symbol	Min	Typ	Max	Units
Cycle Error			3	5.5	°e
Symmetry		130	180	230	°e
Quadrature		40	90	140	°e
Index Pulse Width	Po	60	90	120	°e
Index Rise After CH B or CH A fall	t1	-300	100	250	ns
Index Fall After CH A or CH B rise	t2	70	150	1000	ns