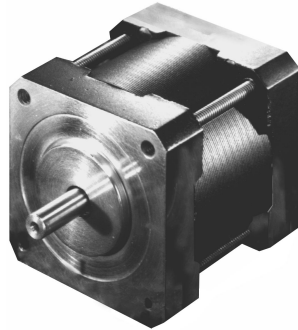


Rotary Hybrid Stepping Motor 1.8°

SIZE
17
1.57"
SQ

Conventional



EADmotors Size 17 hybrid DC stepping motors are precision bi-directional devices with position accuracy of $\pm 5\%$ non-cumulative.

Motors are totally enclosed with permanently lubricated ball bearings.

Standard motors have 4 or 6 leads. Motors with 5 or 8 leads can be furnished to meet existing applications.

EADmotors specializes in meeting the individual requirements of each application and offers engineering assistance for your design requirements.

Electrical Ratings

Model Number	Number of Leads	Unipolar Connection					Bipolar Connection					Rotor Inertia (oz-in-sec ²)	Weight (ounces)
		Phase Voltage (VDC)	Phase Current (amps)	Phase Resistance (ohms)	Phase Inductance (mH)	Holding Torque (oz-in)	Phase Voltage (VDC)	Phase Current (amps)	Phase Resistance (ohms)	Phase Inductance (mH)	Holding Torque (oz-in)		
ZB17GBK-10	6	4.00	0.95	4.20	2.9	13.9	5.60	0.67	8.40	11.6	19	0.00024	7
ZB17GBK-11	6	6.00	0.63	9.60	4.90	13.9	8.50	0.45	19.20	19.60	19		
ZB17GBK-12	6	12.00	0.32	38.40	22	13.9	17.00	0.23	76.80	88.0	19		
ZB17GBK-200	4						1.90	2.00	0.95	1.40	19		
ZB17EBK-10	6	4.00	1.10	3.50	2.50	19	5.60	0.78	7.00	10.00	24.5	0.00035	7.7
ZB17EBK-11	6	6.00	0.80	7.50	5.30	19	8.50	0.57	15.00	21.20	24.5		
ZB17EBK-12	6	12.00	0.40	30.00	27.3	19	17.00	0.28	60.00	109.2	24.5		
ZB17EBK-200	4						2.40	2.00	1.20	2.40	24.5		
ZB17BBK-10	6	4.00	1.20	3.30	3.2	28.3	5.90	0.85	6.60	12.8	35	0.00051	10.6
ZB17BBK-11	6	6.00	0.92	6.50	6.0	28.3	8.50	0.65	13.00	24.0	35		
ZB17BBK-12	6	12.00	0.46	36.00	23.5	28.3	17.00	0.33	52.00	94.0	35		
ZB17BBK-200	4						2.75	2.00	1.38	2.70	35		

Solutions in motion



Hybrid Motor Connection Diagrams

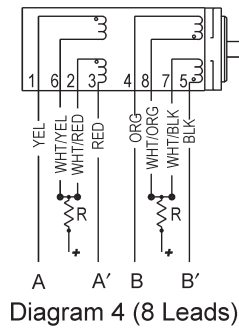
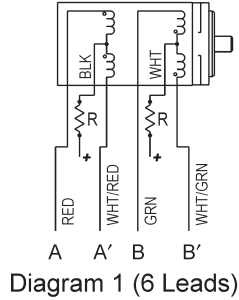
These diagrams show the unipolar and bipolar switching sequence. The direction of the rotation is viewed from the lead end.

Notes:

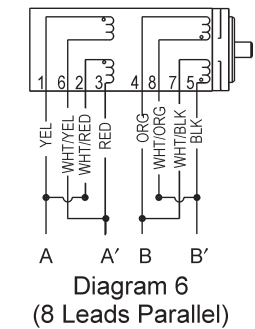
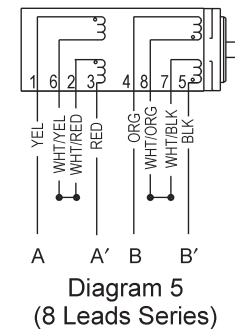
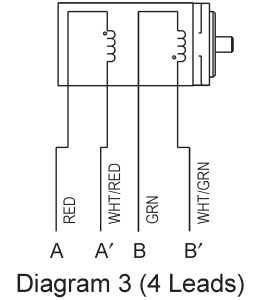
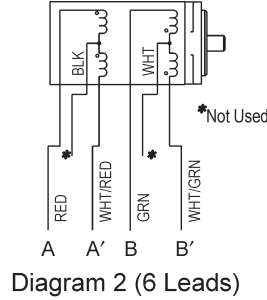
Other electrical and mechanical configurations are available upon request.

Class B insulation 130°C is standard. Higher rating is available upon request.

Unipolar



Bipolar



Step	A	A'	B	B'
1	—	—	—	—
2	—	—	—	—
3	—	—	—	—
4	—	—	—	—

2 Phase On

1	—	—	—	—
2	—	—	—	—
3	—	—	—	—
4	—	—	—	—
5	—	—	—	—
6	—	—	—	—
7	—	—	—	—
8	—	—	—	—

Half Step

1	—	—	—	—
2	—	—	—	—
3	—	—	—	—
4	—	—	—	—

1 Phase On

Step	A	A'	B	B'
1	+	—	+	—
2	+	—	—	+
3	—	+	—	+
4	—	+	+	—

2 Phase On

1	+	—	+	—
2	+	—	—	—
3	+	—	—	+
4	—	—	—	+
5	—	+	—	+
6	—	+	—	—
7	—	+	+	—
8	—	—	+	—

Half Step

1	+	—	—	—
2	—	—	—	+
3	—	+	—	—
4	—	—	+	—

1 Phase On

Solutions in motion

