



Key Performance Features:

- High Energy Neodymium Magnets
- Operating Speeds to 6,000 RPM
- High Torque to Size Ratio
- Encoder Ready
- 24-300 VDC Typical Bus Voltage
- CE Certificate Available

BFA34/BA34 BRUSHLESS SERVO MOTOR SERIES

Motor Characteristics (8 pole design)

FRAME SIZE	STACK LENGTH	PEAK STALL TORQUE (T _s) OZ-IN	CONT. STALL TORQUE (T _c) OZ-IN	FRICTION TORQUE (T _f) OZ-IN	ROTOR INERTIA (J _r) OZ-IN-SEC ²	THERMAL RESISTANCE (RM) °C/WATT	MAX RECOMMEND SPEED RPM	MAX WINDING TEMP. °C	ELEC. TIME CONSTANT MSEC	POWER RANGE W	LENGTH IN	WEIGHT LB
BFA34/BA34 -- 200		810	270	10.5	0.0088	0.52	6000	155	2.8	325	4.74	5.8
BFA34/BA34 -- 300		1130	380	13.8	0.0138	0.51	6000	155	3.0	540	5.74	7.4
BFA34/BA34 -- 400		1460	490	17.0	0.0126	0.49	6000	155	3.1	760	6.74	9.0
BFA34/BA34 -- 500		1780	600	20.0	0.0220	0.48	6000	155	3.2	970	7.74	10.6

Sample Windings

CONSULT MAGMOTOR APPLICATION STAFF FOR OTHER AVAILABLE WINDINGS

	BF34 -- 200				BF34 -- 300				BF34 -- 400				BF34 -- 500			
	E	G	I	K	E	G	I	K	E	G	I	K	E	G	I	K
Torque Constant (Kt) oz-in/amp	28.4	42.6	68.2	108.2	41.0	63.4	100.6	153.8	56.8	85.9	136.3	216.4	70.9	107.3	170.4	270.5
Voltage Constant (Ke) Volts/Krpm	21.0	31.5	50.4	80.0	30.3	46.9	74.4	113.7	42.0	63.5	100.8	160.0	52.5	79.4	126.0	200.0
L-L Resistance (R) Ohms (cold)	0.84	2.09	5.21	13.0	1.1	2.6	6.5	16.5	1.3	3.2	7.9	19.6	1.5	3.6	9.2	22.9
Inductance (L-L) mH	2.6	6.49	16.2	40.5	3.5	9.0	22.5	57.1	4.9	12.1	30	77	5.9	14.7	36.8	91.7
Peak Current (A) Amps	40	30	20	10	40	30	20	10	40	30	20	10	40	30	20	10

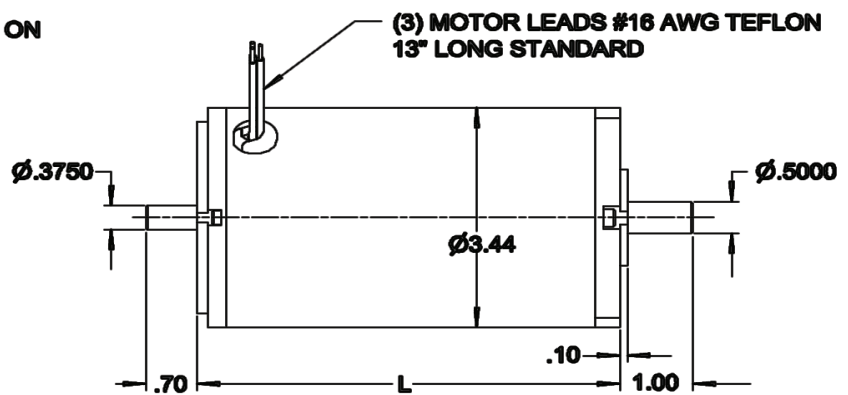
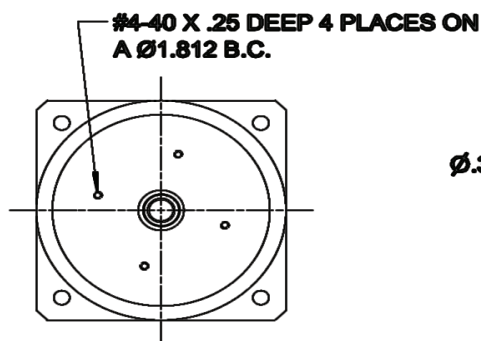
VALUES AS LISTED ARE TEST CONDITIONS, ACTUAL RESULTS MAY VARY

BF34 Series Options

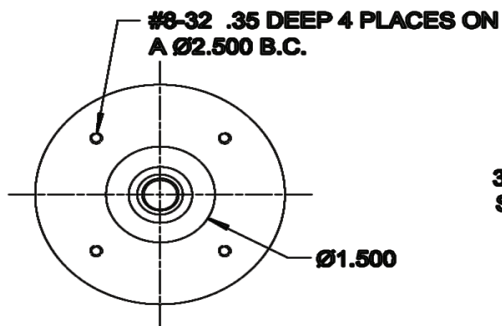
- Optical Encoders
- Hall Sensor or Commutation Encoder
- Gearboxes and Brakes
- Application Specific Windings and Mechanical designs
- Custom Cables and Connectors
- 8-Pole Design Available
- For more options, see magmotor.com custom solutions, or call us.

Typical Applications

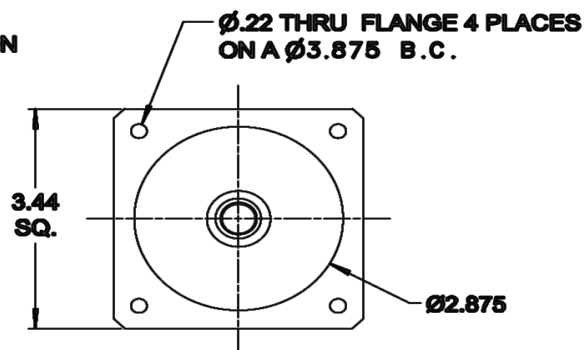
- Semiconductor Equipment
- Medical Equipment
- Automated Assembly Machines
- Laboratory Equipment
- Pharmaceutical Equipment
- X-Y-Z Positioning Machines



BF34-100 3.80"
 BF34-200 4.80"
 BF34-300 5.80"
 BF34-400 6.80"
 BF34-500 7.80"



**OPTIONAL
 ROUND FACE MOUNT**



**NEMA 34
 FLANGE MOUNT**