



BP Series Brushless Pancake Motor



Exceptionally powerful and extremely accurate range of servo motors, that provide all the advantages of printed stator and rare earth magnet technologies for high performance industrial automation and scientific applications.

BP motors are available in four basic sizes, BP6, 9, 12 and 16. Totally enclosed in extra slim profile, all metal cylindrical casings, the design allows for easy attachment of ancillaries. Mountings comply with international standards.

DESIGN OPTIONS

- Shaft extensions - front/rear
- Shaft fixings - taper, key, flat, thread, pin-hole
- Tailored performance profiles
- Custom engineered units
- Hollow shaft

MATERIAL AND FINISH

Casing & End-plates

anodised aluminium - black

Bearings ABEC 3

Connections flying leads; or screw, or spade terminals

Magnet Neodymium iron Boron

REAR SHAFT EXTENSION

Readily available to suit customers ancillary mounting requirements, subject to agreement on specification.

STANDARD BENEFITS

- Smooth brushless torque
- Excellent power/weight ratio
- Wide speed range
- Constant torque over speed range
- Excellent low speed performance
- Zero cogging
- Very slim profile

TYPICAL APPLICATIONS

- Process plant/equipment
- High performance robotic systems
- Factory automation
- Winding machines
- Medical/scientific equipment

For further information ►



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PERFORMANCE DATA

TEST DETAIL			MOTOR TEST RESULTS			
MOTOR RATINGS	SYMBOL	UNIT	BP6	BP9	BP12	BP16
Power	W	Watt	60	140	314	720
Torque	T	Ncm	20	45	100	220
Speed	N	rpm	3000	3000	3000	3000
Voltage	V	Volt	15	30	46	99
Current	I	Amp	5	7.7	9	9.2

MOTOR CONSTANTS	SYMBOL	UNIT	BP6	BP9	BP12	BP16
Torque Constant	Kt	Ncm/Amp	3.8	7.3	13.5	29
EMF	Ke	V/krpm	4	7.6	14	30

PERFORMANCE CHARACTERISTICS AND DATA

DIMENSION GUIDES

All dimensions in mm. All weights in kg.

MOTOR TYPE	DIMENSIONS										
	A	B	C	E	F	H	K	L	M	Wt	
BP6	80	40h7	7j6	20	16.5	2.5	M3	4	65	0.9	
BP9	120	75h7	10j6	32	28.7	2.5	M4	5	88	1.3	
BP12	147	75h7	10j6	36	29.3	2.5	M5	6	88	1.7	
BP16	197	95h7	16j6	42.5	42.8	2.5	M8	8	115	4.5	

