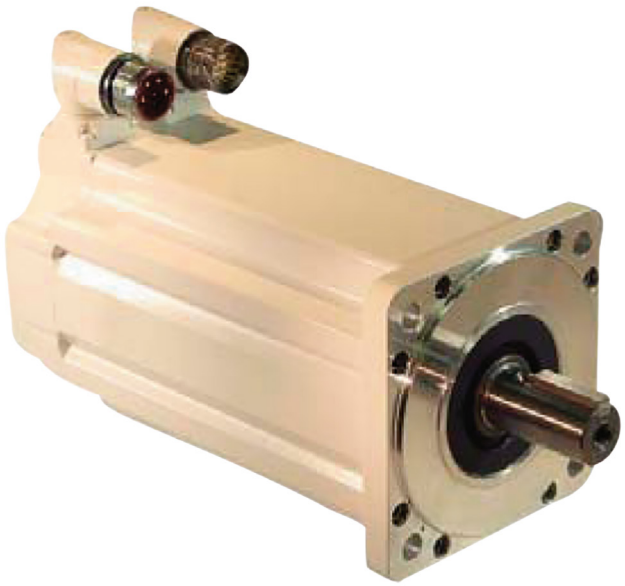
MPFB310PSJ72BA

Allen-Bradley Kinetix MPF Servo Motor 460VAC 5000 RPM 1.58Nm Single Turn Encoder No Brake Keyed

SERVO MOTORS AND CABLES



Component type	Electric servomotor
Range	MP
Model	N/A
Product status	Existing

The Allen-Bradley MP-Series™ Low Inertia (MPL) Servo Motors are a compact, brushless high torque motor ideal for the most demanding complex motion systems. Available in nine frame sizes to suit any application.

ELECTRICAL	Voltage class AC	400 V
COMMUNICATION	Feedback type	Single-turn high resolution
	Feedback resolution	Sin/Cos, 1024 cycles/rev
	Feedback protocol	HiperFace DSL Protocol/SSI Protocol
CONSTRUCTION	With brake	No
	Magnet stack (length)	25.4 mm
	Magnet stack (number of magnets)	10
	IP rating	IP66/IP67/IP69K
MECHANICAL	Rotational speed	5000 1/min
	Max. torque	3.61 Nm
	Torque	1.58 Nm
	Max. shock acceleration	20 g
	Max. vibration frequency, operational	2000 Hz
	Max. vibration acceleration	2.5 m/s²
DIMENSIONS	Weight	2800 g
ENVIRONMENT	Operating temperature	0…40 °C
	Allowable relative humidity	5-95 %

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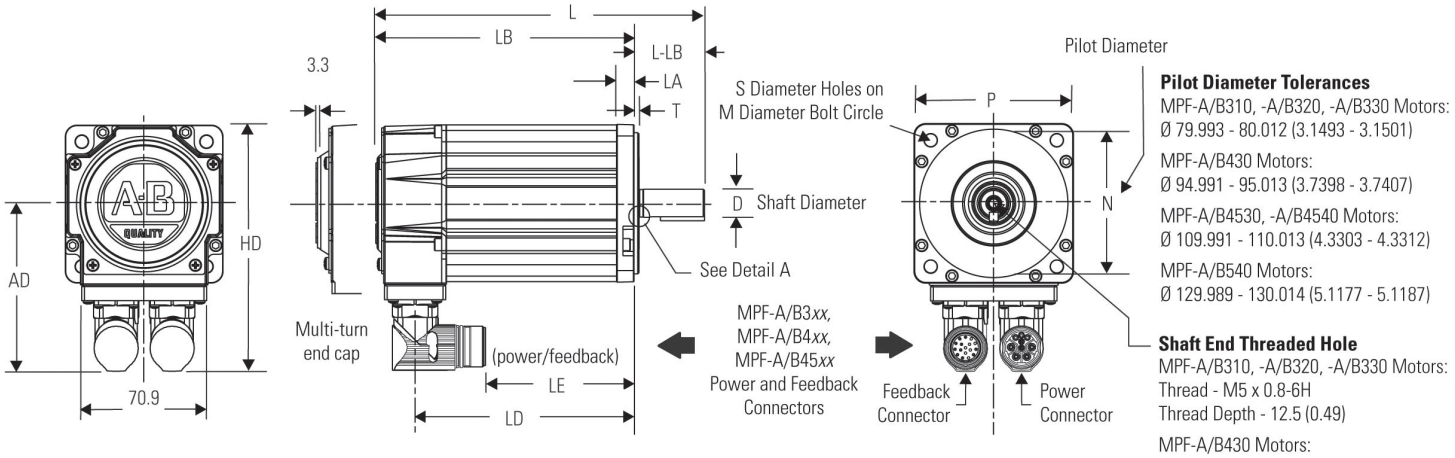
DIMENSIONAL DIAGRAM



Pilot Diameter Tolerances

MPF-A/B310, -A/B320, -A/B330 Motors:
Ø 79.993 - 80.012 (3.1493 - 3.1501)

MPF-A/B430 Motors:
Ø 94.991 - 95.013 (3.7398 - 3.7407)

MPF-A/B4530, -A/B4540 Motors:
Ø 109.991 - 110.013 (4.3303 - 4.3312)

MPF-A/B540 Motors:
Ø 129.989 - 130.014 (5.1177 - 5.1187)

Shaft End Threaded Hole

MPF-A/B310, -A/B320, -A/B330 Motors:
Thread - M5 x 0.8-6H
Thread Depth - 12.5 (0.49)

MPF-A/B430 Motors:
Thread - M6 x 1.0-6H
Thread Depth - 16 (0.63)

MPF-A/B4530, -A/B4540 Motors:
Thread - M8 x 1.25-6H
Thread Depth - 19 (0.75)

MPF-A/B540 Motors:
Thread - M10 x 1.5-6H
Thread Depth - 22 (0.87)

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