MP-Series Low Inertia Motors



MP-Series (Bulletin MPL) low-inertia high-output brushless servo motors use innovative design characteristics to reduce motor size while delivering significantly higher torque. These compact and highly-dynamic brushless servo motors are designed by Allen-Bradley to meet the demanding requirements of high performance motion systems.

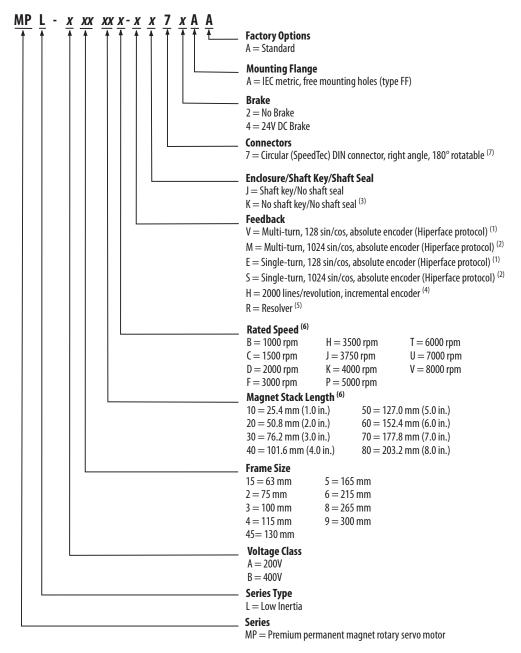
MP-Series Low Inertia Motor Features

Attribute	Value
Main characteristics	High torque to size ratio Smart Motor Technology Low rotor inertia
Features	 200V and 400V-class windings High-energy rare-earth magnets Shaft-end threaded hole DIN connectors, rotates 180° Standard IEC 72-1 mounting dimensions
Motor type	Brushless AC synchronous servo motors
Environmental rating	 IP50 minimum, without shaft seal (standard). IP66 with optional shaft seal and use of environmentally sealed cable connectors.
Certifications	Bulletin MPL rotary motors are UL Recognized components to applicable UL and CSA standards. CE marked for all applicable directives. Refer to http://www.ab.com for more information.
Continuous stall torque	0.26163 N·m (2.31440 lb·in)
Peak stall torque	0.74278 N·m (6.62460 lb•in)
Speed	Up to 8000 rpm
Motor rated output	0.1618.6 kW
Compatible servo drives	Kinetix 5500 (1) Kinetix 6200/6500 Kinetix 6000 Kinetix 300/350 Kinetix 2000 Kinetix 7000 Ultra3000
Typical applications	 Packaging Converting Material handling Electronic assembly Automotive Metal forming

⁽¹⁾ Requires the 2198-H2DCK Hiperface-to-DSL feedback converter kit. MP-Series (200V-class) low-inertia motors require the 2198-H2DCK (series B or later) converter kit.

Catalog Numbers - MP-Series Low Inertia Motors

Catalog numbers consist of various characters, each of which identifies a specific option for that component. Use the catalog numbering table chart below to understand the configuration of your motor. For questions regarding product availability, contact your Allen-Bradley distributor.



- (1) Applies to MPL-A/B15xx and MPL-A/B2xx motors.
- (2) Applies to MPL-A/B3xx, MPL-A/B4xx, MPL-A/B45xx, MPL-A/B5xx, MPL-B6xx, MPL-B8xx, and MPL-B9xx motors.
- (3) Requires longer lead times. Applies to only limited frame sizes.
- (4) Applies to MPL-A/B15xxx-H, MPL-A/B2xxx-H, MPL-A/B3xxx-H, MPL-A/B4xxx-H, MPL-A/B45xxx-H motors.
- (5) Applies to MPL-B3xxx-R, MPL-B4xxx-R, and MPL-B45xxx-R motors.
- (6) Not all combinations are available. Only the configurations for rated speed and magnet stack length, as listed in MP-Series Low Inertia Motor (200V-class) Performance Specifications on page 54 and MP-Series Low Inertia Motor (400V-class) Performance Specifications on page 55, are available. Use Motion Analyzer software to size and select motors for your application.
- (7) Applies to all Bulletin MPL motors with M23 and M40 cable connectors. M58 connectors (MPL-B8xxx and MPL-B9xxx motors) must be physically removed and repositioned in 90° increments.