MP-Series Food Grade Motors

MP-Series (Bulletin MPF) food-grade motors combine the characteristics of the MP-Series low-inertia servo motors with features specifically designed to meet the unique needs of many food and beverage applications. These high-performance servo motors address the challenges of food environments by incorporating food-grade paint and shaft seal, along with noncorrosive fasteners and stainless steel shaft. For meat and poultry applications, and for applications with high pressure wash and caustic chemicals, the MP-Series stainless-steel servo motors are recommended.

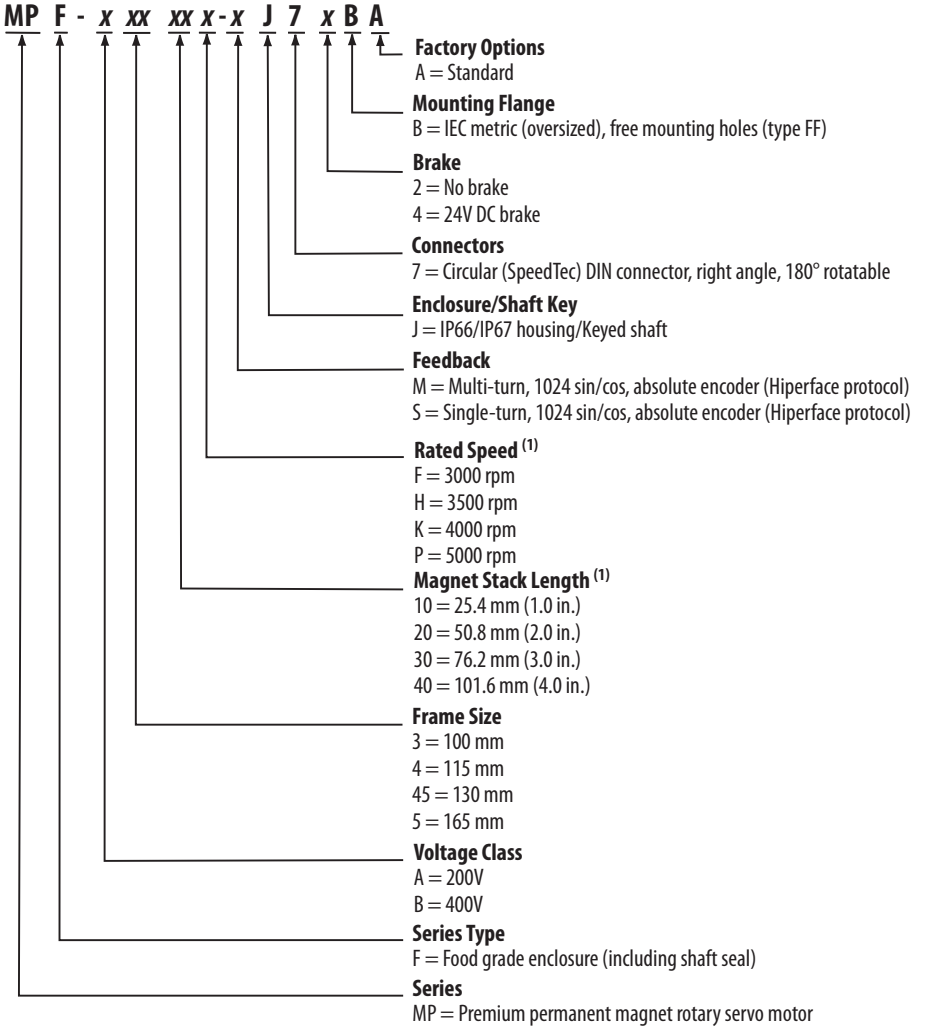
MP-Series Food Grade Motor Features

Attribute	Value
Main characteristics	• Configurable winding options, brakes, and encoder feedback • Low rotor inertia
Features	• Food-grade epoxy coated • 200V and 400V-class windings • Shaft-end threaded hole • SpeedTec-ready DIN connectors, rotates 180° • Standard IEC 72-1 mounting dimensions
Motor type	Brushless AC synchronous servo motors
Environmental rating	• IP66/IP67 with shaft seal (standard) and use of environmentally sealed cable connectors • Food grade grease on shaft seal
Certifications	Bulletin MPF 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	1.6…19.4 N•m (14…172 lb•in)
Peak stall torque	3.61…48.6 N•m (32…430 lb•in)
Speed	Up to 5000 rpm
Motor rated output	0.73…4.1 kW
Compatible servo drives	• Kinetix 5500 (1) • Kinetix 6200/6500 • Kinetix 6000 • Kinetix 300/350 • Kinetix 2000 • Ultra3000
Typical applications	• Food packaging • Volumetric filling • Form, fill, seal • Food handling • For meat and poultry applications, the MP-Series Stainless Steel motors are recommended

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

Catalog Numbers - MP-Series Food Grade 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) Not all combinations are available. Only the configurations for rated speed and magnet stack length, as listed in MP-Series Food Grade (200V-class) Performance Specifications on page 81 and MP-Series Food Grade Motor (400V-class) Performance Specifications on page 81, are available. Use Motion Analyzer software to size and select motors for your application.