

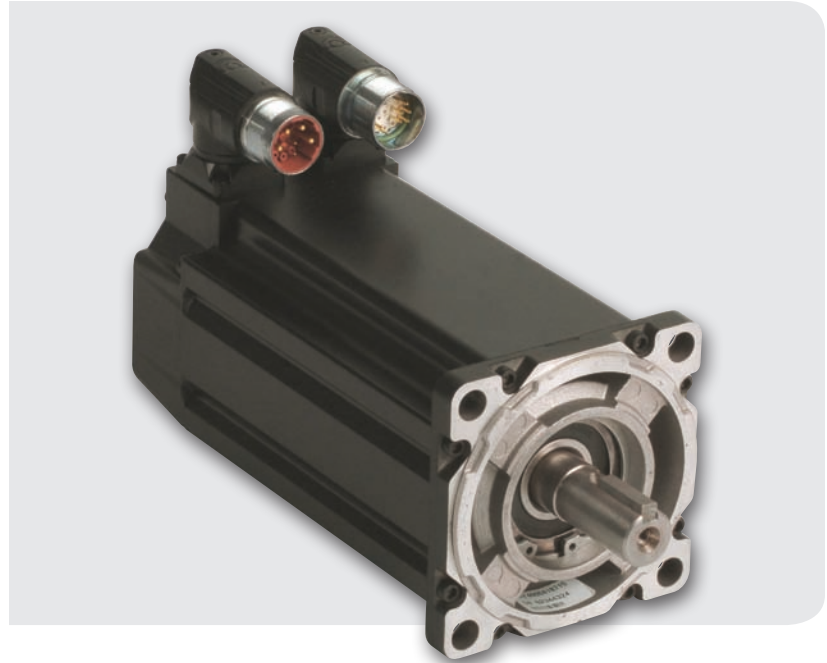
MP-Series Medium Inertia Servo Motors

A Compact, Power Dense, Feature-Rich Solution

The new Allen-Bradley® MP-Series™ Medium Inertia Servo Motors – Bulletin MPM – offers a compact, power dense, feature-rich solution for higher inertia applications. Leveraging the proven MP-Series motor technology and quality standards, these new servo motors are ideal for users with print, converting, web handling, automotive, and other applications requiring more power in a smaller package.

If you currently use MP-Series Low Inertia Motors you will enjoy complete mechanical interchangeability with the new MP-Series Medium Inertia Motors (MPM). Interfaces to couplers, gear boxes, and similar mechanical components are identical, providing convenience if you use both types of motors. In addition, cable selection and stocking is simplified through the use of Rockwell Automation DIN standard cables on the complete range of MP-Series motors and actuators.

- Higher rotor inertia enhances inertia matching between load and motor
- Optimized for use with the latest Kinetix 6000, 6200 and 6500 Servo Drives
- Help reduce system costs with multiple winding speed options for optimal drive sizing
- Common design platform of the MP-Series motors allows mechanical interchangeability with the MP-Series Low Inertia Motors (MPL) simplifying machine design
- Reduce inventory and spare part requirements with common hardware options throughout MP-Series
- Environmentally protected to IP65 (IP67 with optional shaft seal)



Bulletin MPM Medium Inertia Servo Motor

The MP-Series (MPM) medium inertia servo motors offer IEC metric mounting dimensions and rotatable DIN connectors that provide flexible connector orientation for ease of cable routing. The motors feature similar speed and torque performance, feedback devices and rotor inertias as the 1326AB medium inertia servo motors they are designed to replace, helping provide a smooth migration path for users of the legacy motors.

- IEC metric mounting dimensions, identical to the equivalent MP-Series Low Inertia Motors (MPL)
- Rotatable DIN connectors, common to the DIN MP-Series (MPL)
- Multiple winding speed options, optimized for use with the latest Kinetix 6000, 6200 and 6500 Servo Drives
- Speed / torque curves and rotor inertias matched to legacy 1326AB Medium Inertia Servo Motors
- High resolution absolute encoder and resolver feedback
- 230V AC and 460V AC windings

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MP-Series Medium Inertia Motor Performance Specifications

MPM 230V

Motor MPM-	Base Speed rpm	Max Speed rpm	Continuous Stall Torque Nm (lb-in)	Peak Stall Torque Nm (lb-in)	Motor Rated Output kW	Speed at Motor Rated Output rpm	Rotor Inertia kg-m ² (lb-in-s ²)	Continuous Current Amp	Peak Current Amp
A1151M	4500	6000	2.18 (19.3)	6.60 (58.0)	0.90	5000	0.00065 (0.00575)	7.7	30.6
A1152F	3000	5000	4.74 (42.0)	13.5 (119)	1.40	4000	0.00077 (0.00682)	11.9	44.8
A1153F	3000	5000	6.55 (58.0)	19.8 (175)	1.45	4000	0.00089 (0.00784)	16.2	64.5
A1302F	3000	4500	5.99 (53.0)	13.5 (119)	1.65	4000	0.000983 (0.00870)	17.3	50.3
A1304F	3000	4000	9.30 (82.0)	19.3 (171)	2.20	3500	0.001223 (0.01082)	19.7	48.4
A1651F	3000	5000	10.7 (95.0)	20.5 (181)	2.50	3000	0.006745 (0.05970)	31.0	73.8
A1652F	3000	4000	13.5 (119)	36.0 (319)	4.03	3500	0.007405 (0.06554)	33.5	103.2
A1653F	3000	4000	18.6 (165)	42.0 (372)	5.10	3000	0.008165 (0.07227)	42.4	119.2
A2152F	3000	4000	27.0 (239)	56.0 (496)	5.20	2000	0.02059 (0.18223)	59.0	125.9
A2153F	3000	3600	34.0 (301)	58.0 (513)	5.80	2000	0.02254 (0.19950)	59.7	120.5
A2154C	1500	2000	55.0 (487)	106 (938)	6.50	1750	0.02449 (0.21675)	58.7	127.3
A2154E	2250	2650	44.0 (389)	84.0 (743)	7.00	2000		59.7	128.3

MPM 460V

Motor MPM-	Base Speed rpm	Max Speed rpm	Continuous Stall Torque Nm (lb-in)	Peak Stall Torque Nm (lb-in)	Motor Rated Output kW	Speed at Motor Rated Output rpm	Rotor Inertia kg-m ² (lb-in-s ²)	Continuous Current Amp	Peak Current Amp		
B1151F	3000	5000	2.18 (19.3)	6.6 (58.0)	0.75	4000	0.00065 (0.00575)	2.7	9.9		
B1151T	6000	7000			0.90	5000	0.00077 (0.00681)	5.6	20.5		
B1152C	1500	3000	4.74 (42.0)	13.5 (119)	1.20	2500	0.00077 (0.00681)	3.6	12.4		
B1152F	3000	5200			1.40	4000		6.2	21.2		
B1152T	6000	7000						11.0	37.9		
B1153E	2250	3500	6.55 (58.0)	19.8 (175)	1.40	3000	0.00089 (0.00788)	6.2	21.6		
B1153F	3000	5500			1.45	4000		9.2	32.0		
B1153T	6000	7000						16.0	55.5		
B1302F	3000	4500	5.99 (53.0)	13.5 (119)	1.65	4000	0.000983 (0.00870)	8.6	22.1		
B1302M	4500	6000						12.6	32.4		
B1302T	6000	7000						16.8	43.4		
B1304C	1500	2750	10.2 (90.0)	27.1 (240)	2.00	3500	0.001223 (0.01082)	7.0	22.3		
B1304E	2250	4000			2.20			10.8	34.3		
B1304M	4500	6000						19.0	60.6		
B1651C	1500	3500	10.7 (95.0)	23.2 (205)	2.50	3000	0.006745 (0.05969)	10.2	29.3		
B1651F	3000	5000						17.8	50.9		
B1651M	4500	5000						22.5	56.9		
B1652C	1500	2500	16.0 (142)	40.0 (354)	3.80	2500	0.007405 (0.06554)	11.5	33.6		
B1652E	2250	3500	19.4 (172)	48.0 (425)	4.30	3500		20.9	60.5		
B1652F	3000	4500						28.7	84.1		
B1653C	1500	2500	26.8 (237)	67.8 (600)	4.60	2000	0.008165 (0.07227)	20.1	59.3		
B1653E	2250	3500		62.0 (549)	5.10	3000		27.0	73.0		
B1653F	3000	4000		56.0 (496)				34.9	94.4		
B2152C	1500	2500	36.7 (325)	72.3 (640)	5.60	2000	0.02059 (0.18224)	27.4	55.5		
B2152F	3000	4500	33.0 (292)		5.90	2500		43.5	98.1		
B2152M	4500	5000	30.0 (266)					44.6	76.4		
B2153B	1300	2000	48.0 (425)	101.1 (895)	6.80	1750	0.02254 (0.19949)	24.1	60.0		
B2153E	2250	3000			7.20	2000		39.6	98.6		
B2153F	3000	3800						43.9	98.4		
B2154B	1300	2000	62.8 (556)	154.2 (1365)	6.90	1750	0.02449 (0.21675)	35.5	98.0		
B2154E	2250	3000	56.0 (496)	112.0 (991)	7.50	2000		43.7	98.4		
B2154F	3000	3300		88.0 (779)				44.4	83.7		

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