



Representative Photo Only  
(actual product may vary based on configuration selections)

**SERVO MOTOR 5000RPM 1.58Nm MULTI TURN NO BRAKE KEYED**

- Continuous stall torque of 0.26 to 163Nm (2.3 to 1440lb-in.)
- Peak torque of 0.77 to 278Nm (6.8 to 2460lb-in.)
- Integral 24V brake option
- Absolute multi-turn and single-turn high resolution, incremental encoder and resolver feedback options
- Low-profile, field-reversible motor connectors for minimal servo motor impact on machine design
- DIN connector versions allow flexible orientation of connectors and use of a single cable family with all MP-Series motors

**SPECIFICATIONS**

|                               |                                                                                                                                                                                                                                            |
|-------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Product Series                | MPL Low Inertia                                                                                                                                                                                                                            |
| Component Type Motion Control | Rotary Servo Motor                                                                                                                                                                                                                         |
| Mounting, Motor               | Flange Mount, Metric                                                                                                                                                                                                                       |
| Brake                         | No Y / N                                                                                                                                                                                                                                   |
| Food Grade                    | No                                                                                                                                                                                                                                         |
| Connector, Motor End          | SpeedTec DIN (Type M7)                                                                                                                                                                                                                     |
| Keyed Shaft                   | Yes Y / N                                                                                                                                                                                                                                  |
| Feedback Type                 | Absolute Multi-turn type                                                                                                                                                                                                                   |
| Feedback Resolution           | Sin/Cos, 1024 cycles/rev resolution                                                                                                                                                                                                        |
| Feedback Protocol             | Hiperface protocol                                                                                                                                                                                                                         |
| Speed, Rated                  | 5000 rpm                                                                                                                                                                                                                                   |
| Speed, Max                    | 5000 rpm                                                                                                                                                                                                                                   |
| Magnet Stack Length           | 10 = 25.4mm                                                                                                                                                                                                                                |
| Frame Size                    | Frame 3 / Frame 100 = 100mm size                                                                                                                                                                                                           |
| Voltage Class                 | 400 V AC                                                                                                                                                                                                                                   |
| Shaft Seal                    | No Y / N                                                                                                                                                                                                                                   |
| Special / Custom              | No                                                                                                                                                                                                                                         |
| Output Torque, Continuous     | 1.58 Nm, continuous                                                                                                                                                                                                                        |
| Output Torque, Peak           | 3.61 Nm                                                                                                                                                                                                                                    |
| Compatible Drive Series'      | Kinetix 5500 (Bul. 2198) compatible<br>Kinetix 6200 / 6500 (Bul. 2094)<br>Kinetix 6000 (Bul. 2094)<br>Kinetix 300 (Bul. 2097)<br>Kinetix 350 (Bul. 2097)<br>Kinetix 2000 (Bul. 2093)<br>Kinetix 7000 (Bul. 2099)<br>Ultra 3000 (Bul. 2098) |
| Rated Power, Continuous       | 0.77 kW continuous                                                                                                                                                                                                                         |
| Rotor Inertia                 | 4.4E-05 kg m², rotor                                                                                                                                                                                                                       |
| Operating Temperature, Max    | 40 °C max                                                                                                                                                                                                                                  |

# Catalogue No: **MPL-B310P-MJ72AA**

## SERVO MOTOR 5000RPM 1.58Nm MULTI TURN NO BRAKE KEYED

Automation Systems > Motion Systems > Servo Motors and Cables > Allen-Bradley MP Series Servo Motors > MP-Series™ Low Inertia (MPL) Servo Motors > MP-Series™ Low Inertia 460V AC Motors



|                                         |                                                                                                                    |
|-----------------------------------------|--------------------------------------------------------------------------------------------------------------------|
| Operating Temperature, Min              | 0 °C min                                                                                                           |
| Storage Temperature, Max                | 70 °C max                                                                                                          |
| Storage Temperature, Min                | -30 °C min                                                                                                         |
| Relative Humidity, Min                  | 5 %RH                                                                                                              |
| Relative Humidity, Max                  | 95 %RH                                                                                                             |
| Weight                                  | 2.7 kg                                                                                                             |
| IP Rating                               | IP50<br>IP66                                                                                                       |
| Details, IP Rating                      | IP50 minimum, without shaft seal; IP66 with optional shaft seal and use of environmentally sealed cable connectors |
| Shock Acceleration (Max.)               | 20 g                                                                                                               |
| Shock Duration (Max.)                   | 6 ms                                                                                                               |
| Vibration Acceleration (Max.)           | 2.5 m/s <sup>2</sup>                                                                                               |
| Vibration Frequency, Operational (Max.) | 2000 Hz                                                                                                            |

### REFERENCES

|                                             |   |
|---------------------------------------------|---|
| IECEX Certificate                           | - |
| Supplier Declaration of Conformity:         | - |
| Installation Guide:                         | - |
| User Manual:                                | - |
| Manufacturer Datasheet:                     | - |
| Manufacturer Catalogue & Product Selection: | - |