Mitsubishi □□ □□□ □□□ Series Service Manual

HG-SR52J

1. Description

The HG-SR52J from Mitsubishi is an AC rotary servo motor designed for medium power applications. It offers an output power of 500 watts and a rated operation speed of 2000 revolutions per minute.

2. Specifications

Specification	Value
Manufacturer	**Mitsubishi**
Product	**Line HG Series**
Part	**Number HG-SR52J**
Weight	**4.56 lbs (2.07 kg)**
Output	**Power 500W**
Rated	**Speed 2000 rpm**
Voltage	**Class 200V AC Class**
Rated	**Current 2.9A**
Maximum	**Speed 3000 rpm**
Maximum	**Current 9A**
Torque	**2.4 Nm Nominal**
Maximum	**Torque 7.2 Nm**
Connection	**Type 2 MS-Type Connectors**
Mounting	**Mode 130 x 130mm Flange Mounting**
Oil	**Seal Included**
Motor	**Capacity Medium Power Capacity**
Inertia	**Type Medium Inertia**
Type	**of Motor AC Rotary Servo Motor**

3. Product Information

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Technical specifications for HG-SR52J

Manufacturer Mitsubishi

Product Line HG Series

Part Number HG-SR52J

Weight 4.56 lbs (2.07 kg)

Output Power 500W

Rated Speed 2000 rpm

Voltage Class 200V AC Class

Rated Current 2.9A

Maximum Speed 3000 rpm

Maximum Current 9A

Torque 2.4 Nm Nominal

Maximum Torque 7.2 Nm

Connection Type 2 MS-Type Connectors

Mounting Mode 130 x 130mm Flange Mounting

Oil Seal Included

Motor Capacity Medium Power Capacity

Inertia Type Medium Inertia

Type of Motor AC Rotary Servo Motor

Description

The Mitsubishi HG-SR52J is an effective AC rotary servo motor, capable of delivering a maximum output power of 500 watts. This model is suitable for tasks that require efficient performance due to its voltage classification of 200V AC. It operates optimally at a rated speed of 2000 revolutions per minute, with the ability to reach a peak speed of 3000 rpm. This flexibility in speed allows it to adapt to varying operational demands.

The motor has a rated current of 2.9 A and can handle maximum current levels reaching up to 9 A, providing substantial power handling capabilities. Torque performance includes a nominal rating of 2.4 Nm, while it can produce a maximum torque of 7.2 Nm to meet higher load requirements. This combination of torque and speed enhances the motor's versatility across various applications.

For installation, the HG-SR52J utilizes a 130 x 130 mm flange mounting configuration alongside two MS-type connectors, which facilitate straightforward integration into existing systems. The motor's design incorporates an oil seal, contributing to its protection from contaminants and extending its service life. The medium inertia type indicates a well-balanced performance suitable for applications needing steady control and responsiveness, reinforcing its utility as a medium power capacity solution.

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