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

HG-SR702J

1. Description

The HG-SR702J from Mitsubishi is a brushless servo motor that excels in performance with a power output of 7 kW. This unit supports a rated speed of 2000 rpm and can reach up to 3000 rpm, ensuring dynamic responsiveness in various applications.

2. Specifications

Specification	Value
Manufacturer	**Mitsubishi**
Product	**Line HG Series**
Part	**Number HG-SR702J**
Weight	**9.13 lbs (4.14 kg)**
Motor	**Brushless Servo Motor**
Inertia	**Medium Inertia**
Capacity	**Medium Capacity**
Oil	**Seal Included**
Encoder	**22-Bit Absolute Encoder**
IP	**Rating IP67**
Voltage	**Class 200VAC Class**
Rated	**Current 26A**
Output	**Power 7kW**
Rated	**Speed 2000rpm**
Maximum	**Speed 3000rpm**
Maximum	**Current 83A**
Operating	**Temperature 0 to 40 degrees Celsius**
Storage	**Temperature -15 to 70 degrees Celsius**
Description	
The	**Mitsubishi HG-SR702J is a brushless servo motor ideal for various industrial tasks. With an output power rating of 7 kW, it is designed for medium-capacity applications. This motor operates efficiently, featuring a rated speed of 2000 rpm and the capability to reach a maximum speed of 3000 rpm, making it suitable for tasks that require swift movements.**

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3. Product Information

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Technical specifications for HG-SR702J

Manufacturer Mitsubishi

Product Line HG Series

Part Number HG-SR702J

Weight 9.13 lbs (4.14 kg)

Motor Brushless Servo Motor

Inertia Medium Inertia

Capacity Medium Capacity

Oil Seal Included

Encoder 22-Bit Absolute Encoder

IP Rating IP67

Voltage Class 200VAC Class

Rated Current 26A

Output Power 7kW

Rated Speed 2000rpm

Maximum Speed 3000rpm

Maximum Current 83A

Operating Temperature 0 to 40 degrees Celsius

Storage Temperature -15 to 70 degrees Celsius

Description

The Mitsubishi HG-SR702J is a brushless servo motor ideal for various industrial tasks. With an output power rating of 7 kW, it is designed for medium-capacity applications. This motor operates efficiently, featuring a rated speed of 2000 rpm and the capability to reach a maximum speed of 3000 rpm, making it suitable for tasks that require swift movements. Its medium inertia characteristic allows for a balance of responsiveness and stability, ensuring that it can handle loads effectively. For enhanced precision, the motor utilizes a 22-bit absolute encoder, providing detailed feedback for accurate control. The protection rating of IP67 signifies that this model is well-protected against the ingress of dust and water, ensuring reliability in various environments.

The motor operates on a 200VAC power class and has a rated current of 26A. Under maximum load conditions, the current can rise to 83A. The temperature range for operation extends from 0 to 40 degrees Celsius, while it can be stored safely between -15 to 70 degrees Celsius. The inclusion of an oil seal further enhances the motor's resilience, making the HG-SR702J suitable for settings with more demanding operational needs.

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