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

MR-J3-700B4RJ006

1. Description

The MR-J3-700B4RJ006 servo amplifier by Mitsubishi operates within the MELSERVO MR-J3 series, featuring a sine-wave PWM control system along with a current control mechanism. With a built-in dynamic brake and a mass of 6.2 kg, it efficiently manages motor operations under various conditions.

2. Specifications

Specification	Value
Manufacturer	**Mitsubishi**
Product	**Line MELSERVO MR-J3**
Part	**Number MR-J3-700B4RJ006**
Description	**Servo Amplifier**
Control	**System Sine-wave PWM control, current control system**
Dynamic	**Brake Built-in**
Structure	**Force-cooling, open (IP00)**
Mass	**6.2 kg**
Power	**Supply Voltage/Frequency 3-phase 200 to 230VAC, 50/60Hz**
Power	**Supply Permissible Voltage Fluctuation 3-phase 170 to 253VAC**
Power	**Supply Permissible Frequency Fluctuation Within +/-5%**
Control	**Circuit Power Supply Voltage/Frequency 1-phase 200 to 230VAC, 50/60Hz**
Control	**Circuit Power Supply Permissible Voltage Fluctuation 1-phase 170 to 253VAC**
Control	**Circuit Power Supply Permissible Frequency Fluctuation Within +/-5%**
Control	**Circuit Power Supply Input 45W**
Interface	**Power Supply Voltage 24VDC**
Interface	**Power Supply Capacity 150 mA**
Ambient	**Temperature in Operation 0 to +55°C (non-freeze)**

3. Product Information

The MR-J3-700B4RJ006 servo amplifier by Mitsubishi operates within the MELSERVO MR-J3 series, featuring a sine-wave PWM control system along with a current control mechanism. With a built-in dynamic brake and a mass of 6.2 kg, it efficiently manages motor operations under various conditions.

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Technical specifications for MR-J3-700B4RJ006

Manufacturer Mitsubishi

Product Line MELSERVO MR-J3

Part Number MR-J3-700B4RJ006

Description Servo Amplifier

Control System Sine-wave PWM control, current control system

Dynamic Brake Built-in

Structure Force-cooling, open (IP00)

Mass 6.2 kg

Power Supply Voltage/Frequency 3-phase 200 to 230VAC, 50/60Hz

Power Supply Permissible Voltage Fluctuation 3-phase 170 to 253VAC

Power Supply Permissible Frequency Fluctuation Within +/-5%

Control Circuit Power Supply Voltage/Frequency 1-phase 200 to 230VAC, 50/60Hz

Control Circuit Power Supply Permissible Voltage Fluctuation 1-phase 170 to 253VAC

Control Circuit Power Supply Permissible Frequency Fluctuation Within +/-5%

Control Circuit Power Supply Input 45W

Interface Power Supply Voltage 24VDC

Interface Power Supply Capacity 150 mA

Ambient Temperature in Operation 0 to +55°C (non-freeze)

Description

Mitsubishi's MR-J3-700B4RJ006 represents a reliable solution in servo amplification within their MELSERVO series. This device employs a sine-wave PWM control system combined with a current control mechanism, offering precise motor control capabilities. A dynamic brake is integrated into the design, enhancing system efficiency and safety during operation. The amplifier has a mass of 6.2 kg, which highlights its robust structure supporting demanding tasks.

The structure of the MR-J3-700B4RJ006 is open-type with a force-cooling feature, rated as IP00. This design suits various applications requiring adequate airflow and space for cooling. The unit operates with a 3-phase power supply within the range of 200 to 230 VAC, adapting to standard industrial settings with a frequency of 50 to 60 Hz. It can tolerate voltage fluctuations between 170 and 253 VAC, along with frequency fluctuations maintained within +/-5%.

Additionally, the control circuit utilizes a single-phase power input at similar voltage and frequency ratings. It supports voltage variations from 170 to 253 VAC while also maintaining the specified frequency range. The control circuit requires a power input of 45W to function effectively.

The interface power supply operates at 24 VDC with a capacity of 150 mA, which facilitates communication with external systems or devices. Moreover, this servo amplifier is designed to function within ambient temperatures from 0 to +55°C, ensuring reliable performance without freezing in typical industrial environments.

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