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

MR-J3-500T4

1. Description

The MR-J3-500T4 is an AC servo amplifier designed for robust performance in various applications. With a rated output of 5 kW, it provides reliable power management for servo motors.

2. Specifications

Specification	Value
Manufacturer	**Mitsubishi**
Product	**Type AC Servo Amplifier**
Product	**Line MELSERVO MR-J3**
Part	**Number MR-J3-500T4**
Rated	**Output 5 kW**
CC-Link	**Supported**
Power	**Supply 400VAC**
Voltage	**Type 3-phase**
Protection	**Class IP00**
Operating	**Temperature 0 to 55°C**
Compliance	**CE, UL, RoHS**
Control	**Systems Current control and sine-wave PWM**
Compatible	**Motor Types Servo motors**

3. Product Information

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Technical specifications for MR-J3-500T4

Manufacturer Mitsubishi

Product Type AC Servo Amplifier

Product Line MELSERVO MR-J3

Part Number MR-J3-500T4

www.AutoDCSTech.com

Rated Output 5 kW

CC-Link Supported

Power Supply 400VAC

Voltage Type 3-phase

Protection Class IP00

Operating Temperature 0 to 55°C

Compliance CE, UL, RoHS

Control Systems Current control and sine-wave PWM

Compatible Motor Types Servo motors

Description

Mitsubishi's MR-J3-500T4 serves as a reliable AC servo amplifier, ideal for controlling servo motors in a range of automated applications. This component delivers a substantial output of 5 kW, making it suitable for demanding tasks. It is engineered to function on a three-phase voltage input of 400VAC, offering stable performance in industrial environments. The MR-J3-500T4 supports CC-Link for improved interoperability in complex control systems, facilitating streamlined communication.

With its operational parameters, this amplifier can perform efficiently in temperatures between 0°C and 55°C. This device holds an IP00 protection rating, indicating that it is intended for use in controlled environments. Furthermore, it meets compliance standards for CE, UL, and RoHS, which maintains safety standards and environmental considerations in manufacturing practices.

Employing current control and sine-wave PWM technologies, the MR-J3-500T4 enables precise motor control, which is critical for applications requiring exact movement and positioning. Its compatibility with various servo motors enhances its versatility within Mitsubishi's automation solutions. Overall, the MR-J3-500T4 amplifier combines robust capabilities with essential compliance features, making it an integral component in high-performance automation systems.