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

MR-J3-350A4-ETHERCAT

1. Description

The MR-J3-350A4-ETHERCAT from Mitsubishi is a sophisticated servo drive suitable for a variety of motion control applications. Featuring 3-phase input with an EtherCAT command interface, this unit is designed for efficient performance in dynamic environments.

2. Specifications

Specification	Value
Manufacturer	**Mitsubishi**
Product	**Line MELSERVO MR-J3**
Part	**Number MR-J3-350A4-ETHERCAT**
Enclosure	**Rating IP00 (open enclosure)**
Type	**of Input Phase 3-phase input**
Command	**Interface Type EtherCAT**
Braking	**Unit Built-in dynamic brake**
Current	**Rating 8.6 Amperes**
Cooling	**Method Forced ventilation cooling**
Input	**Frequency 50 to 60 Hertz**
Power	**Consumption 45 Watts**
Input	**Current Consumption 7.9 Amperes**
Control	**Method Sine wave pulse width modulation (PWM) control and current control**
Rated	**Active Power 3.5 kilowatt**
Ambient	**Operating Temperature 0 to 55 °C in a non-freezing environment**
Supply	**Voltage Rating 380 to 480 Volts AC**
Storage	**Temperature -20 to 65 °C in a non-freezing environment**

3. Product Information

The MR-J3-350A4-ETHERCAT from Mitsubishi is a sophisticated servo drive suitable for a variety of motion control applications. Featuring 3-phase input with an EtherCAT command interface, this unit is designed for efficient performance in dynamic environments.

Technical specifications for MR-J3-350A4-ETHERCAT

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Manufacturer Mitsubishi

Product Line MELSERVO MR-J3

Part Number MR-J3-350A4-ETHERCAT

Enclosure Rating IP00 (open enclosure)

Type of Input Phase 3-phase input

Command Interface Type EtherCAT

Braking Unit Built-in dynamic brake

Current Rating 8.6 Amperes

Cooling Method Forced ventilation cooling

Input Frequency 50 to 60 Hertz

Power Consumption 45 Watts

Input Current Consumption 7.9 Amperes

Control Method Sine wave pulse width modulation (PWM) control and current control

Rated Active Power 3.5 kilowatt

Ambient Operating Temperature 0 to 55 °C in a non-freezing environment

Supply Voltage Rating 380 to 480 Volts AC

Storage Temperature -20 to 65 °C in a non-freezing environment

Description

The Mitsubishi MR-J3-350A4-ETHERCAT servo drive serves as a key component in advanced motion control systems. This drive features an open enclosure rated IP00, designed to cater to specific environmental needs in application setups without limitations from external enclosures. It accepts a 3-phase input signal, which is essential for high-demand industrial applications.

Its command interface utilizes EtherCAT technology, enabling rapid and effective communication with control systems to achieve optimal performance. The unit is designed to handle a rated active power of 3.5 kilowatts, corresponding well with its operational capacities.

For current management, the drive can handle a peak rating of 8.6 Amperes and has a typical input current consumption of 7.9 Amperes under standard operating conditions. The cooling of this device is achieved through forced ventilation, promoting effective heat dissipation during operation.

The input frequency range supported by this drive is between 50 and 60 Hertz. Additionally, it includes a built-in dynamic braking unit for enhanced control during deceleration or stopping.

Operating temperatures for the MR-J3-350A4-ETHERCAT are permitted from 0 to 55 °C, ensuring it holds up in various factory and production settings. During storage, it can withstand temperatures ranging from -20 to 65 °C, maintaining stability without risk of freezing damage. This model weighs approximately 11.02 pounds (5 kilograms), making it manageable for installation and integration into existing systems.

Website: www.AutoDCSTech.com Email: sales@AutoDCSTech.com