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

MR-J3-40BS1

1. Description

The MR-J3-40BS1, manufactured by Mitsubishi, belongs to the MELSERVO MR-J3 series. This unit delivers a rated output of 400 Watts and operates with a 1-phase input, suitable for power supply voltages ranging from 100 to 120 Volts AC.

2. Specifications

Specification	Value
Manufacturer	**Mitsubishi**
Product	**Line MELSERVO MR-J3**
Part	**Number MR-J3-40BS1**
Number	**of Inputs/Outputs 4 digital inputs, 2 digital outputs, 1 digital relay output, and 2 analog outputs**
Rated	**Output 400 Watts**
Input	**Phase Type 1-phase input**
Power	**Supply Voltage 100 to 120 Volts AC**
Type	**of Interface SSCNET III/H**
Input	**Frequency 50 to 60 Hertz**
Braking	**Unit Built-in dynamic brake**
Power	**Consumption 30 Watts**
Control	**Method Sine wave pulse width modulation (PWM) control and current control**
Allowable	**Frequency Fluctuation Between -5 to +5%**
Cooling	**Method Natural cooling**
Input	**Current Consumption 9 Amperes**
Rated	**Output Frequency 0 to 360 Hertz**
Ambient	**Operating Temperature 0 to 55 °C in a non-freezing environment**

3. Product Information

The MR-J3-40BS1, manufactured by Mitsubishi, belongs to the MELSERVO MR-J3 series. This unit delivers a rated output of 400 Watts and operates with a 1-phase input, suitable for power supply voltages ranging from 100 to 120 Volts AC.

Technical specifications for MR-J3-40BS1

www.AutoDCSTech.com

Manufacturer Mitsubishi

Product Line MELSERVO MR-J3

Part Number MR-J3-40BS1

Number of Inputs/Outputs 4 digital inputs, 2 digital outputs, 1 digital relay output, and 2 analog outputs

Rated Output 400 Watts

Input Phase Type 1-phase input

Power Supply Voltage 100 to 120 Volts AC

Type of Interface SSCNET III/H

Input Frequency 50 to 60 Hertz

Braking Unit Built-in dynamic brake

Power Consumption 30 Watts

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

Allowable Frequency Fluctuation Between -5 to +5%

Cooling Method Natural cooling

Input Current Consumption 9 Amperes

Rated Output Frequency 0 to 360 Hertz

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

Description

Mitsubishi's MR-J3-40BS1 is a sophisticated device within the MELSERVO MR-J3 series. Engineered for efficiency, it features various input and output configurations including 4 digital inputs, 2 digital outputs, 1 digital relay output, and 2 analog outputs. This unit has a power rating of 400 Watts, operating with a 1-phase input type.

The power supply voltage is designed to range between 100 to 120 Volts AC. It operates within an input frequency of 50 to 60 Hertz, and the input current consumption is rated at 9 Amperes. For frequency control, professionals utilize a sine wave pulse width modulation (PWM) control mechanism as well as current control for enhanced precision.

The physical dimensions of this device are as follows: it stands at 6.61 inches tall, has a width of 1.57 inches, and a depth of 6.69 inches. This compact design (168 mm x 40 mm x 170 mm) makes it suitable for space-constrained environments. A built-in dynamic brake enhances its braking capabilities.

Designed with natural cooling in mind, the MR-J3-40BS1 also has an allowable frequency fluctuation of +/- 5%. The ambient operating temperature range extends from 0 to 55 degrees Celsius in non-freezing environments, ensuring reliable performance across different conditions.