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

MR-J3-CV18K

1. Description

The MR-J3-CV18K by Mitsubishi is a power regeneration converter with a capacity of 18 kW. This device operates efficiently on a rated input voltage of 200 to 230 VAC and supports 50 and 60 Hz input frequencies.

2. Specifications

Specification	Value
Manufacturer	**Mitsubishi**
Product	**Type Power Regeneration Converter**
Product	**Line MELSERVO MR-J3**
Part	**Number MR-J3-CV18K**
Rated	**Output Power 18 kW**
Rated	**Input Voltage 200-230 Vac**
Input	**Frequency 50/60 Hz**
Rated	**Output Voltage 283-325 Vdc**
Rated	**Current 76 A**
Input	**Phases 3-phase (also usable on 1-phase input)**
Cooling	**Method Forced Ventilation**
Protection	**Rating IP20**
Operating	**Temperature Range 0 to +55°C**
Storage	**Temperature Range -20 to +75°C**
Operating	**Humidity Range 10 to 90% RH (Non-condensing)**

3. Product Information

The MR-J3-CV18K by Mitsubishi is a power regeneration converter with a capacity of 18 kW. This device operates efficiently on a rated input voltage of 200 to 230 VAC and supports 50 and 60 Hz input frequencies.

Technical specifications for MR-J3-CV18K

Manufacturer Mitsubishi

Product Type Power Regeneration Converter

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Product Line MELSERVO MR-J3

Part Number MR-J3-CV18K

Rated Output Power 18 kW

Rated Input Voltage 200-230 Vac

Input Frequency 50/60 Hz

Rated Output Voltage 283-325 Vdc

Rated Current 76 A

Input Phases 3-phase (also usable on 1-phase input)

Cooling Method Forced Ventilation

Protection Rating IP20

Operating Temperature Range 0 to +55°C

Storage Temperature Range -20 to +75°C

Operating Humidity Range 10 to 90% RH (Non-condensing)

Description

Mitsubishi's MR-J3-CV18K is a high-performance power regeneration converter capable of delivering an output power of 18 kW. It operates on an input voltage spectrum of 200 to 230 Vac and is suitable for input frequencies of 50 and 60 Hz. This converter is designed to supply a rated output voltage between 283 and 325 Vdc while handling a continuous rated current of 76 A.

This model is engineered to accept 3-phase input, but it is also compatible with 1-phase input configurations, making it flexible for various installation scenarios. The unit employs forced ventilation as its cooling method, ensuring efficient thermal management during operation.

With its IP20 protection rating, the MR-J3-CV18K can operate in moderately dusty environments but is not suited for exposure to liquids. Its operating temperature range is from 0 to 55 degrees Celsius, adapting well to standard industrial conditions. It can be safely stored across a broader temperature range from -20 to 75 degrees Celsius.

Furthermore, this converter's operating humidity can fluctuate between 10% and 90% relative humidity, provided condensation is avoided. These specifications confirm that the MR-J3-CV18K is a reliable solution for regenerating power in various industrial applications.