Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

EVTSCAN EVTSCANbh2cxgo63i-12

DJD) JH-S2-2T Universal Variable Frequency Inverter User Manual

Model: EVTSCANbh2cxgo63i-12 | Brand: EVTSCAN

1. Product Overview

The DJD) JH-S2-2T is a universal variable frequency inverter designed for various industrial applications. It converts single-phase 220V input to three-phase 220V output, suitable for motors with power ratings of 0.75kW, 1.5kW, or 2.2kW. This inverter features a wide frequency range, quick response, and robust internal protection mechanisms.



Figure 1: The DJD) JH-S2-2T Variable Frequency Inverter shown with its included connection cable.

Key Features:

- Integrated temperature detection for enhanced safety and performance.
- Supports external control via 0-5V/0-10V analog voltage input or 0-20mA current signal input for continuous speed control.
- Fast start and stop response with high low-speed torque.
- Immediate shutdown for short-circuit protection.
- Comprehensive internal protection functions including undervoltage, overvoltage, overcurrent, and overheating.
- Wide output frequency range from 0.01 Hz to 400 Hz.
- Equipped with multi-function relay transmission, PID function, and constant pressure water supply function.
- Internal cooling system with low external environment requirements.

2. Safety Precautions

To ensure safe operation and prevent damage to the inverter or injury to personnel, please observe the following precautions:



Figure 2: Front panel of the inverter with visible safety precaution label.

- **Do not operate as requested:** Failure to follow instructions may cause death, severe injury, or serious property loss.
- **Before wiring:** Always ensure the power supply is cut off.
- **Do not connect U/V/W output:** Connecting the U/V/W output end to AC power supply will cause total damage to

the inverter.

- **Installation:** The inverter is forbidden to install on flammables. Always ensure the danger of fire is avoided.
- **Grounding:** The ground terminal of the inverter must be properly grounded.
- **Environment:** Do not install in environments with explosive gas, as this may pose a risk of explosion.
- **Internal Access:** Only qualified professionals may carry out wiring inside the inverter. The internal wiring has high pressure, and opening the shell secretly is prohibited.

3. Specifications

Parameter	Value
Model	JH-S2-2T
Adapted Motor Power	0.75kW / 1.5kW / 2.2kW (Optional)
Input Voltage	Single-phase AC176-264V 50/60Hz
Output Voltage	3-phase 0-220 VAC
Frequency Range	0.01-400 Hz
Application	Universal
Power Supply Phase Number	Single-phase
Power Supply Voltage	Low Voltage
Filter	Without Filter
DC Power Properties	Voltage Type
Control Mode	V/F Open Loop Control
Output Voltage Regulation Mode	PWM Control
Appearance	Molded Case
Rated Current	12A
Dimensions (approx.)	160 x 120 x 95 mm
Weight (approx.)	1.06 Kilograms

4. Setup and Installation

Proper installation is crucial for the safe and efficient operation of the inverter. Ensure all power is disconnected before proceeding with any wiring.

4.1 Mounting

Mount the inverter in a stable, well-ventilated area, away from flammable materials and explosive gases. Ensure sufficient clearance around the unit for proper heat dissipation, especially around the ventilation grilles.



Figure 3: Angled view of the inverter, highlighting the ventilation grilles for proper airflow.

4.2 Wiring Connections

Refer to the terminal block for correct wiring. The inverter requires a single-phase AC176-264V input and provides a three-phase 0-220 VAC output. Ensure all connections are secure and correctly polarized.

- **Input Power:** Connect the single-phase AC power supply to the designated input terminals.
- **Motor Output:** Connect the three-phase motor to the U, V, W output terminals.***Warning:*** *Do not connect the U/V/W output terminals to an AC power supply, as this will cause irreversible damage to the inverter.*
- **Grounding:** Connect the ground terminal of the inverter to a reliable earth ground. This is critical for safety.
- **External Control (Optional):** If using external control, connect 0-5V/0-10V analog voltage or 0-20mA current signals

to the appropriate control terminals as per your application requirements.



Figure 4: Detailed view of the inverter's terminal block, showing connection points for power input, motor output, and control signals.

5. Operating Instructions

The inverter features a user-friendly control panel for easy operation. Familiarize yourself with the buttons and display before use.



Figure 5: Front panel of the inverter, showing the digital display, control buttons, and rotary knob.

5.1 Control Panel Overview

- **RUN Indicator:** Illuminates when the inverter is operating.
- **ERR Indicator:** Illuminates to indicate an error or fault condition.
- **Digital Display:** Shows frequency, parameters, and error codes.
- **PROG Button:** Enters/exits programming mode.
- **OK Button:** Confirms selections or parameter changes.
- **JOG Button:** Initiates jog operation (momentary run).
- **RUN Button (Green):** Starts the motor.
- **STOP/RESET Button (Red):** Stops the motor and resets error conditions.

- **Up/Down Arrows:** Navigate menus or adjust parameter values.
- **REV (Rotary Knob):** Adjusts frequency or parameter values.

5.2 Basic Operation

1. **Power On:** After ensuring all wiring is correct and secure, apply power to the inverter. The display will light up.
2. **Set Frequency:** Use the Up/Down arrows or the REV rotary knob to set the desired output frequency. The display will show the current frequency.
3. **Start Motor:** Press the **RUN** button to start the motor. The RUN indicator will illuminate.
4. **Stop Motor:** Press the **STOP/RESET** button to stop the motor. The RUN indicator will turn off.
5. **Jog Operation:** Press and hold the **JOG** button for momentary operation. Release to stop.

5.3 Advanced Settings (Programming Mode)

For detailed parameter adjustments, such as acceleration/deceleration times, motor parameters, or PID settings, enter programming mode by pressing the **PROG** button. Navigate through the menus using the arrow keys and adjust values with the REV knob. Press **OK** to confirm changes and **PROG** again to exit.
Refer to the comprehensive programming manual (if provided separately) for a complete list of parameters and their functions.

6. Maintenance

Regular maintenance ensures the longevity and reliable operation of your inverter.

- **Cleaning:** Periodically clean the exterior of the inverter, especially the ventilation grilles, to prevent dust accumulation. Use a soft, dry cloth. Do not use liquid cleaners.
- **Ventilation:** Ensure that the cooling fan and ventilation openings are not obstructed. Proper airflow is essential for dissipating heat generated during operation.
- **Connections:** Periodically check all wiring connections for tightness. Loose connections can lead to overheating or intermittent operation.
- **Environment:** Maintain the operating environment within specified temperature and humidity ranges. Avoid excessive dust, moisture, and corrosive gases.

7. Troubleshooting

The inverter is equipped with internal protection functions that may trigger an error and stop operation. The ERR indicator will illuminate, and an error code may be displayed.

Common Issues and Solutions:

Symptom / Error Code	Possible Cause	Solution
ERR Indicator On / Overvoltage	Input voltage too high; regenerative braking from motor.	Check input power supply. Consider adding a braking resistor if motor frequently decelerates rapidly.
ERR Indicator On / Undervoltage	Input voltage too low.	Check input power supply voltage. Ensure it is within AC176-264V.

Symptom / Error Code	Possible Cause	Solution
ERR Indicator On / Overcurrent	Motor overload; short circuit in motor wiring; rapid acceleration.	Check motor load. Inspect motor wiring for shorts. Increase acceleration time parameter.
ERR Indicator On / Overheating	Insufficient ventilation; high ambient temperature; fan malfunction.	Ensure proper ventilation and clear air vents. Reduce ambient temperature if possible. Check cooling fan operation.
No Display / No Power	No input power; faulty power connection.	Verify power supply. Check all power wiring connections.
Motor Not Running	Incorrect wiring; frequency set to 0; motor fault.	Check motor wiring. Ensure frequency is set above 0. Check motor for issues.

If the problem persists after attempting these solutions, please contact customer support.

8. Warranty and Support

8.1 Warranty Information

Warranty terms and conditions for the DJD) JH-S2-2T Variable Frequency Inverter are typically provided by the seller or manufacturer at the time of purchase. Please refer to your purchase documentation or contact the seller directly for specific warranty details, including coverage period and conditions.

8.2 Customer Support

For technical assistance, troubleshooting beyond the scope of this manual, or inquiries regarding parts and service, please contact the seller or manufacturer directly. Have your product model number (EVTSCANbh2cxgo63i-12) and purchase details ready when contacting support.

© 2023 EVTSCAN. All rights reserved.
This manual is for informational purposes only. Specifications are subject to change without notice.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

https://manuals.plus/asin/B09PDK3YH4

More documents and user manuals: **https://manuals.plus/**