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> Motor Overload Protector Relay, Motor Protector, Simple in Structure Convenient Reliable for Protect Motor

VINGVO JD-5

VINGVO Motor Overload Protector Relay JD-5 User Manual

Comprehensive Guide for Installation, Operation, and Maintenance

1. INTRODUCTION

The VINGVO JD-5 Motor Overload Protector Relay is designed to provide reliable and convenient protection for electric motors. It safeguards motors against various fault conditions, including overload, phase loss, and stall, ensuring the longevity and stable operation of industrial equipment. Its simple structure facilitates easy installation and maintenance.

2. SAFETY INFORMATION

Always adhere to the following safety guidelines to prevent injury or damage to the equipment:

- Ensure power is disconnected before installation, wiring, or maintenance.
- Installation should only be performed by qualified personnel.
- Verify correct voltage and current ratings before connecting the device.
- Do not operate the device if it appears damaged.
- Keep the device away from moisture, dust, and extreme temperatures.

3. PRODUCT FEATURES

The JD-5 Motor Overload Protector Relay offers several key features:

- **Comprehensive Protection:** Protects against overload, phase loss, and stall conditions.
- **Adjustable Settings:** Features adjustable delay time and current settings for precise motor protection.
- **Indicator Lights:** Visual indicators for phase loss, overload, and operational status.
- **Simple Structure:** Designed for ease of installation and integration into existing systems.
- **Reliable Performance:** Ensures stable and continuous operation of protected motors.

4. SPECIFICATIONS

Parameter	Value
Brand	VINGVO
Model	JD-5
Current Rating	10 Amps, 100 Amps
Coil Voltage	380 Volts (AC380V), AC220V
Operation Mode	Electrical, Motor
Protection Functions	Overload, Phase Loss, Stall

5. SETUP AND INSTALLATION

Follow these steps for proper installation of the JD-5 Motor Overload Protector Relay:

- Power Disconnection:** Ensure all power to the motor and control circuit is completely disconnected and locked out before beginning installation.
- Mounting:** Mount the JD-5 relay securely in a suitable enclosure or panel, ensuring adequate ventilation. The device has mounting brackets on the sides.



Figure 5.1: Side view of the JD-5 relay, highlighting the mounting brackets for secure installation.

3. **Wiring Connections:** Connect the motor power lines through the designated terminals on the relay. Refer to the wiring diagram printed on the device or in the detailed manual for specific connections. Ensure all connections are tight and secure. The device supports both AC380V and AC220V operation.



Figure 5.2: Top view of the JD-5 relay, showing the wiring terminals and voltage selection indicators (AC380V/AC220V).

4. **Current Setting:** Adjust the current setting knob (labeled " " - Current Setting) to match the rated current of the motor being protected. This is typically found on the motor's nameplate.
5. **Delay Time Setting:** Adjust the delay time knob (labeled " " - Delay Setting) according to the motor's starting characteristics. A longer delay may be needed for motors with high inrush currents during startup.



Figure 5.3: Front panel of the JD-5 relay, showing the delay time and current setting knobs, along with indicator lights.

6. **Verification:** Double-check all wiring connections and settings before restoring power.

6. OPERATING INSTRUCTIONS

Once installed and configured, the JD-5 relay operates automatically to protect the motor. Observe the indicator lights for operational status:

- " " **(Run) Indicator:** Illuminates when the motor is operating normally.
- " " **(Overload) Indicator:** Flashes or illuminates steadily when an overload condition is detected. The relay will trip after the set delay time.
- " " **(Phase Loss) Indicator:** Illuminates when a phase loss condition is detected. The relay will trip immediately.

In case of a trip, identify and resolve the fault condition before resetting the relay and restarting the motor.

7. MAINTENANCE

The JD-5 Motor Overload Protector Relay requires minimal maintenance. Regular checks include:

- **Visual Inspection:** Periodically inspect the relay for any signs of physical damage, loose connections, or excessive dust accumulation.
- **Cleaning:** If necessary, gently clean the exterior of the device with a dry, soft cloth. Do not use liquid cleaners.
- **Connection Check:** Ensure all wiring terminals remain tight and secure to prevent intermittent operation or arcing.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Relay trips frequently	Motor overload, incorrect current setting, motor fault, or insufficient delay time.	Check motor load, verify current setting matches motor nameplate, inspect motor for issues, or slightly increase delay time if tripping during startup.
" " (Phase Loss) indicator on	Loss of one or more phases in the power supply, loose wiring connection.	Check power supply phases, inspect all wiring connections to the relay and motor for tightness.
Relay does not trip on overload	Current setting too high, faulty relay.	Reduce current setting to match motor rating. If problem persists, the relay may be faulty and require replacement.
No indicators light up	No power to the relay, incorrect wiring.	Verify power supply to the relay and check all wiring connections according to the diagram.

9. WARRANTY AND SUPPORT

For warranty information or technical support, please contact VINGVO customer service through the retailer where the product was purchased or visit the official VINGVO store on Amazon: [VINGVO Store](#). Please have your product model (JD-5) and purchase details ready when contacting support.

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