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CHUNYE TK26-PC

CHUNYE TK26 Thermal Overload Relay Instruction Manual

Model: TK26-PC (0.48-0.72A)

1. Introduction

The CHUNYE TK26 Thermal Overload Relay is designed to provide reliable protection for three-phase AC motors against overload and phase failure. This manual provides essential information for the safe and effective installation, operation, and maintenance of your TK26 relay. Please read this manual thoroughly before installation and retain it for future reference.

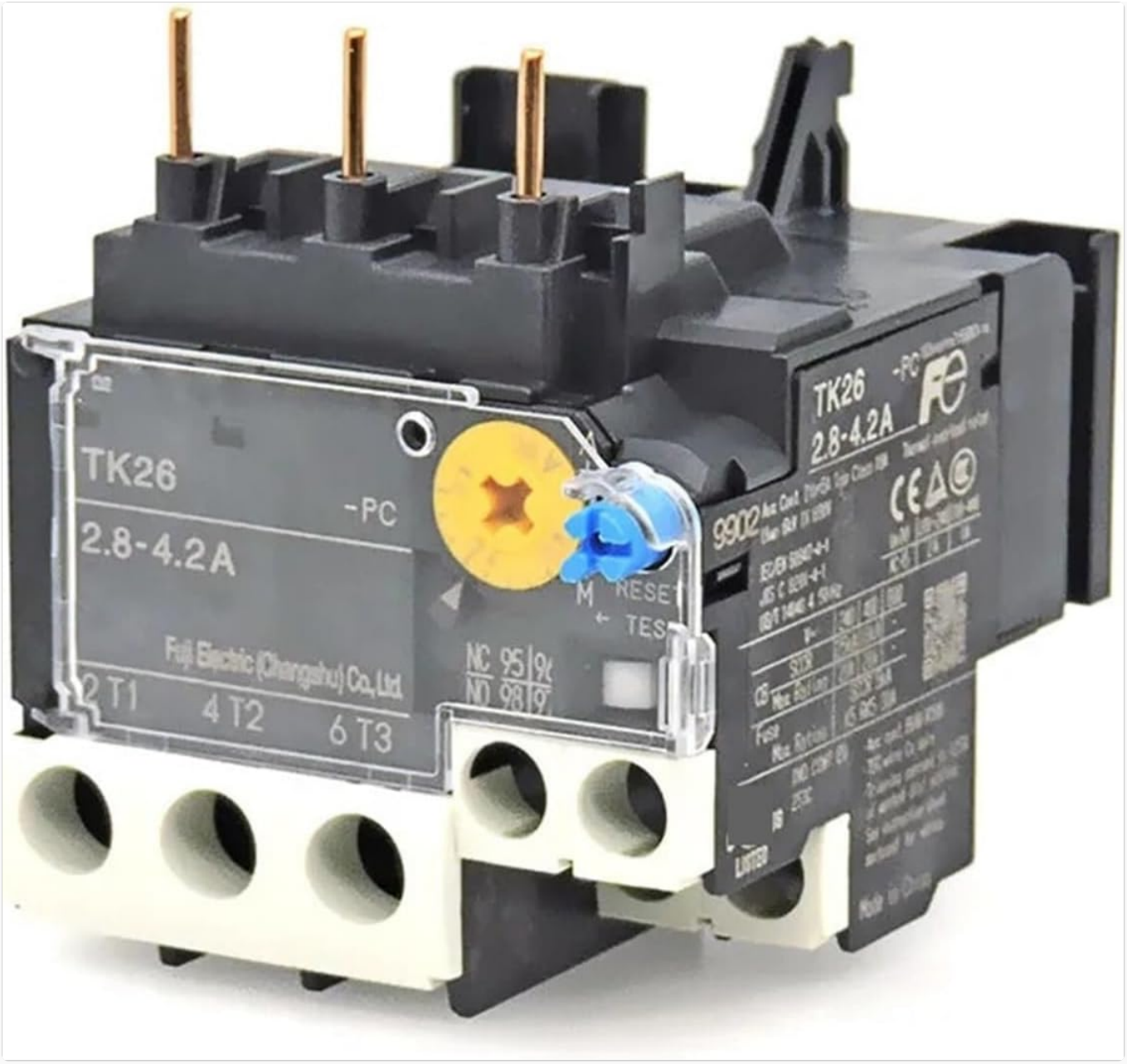


Figure 1: Front-angle view of the CHUNYE TK26 Thermal Overload Relay, showing the main body, terminals, and adjustment dial.

2. Safety Information

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel. Disconnect all power before working on the relay or connected equipment.

- Ensure the power supply is completely disconnected before installation, wiring, or maintenance.
- Verify that the relay's current range matches the motor's full load current.
- Do not operate the relay if it is damaged or malfunctioning.
- Follow all local and national electrical codes and regulations.

3. Product Overview

The TK26 Thermal Overload Relay provides essential protection for three-phase motors. Key features include:

- **Current Protection:** Safeguards motors from excessive current draw due to overload conditions.
- **Time-Delay Characteristic:** Allows for temporary current surges (e.g., motor startup) without nuisance tripping.
- **Simple Structure:** Designed for ease of installation and maintenance.

- **Wide Application:** Suitable for various industrial applications requiring motor protection.



Figure 2: Close-up front view of the TK26 relay, highlighting the adjustable current setting dial and the blue manual reset button.

4. Specifications

This section details the technical specifications for the CHUNYE TK26 Thermal Overload Relay (0.48-0.72A variant).

Specification	Value
Model	TK26-PC
Current Range	0.48 - 0.72A
Auxiliary Contacts	1 Normally Open (NO), 1 Normally Closed (NC)
Trip Class	Class 10A
Rated Insulation Voltage (Ui)	690V

Specification	Value
Rated Impulse Withstand Voltage (Uimp)	6kV
Operating Temperature	Refer to product labeling
Mounting Type	Directly mounted to contactor or stand-alone
Reset Function	Manual/Automatic (selectable)



Figure 3: Side view of the TK26 relay, displaying various electrical ratings and certifications.

5. Setup and Installation

The TK26 relay is typically mounted directly to a compatible contactor. Ensure the contactor's current rating is appropriate for the motor and the relay.

5.1 Wiring Connections

1. **Power Terminals (T1, T2, T3):** Connect the output terminals of the relay (T1, T2, T3) to the three-phase motor terminals. The input terminals of the relay connect to the output terminals of the contactor.
2. **Auxiliary Contacts (NC, NO):** The Normally Closed (NC) contact (e.g., 95-96) is typically wired in series with the contactor coil to interrupt the control circuit upon overload. The Normally Open (NO) contact (e.g., 97-98) can be used for alarm or indicator circuits.
3. **Grounding:** Ensure proper grounding of all electrical components as per local codes.

Refer to the wiring diagram provided with your contactor or motor control system for specific connection details. Ensure all connections are tight and secure.

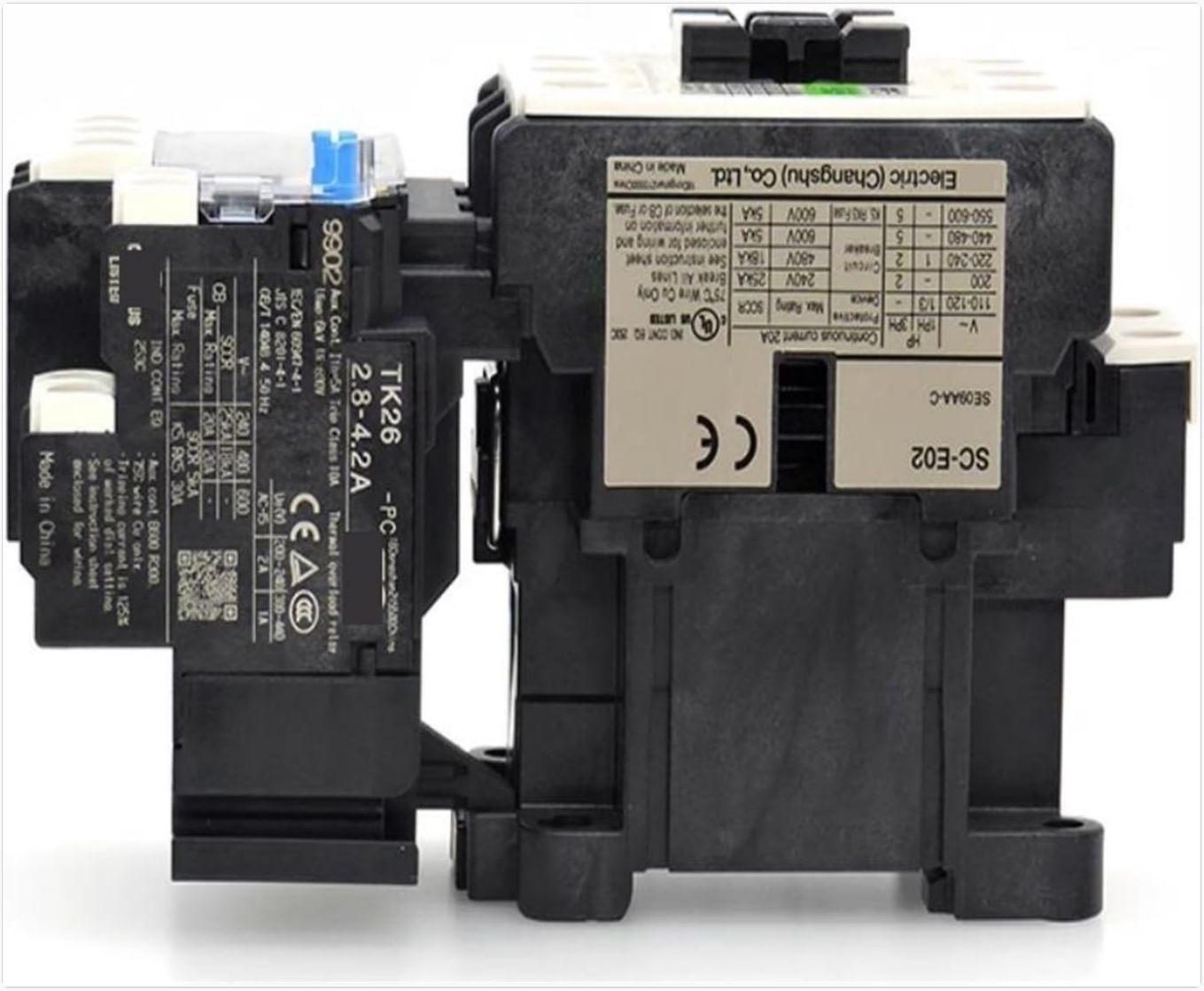


Figure 4: Top view of the TK26 relay, illustrating the main power terminals (T1, T2, T3) and the auxiliary contact terminals.

5.2 Current Setting

Adjust the current setting dial on the front of the relay to match the motor's full load current (FLA). This value is usually found on the motor's nameplate. For this 0.48-0.72A model, set the dial within this range. Setting the current too low may result in nuisance tripping, while setting it too high may not provide adequate protection.

6. Operating Instructions

Once installed and wired correctly, the TK26 relay operates automatically to protect the motor.

6.1 Normal Operation

During normal operation, the relay allows current to flow to the motor. If an overload condition occurs, the bimetallic strips inside the relay heat up and deform, causing the NC contact to open and interrupt the control circuit, thereby stopping the motor.

6.2 Resetting the Relay

After an overload trip, the relay will remain in the tripped state until it is reset. The TK26 typically offers both manual and automatic reset options, selectable via a switch or lever on the unit.

- **Manual Reset:** After the relay has cooled down (which may take a few minutes), press the blue reset button on the front of the unit to restore the NC contact to its closed position. Before resetting, investigate and resolve the cause of the overload.
- **Automatic Reset:** If configured for automatic reset, the relay will automatically reset after a cooling period. This option is generally not recommended for applications where unexpected motor restarts could pose a safety hazard.

7. Maintenance

The CHUNYE TK26 Thermal Overload Relay requires minimal maintenance. Regular inspections can help ensure its continued reliable operation.

- **Visual Inspection:** Periodically check the relay for any signs of physical damage, discoloration from overheating, or loose connections.
- **Cleaning:** Keep the relay free from dust, dirt, and moisture. Use a dry, soft cloth for cleaning. Do not use solvents or abrasive cleaners.
- **Functionality Test:** If possible and safe to do so, periodically test the trip function by simulating an overload condition (e.g., using a test button if available, or by temporarily reducing the current setting below the motor's operating current while monitoring).

8. Troubleshooting

This section addresses common issues you might encounter with the TK26 Thermal Overload Relay.

Problem	Possible Cause	Solution
Relay trips frequently	Motor overload, incorrect current setting, phase imbalance, motor fault, mechanical issue with load	Check motor load, verify current setting, inspect motor and power supply, consult a motor technician
Relay does not trip on overload	Current setting too high, faulty relay, incorrect wiring	Adjust current setting, test relay functionality, check wiring connections
Relay cannot be reset	Relay still hot after trip, mechanical issue with reset button, internal fault	Allow sufficient cooling time, inspect reset mechanism, replace relay if faulty
Motor does not start	Relay tripped, control circuit fault, power supply issue	Check relay status and reset if tripped, troubleshoot control circuit, verify power supply

If problems persist after attempting these solutions, contact a qualified electrician or the product supplier for assistance.

9. Warranty and Support

For information regarding the warranty period and terms for your CHUNYE TK26 Thermal Overload Relay, please refer to the documentation provided at the time of purchase or contact your seller directly. Warranty coverage typically addresses manufacturing defects.

For technical support, troubleshooting assistance beyond this manual, or to inquire about replacement parts, please contact the CHUNYE customer service or your authorized distributor. When contacting support, please have your product model (TK26-PC) and purchase details readily available.



Figure 5: The CHUNYE TK26 Thermal Overload Relay shown with its original packaging, indicating a new product.

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