AKZYTUE 380V 5.5KW 7.5 HP 3 Phase (Button Switch)

AKZYTUE Magnetic Electric Motor Starter User Manual

Model: 380V 5.5KW 7.5 HP 3 Phase (Button Switch)

1. Safety Information

WARNING: Electrical installation and maintenance should only be performed by qualified personnel. Failure to follow these instructions can result in electric shock, fire, or serious injury.

- Always disconnect power before installing, servicing, or removing the motor starter.
- Ensure all wiring connections are secure and comply with local electrical codes.
- Verify the voltage and current ratings of the motor starter match your application requirements.
- Do not operate the device if it is damaged or shows signs of wear.
- Keep the enclosure closed to protect against dust and moisture during operation.

2. Product Overview

The AKZYTUE Magnetic Electric Motor Starter is designed for controlling electric motors, offering reliable start/stop functionality and motor protection. It features a durable steel enclosure and built-in overload protection.

Figure 2.1: Front view of the Magnetic Electric Motor Starter, showing the green start button, red stop button, and product label.

Key Features:

- **Button Switch:** Easy operation with distinct start (green) and stop (red) buttons.
- **Durable Steel Enclosure:** Provides protection against workshop dust and moisture.
- **Built-in Overload Protection:** Intelligent protection for the motor, ensuring stable performance and 24-hour motor safety.
- **Knock-out Hole Design:** Four 3/4-inch punched holes with rubber grommets for convenient and secure wiring.
- **Versatile Application:** Suitable for various motor control applications, including textile machinery, agricultural machinery, exhaust equipment, and water applications.

Figure 2.2: Detailed view of the motor starter, emphasizing its robust construction and user-friendly controls.

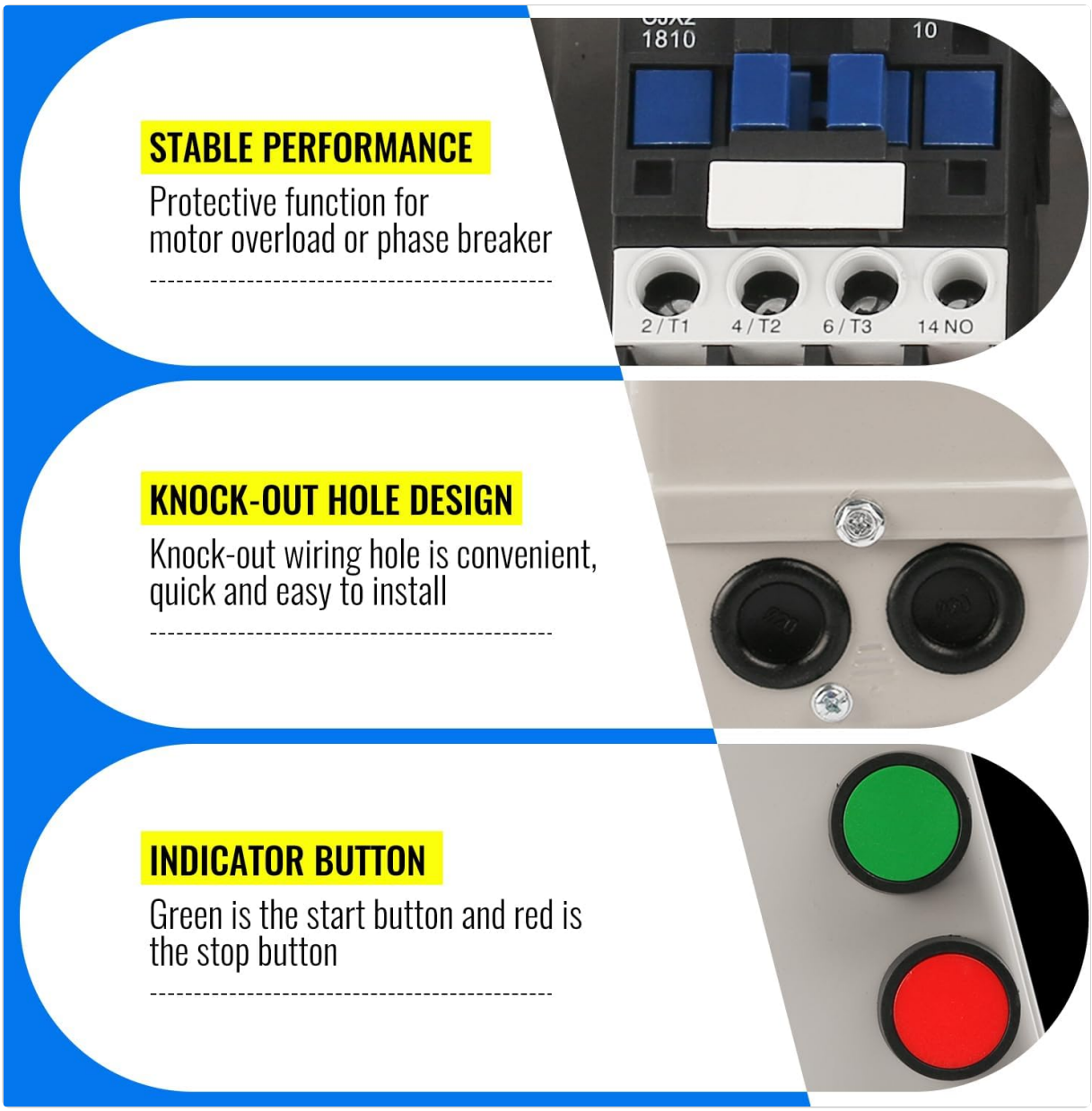

Figure 2.3: Internal components and design features for stable performance and easy installation.

3. Specifications

Feature	Detail
Switch Type	Button Switch
Control Circuit Voltage	220-240V
Working Circuit Voltage	220V/380V
Working Current	20-32AMP
Maximum Power	5.5KW (7.5 HP)
Phase	3 Phase (convertible to single-phase by professional electrical engineers)
Brand	AKZYTUE
Material	Steel (enclosure), Plastic, Copper (internal components)
Color	Gray

Feature	Detail
Unit Count	1.0 Count

Figure 3.1: Product dimensions for installation planning.

4. Setup & Installation

Before beginning installation, ensure the main power supply is disconnected. This motor starter is designed for easy installation, but professional electrical guidance is recommended, especially for phase conversion.

4.1 Unboxing and Inspection

Upon receiving your motor starter, carefully unbox it and inspect for any shipping damage. The package includes protective foam to secure internal components during transit and a detailed manual with wiring diagrams.

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Video 4.1: Unboxing and initial inspection of the Magnetic Electric Motor Starter, showing protective packaging and included manual.

4.2 Wiring Connections

The steel enclosure features four 3/4-inch punched holes, equipped with rubber grommets, to protect connecting wires. The factory default is a 3-phase connection mode. If your application requires a single-phase connection, it must be switched under the guidance of a professional electrical engineer.

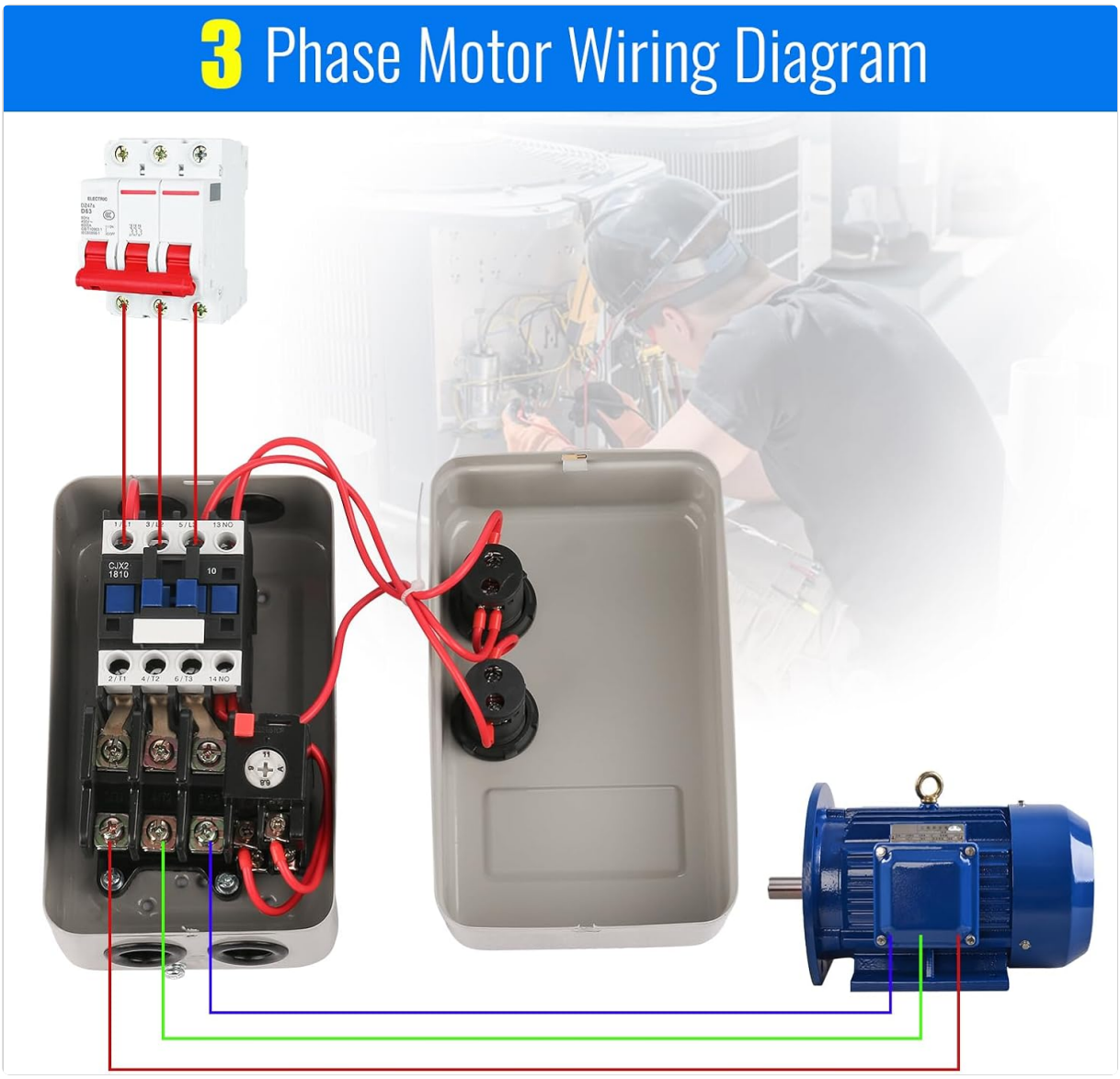

Figure 4.1: Example wiring diagram for a 3-phase motor connection.

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Video 4.2: Demonstration of the internal components and wiring points of the Magnetic Electric Motor Starter, including options for 220V and 380V models.

Refer to the included manual for detailed wiring diagrams specific to your model and desired phase configuration.

5. Operating Instructions

Once the motor starter is correctly installed and wired, operating it is straightforward:

- **To Start the Motor:** Press the **green** button. The motor should begin operation.
- **To Stop the Motor:** Press the **red** button. The motor should cease operation.

In case of an overload or fault, the built-in protection will automatically trip, stopping the motor. Investigate the cause of the trip before attempting to restart.

6. Maintenance

Regular maintenance ensures the longevity and safe operation of your motor starter:

- **Cleaning:** Periodically clean the exterior of the enclosure to prevent dust accumulation. The steel enclosure provides protection from workshop dust.
- **Inspection:** Regularly inspect all wiring connections for tightness and signs of wear or corrosion.
- **Functionality Check:** Test the start and stop buttons periodically to ensure proper operation.
- **Overload Reset:** If the overload protection trips, identify and resolve the issue before resetting the device. Consult a qualified electrician if the cause is unclear.

7. Troubleshooting

If you encounter issues with your motor starter, consider the following common troubleshooting steps:

- **Motor Does Not Start:**
  - Check if the main power supply is connected and active.
  - Verify all wiring connections are secure and correct according to the diagram.
  - Ensure the overload protection has not tripped. If it has, reset it after identifying and resolving the cause.
  - Confirm the control circuit voltage is within the specified range (220-240V).
- **Motor Stops Unexpectedly:**
  - The overload protection may have tripped due to excessive current draw. Check the motor for mechanical issues or blockages.
  - Inspect for loose connections or damaged wiring.
  - Ensure the working circuit voltage is stable (220V/380V).
- **Buttons Not Responding:**
  - Check for physical obstructions or damage to the buttons.
  - Verify the internal wiring to the buttons is intact.

For complex issues or if troubleshooting steps do not resolve the problem, contact customer support or a qualified electrician.

8. Support

For any questions, technical assistance, or support regarding your AKZYTUE Magnetic Electric Motor Starter, please contact our customer service team. We are committed to resolving your inquiries within 24 hours.
Contact Information: Please refer to the contact details provided with your purchase or on the official AKZYTUE website.