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› BAOMAIN 32A 2-Phase 3-Position Cam Rotary Changeover Switch Instruction Manual

## BAOMAIN SZW26-32/D202.2D

# BAOMAIN 32A 2-Phase 3-Position Cam Rotary Changeover Switch

Model: SZW26-32/D202.2D

## 1. INTRODUCTION

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This manual provides instructions for the installation, operation, and maintenance of the BAOMAIN 32A 2-Phase 3-Position Cam Rotary Changeover Switch. This switch is designed for electrical wiring in power switch applications, including start-up, reversing, and speed control for squirrel cage type asynchronous motors, and can also be used for control circuit conversions. It features a durable plastic external material, 3 positions (1-0-2), and 8 screw terminals.

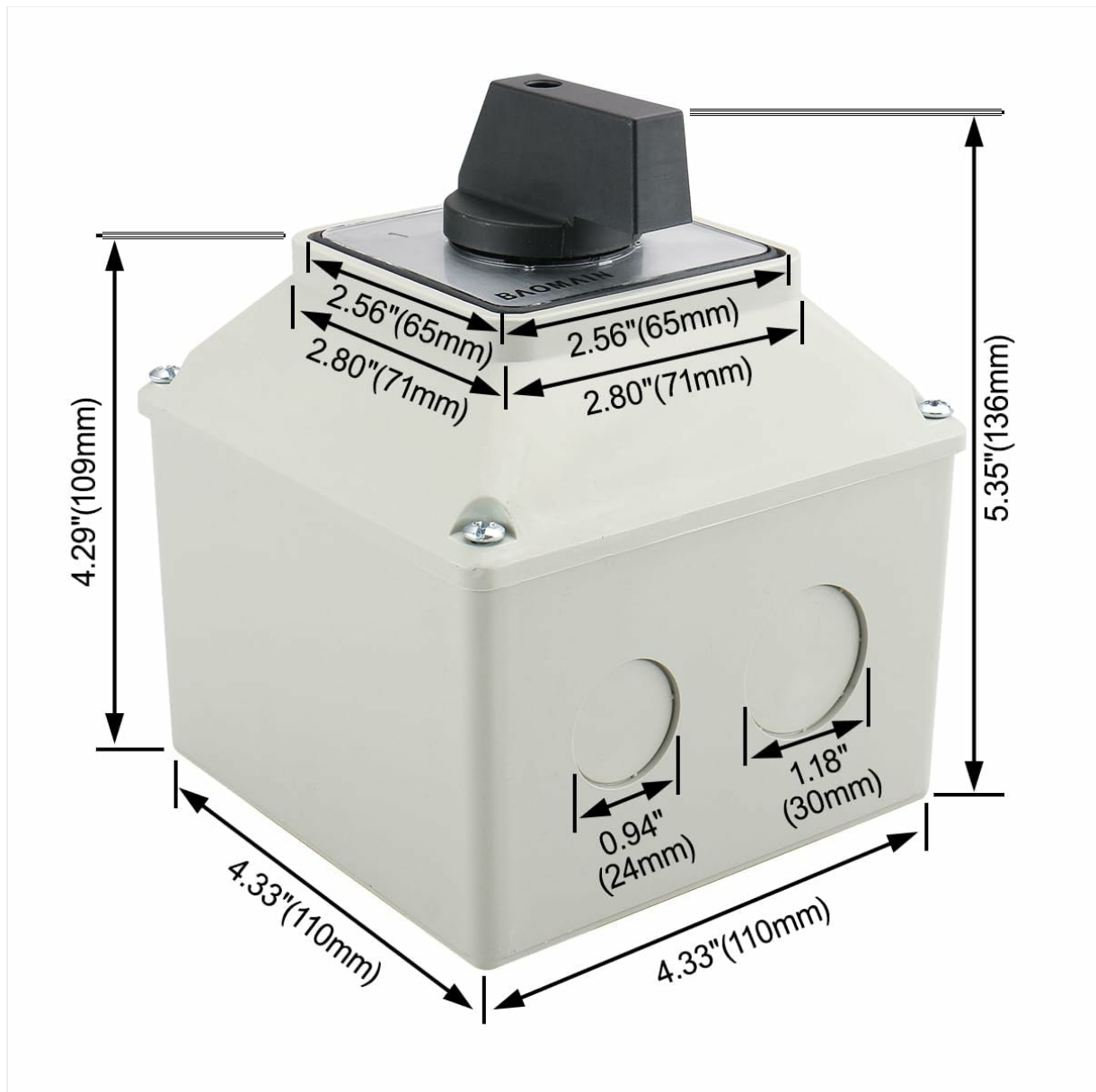


Figure 1.1: Overall view of the BAOMAIN 32A 2-Phase 3-Position Cam Rotary Changeover Switch.

## 2. SAFETY INFORMATION

- **Electrical Hazard:** Installation and maintenance should only be performed by qualified personnel. Ensure power is disconnected before any work is done on the switch.
- **Proper Wiring:** Follow all local and national electrical codes. Incorrect wiring can lead to equipment damage, injury, or fire.
- **Overcurrent Protection:** Ensure appropriate overcurrent protection devices are installed upstream of the switch.
- **Environmental Conditions:** Do not expose the switch to conditions beyond its specified operating environment (e.g., excessive moisture, extreme temperatures).
- **Secure Mounting:** Ensure the switch is securely mounted to prevent accidental dislodgement.

## 3. PRODUCT FEATURES

- Three switch positions: **1-0-2** (Maintained action type)
- Two rotors with **8 screw terminals**
- Current Rating: **30 Amp**

- Operating Voltage: **660 Volts**
- Material: Metal, Plastic (with plastic external enclosure)
- International Protection Rating: **IP65**

#### 4. PACKAGE CONTENTS

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The package includes the following items:

- 1 x BAOMAIN Changeover Switch with Enclosure
- Mounting Screws and Accessories (as shown in Figure 4.1)



Figure 4.1: Included components and accessories.

#### 5. DIMENSIONS

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Refer to Figure 5.1 for the physical dimensions of the changeover switch with its enclosure.



Figure 5.1: Product dimensions.

## 6. INSTALLATION

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1. **Disconnect Power:** Before beginning installation, ensure all power to the circuit is completely disconnected at the main breaker or fuse box. Verify with a voltage tester.
2. **Mount the Enclosure:** Select a suitable, secure location for mounting the switch enclosure. Use the provided mounting screws and hardware to firmly attach the enclosure to a stable surface.
3. **Prepare Wiring:** Route the necessary electrical wires into the enclosure through the designated entry points. Ensure proper wire gauge for the 30 Amp current rating.
4. **Connect Terminals:** Refer to the wiring diagram in Section 7. Connect the wires to the appropriate screw terminals (1-8) according to your application's requirements. Ensure all connections are tight and secure.
5. **Secure Enclosure:** Once wiring is complete and verified, securely close the enclosure to maintain its IP65 rating.
6. **Restore Power:** Carefully restore power to the circuit and test the switch operation.

## 7. WIRING DIAGRAM AND OPERATION

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The BAOMAIN changeover switch features three positions (1-0-2) and 8 terminals. The diagram below illustrates

the terminal connections for each position.



Rotation Angle \ Position	-45°	0°	45°
1-2	X		
3-4			X
5-6	X		
7-8			X

*\*Only use two Wires when connecting or working.*

## 8 Terminals For 3 Positions

### Positions 0

All Terminals are disconnected

### Positions 1

1-2, 5-6 Terminals Connected and Working

### Positions 2

3-4, 7-8 Terminals Connected and Working

Figure 7.1: Terminal connection diagram for 3 positions.

### Operating Positions:

- **Position 0 (OFF):** In this central position, all terminals are disconnected. This is the neutral or off state.
- **Position 1:** When the rotary handle is turned to position '1', terminals 1-2 and 5-6 are connected and active.
- **Position 2:** When the rotary handle is turned to position '2', terminals 3-4 and 7-8 are connected and active.

**Note:** Only use two wires when connecting or working with the switch, as indicated in the diagram.

## 8. MAINTENANCE

- **Regular Inspection:** Periodically inspect the switch for any signs of physical damage, wear, or loose connections.
- **Cleaning:** Keep the switch and enclosure clean and free from dust and debris. Use a dry, soft cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Terminal Tightness:** Over time, terminal screws may loosen. Periodically check and tighten all terminal connections to ensure good electrical contact.
- **Enclosure Integrity:** Ensure the enclosure remains sealed to maintain its IP65 rating, protecting against

dust and water ingress.

## 9. TROUBLESHOOTING

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- **No Power to Load:**

- Check the main power supply to the switch.
- Ensure the switch is in the correct operating position (1 or 2).
- Verify all terminal connections are secure and properly wired according to the diagram.
- Check for tripped circuit breakers or blown fuses upstream.

- **Switch Feels Stiff or Loose:**

- A stiff switch might indicate internal debris or damage. Do not force it.
- A loose switch handle may indicate internal component wear or damage.
- If either occurs, discontinue use and inspect the switch. Replacement may be necessary.

- **Overheating:**

- Overheating can be caused by loose connections, excessive current, or an undersized switch for the load.
- Immediately disconnect power and investigate the cause. Ensure the load current does not exceed the switch's 30 Amp rating.

## 10. SPECIFICATIONS

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Specification	Value
Model Number	SZW26-32/D202.2D
Brand	BAOMAIN
Operation Mode	1-0-2 (Maintained)
Current Rating	30 Amps
Operating Voltage	660 Volts
Number of Positions	3
Number of Terminals	8 (Screw Type)
Contact Type	Normally Open
Switch Type	Rotary
Material	Metal, Plastic
Contact Material	Silver
International Protection Rating	IP65
Product Dimensions (L x W x H)	11 x 11 x 13 cm
Weight	508 g

## 11. WARRANTY AND SUPPORT

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Warranty information for this product is not available in the provided data. For specific warranty details or technical support, please refer to the product packaging or contact BAOMAIN customer service directly through their official channels.