DEWIN LW26-63/2

DEWIN LW26-63/2 3-Position 63A Rotary Cam Changeover Switch User Manual

1. Introduction

This manual provides detailed instructions for the DEWIN LW26-63/2 3-Position 63A Rotary Cam Changeover Switch. This universal switch is designed for various industrial applications, including factories, workshops, industrial production equipment, and electrical lighting systems. It allows for reliable switching between three distinct positions (0, 1, 2) to control electrical circuits.

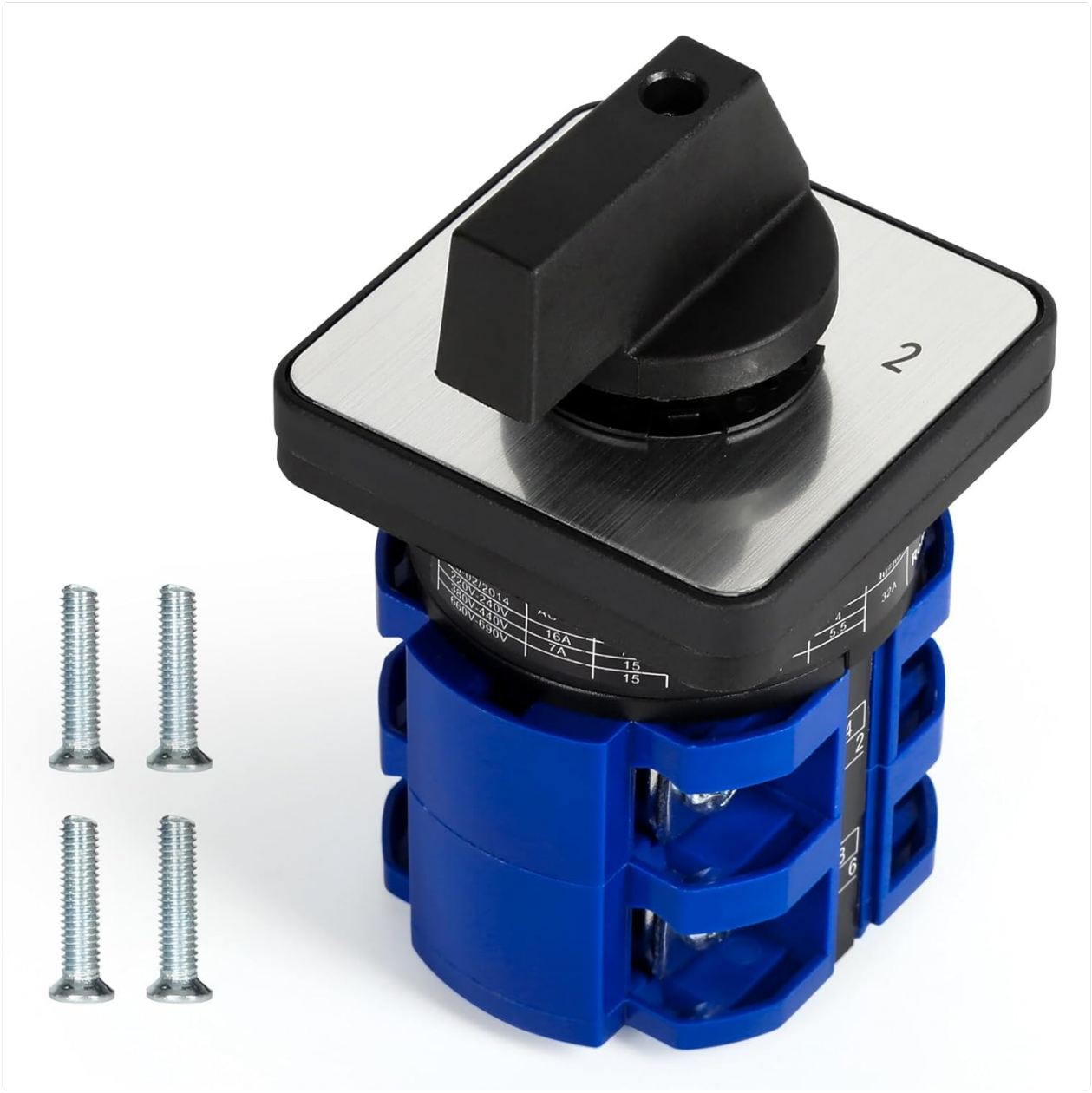

Image 1: DEWIN LW26-63/2 Rotary Cam Changeover Switch and included screws.

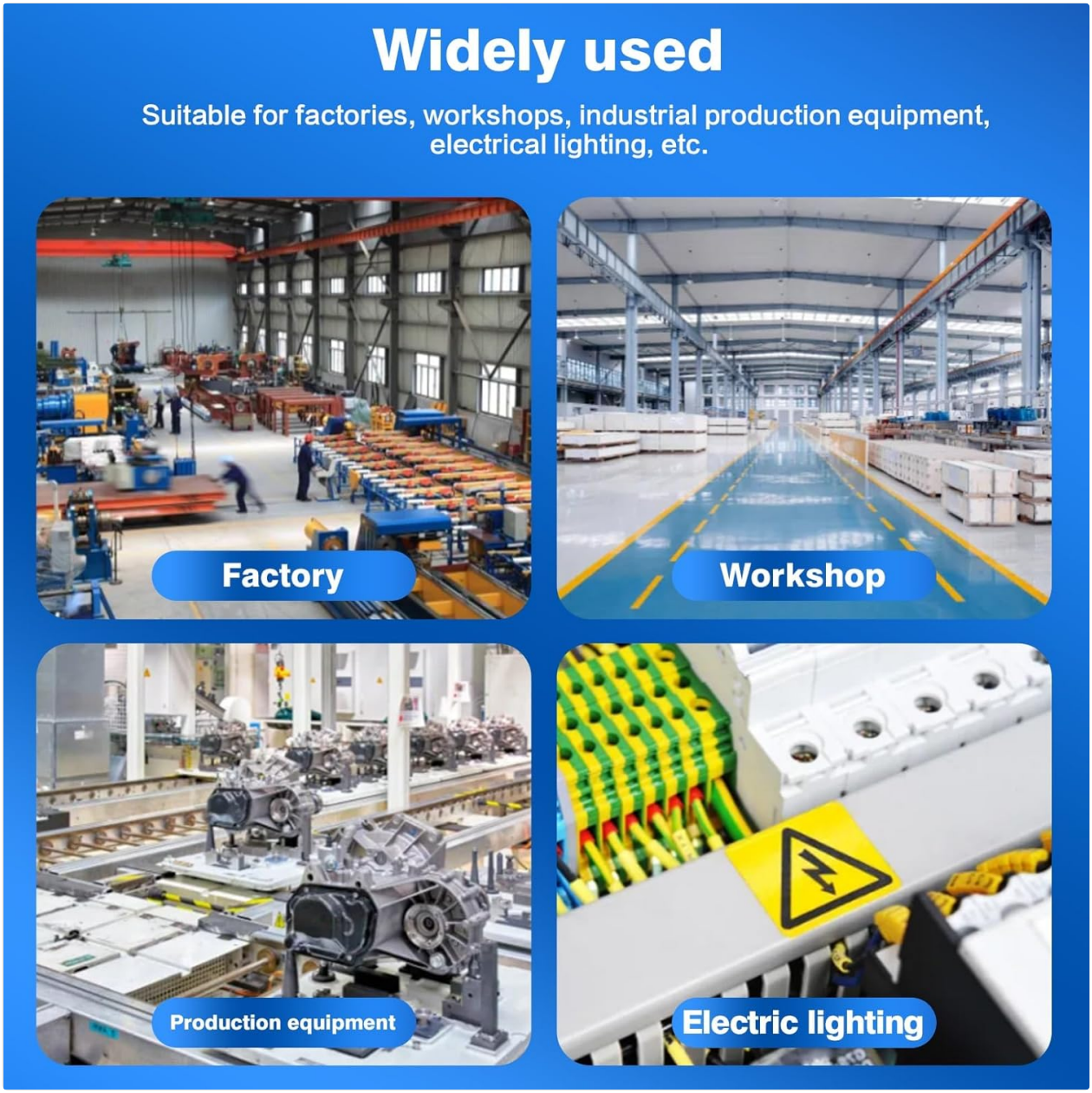

Image 2: The DEWIN rotary switch is suitable for various industrial applications such as factories, workshops, production equipment, and electrical lighting.

2. Safety Information

Please read and understand all safety instructions before installing, operating, or maintaining this product. Failure to follow these instructions may result in electric shock, fire, or serious injury.

- **Qualified Personnel:** Installation and wiring must be performed by qualified electricians in accordance with all local and national electrical codes.
- **Power Disconnection:** Always disconnect power to the circuit before working on the switch or its connections. Verify that power is off using a suitable voltage tester.
- **Proper Wiring:** Ensure all connections are secure and correctly wired according to the circuit diagram. Loose connections can cause overheating and fire.
- **Environmental Conditions:** Do not expose the switch to moisture, extreme temperatures, or corrosive environments beyond its specified operating conditions.
- **Overcurrent Protection:** Ensure appropriate overcurrent protection (e.g., circuit breakers or fuses) is installed upstream of the switch.

3. Product Features

- **3-Position Operation:** Provides three distinct switching positions (0, 1, 2) for versatile control.
- **High Current Rating:** Designed for a heating current of 63A, suitable for demanding electrical loads.
- **Durable Construction:** Features a flame-retardant PC (Polycarbonate) housing, offering excellent insulation performance and high-temperature resistance, ensuring longevity and safety.

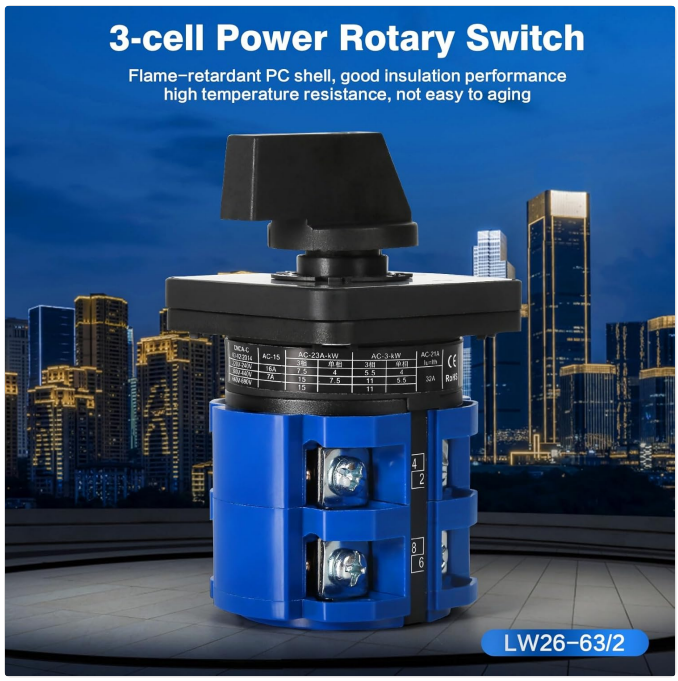

Image 3: The switch features a flame-retardant PC shell for enhanced safety and durability.

- **Superior Conductivity:** Connecting parts are made from thick galvanized copper, ensuring good electrical conductivity and minimizing resistance.

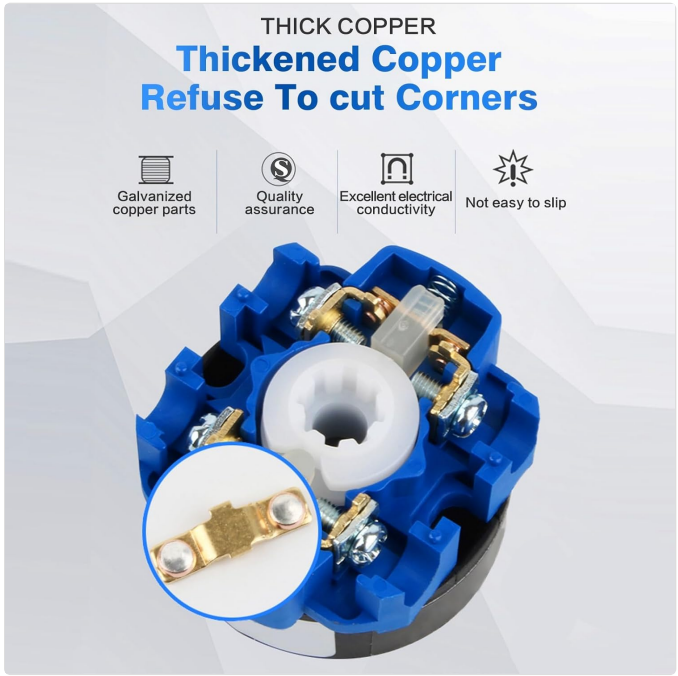

Image 4: Thickened copper components ensure excellent electrical conductivity and reliability.

- **Silver Alloy Contacts:** Utilizes silver alloy contacts known for low specific resistance, excellent conductivity, arc suppression, high-temperature resistance, and wear resistance.

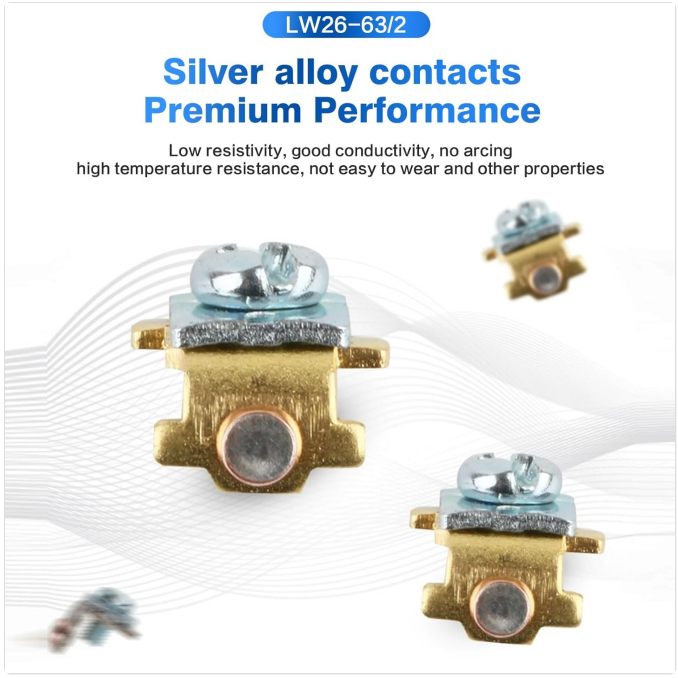

Image 5: Silver alloy contacts provide superior electrical performance and durability.

- **Dust-Proof Design:** A closed design prevents dust ingress, maintaining a clean internal environment and ensuring reliable operation.

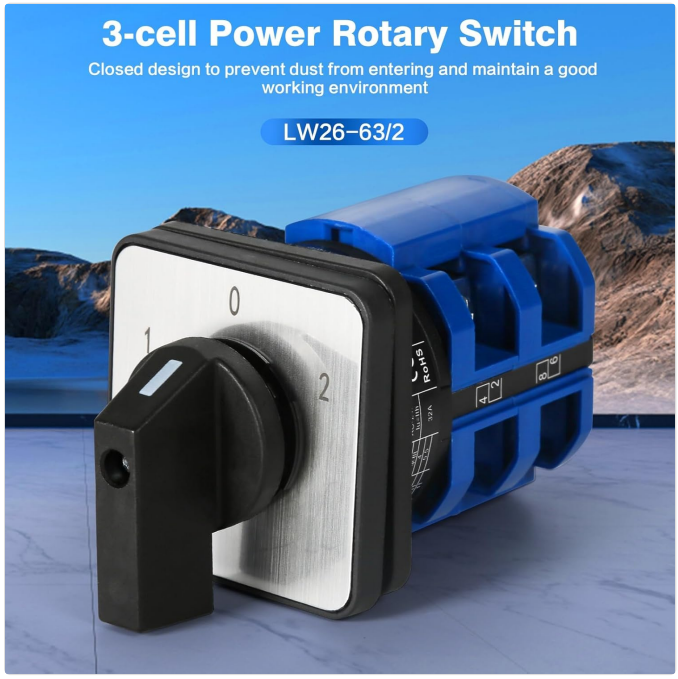

Image 6: The closed design protects internal components from dust, ensuring consistent performance.

- **8 Terminals:** Equipped with 8 wiring terminals across 2 sections for comprehensive circuit control.
- **45° Rotation Angle:** The switch handle rotates with a precise 45° angle between positions.

4. Specifications

Parameter	Value
Product Model	LW26-63/2
Material	PC + Copper

Parameter	Value
Number of Positions	3 positions (0/1/2)
Number of Wiring Sections	2 sections (8 wiring holes)
Heating Current	63 A
Rated Voltage	AC 440 V
Insulation Voltage	AC 690 V
Rated Frequency	50 Hz
Switch Type	Positioning Type
Switch Rotation Angle	45°
Dimensions (approx.)	64 x 64 x 115 mm
International Protection Rating	IP5X

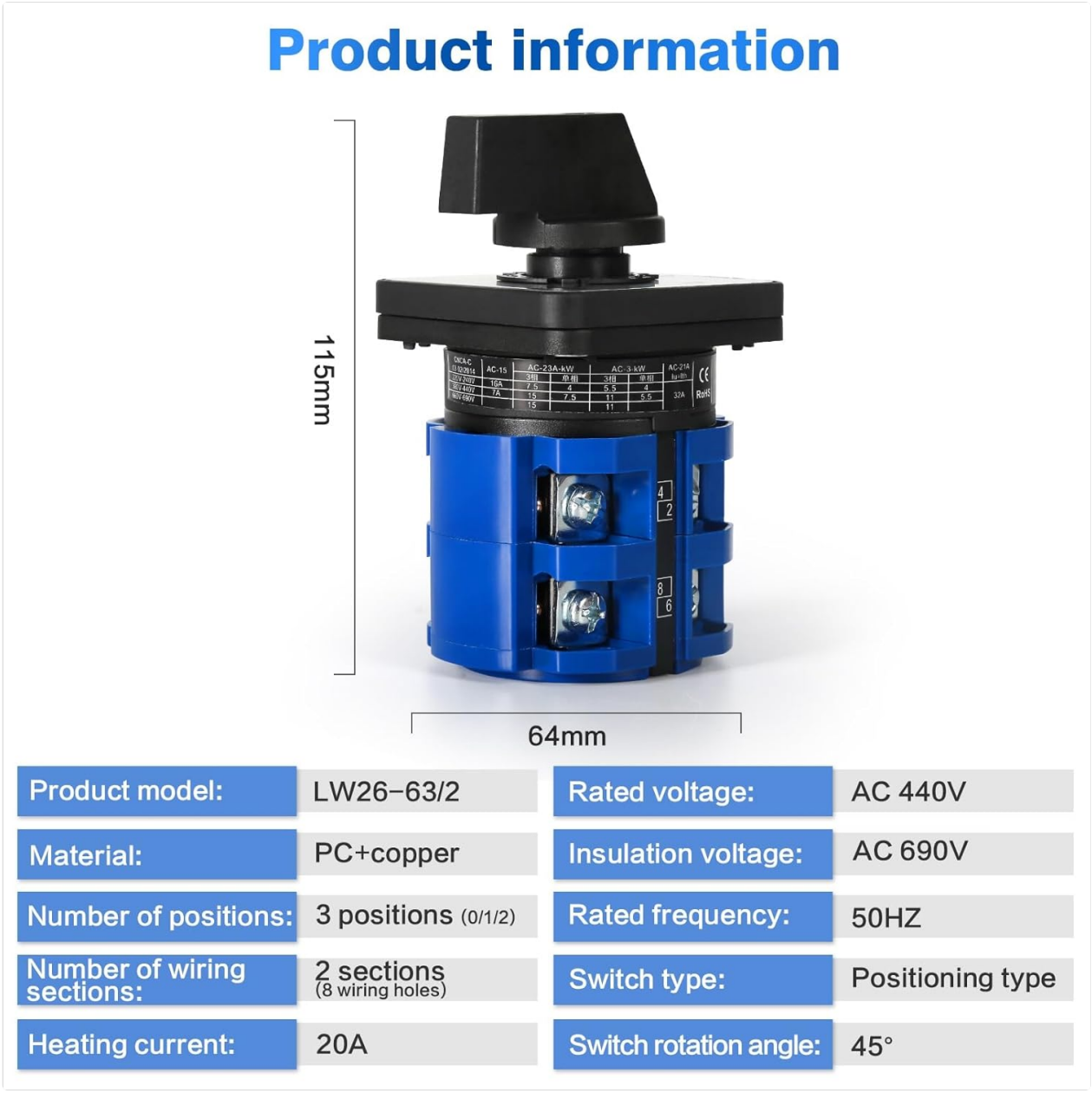

Image 7: Detailed product information and dimensions of the DEWIN LW26-63/2 switch.

5. Package Contents

The following items are included in the package:

- 1 x DEWIN LW26-63/2 Universal Transfer Switch
- 4 x Mounting Screws

6. Installation and Setup

Proper installation is crucial for the safe and reliable operation of the switch. Refer to the diagram below for component identification and mounting points.

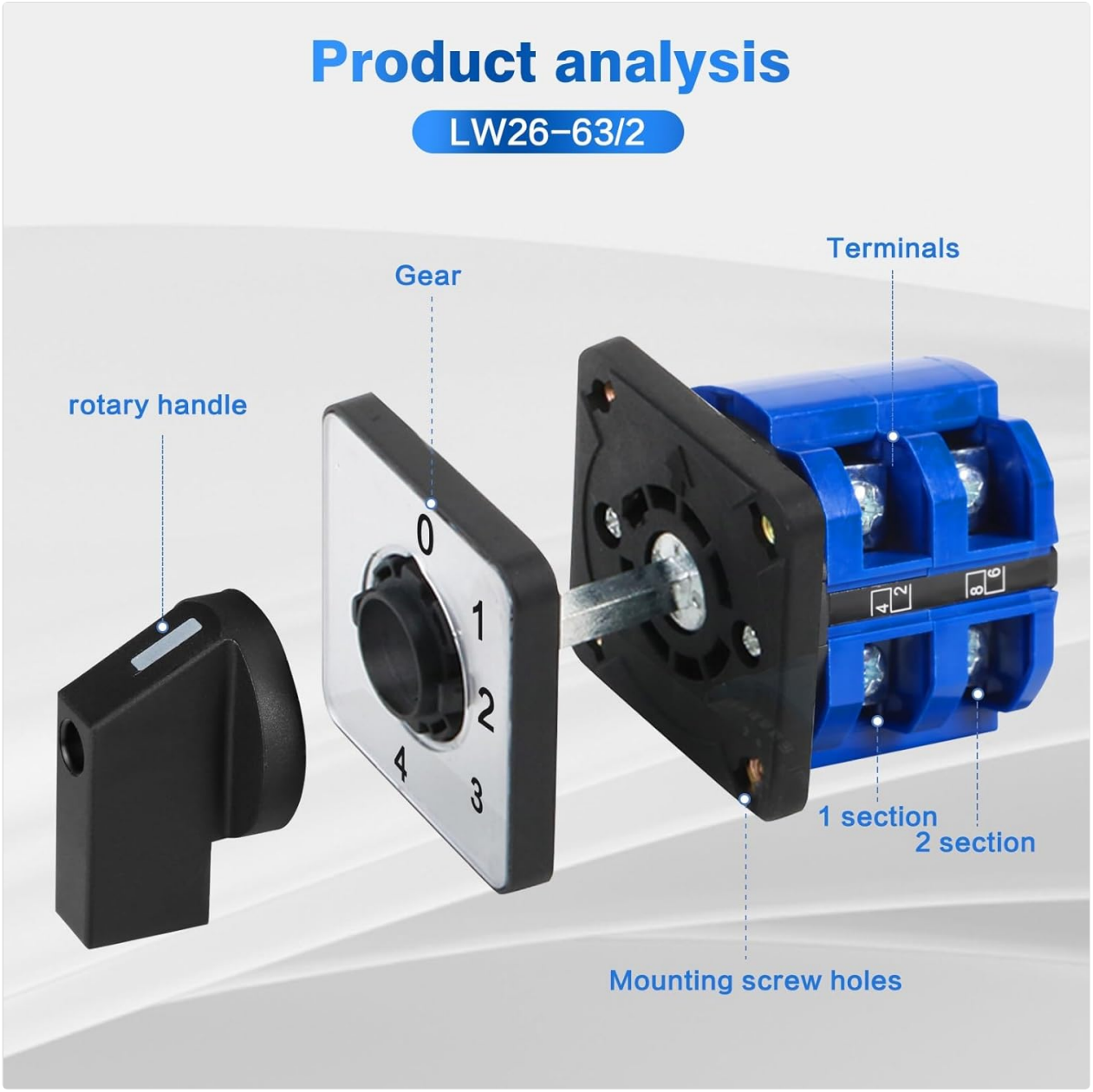

Image 8: Exploded view showing the rotary handle, gear, terminals, and mounting screw holes.

6.1 Mounting

1. **Select Location:** Choose a suitable mounting location that is stable, free from excessive vibration, and within the specified environmental conditions (IP5X rating for dust protection).
2. **Prepare Surface:** Ensure the mounting surface is clean and flat.
3. **Secure Switch:** Use the four provided screws to securely fasten the switch to the mounting surface through the designated mounting screw holes. Do not overtighten.

6.2 Wiring

The switch features 8 terminals arranged in 2 sections. Ensure all wiring is performed by a qualified electrician.

1. **Disconnect Power:** Before beginning any wiring, ensure that all power to the circuit is completely disconnected and locked out.
2. **Identify Terminals:** Refer to the wiring diagram specific to your application and the markings on the switch terminals (e.g., 1, 2, 3, 4, 5, 6, 7, 8) to identify the correct connection points.
3. **Connect Wires:** Connect the appropriate electrical wires to the terminals. Ensure that the wire gauge is suitable for the 63A heating current and the rated voltage of AC 440V.

4. **Secure Connections:** Tighten all terminal screws firmly to ensure good electrical contact and prevent loose connections, which can lead to overheating or arcing.
5. **Verify Wiring:** Double-check all wiring against your circuit diagram before restoring power.

7. Operation

The DEWIN LW26-63/2 switch provides three operational positions: 0, 1, and 2. The rotary handle allows for manual selection between these positions.

1. **Position 0 (OFF):** This is typically the neutral or off position, where no circuit is engaged.
2. **Position 1:** Rotate the handle 45° clockwise from position 0 to engage the circuit associated with position 1.
3. **Position 2:** Rotate the handle another 45° clockwise from position 1 (or 90° from position 0) to engage the circuit associated with position 2.
4. **Switching:** To change positions, firmly grasp the rotary handle and turn it to the desired position. The switch will click into place at each detent.

8. Maintenance

Regular maintenance helps ensure the longevity and reliable performance of your DEWIN rotary cam switch.

- **Power Disconnection:** Always disconnect power before performing any maintenance.
- **Cleaning:** Periodically clean the exterior of the switch with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Inspect Connections:** Annually inspect all wiring connections for tightness. Retighten if necessary. Check for any signs of corrosion or damage to the wires or terminals.
- **Check for Damage:** Visually inspect the switch housing for any cracks, discoloration, or other signs of physical damage. Replace the switch if significant damage is found.
- **Operational Check:** Periodically test the switch operation by rotating the handle through all positions to ensure smooth movement and proper engagement.

9. Troubleshooting

If you encounter issues with your DEWIN LW26-63/2 switch, refer to the following troubleshooting guide:

Problem	Possible Cause	Solution
Switch does not operate or feels stiff.	Internal obstruction or damage.	Disconnect power. Inspect for visible obstructions. If damaged, replace the switch.
No power to the connected circuit.	• Incorrect wiring. • Loose connections. • Upstream power issue (e.g., tripped breaker).	• Disconnect power. Verify wiring against diagram. • Check and tighten all terminal connections. • Check upstream power supply and circuit breakers.

Problem	Possible Cause	Solution
Switch overheats during operation.	• Overload on the circuit. • Loose or corroded connections. • Damaged internal components.	• Immediately disconnect power. Reduce load on the circuit. • Check and tighten all connections. Clean any corrosion. • If problem persists, replace the switch.

10. Warranty and Support

DEWIN products are manufactured to high-quality standards. For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact your vendor. Keep your purchase receipt as proof of purchase.