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ETURBEV 3P_690V 20A

ETURBEV Waterproof AC Isolator Switch 3P_690V 20A User Manual

Model: 3P_690V 20A

1. Introduction

This manual provides essential information for the safe and effective installation, operation, and maintenance of your ETURBEV Waterproof AC Isolator Switch. Please read this manual thoroughly before installation and use, and retain it for future reference. This device is designed for use in single-phase or three-phase AC systems, providing reliable isolation for electrical circuits.

2. Safety Information

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel.

- Always disconnect power before installing, servicing, or performing any maintenance on the isolator switch.
- Ensure all local and national electrical codes and regulations are followed during installation.
- Verify the voltage and current ratings of the isolator switch match the requirements of your application.
- Do not operate the switch if it appears damaged or faulty.
- The IP66 rating ensures protection against dust and powerful water jets; however, avoid submerging the device.

3. Product Features

- Rated insulation voltage: 690V.
- Current ratings available: 20A, 32A, 40A, 63A, 80A (this model is 20A).
- IP66 rated enclosure for dust and water protection, featuring a safety seal and anti-ultraviolet materials.
- Rotary operator (knob) with three lock positions to prevent accidental operation.
- Compatible with various cable connectors: M25, M20, M16, and M12.
- Spacious internal wiring area for convenient connection.
- Effective heat dissipation, suitable for operation in temperatures from -25°C to 70°C.

- High contrast color design for easy visibility.

4. Specifications

Specification	Value
Brand	ETURBEV
Model	3P_690V 20A
Rated Insulation Voltage	690V
Rated Current	20A
Poles	3P
International Protection Rating	IP66
Actuator Type	Rotary
Number of Positions	3 (OFF, ON, Locked OFF)
Operating Temperature	-25°C to 70°C
Package Dimensions	1.18 x 0.79 x 0.39 inches
Item Weight	1.76 ounces

Note: Dimensions and weight are approximate and may vary slightly.

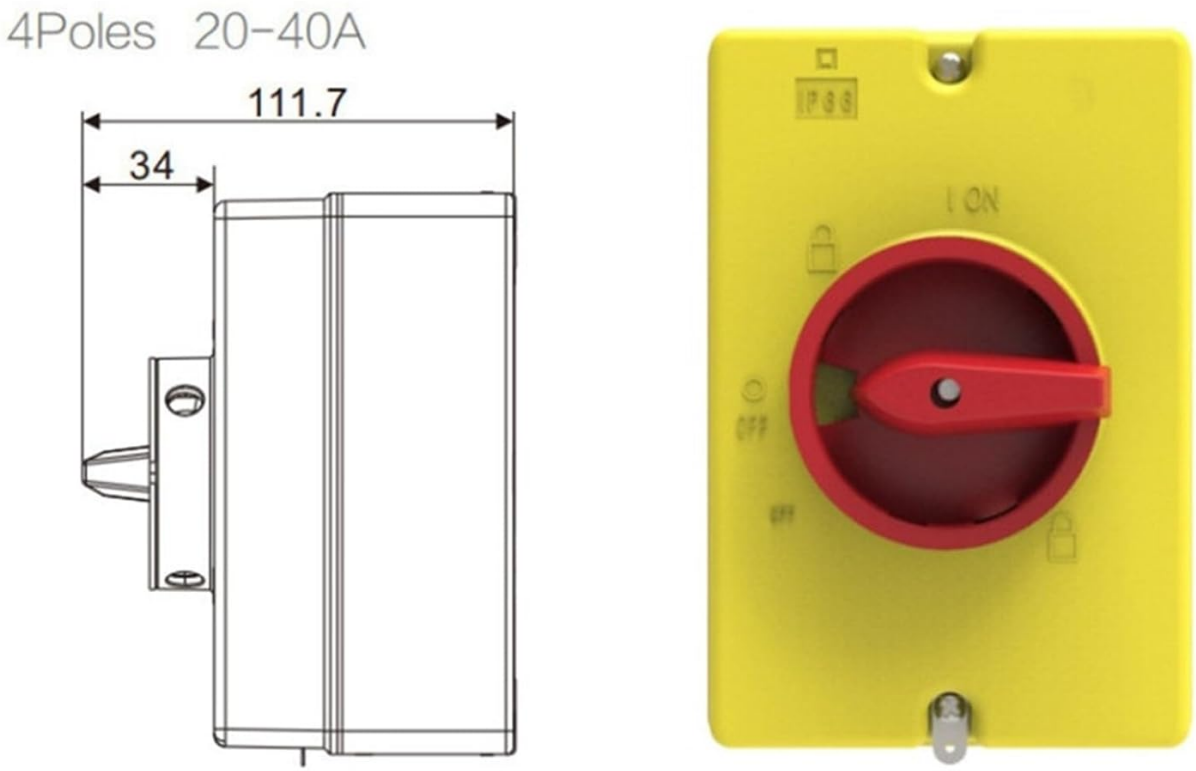

Figure 1: Dimensional drawing for 3-Pole isolator switches (63-80A variant shown, general dimensions apply). This image illustrates the physical measurements of the 3-pole isolator switch, including its length and width, which are crucial for planning installation space.

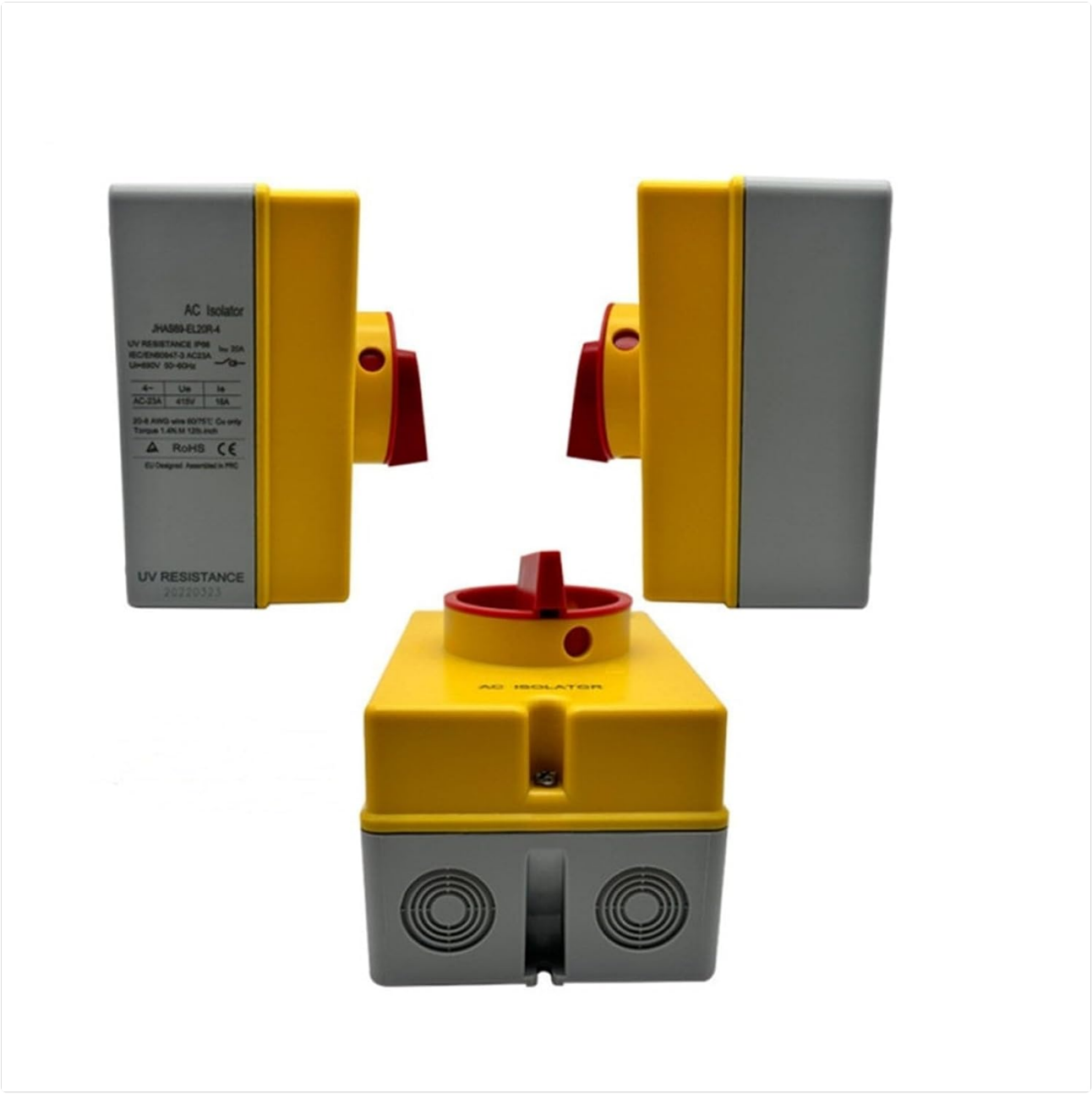

Figure 2: Dimensional drawing for 4-Pole isolator switches (20-40A variant shown). This image provides the physical dimensions for the 4-pole isolator switch, indicating its size for installation purposes.

5. Setup and Installation

1. **Mounting:** Select a suitable, flat surface for mounting the isolator switch. Ensure the location is easily accessible for operation and maintenance, and protected from direct mechanical impact. Use appropriate fasteners to secure the enclosure through the designated mounting holes.
2. **Cable Entry:** Prepare the cable entries using suitable glands (M25, M20, M16, or M12 depending on cable size) to maintain the IP66 rating. Ensure a tight seal to prevent water and dust ingress.
3. **Wiring:**
    - Open the enclosure carefully.
    - Connect the incoming AC power supply wires to the designated input terminals.
    - Connect the outgoing load wires to the designated output terminals.
    - Ensure all connections are secure and tightened to the recommended torque specifications to prevent loose connections and overheating.
    - Verify correct polarity and phase sequence for multi-phase systems.

- Ensure proper grounding is established according to local electrical codes.

4. **Close Enclosure:** After wiring, ensure all internal components are clear of obstructions and securely close the enclosure, tightening all screws to maintain the IP66 seal.
5. **Final Check:** Before restoring power, perform a final visual inspection to confirm all connections are correct and secure, and the enclosure is properly sealed.



Figure 3: Internal view of the AC Isolator Switch. This image shows the internal components and wiring terminals, illustrating the ample space available for making electrical connections within the enclosure.

6. Operating Instructions

The ETURBEV AC Isolator Switch features a rotary handle for simple and clear operation. The handle has distinct positions for ON, OFF, and a lockable OFF position.

1. **To Turn ON:** Rotate the handle clockwise to the "ON" position. This connects the electrical circuit.
2. **To Turn OFF:** Rotate the handle counter-clockwise to the "OFF" position. This isolates the electrical circuit.
3. **Locking the Switch (OFF Position):** When the handle is in the "OFF" position, it can be locked using a

padlock (not supplied) through the designated hole. This prevents unauthorized operation and ensures safety during maintenance or repair work.



Figure 4: Front view of two ETURBEV AC Isolator Switches. This image displays the prominent yellow enclosure and the red rotary handle, clearly indicating the "OFF" position and the "AC ISOLATOR" label.

7. Maintenance

Regular maintenance ensures the longevity and reliable operation of your isolator switch.

- **Visual Inspection:** Periodically inspect the switch for any signs of physical damage, corrosion, or wear. Check the integrity of the enclosure and cable glands.
- **Cleaning:** Clean the exterior of the switch with a damp cloth. Do not use abrasive cleaners or solvents that could damage the enclosure material or seals. Ensure the switch is OFF and power is disconnected before cleaning.
- **Terminal Check:** Annually, or as required, disconnect power and open the enclosure to check that all wiring terminals are tight and free from corrosion. Retighten if necessary.
- **Seal Integrity:** Inspect the sealing strip for any cracks or degradation. Replace if necessary to maintain the

IP66 rating.

8. Troubleshooting

If you encounter issues with your ETURBEV AC Isolator Switch, refer to the table below for common problems and solutions.

Problem	Possible Cause	Solution
No power to load when switch is ON	◦ Incoming power supply issue ◦ Loose wiring connections ◦ Internal switch fault	◦ Check main circuit breaker/fuse. ◦ Verify all wiring connections are secure (power OFF). ◦ Contact qualified electrician for inspection/replacement.
Switch handle is stiff or difficult to turn	◦ Accumulation of dirt/debris ◦ Internal mechanical issue	◦ Clean the handle area. ◦ Do not force the handle. Contact support if issue persists.
Water/dust ingress into enclosure	◦ Improperly tightened cable glands ◦ Damaged enclosure seal ◦ Enclosure not properly closed	◦ Ensure cable glands are tightened correctly. ◦ Inspect and replace damaged seals. ◦ Verify enclosure screws are fully tightened.

If the problem persists after attempting these solutions, please contact customer support.

9. Warranty and Support

ETURBEV products are manufactured to high-quality standards. This product comes with a standard manufacturer's warranty against defects in materials and workmanship. Please refer to your purchase documentation for specific warranty terms and duration.
For technical support, warranty claims, or any questions regarding your ETURBEV AC Isolator Switch, please contact our customer service department through the retailer where the product was purchased or visit the official ETURBEV website for contact information.
When contacting support, please have your product model number (3P_690V 20A) and purchase date available.

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