FTC BPS-160/01

FTC 160A 4-Pole Bypass Switch User Manual

MODEL: BPS-160/01

1. Product Overview

The FTC 160 Amp, 4-pole, 415V AC bypass switch (Model BPS-160/01) is designed for robust and reliable electrical applications. Manufactured with ETP grade copper, it features a quick make, quick break mechanism and is front handle operated for ease of use. This open execution switch is compact in size and suitable for various industrial and scientific environments requiring a dependable ON-OFF switching solution.



An image showing the FTC 160 Amp, 4-pole bypass switch. The switch features a robust white housing, a black front-operated handle, and multiple copper terminals for input and output connections. The label on the top indicates 'ONLOAD BY PASS SWITCH 160A-4POLE' and manufacturer details.

2. Safety Information

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

- Always disconnect power before installing, servicing, or cleaning the switch.
- Ensure proper grounding to prevent electrical shock.
- Verify voltage and current ratings match the application requirements.
- Do not operate the switch if it appears damaged or improperly installed.
- Wear appropriate personal protective equipment (PPE) during installation and maintenance.

3. Setup and Installation

Follow these steps for proper installation of the FTC bypass switch:

1. **Mounting:** Securely mount the switch in a suitable enclosure or panel using appropriate fasteners. Ensure adequate clearance for operation of the front handle and access to terminals.
2. **Wiring Connections:** Connect the input and output cables to the designated terminals. The switch is a 4-pole device, ensure all four poles are correctly wired according to the circuit diagram. The terminals are designed for robust copper cable connections. Refer to the label on the switch for 'INPUT TO SERV' and 'OUTPUT' indications.
3. **Torque Specifications:** Ensure all terminal screws and mounting bolts are tightened to the manufacturer's recommended torque specifications to prevent loose connections and overheating.
4. **Verification:** After wiring, visually inspect all connections for proper seating and insulation.

4. Operating Instructions

The FTC bypass switch is designed for simple ON-OFF operation via its front handle.

- **ON Position:** To close the circuit and allow current flow, move the front handle to the 'ON' position. The quick make mechanism ensures rapid contact closure, minimizing arcing.
- **OFF Position:** To open the circuit and interrupt current flow, move the front handle to the 'OFF' position. The quick break mechanism ensures rapid contact separation, minimizing arcing.
- **Mechanism:** The quick make quick break mechanism ensures that the contacts close and open rapidly, regardless of the speed at which the handle is operated. This design feature helps to reduce wear on the contacts and enhance safety.

5. Maintenance

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

- **Cleaning:** Periodically clean the exterior of the switch with a dry, lint-free cloth. Do not use abrasive cleaners or solvents. Ensure no dust or debris accumulates around the terminals or moving parts.
- **Inspection:** Annually inspect the switch for any signs of wear, damage, or overheating (discoloration, melted insulation). Check all terminal connections for tightness.
- **Contact Condition:** While internal contact inspection requires professional intervention, ensure the switch operates smoothly without excessive force.
- **Material:** The switch is made of ETP grade copper, known for its excellent conductivity and durability. Ensure connections are always made to clean copper surfaces.

6. Troubleshooting

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
Switch does not operate smoothly.	Accumulation of dust/debris; internal mechanical issue.	Clean the exterior. If issue persists, contact qualified service personnel.
Overheating at terminals.	Loose connections; undersized wiring; excessive load.	Disconnect power and tighten all terminal screws. Verify wiring gauge and load.

Problem	Possible Cause	Solution
No power output.	Switch in OFF position; input power issue; internal fault.	Ensure switch is in ON position. Check input power supply. If still no output, contact service.

7. Specifications

Specification	Value
Model Number	BPS-160/01
Brand	FTC
Current Rating	160 Amps
Voltage Rating	415V AC
Number of Poles	4
Operation Mode	ON-OFF
Mechanism	Quick Make Quick Break
Operation Type	Front Handle Operated
Material	ETP Grade Copper
Circuit Type	1-way
Item Weight	7 kg 730 g
Package Dimensions	33 x 33 x 26 cm

8. Warranty and Support

For warranty information, technical support, or service inquiries, please contact FTC SWITCHGEAR PVT LTD directly.

Manufacturer: FTC SWITCHGEAR PVT LTD

Website: WWW.FTCSWITCHGEAR.COM

Phone: +91-8750112113

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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