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Schneider Electric D322N

User Manual: Square D by Schneider Electric D322N Safety Switch

60-Amp 240-Volt Three-Pole Indoor General Duty Fusible Safety Switch with Neutral

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Square D by Schneider Electric D322N General Duty Fusible Safety Switch. This device is designed for residential and commercial applications, primarily for controlling power to lighting, air conditioning units, and various appliances. It is suitable for use as service entrance equipment when properly equipped with a service grounding kit.

Please read this manual thoroughly before attempting any installation or operation. Retain this manual for future reference.

2. SAFETY INFORMATION

WARNING: Risk of electric shock, explosion, or arc flash. This equipment must be installed and serviced by qualified electrical personnel only. Failure to follow these instructions will result in death or serious injury.

- Always de-energize the power supply before working on or around the safety switch. Use a voltage tester to confirm that power is off.
- Follow all local and national electrical codes and standards.
- Use appropriate personal protective equipment (PPE) when working with electrical equipment.
- Ensure proper grounding of the safety switch enclosure.
- Do not operate the switch with the enclosure door open unless specifically instructed by qualified personnel and proper safety procedures are in place.
- Replace fuses with those of the correct type and rating only.

3. PRODUCT FEATURES

The Square D by Schneider Electric D322N safety switch offers robust performance and reliability for indoor electrical applications.

- **Configuration:** 4-wire design with 3 blades and fuse holders, and 1 neutral.
- **Voltage Rating:** 120/240 Volts AC.

- **Current Rating:** 60 Amperes.
- **Enclosure Type:** NEMA 1 enclosure, suitable for indoor applications.
- **Certifications:** UL listed (File E2875), meets or exceeds NEMA Standard KS1.
- **Service Entrance Capability:** Can be used as service entrance equipment when equipped with a service grounding kit.



Figure 1: Overall view of the Square D D322N 60-Amp safety switch, showing the gray metal enclosure and the black operating handle.

4. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged. The package typically includes:

- Square D by Schneider Electric D322N Safety Switch
- Installation Guide

Fuses are typically not included and must be purchased separately according to the required rating and type.

5. SETUP AND INSTALLATION

Installation of this safety switch requires expertise in electrical systems. It is strongly recommended that installation be performed by a licensed electrician or qualified personnel to ensure safety and compliance with all applicable codes.

5.1 Mounting the Switch

The D322N safety switch is designed for indoor surface mounting. Select a location that is easily accessible for operation and maintenance, free from moisture, and within the specified temperature ratings.

1. Ensure the mounting surface is structurally sound and capable of supporting the weight of the switch (approximately 8 pounds).
2. Use appropriate fasteners to secure the switch enclosure to the wall. Refer to the included Installation Guide for specific mounting hole locations and dimensions.



Figure 2: Rear view of the safety switch, illustrating the various conduit entry points and mounting holes for installation.

5.2 Wiring Connections

All wiring must comply with the National Electrical Code (NEC) and local codes. The switch features a 4-wire design with three fuse holders and a neutral bar.

1. **De-energize Power:** Before opening the enclosure or making any connections, ensure the main power supply is completely disconnected and locked out.
2. **Open Enclosure:** Open the front door of the safety switch.
3. **Install Fuses:** Insert the correctly rated fuses into the designated fuse holders. The switch is designed for fusible operation.
4. **Connect Incoming Power:** Connect the incoming line conductors to the top terminals of the switch.
5. **Connect Outgoing Load:** Connect the outgoing load conductors to the bottom terminals of the switch.
6. **Connect Neutral:** Connect the neutral conductor to the neutral bar.
7. **Grounding:** Ensure the equipment grounding conductor is properly connected to the grounding lug within the

enclosure. If used as service entrance equipment, install a service grounding kit as per instructions.

8. **Secure Connections:** Tighten all terminal screws to the torque specifications provided in the Installation Guide.
9. **Close Enclosure:** Close and secure the enclosure door.



Figure 3: Front view of the safety switch with the door closed, highlighting the warning labels and the operating handle.

6. OPERATING INSTRUCTIONS

The Square D D322N safety switch operates with a simple ON-OFF mechanism via its external handle.

6.1 Turning Power ON

1. Ensure all connections are secure and the enclosure door is properly closed.
2. Move the operating handle from the "OFF" position (typically down) to the "ON" position (typically up). This connects the power to the load.

6.2 Turning Power OFF

1. To disconnect power to the load, move the operating handle from the "ON" position to the "OFF" position. This isolates the load from the power source.
2. For maintenance or service, always verify the power is off using a voltage tester at the load side of the switch.



Figure 4: Left side profile of the safety switch, illustrating its compact design.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and safe operation of your safety switch. All maintenance should be performed by qualified personnel with the power supply de-energized.

- **Visual Inspection:** Periodically inspect the switch for any signs of physical damage, corrosion, loose connections, or overheating (discoloration).
- **Cleanliness:** Keep the enclosure clean and free from dust, dirt, and debris. Use a dry, non-abrasive cloth.
- **Fuse Replacement:** If a fuse blows, replace it only with a fuse of the identical type and rating. Never bypass a fuse.
- **Terminal Tightness:** Annually, or as recommended by local codes, verify the tightness of all electrical connections.



Figure 5: Right side profile of the safety switch, detailing the handle and its connection to the internal switching mechanism.

8. TROUBLESHOOTING

If you encounter issues with your safety switch, consider the following common troubleshooting steps. Always ensure power is disconnected before inspecting internal components.

- **No Power to Load:**

- Check if the operating handle is in the "ON" position.
- Inspect fuses for continuity. Replace any blown fuses.
- Verify incoming power supply to the switch.
- Check for loose wiring connections within the switch.

- **Switch Handle Won't Move:**

- Ensure the enclosure door is fully closed, as some switches have interlocks preventing operation with an open door.
- Check for any obstructions or physical damage to the handle mechanism.

- **Overheating/Burning Smell:**

- Immediately disconnect power.
- This indicates a serious electrical fault. Do not attempt to operate the switch. Contact a qualified electrician for inspection and repair.

For issues not resolved by these steps, contact Schneider Electric customer support or a qualified electrician.

9. SPECIFICATIONS

Detailed technical specifications for the Square D by Schneider Electric D322N Safety Switch:

| Specification | Value |
|---------------------------------|---------------------------|
| Model Number | D322N |
| Brand | Schneider Electric |
| Operation Mode | ON-OFF |
| Current Rating | 60 Amps |
| Operating Voltage | 240 Volts |
| Contact Type | Normally Open |
| Connector Type | Clamp |
| Terminal Type | Screw |
| Item Dimensions (L x W x H) | 4.87 x 7.45 x 14.6 inches |
| Circuit Type | 1-way |
| Actuator Type | Hinge Lever |
| Contact Material | Metal |
| International Protection Rating | IP00 |

| Specification | Value |
|--------------------------|--|
| Number of Positions | 3 |
| Lower Temperature Rating | 100 Degrees Celsius |
| Upper Temperature Rating | 250 Degrees Celsius |
| Control Method | Touch (Note: Refers to general interaction, not touch screen) |
| Connectivity Protocol | X-10 (Note: This is a legacy home automation protocol, likely a generic spec entry and not directly applicable to the core function of this safety switch) |
| Color | Grey |
| Wattage | 14400 watts |
| Item Weight | 8 pounds |
| Usage | Indoor |
| Included Components | Installation Guide |
| UPC | 785901461234 |

10. WARRANTY AND SUPPORT

For specific warranty information regarding your Square D by Schneider Electric D322N Safety Switch, please refer to the documentation included with your purchase or visit the official Schneider Electric website. General warranty terms typically cover manufacturing defects under normal use.

If you require technical assistance, have questions about installation, or need to report a product issue, please contact Schneider Electric customer support. Contact details can usually be found on the manufacturer's website or in the included product literature.

Online Resources: For additional information, product updates, and FAQs, visit the [Schneider Electric official website](#).