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Square D H325NR

Square D H325NR Heavy Duty Safety Switch Instruction Manual

240-Volt, 400-Amp, 3-Point, NEMA 3R Fusible Safety Switch

INTRODUCTION

This instruction manual provides essential information for the safe installation, operation, and maintenance of the Square D H325NR Heavy Duty Safety Switch. This device is designed to provide a means of disconnecting power in electrical circuits, ensuring safety during maintenance or in emergency situations. Please read this manual thoroughly before attempting any installation or operation.

The Square D H325NR is a 240-Volt, 400-Amp, 3-Point, NEMA 3R rated fusible safety switch, suitable for outdoor use due to its NEMA 3R enclosure, which provides protection against falling dirt, rain, sleet, and external ice formation.

IMPORTANT SAFETY INFORMATION

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

- Always de-energize the circuit before working on the switch or connected equipment.
- Use proper personal protective equipment (PPE) as required by NFPA 70E.
- Verify voltage with a properly rated voltage sensing device.
- Do not operate the switch if the enclosure is damaged or open.
- Ensure proper grounding and bonding of the enclosure.
- Comply with all national and local electrical codes.

PRODUCT OVERVIEW

The Square D H325NR is a heavy-duty, fusible safety switch designed for industrial and commercial applications. It features a robust NEMA 3R enclosure for outdoor or indoor use where protection against environmental elements is required.



Figure 1: Front view of the Square D H325NR Heavy Duty Safety Switch. This image shows the gray metal enclosure with the main access door and the red operating handle on the side. The NEMA 3R rating indicates its suitability for outdoor installations, protecting internal components from rain and dust.

Key Features:

- 240 Volts, 400 Amps
- 3-Point (Three Phase)
- NEMA 3R Enclosure (Rainproof, Sleet/Ice Proof)
- Fusible design (fuses sold separately)
- Heavy-duty construction for demanding applications

INSTALLATION AND SETUP

Pre-Installation Checklist:

- Ensure the installation location is suitable for a NEMA 3R enclosure.
- Verify that the voltage and current ratings of the switch match the application requirements.
- Confirm availability of appropriate fuses (not included).
- Gather necessary tools and personal protective equipment (PPE).
- Review local and national electrical codes (e.g., NEC).

Mounting Instructions:

1. Select a sturdy, flat surface capable of supporting the switch's weight (approximately 183 pounds).
2. Mark the mounting points using the switch's pre-drilled holes as a template.
3. Securely fasten the switch to the mounting surface using appropriate hardware (e.g., lag bolts, anchor bolts). Ensure the switch is level and plumb.

Wiring Instructions:

1. **De-energize the power source:** Before making any electrical connections, ensure that all upstream power sources are de-energized and locked out/tagged out.
2. Open the switch enclosure door.
3. Connect the incoming power conductors to the line side terminals. Ensure proper phase rotation if applicable.
4. Connect the outgoing load conductors to the load side terminals.

5. Install the appropriate fuses into the fuse clips. Refer to the switch's internal wiring diagram for correct fuse placement and rating.
6. Connect the equipment grounding conductor to the designated ground lug within the enclosure.
7. Verify all connections are tight and secure.
8. Close and secure the enclosure door.

OPERATING INSTRUCTIONS

Turning the Switch ON:

1. Ensure all safety precautions are observed.
2. Verify that the switch handle is in the "OFF" position.
3. Move the operating handle firmly from the "OFF" position to the "ON" position. A distinct click should be heard, indicating the contacts have closed.
4. The switch is now energized, and power is supplied to the connected load.

Turning the Switch OFF:

1. Ensure all safety precautions are observed, especially if working on the downstream equipment.
2. Move the operating handle firmly from the "ON" position to the "OFF" position. This will open the contacts and de-energize the load.
3. For maintenance or service, apply appropriate lockout/tagout procedures to prevent accidental re-energization.

Fuse Replacement:

WARNING: Risk of electric shock. Always de-energize the switch and verify zero voltage before replacing fuses.

1. Turn the switch to the "OFF" position and apply lockout/tagout.
2. Open the enclosure door.
3. Carefully remove the blown fuse(s) using a fuse puller.
4. Install new fuses of the exact same type and rating. Never use fuses with higher ratings than specified.
5. Close and secure the enclosure door.
6. Remove lockout/tagout and re-energize the switch.

MAINTENANCE

Regular maintenance helps ensure the longevity and safe operation of your Square D H325NR safety switch. All maintenance should be performed by qualified personnel.

Recommended Maintenance Schedule:

- **Annually:**
 - Inspect the enclosure for signs of damage, corrosion, or ingress of moisture/debris.
 - Check all electrical connections for tightness. Loose connections can cause overheating.
 - Clean the interior of the enclosure, removing any dust or foreign material.
 - Inspect the operating mechanism for smooth operation. Lubricate pivot points if necessary with a non-

conductive lubricant.

- Verify proper operation of the door interlock mechanism (if present).

- **As Needed:**

- Replace any damaged or corroded parts with genuine Square D replacement parts.
- Clean external surfaces with a mild detergent and water. Avoid abrasive cleaners.

Note: Always de-energize the switch and follow lockout/tagout procedures before performing any maintenance inside the enclosure.

TROUBLESHOOTING

This section provides guidance for common issues. For complex problems or if you are unsure, contact a qualified electrician or Square D technical support.

Problem	Possible Cause	Solution
Switch does not turn ON.	Blown fuse(s). No incoming power. Damaged operating mechanism.	Check and replace blown fuses (see Fuse Replacement). Verify power supply to the line side of the switch. Contact qualified personnel for inspection and repair.
Switch turns OFF unexpectedly.	Overload on the circuit. Short circuit. Loose connections.	Identify and reduce load. Replace blown fuses. Locate and clear short circuit. Replace blown fuses. De-energize and tighten all connections.
Enclosure shows signs of corrosion or water ingress.	Damaged gasket or seal. Improper installation.	Inspect and replace damaged gaskets. Ensure proper mounting and sealing.

SPECIFICATIONS

Attribute	Value
Model Number	H325NR
Brand	Square D (by Schneider Electric)
Voltage Rating	240 Volts
Current Rating	400 Amps
Phase Type	Three Phase (3-Point)
Enclosure Type	NEMA 3R
Material	Metal, Plastic
Item Weight	183 pounds

Attribute	Value
Product Dimensions (L x W x H)	52.5 x 28.5 x 14 inches
UPC	785901451440

WARRANTY AND SUPPORT

For specific warranty information regarding your Square D H325NR safety switch, please refer to the warranty documentation provided at the time of purchase or visit the official Schneider Electric website. Warranty terms and conditions may vary by region and product.

For technical support, product inquiries, or to locate authorized service centers, please contact Schneider Electric customer support:

- **Online Support:** Visit the [Schneider Electric Support Portal](#) for FAQs, documentation, and contact options.
- **Customer Service:** Refer to the contact information provided on the Schneider Electric official website for your region.

When contacting support, please have your product model number (H325NR) and any relevant purchase details ready.

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Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question

