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Schneider Electric B075

Square D B075 Bolt-On Hub Instruction Manual

Brand: Schneider Electric

PRODUCT OVERVIEW

The Square D B075 Bolt-On Hub is a robust metal component designed for secure conduit connections in electrical systems. Its unique design features an off-center conduit threaded opening and elongated mounting holes, which facilitate easier installation and adjustment, potentially reducing the need for complex conduit offsets and bends. This hub is specifically engineered for use with Square D load centers, CSED devices, and safety switches, ensuring compatibility and reliable performance. It is a Type B size hub and holds both UL and CSA safety listings, confirming its adherence to stringent safety and quality standards.



Figure 1: Main view of the Square D B075 Bolt-On Hub. This hub is designed for secure electrical conduit connections.

KEY FEATURES

- Designed for use in Square D load centers, CSED devices, and safety switches.
- Suitable for outdoor load centers and safety switches, ensuring versatility.
- UL- and CSA safety listed, confirming compliance with safety standards.
- Type B size, ensuring compatibility with specified Square D equipment.
- Features an off-center conduit threaded opening and elongated mounting holes for simplified installation and adjustment.

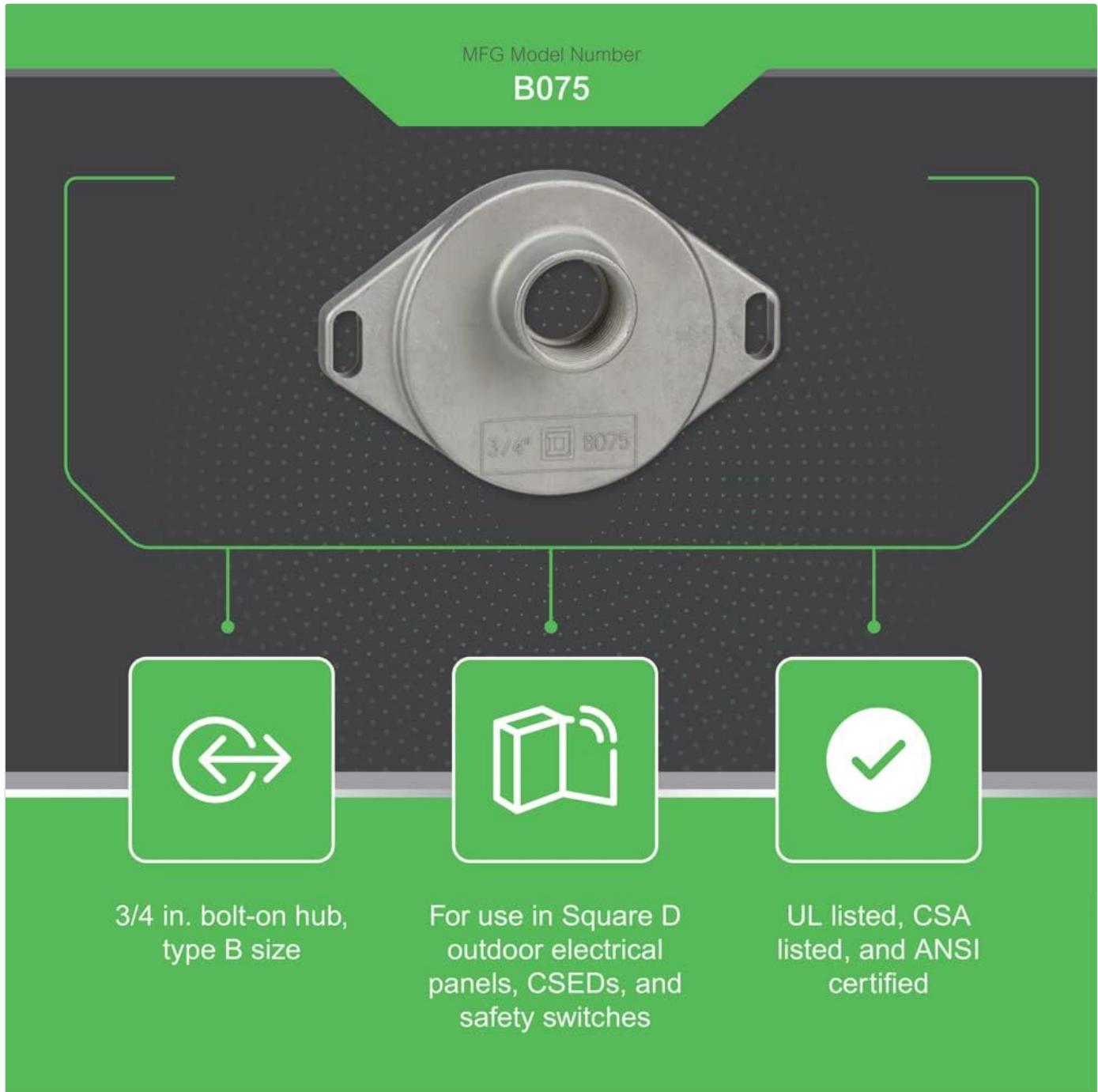


Figure 2: Visual representation of the key features and certifications of the B075 hub, including its 3/4 inch bolt-on design, suitability for various electrical panels, and UL/CSA listing.

SPECIFICATIONS

Attribute	Detail
Model Number	B075

Attribute	Detail
Material	Metal
Color	Silver
Dimensions (L x W x H)	3.13 x 4.13 x 1.4 inches
Item Weight	0.01 Ounces
Connector Type	Reducer
Thread Size	3 inch
Thread Type	NPT
Number of Pieces	1
Certifications	UL- and CSA listed



Figure 3: Detailed dimensions of the Square D B075 Bolt-On Hub, showing its length, width, and height for accurate planning and installation.

SETUP AND INSTALLATION

The Square D B075 Bolt-On Hub is designed for straightforward installation into compatible Square D load centers, CSED devices, and safety switches. Its off-center threaded opening and elongated mounting holes are key features that simplify the alignment and attachment process, reducing the need for custom conduit bends or offsets.

Installation Steps:

- Safety First:** Ensure all power to the load center or device is disconnected at the main breaker before beginning any installation. Verify with a voltage tester.
- Prepare the Opening:** Identify the appropriate Type B opening on your Square D load center, CSED device, or safety switch where the hub will be installed.
- Position the Hub:** Align the elongated mounting holes of the B075 hub with the corresponding screw holes on the device. The off-center threaded opening allows for flexibility in conduit routing.

4. **Secure the Hub:** Use appropriate fasteners (not included with the hub, typically provided with the load center or device) to securely bolt the hub to the enclosure. Ensure a tight fit to maintain the rain-tight integrity, especially for outdoor applications.
5. **Connect Conduit:** Thread the rigid conduit directly into the 3-inch NPT threaded opening of the hub. Ensure the conduit is properly seated and tightened to prevent water ingress and maintain electrical continuity.
6. **Final Check:** After installation, visually inspect all connections for tightness and proper alignment. Ensure no gaps or loose components are present.

For a visual guide on load center accessories and their installation, please refer to the video below. This video provides additional context on various components, including hubs, ground bars, neutral lugs, filler plates, and cover screws, which are often used in conjunction with load centers.

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Video: Load Center Accessories. This video provides an overview of various accessories, including hubs, ground bars, neutral lugs, filler plates, and cover screws, and their role in electrical installations.

Compatible products

3/4 in. Bolt-On Hub for Devices with B Openings

MFG Model Number: B075



→

Compatible for direct mounting on outdoor or N3R Homeline and QO load centers and safety switches with a "B" in the catalog #



Figure 4: Illustration showing the compatibility of the 3/4 inch B075 Bolt-On Hub with Square D outdoor or N3R Homeline and QO load

OPERATING PRINCIPLES

The Square D B075 Bolt-On Hub functions as a critical interface for connecting rigid electrical conduit to Square D load centers, CSED devices, and safety switches. Its primary role is to provide a secure, rain-tight entry point for electrical wiring, protecting the internal components of the electrical enclosure from environmental elements such as moisture and dust. By facilitating a direct and sealed connection, the hub helps maintain the integrity of the electrical system and ensures safe operation.

The design of the hub, with its threaded opening, allows for easy and reliable attachment of conduit, ensuring that the electrical conductors are properly routed and protected as they enter the enclosure. This contributes to the overall safety and longevity of the electrical installation.

MAINTENANCE

Given that the Square D B075 Bolt-On Hub is a passive mechanical component, it requires minimal maintenance. Regular inspection is recommended to ensure its continued integrity and performance.

Recommended Maintenance Checks:

- **Visual Inspection (Annually):** Periodically inspect the hub and its connection to the electrical enclosure for any signs of physical damage, corrosion, or wear. Check for cracks, deformities, or loose connections.
- **Tightness Check:** Ensure that the bolts securing the hub to the enclosure and the conduit threaded into the hub remain tight. Loose connections can compromise the rain-tight seal and electrical safety.
- **Environmental Seal:** For outdoor installations, verify that the rain-tight seal around the hub and conduit entry point is intact and free from degradation. Address any signs of water ingress immediately.
- **Cleanliness:** Keep the exterior of the hub free from excessive dirt, debris, or corrosive substances that could accelerate wear or compromise its material integrity.

If any damage or significant wear is observed, the hub should be replaced by a qualified electrician to ensure the safety and compliance of the electrical system.

TROUBLESHOOTING

The Square D B075 Bolt-On Hub is a straightforward component, and issues are typically related to improper installation or physical damage. Here are common troubleshooting scenarios:

Common Issues and Solutions:

- **Issue: Water or Moisture Inside Enclosure**
 - **Cause:** Improperly tightened hub bolts or conduit connection, damaged hub, or degraded seal.
 - **Solution:** Disconnect power. Inspect the hub for cracks or damage. Ensure all bolts are securely tightened. Re-thread and tighten the conduit connection. If the hub is damaged, replace it.
- **Issue: Loose Conduit Connection**
 - **Cause:** Insufficient tightening during installation or vibration over time.
 - **Solution:** Disconnect power. Carefully re-tighten the conduit into the hub's threaded opening. Ensure it is snug but do not overtighten, which could strip threads.
- **Issue: Difficulty Aligning Hub During Installation**
 - **Cause:** Conduit not properly aligned with the enclosure opening, or incorrect hub type.
 - **Solution:** The B075 hub features elongated mounting holes and an off-center opening to aid alignment. Adjust the

conduit run as needed. Confirm the hub is a Type B size, compatible with your Square D device.

Always ensure power is disconnected before attempting any inspection or repair. If you are unsure about any step, consult a qualified electrician.

WARRANTY AND SUPPORT

For information regarding the warranty of your Square D B075 Bolt-On Hub, please refer to the documentation provided with your original purchase or visit the official Schneider Electric website. Warranty terms and conditions may vary based on region and purchase date.

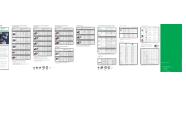
Should you require technical support, have questions about installation, or need assistance with troubleshooting, please contact Schneider Electric customer service. Their contact information can typically be found on their official website or in the product packaging.

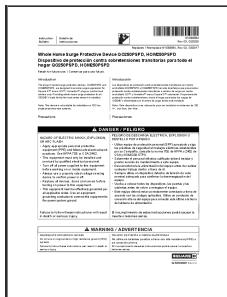
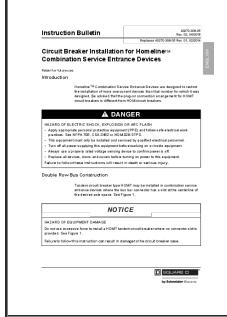
Note: Always ensure that any installation, maintenance, or repair work is performed by a qualified and licensed electrician to comply with local electrical codes and safety regulations.

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Model: B075 | UPC: 785901459415

Related Documents - B075

	<p>Installation Instructions for Schneider Electric Additional Load Barrier for 400-600A E04 Series Heavy Duty Safety Switches</p> <p>This document provides installation instructions for the Schneider Electric Additional Load Barrier (Part No. SS4060LO) designed for E04 Series 400-600A Heavy Duty Safety Switches. It includes safety precautions, installation steps, and re-energizing procedures.</p>
	<p>Schneider Electric Class 3100 Enclosed Safety Switches Catalog</p> <p>Explore the Schneider Electric Class 3100 catalog for comprehensive details on General Duty and Heavy Duty Enclosed Safety Switches. Find product specifications, applications, accessories, and technical data for industrial and residential electrical safety solutions.</p>
	<p>Schneider Electric 9001 Type K & XB4 Push Buttons, Pilot Lights, Selector Switches - Product Selection Guide</p> <p>Comprehensive selection guide for Schneider Electric's 9001 Type K (30mm) and XB4 (22mm) heavy-duty industrial push buttons, pilot lights, and selector switches. Features detailed product specifications, part numbers, and configuration options for oil-tight, water-tight, and dust-tight applications.</p>

	<p><u>Whole Home Surge Protective Device QO250PSPD, HOM250PSPD - Installation and Warranty</u></p> <p>Installation guide and warranty information for Schneider Electric's Whole Home Surge Protective Devices, models QO250PSPD and HOM250PSPD. Protects against electrical surges for residential homes.</p>
	<p><u>Instructions for Field Retrofit of Model 98A Digital Temperature Controller</u></p> <p>This document provides instructions for retrofitting a Model 98A Digital Temperature Controller in place of an existing Model 85 Temperature Controller. It covers safety precautions, parts included, removal of the old controller, panel modifications, installation of the new controller and thermocouple, and completing the retrofit.</p>
	<p><u>Homeline™ Combination Service Entrance Device Circuit Breaker Installation Guide</u></p> <p>This instruction bulletin provides detailed guidance for installing Homeline™ Combination Service Entrance Devices, including safety warnings, construction details for double and single row bus configurations, and step-by-step procedures for installing and removing circuit breakers. It covers essential information for qualified electrical personnel.</p>