

Schneider Electric HOM2175SB

Schneider Electric HOM2175SB Homeline SurgeBreaker Instruction Manual

BRAND: SCHNEIDER ELECTRIC

Model: HOM2175SB

1. Product Overview

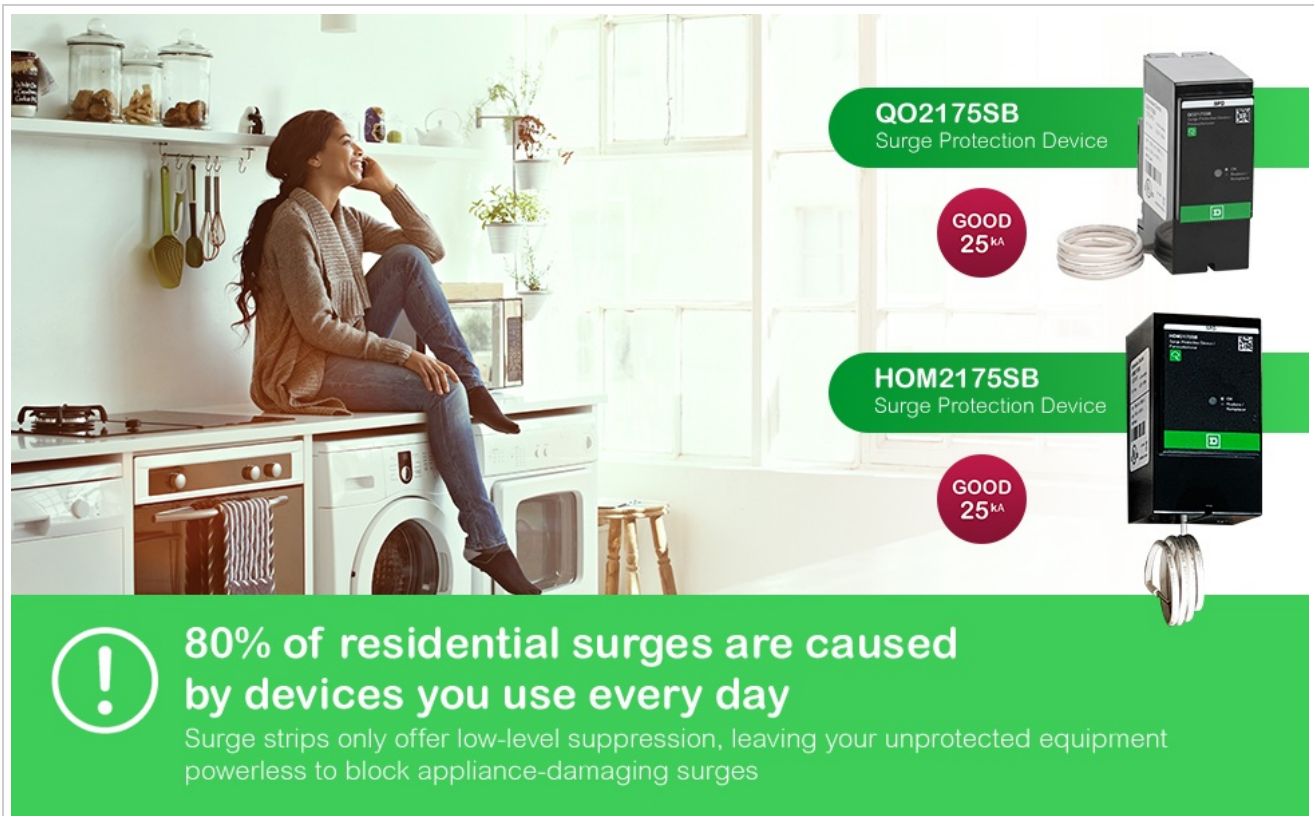
The Schneider Electric HOM2175SB Homeline SurgeBreaker is a secondary surge arrestor designed to protect electrical service and major household appliances within Homeline load centers. This device is suitable for 3-wire, 120/240 VAC single-phase systems and features a NEMA 1 indoor rating. It provides protection against electrical surges, helping to safeguard your home's electrical system and connected equipment.

Key Features:

- Compatible exclusively with Square D Homeline load centers.
- Offers equal surge protection to circuits and receptacles throughout the home.
- Includes an LED indicator for operational status.
- Features a plug-on installation, requiring two pole positions.
- UL 1449 3rd Edition Listed.

2. **Locate Positions:** Identify two adjacent pole positions within your Homeline load center. For optimal protection, install the SurgeBreaker in the slots closest to the main breaker.
3. **Plug-on Installation:** Align the SurgeBreaker with the designated bus bar connections and firmly press it into place until it is securely seated.
4. **Neutral Connection:** Connect the white neutral wire from the SurgeBreaker to the neutral bar in the load center.
5. **Ground Connection:** Connect the green ground wire from the SurgeBreaker to the ground bar in the load center.
6. **Restore Power:** Once installation is complete and all connections are secure, restore power to the main service panel.

Video 1: An overview of the Square D Homeline SurgeBreaker and its installation process.



QO2175SB
Surge Protection Device

GOOD 25^{kA}

HOM2175SB
Surge Protection Device

GOOD 25^{kA}

80% of residential surges are caused by devices you use every day
Surge strips only offer low-level suppression, leaving your unprotected equipment powerless to block appliance-damaging surges

Figure 2: Illustrates the compatibility of the HOM2175SB with Homeline panels, distinguishing it from QO series devices.

4. Operating Instructions

The HOM2175SB SurgeBreaker operates automatically to detect and divert harmful electrical surges away from your home's electrical system. No user interaction is required for its primary function.

LED Indicator: The device is equipped with an LED indicator light. When the LED is illuminated green, it signifies that the SurgeBreaker is operational and providing surge protection. If the LED is off, the unit requires replacement.

5. Maintenance

The HOM2175SB SurgeBreaker requires minimal maintenance. The primary maintenance task is to periodically check the status of the LED indicator light.

- **Regular Inspection:** Periodically inspect the SurgeBreaker's LED indicator. It should be illuminated green, indicating proper function.
- **Replacement:** If the LED indicator is off, the SurgeBreaker has absorbed a significant surge or has reached the end of its service life and needs to be replaced.

6. Troubleshooting

The main troubleshooting step for the HOM2175SB SurgeBreaker involves its operational status indicator.

- **LED Off:** If the green LED indicator is off, the SurgeBreaker is no longer providing surge protection. This indicates that the device has either sacrificed itself to protect your system from a surge or has failed. In this event, the unit must be replaced.
- **No Power:** If there is no power to the panel after installation, ensure all connections are secure and the main breaker is on. If issues persist, consult a qualified electrician.

Important: Do not attempt to open or repair the SurgeBreaker. Contact a qualified electrician for replacement.

7. Specifications

Specification	Value
Model Number	HOM2175SB
Voltage Rating	120/240 VAC
Phase Type	Single Phase
Wire Configuration	3-Wire
Maximum Surge Current Rating (SCCR)	22.5 kA
Nominal Discharge Current (In)	5 kA
Voltage Protection Rating (VPR)	700V L-N, 1500V L-L
Enclosure Rating	NEMA 1 (Indoor)
Mounting	Plug-on, requires 2 pole spaces
Indicator	Green LED (OK) / Off (Replace)
Certifications	UL 1449 3rd Edition Listed
Product Dimensions	2.58"L x 2"W x 3.13"H (65.5mm L x 50.8mm W x 79.5mm H)
Weight	5.92 ounces (0.168 kg)

Technical Benefits Surge Breaker



3 year/\$10,000 connected equipment warranty



Protects against overloads and short-circuits



22.5 kA surge current capacity for QO electrical panels



The current capacity that this circuit breaker is able to interrupt before breaking is 10kA



For residential/commercial use to protect entire branch circuits



Compatible with QO electrical panels and CSEDs with 2 spaces



Figure 3: Technical benefits and features of the SurgeBreaker, including warranty and surge capacity.

Dimensions of product



Figure 4: Detailed dimensions of the HOM2175SB SurgeBreaker.

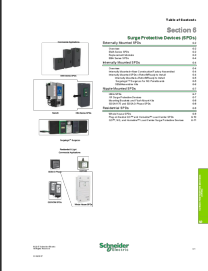
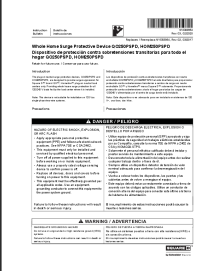


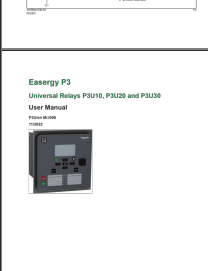
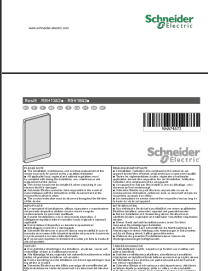
8. Warranty and Support

The Schneider Electric HOM2175SB Homeline SurgeBreaker comes with a warranty that covers the device and connected equipment.

- **Warranty Period:** 3 years from the date of purchase or 2 years following the installation date, whichever occurs earlier.
- **Connected Equipment Protection:** The warranty includes coverage for up to \$10,000 for major household appliances damaged by a surge while properly connected to a protected circuit. This typically excludes electronic devices like microwaves or countertop appliances.

For technical support, warranty claims, or further information, please contact Schneider Electric customer service or visit their official website.

Related Documents - HOM2175SB

	<p>Schneider Electric Surge Protective Devices (SPDs) Catalog</p> <p>Comprehensive catalog detailing Schneider Electric's Surge Protective Devices (SPDs), including EMA Series, EBA Series, Surgelogic, HWA, XR, SDSA, Surgebreaker Plus, and HEPD product lines for residential and commercial applications.</p>
	<p>Whole Home Surge Protective Device QO250PSPD, HOM250PSPD - Installation and Warranty</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>Schneider Electric Homeline Load Centers: Main Lugs and Main Circuit Breakers</p> <p>This document details Schneider Electric's Homeline indoor main lug and main circuit breaker load centers, including accessories like surge protective devices and convertible main load centers. It provides specifications, catalog numbers, and application information for various models.</p>
	<p>Schneider Electric Acti9 A9E1832 Phase Indicating Light - Installation & Technical Guide</p> <p>Official installation instructions and technical specifications for the Schneider Electric Acti9 A9E1832 3-phase indicating light. Learn about its features, connection, and safety guidelines.</p>
	<p>Easergy P3 Universal Relays P3U10, P3U20, P3U30 User Manual Schneider Electric</p> <p>User manual for Schneider Electric's Easergy P3 Universal Relays (P3U10, P3U20, P3U30), covering installation, configuration, protection, measurement, and control functions for electrical distribution systems.</p>
	<p>Schneider Electric Resi9 R9H1342/R9H1842 Installation and Safety Guide</p> <p>This document provides essential safety precautions and installation instructions for Schneider Electric Resi9 R9H1342 and R9H1842 electrical enclosures, emphasizing qualified personnel and regulatory compliance.</p>

