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› Bussmann 185 Series High Amp Thermal Circuit Breaker 185050F-01-1 User Manual

Bussmann 185050F-01-1

Bussmann 185 Series High Amp Thermal Circuit Breaker

MODEL: 185050F-01-1

User Manual

Product Overview

This manual provides instructions for the Bussmann Series 185 High Amp Thermal Circuit Breaker, model 185050F-01-1. This is a 50 Amp, Type III Push-to-Trip (PTT) circuit breaker designed for 42V systems and features a surface mount configuration. It is engineered to protect electrical circuits from overcurrent conditions.

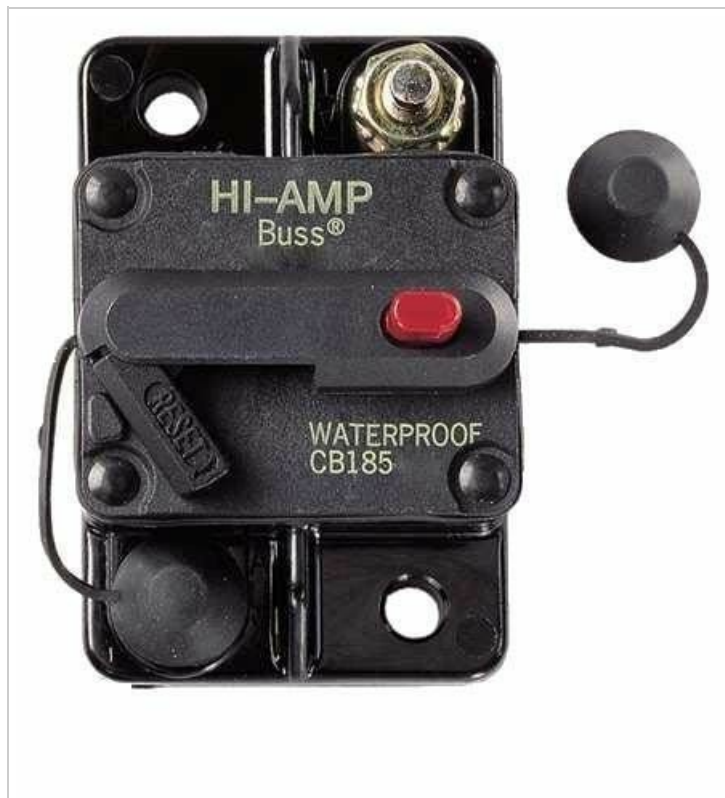


Figure 1: Bussmann 185 Series High Amp Thermal Circuit Breaker, model 185050F-01-1. This image shows the compact design suitable for surface mounting.

Safety Information

Always disconnect power before installing or servicing the circuit breaker. Installation should be performed by qualified personnel in accordance with all applicable electrical codes and standards. Failure to follow these instructions may result in electrical shock, fire, or serious injury.

- Ensure the circuit breaker's voltage and current ratings match the application requirements.
- Do not use in environments exceeding specified temperature or humidity limits.
- Never bypass or tamper with the circuit breaker's protective mechanisms.

Setup and Installation

The 185050F-01-1 circuit breaker is designed for surface mounting. Follow these steps for proper installation:

1. **Preparation:** Ensure the power supply to the circuit is completely disconnected. Verify the mounting surface is clean, dry, and structurally sound.
2. **Mounting:** Position the circuit breaker on the desired surface. Use appropriate fasteners (not included) through the mounting holes to secure the unit firmly. Ensure there is adequate clearance for wiring and heat dissipation.
3. **Wiring:** Connect the input (source) wire to the designated input terminal and the output (load) wire to the designated output terminal. Ensure all connections are tight and secure to prevent loose contacts and overheating. Refer to local electrical codes for wire gauge requirements.
4. **Verification:** Double-check all connections and mounting security before restoring power.

Note: This circuit breaker is rated for 42V DC and 50 Amps. Do not exceed these ratings.

Operating Instructions

The Bussmann 185 Series circuit breaker operates automatically to protect circuits from overcurrents. It also features a manual reset and a "Push-to-Trip" (PTT) function.

- **Normal Operation:** When the circuit breaker is in the "ON" position, current flows through the circuit. If an overcurrent condition occurs, the breaker will automatically trip to the "OFF" position, interrupting the circuit.
- **Manual Reset:** After an automatic trip, identify and resolve the cause of the overcurrent. To reset the breaker, push the lever or button back to the "ON" position. If the breaker immediately trips again, do not force it; investigate the circuit further.
- **Push-to-Trip (PTT) Function:** This feature allows for manual tripping of the circuit breaker for testing or maintenance purposes. To trip the breaker manually, locate the PTT button (if present on your specific model) and press it. The breaker will move to the "OFF" position. Reset as described above.

Maintenance

Regular inspection and proper maintenance ensure the longevity and reliable operation of your circuit breaker.

- **Periodic Inspection:** Visually inspect the circuit breaker and its connections periodically for any signs of damage, corrosion, or loose wiring. Ensure the mounting remains secure.
- **Cleaning:** Keep the circuit breaker free from dust, dirt, and moisture. Use a dry, soft cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Testing:** Periodically test the Push-to-Trip (PTT) function to ensure the mechanism is operational.
- **Replacement:** If the circuit breaker shows signs of damage, excessive wear, or fails to operate correctly, it must be replaced immediately with an identical model.

Troubleshooting

If your circuit breaker is not functioning as expected, consider the following common issues:

Problem	Possible Cause	Solution
Breaker trips immediately after reset.	Persistent overcurrent or short circuit in the protected circuit.	Disconnect all loads from the circuit. Reset the breaker. If it holds, reconnect loads one by one to identify the faulty device. If it still trips with no load, inspect wiring for shorts.
Breaker does not trip during an overcurrent.	Faulty circuit breaker or incorrect rating for the load.	Verify the breaker's current rating matches the circuit requirements. If the rating is correct, the breaker may be faulty and requires replacement.
Breaker feels hot to the touch.	Overload, loose connections, or internal fault.	Immediately disconnect power. Check for loose wiring connections. Reduce the load on the circuit. If the issue persists, replace the breaker.

If troubleshooting steps do not resolve the issue, consult a qualified electrician.

Specifications

Feature	Detail
Brand	Bussmann
Model Number	185050F-01-1
Current Rating	50 Amps
Voltage Rating	42 Volts DC
Circuit Breaker Type	Standard, Thermal
Mounting Type	Surface Mount
Number of Poles	1
Functionality	Type III PTT (Push to Trip)

Warranty and Support

Bussmann products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided with your purchase or visit the official Bussmann website. For technical support or inquiries, please contact Bussmann customer service through their official channels.

Please retain this manual for future reference.

ASK A QUESTION ABOUT THIS MANUAL

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

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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