Baxnore HT-608

Baxnore HT-608 50A Automatic Reset Circuit Breaker User Manual

Model: HT-608 | Amperage: 50A

1. Introduction

Thank you for choosing the Baxnore HT-608 50A Automatic Reset Circuit Breaker. This manual provides essential information for the safe and effective installation, operation, and maintenance of your circuit breaker. Please read this manual thoroughly before use and retain it for future reference.
The HT-608 is designed to provide reliable overcurrent protection for various electrical systems, particularly in automotive, marine, and truck applications. Its robust construction and automatic reset feature ensure consistent performance and safety.

2. Safety Information

WARNING: Electrical work can be dangerous. Always disconnect power before installing or servicing electrical components. If you are unsure about any part of the installation process, consult a qualified electrician or technician.

- Ensure the circuit breaker's amperage rating matches the requirements of your circuit.
- Do not operate the circuit breaker if it appears damaged.
- Always use appropriate personal protective equipment (PPE) when working with electrical systems.
- Verify all connections are secure and properly insulated to prevent short circuits.
- This device is designed for DC circuits. Do not use it in AC applications.

3. Product Overview

The Baxnore HT-608 is a compact and durable automatic reset circuit breaker. Key features include:

- **Overcurrent Protection:** Safeguards electrical circuits from damage due to excessive current.
- **Waterproof Cover:** Ensures reliable operation in environments exposed to moisture.
- **Automatic Detection & Recovery:** Automatically resets after an overcurrent event, providing continuous protection.
- **Easy Installation:** Designed for quick mounting on flat panels or walls.
- **Wide Application:** Suitable for audio-visual systems in automobiles, ships, and trucks.

Figure 3.1: Front view of the Baxnore HT-608 50A Circuit Breaker, showing the waterproof label and amperage rating.

Figure 3.2: Labeled diagram of the circuit breaker components, including the silicone insulating cap, positive battery connection, phenolic plastic shell, and screw holes.

4. Specifications

Feature	Detail
Model	HT-608
Amperage Rating	50A
Material	Copper (internal components), Phenolic Plastic (shell)
Stud Size	1/4in-28
Operating Temperature	-32°C to 82°C (-25.6°F to 179.6°F)

Feature	Detail
Dimensions (L x W x H)	Approx. 7.9 x 2.8 x 4.8 cm / 3.1 x 1.1 x 1.9 inches
Protection Features	Overcurrent, Residual Current, Overcharge
Reset Type	Automatic Detection and Manual Recovery

Figure 4.1: Dimensions of the Baxnore HT-608 Circuit Breaker.

5. Setup and Installation

The HT-608 circuit breaker is designed for straightforward installation. Follow these steps for proper setup:

1. **Choose a Mounting Location:** Select a flat, stable surface on a panel or wall that is easily accessible but protected from direct physical impact. Ensure adequate ventilation around the unit.

2. **Mark Mounting Holes:** Use the circuit breaker as a template to mark the positions for the mounting screws.
3. **Drill Pilot Holes:** Drill appropriate pilot holes for 1/4-28 screws.
4. **Mount the Breaker:** Secure the circuit breaker to the chosen surface using suitable screws.
5. **Connect Wiring:**
    - Identify the input (power source) and output (load) terminals. The terminals are typically marked or indicated by the direction of current flow.
    - Connect the positive wire from your power source (e.g., battery) to the input terminal.
    - Connect the positive wire leading to your electrical load (e.g., audio system) to the output terminal.
    - Ensure all connections are tight and secure. Use the provided silicone insulating caps over the studs to protect against moisture and accidental contact.
6. **Verify Installation:** Double-check all connections and mounting security before restoring power.

Figure 5.1: Angled view of the circuit breaker, showing the mounting holes and terminals for wiring connections.

6. Operation

The Baxnore HT-608 is an automatic reset circuit breaker, meaning it will automatically restore power after an overcurrent condition has passed and the circuit has cooled down. There is no manual reset button for typical operation.

- **Normal Operation:** When installed correctly, the circuit breaker allows current to flow through the circuit.
- **Overcurrent Event:** If the current exceeds 50A, the internal mechanism will trip, interrupting the circuit to prevent damage.
- **Automatic Reset:** Once the overcurrent condition is resolved (e.g., short circuit removed, load reduced) and the breaker cools, it will automatically reset and restore power to the circuit.
- **Manual Recovery (if applicable):** While primarily automatic, some situations might require disconnecting the power source to fully reset the thermal element if it remains in a tripped state due to persistent overload.

7. Maintenance

The HT-608 circuit breaker requires minimal maintenance due to its robust design and waterproof features. However, periodic checks are recommended to ensure optimal performance and safety:

- **Visual Inspection:** Regularly inspect the circuit breaker for any signs of physical damage, corrosion, or loose connections.
- **Cleanliness:** Keep the unit clean and free from dirt, dust, and debris. Use a dry cloth for cleaning. Do not use harsh chemicals or abrasive cleaners.
- **Waterproof Cover:** Ensure the protective plastic cover and silicone caps are intact and properly seated to maintain waterproof integrity.
- **Connection Tightness:** Periodically check that all wiring connections are tight. Loose connections can lead to overheating and poor performance.

8. Troubleshooting

If you experience issues with your Baxnore HT-608 circuit breaker, refer to the following troubleshooting guide:

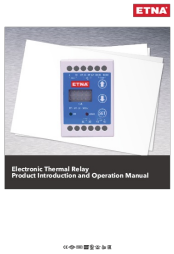
Problem	Possible Cause	Solution
No power to load	◦ Circuit breaker tripped due to overload/short circuit. ◦ Loose wiring connection. ◦ Faulty circuit breaker.	◦ Identify and resolve the overcurrent condition (e.g., disconnect faulty device, reduce load). The breaker should reset automatically. ◦ Check and tighten all wiring connections. ◦ If the breaker does not reset after resolving the issue, it may need replacement.

Problem	Possible Cause	Solution
Breaker trips frequently	◦ Persistent overload on the circuit. ◦ Short circuit in the wiring or connected device. ◦ Incorrectly sized circuit breaker for the load.	◦ Reduce the total electrical load on the circuit. ◦ Inspect wiring and devices for short circuits. ◦ Ensure the 50A rating is appropriate for your application. Consider a higher-rated breaker if the normal operating current is close to 50A (consult a professional).
Unit is hot to the touch	◦ Overload condition. ◦ Loose connections. ◦ Internal fault.	◦ Immediately disconnect power. Investigate for overload or short circuit. ◦ Check and tighten all connections. ◦ If overheating persists after addressing other issues, replace the unit.

9. Warranty and Support

Baxnore products are manufactured to high-quality standards. For specific warranty information, please refer to the documentation provided at the time of purchase or contact Baxnore customer support directly.
If you require technical assistance or have questions regarding your HT-608 circuit breaker, please visit the official Baxnore website or contact their customer service department. When contacting support, please have your product model (HT-608) and purchase details available.
Baxnore Official Store: Visit Baxnore Store on Amazon

Related Documents - HT-608

	3M HT-607 / HT-608 / HT-609 / HT-615 / HT-616 User Instructions Comprehensive user instructions for the 3M 600 Series headtops, including HT-607, HT-608, HT-609, HT-615, and HT-616 models. Covers unpacking, system description, approvals, limitations, operating instructions, maintenance, troubleshooting, and technical specifications.
	ETNA ETR Series Electronic Thermal Relay: Operation Manual and Specifications Comprehensive guide to the ETNA ETR-DT and ETR-HT electronic thermal relays, covering product details, general specifications, dimensions, front panel operation, menu settings, troubleshooting, and connection diagrams.

	[Siemens Circuit Breaker Installation Guide] Comprehensive installation instructions for Siemens and Murray circuit breakers, covering safety warnings, breaker types, and step-by-step installation procedures. Includes guidance for plug-in and bolt-on models.
	[Haltech Nexus Rebel LS ECU Quick Start Guide: Installation & Setup] Comprehensive quick start guide for the Haltech Nexus Rebel LS Engine Control Unit (ECU). Covers installation, wiring, software setup, specifications, and troubleshooting for GM LS engines.
	[Haltech WB1/WB2 Wideband Controllers: Quick Start Guide] A comprehensive quick start guide for Haltech WB1 and WB2 Wideband Controllers, covering product overview, installation, wiring, and software setup for various Haltech ECUs.
	[Heavy Texture Safety Data Sheet - Gaffrey Art Material] Comprehensive Safety Data Sheet (SDS) for Gaffrey Art Material's Heavy Texture art product, detailing hazards, handling, first aid, and regulatory information.