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> GE SFLA36AT0250 3P-600V-250A Circuit Breaker Instruction Manual

GE GESFLA36AT0250

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MODEL: GESFLA36AT0250

1. Introduction

This manual provides comprehensive instructions for the safe installation, operation, and maintenance of the GE SFLA36AT0250 3-pole, 600V, 250A Circuit Breaker. This device is designed to protect electrical circuits from overcurrents, which can result from overloads or short circuits. Proper understanding and adherence to these instructions are crucial for ensuring the safety of personnel and the longevity of the equipment. This circuit breaker is intended for use in industrial and commercial electrical distribution systems.



Figure 1: The GE SFLA36AT0250 3-pole, 250A circuit breaker.

2. Safety Information

WARNING: Electrical shock hazard. Only qualified personnel should install, operate, or service this equipment. Failure to follow these instructions can result in serious injury or death.

- Always disconnect and lock out all power sources before working on or near the circuit breaker.
- Use appropriate personal protective equipment (PPE), including insulated gloves, eye protection, and arc-flash rated clothing.
- Verify that the circuit breaker ratings (voltage, current, poles) match the system requirements.
- Ensure all connections are tight and properly torqued according to manufacturer specifications.
- Do not operate a damaged circuit breaker. Inspect for any physical damage before installation and operation.
- Adhere to all local and national electrical codes and standards.

3. Package Contents

Carefully unpack the circuit breaker and inspect for any shipping damage. Retain all packaging materials until the unit is confirmed to be in working order. The package should contain the following:

- One (1) GE SFLA36AT0250 3P-600V-250A Circuit Breaker
- Instruction Manual (this document)



Figure 2: Shipping box for the GE Industrial Systems circuit breaker.



Figure 3: Product label detailing the SFLA36AT0250 circuit breaker specifications. Catalog Number: SFJ11284M0309, UPC Number: 0783164211597.

4. Setup and Installation

Installation of this circuit breaker must be performed by a qualified electrician in accordance with all applicable electrical codes and safety standards.

1. **Preparation:** Ensure all power to the installation area is disconnected and verified de-energized using appropriate testing equipment. Apply lockout/tagout procedures.
2. **Mounting:** Mount the circuit breaker securely within the designated panelboard or enclosure. Refer to the panelboard manufacturer's instructions for specific mounting hardware and procedures.
3. **Wiring:** Connect the load and line conductors to the appropriate terminals on the circuit breaker. Ensure proper wire gauge is used for the 250A rating. Torque all terminal screws to the values specified by GE, typically found on the device label or in supplementary documentation.
4. **Verification:** Double-check all connections for tightness and correct polarity. Ensure no loose wires or debris are present.
5. **Enclosure Closure:** Securely close the panelboard or enclosure cover.
6. **Power Restoration:** Remove lockout/tagout devices and carefully restore power to the system. Observe the circuit breaker for any unusual behavior.

5. Operating Instructions

The GE SFLA36AT0250 circuit breaker is designed for automatic operation, tripping when an overcurrent condition occurs. Manual operation is also possible.

- **ON Position:** To close the circuit and allow current flow, push the handle firmly to the 'ON' position.
- **OFF Position:** To open the circuit and stop current flow, push the handle firmly to the 'OFF' position.
- **TRIPPED Position:** If an overcurrent condition occurs, the circuit breaker will automatically move to a 'TRIPPED' position (often midway between ON and OFF, or a distinct indicator).
- **Resetting a Tripped Breaker:** To reset a tripped breaker, first move the handle completely to the 'OFF' position, then push it firmly to the 'ON' position. If the breaker immediately trips again, do not force it. Investigate and resolve the cause of the overcurrent before attempting another reset.

6. Maintenance

Regular maintenance helps ensure the reliable operation and longevity of your circuit breaker. All maintenance should be performed by qualified personnel with power disconnected and locked out.

- **Visual Inspection (Annually):** Inspect the circuit breaker for any signs of physical damage, discoloration, overheating, or loose connections. Check for dust or debris accumulation.
- **Cleaning:** If necessary, gently clean the exterior of the circuit breaker with a dry, lint-free cloth. Do not use solvents or abrasive cleaners.
- **Connection Check (Periodically):** Verify that all electrical connections are tight and torqued to specifications. Loose connections can lead to overheating and potential failure.
- **Functional Test (As required by standards):** Periodically test the trip mechanism according to industry standards or manufacturer recommendations. This typically involves specialized test equipment.

7. Troubleshooting

If you encounter issues with your GE SFLA36AT0250 circuit breaker, refer to the following table. Always ensure power is disconnected before investigating electrical issues.

Problem	Possible Cause	Solution
Breaker trips immediately after reset.	Persistent overload or short circuit on the protected circuit.	Do not attempt to reset repeatedly. Disconnect loads and identify the fault. Consult a qualified electrician.
Breaker does not trip under overload.	Faulty breaker, incorrect rating, or wiring issue.	Immediately disconnect power to the circuit. Have the breaker inspected and tested by a qualified technician. Replace if faulty.
Breaker feels hot to the touch.	Overload, loose connections, or internal fault.	Disconnect power. Check for overloads and inspect connections for tightness. If problem persists, replace the breaker.
Difficulty moving the handle.	Internal mechanical issue or debris.	Do not force the handle. Disconnect power and have the breaker inspected. Replace if necessary.

8. Specifications

Key technical specifications for the GE SFLA36AT0250 Circuit Breaker:

Feature	Detail
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Feature	Detail
Manufacturer	General Electric
Part Number	GEP SFLA36AT0250
Model Number	GESFLA36AT0250
Poles	3
Voltage Rating	600 Volts AC (480 Volts listed in some specifications)
Current Rating	250 Amps
Material	Copper (internal components)
Color	Black
Item Weight	8.1 pounds
Product Dimensions	5 x 10 x 8 inches
Included Components	GESFLA36AT0250 Circuit Breaker
National Stock Number	5925-01-361-6929

9. Warranty and Support

Warranty: This GE SFLA36AT0250 Circuit Breaker comes with a 1-year manufacturer's warranty. This warranty covers defects in materials and workmanship under normal use and service. Please retain your proof of purchase for warranty claims.

Technical Support: For technical assistance, troubleshooting beyond the scope of this manual, or warranty inquiries, please contact your authorized GE distributor or visit the official GE Industrial Systems website. Provide the model number (GESFLA36AT0250) and serial number (if applicable) when seeking support.

