

Aexit DZ47-63 C32

Aexit DZ47-63 C32 Miniature Circuit Breaker Instruction Manual

1. INTRODUCTION

This manual provides essential information for the safe and effective installation, operation, and maintenance of the Aexit DZ47-63 C32 Miniature Circuit Breaker.

The Aexit DZ47-63 C32 is designed for use in lighting distribution systems or motor distribution systems to protect against overload and short circuit conditions. It complies with GB10963.1 quality standards.

2. SAFETY INFORMATION

WARNING: Installation and maintenance should only be performed by qualified electricians. Disconnect power before installation or servicing to prevent electric shock.

- Ensure proper grounding.
- Do not operate the circuit breaker if it appears damaged.
- For US customers, a voltage transformer (not included) is required for proper operation with AC 230V/400V systems.
- Always follow local electrical codes and regulations.

3. PRODUCT OVERVIEW

The Aexit DZ47-63 C32 Miniature Circuit Breaker is a compact and reliable device for circuit protection. Key features include:

- **Product Type:** C32 Miniature Circuit Breaker
- **Material:** Plastic, Electric Components
- **Rated Current:** 32A
- **Rated Voltage:** AC 230V / 400V
- **Rated Circuit Breaking Capacity:** 6000A
- **Frequency:** 50Hz

- **Number of Poles:** 1
- **Mounting Type:** DIN Rail



Image showing the Aexit DZ47-63 C32 Miniature Circuit Breaker, a compact device with a single pole, typically white or light gray, featuring a toggle switch for operation.

4. INSTALLATION AND SETUP

The Aexit DZ47-63 C32 Miniature Circuit Breaker is designed for DIN rail mounting. Follow these steps for proper installation:

1. **Disconnect Power:** Ensure the main power supply to the circuit is completely disconnected at the source before beginning installation. Verify with a voltage tester.
2. **Mounting:** Securely mount the circuit breaker onto a standard 35mm DIN rail within the electrical distribution box. Ensure it clicks firmly into place.
3. **Wiring Connections:**
 - Connect the incoming live wire to the top terminal of the circuit breaker.
 - Connect the outgoing live wire (to the load) to the bottom terminal of the circuit breaker.
 - Ensure all wire connections are tight and secure to prevent loose contacts and overheating.
4. **Verification:** Double-check all connections for correctness and security. Ensure no bare wires are exposed.
5. **Restore Power:** Once installation is complete and verified, carefully restore the main power supply.

Important Note for US Customers: This device operates at AC 230V/400V. A suitable voltage transformer (not included) is necessary for compatibility with standard US electrical systems (typically 120V/240V).

5. OPERATION

The circuit breaker features a simple toggle switch for manual operation and automatic tripping:

- **To Turn On:** Push the toggle switch to the 'ON' (upward) position. This connects power to the circuit.
- **To Turn Off:** Push the toggle switch to the 'OFF' (downward) position. This disconnects power from the circuit.
- **Automatic Tripping:** In the event of an overload or short circuit, the breaker will automatically trip to the 'OFF' position, interrupting the power supply to protect the circuit and connected devices.
- **To Reset a Tripped Breaker:** First, identify and resolve the cause of the overload or short circuit. Then, push the toggle switch fully to the 'OFF' position before pushing it back to 'ON'. If the breaker trips immediately again, do not force it; there is still an issue in the circuit that needs to be addressed.

6. MAINTENANCE

The Aexit DZ47-63 C32 Miniature Circuit Breaker requires minimal maintenance. Adhere to the following guidelines:

- **Regular Inspection:** Periodically inspect the circuit breaker for any signs of physical damage, such as cracks, discoloration, or burn marks. Check for loose wire connections.
- **Cleaning:** Keep the area around the circuit breaker clean and free from dust and debris to ensure proper ventilation and prevent obstruction of the operating mechanism. Use a dry cloth for cleaning.
- **Replacement:** Do not attempt to repair a damaged or malfunctioning circuit breaker. For safety, replace it with a new one of the exact same specifications.

7. TROUBLESHOOTING

Refer to the following table for common issues and their potential solutions:

Problem	Possible Cause	Solution
Breaker trips frequently	Overload on the circuit	Reduce the load by unplugging some devices or redistributing them to other circuits.
	Short circuit	Inspect wiring and connected devices for faults. Consult a qualified electrician if the issue persists.
Breaker does not reset	Persistent overload or short circuit	Ensure the cause of the trip has been resolved before attempting to reset. If it still doesn't reset, the breaker itself might be faulty and needs replacement.
No power to circuit	Breaker is in the 'OFF' position or has tripped	Check the breaker position and reset if necessary. Verify main power supply to the distribution box.

8. SPECIFICATIONS

Detailed technical specifications for the Aexit DZ47-63 C32 Miniature Circuit Breaker:

Specification	Value
Manufacturer	Aexit
Model Number	DZ47-63 C32
Internal Part Number	f190413ae001151
Material	Plastic
Rated Voltage	AC 230V / 400V
Rated Current	32A
Rated Circuit Breaking Capacity	6000A

Specification	Value
Frequency	50Hz
Number of Poles	1
Mounting Type	DIN Rail
Total Size (Approx.)	7.7 x 7.3 x 1.8 cm / 3" x 2.9" x 0.71" (L x W x T)
Weight	89g
Horsepower	0.03 Horsepower <i>(Note: This specification is unusual for a circuit breaker and may refer to a related application.)</i>
Sound Level	0.03 Decibels <i>(Note: This specification is unusual for a circuit breaker.)</i>

9. WARRANTY AND SUPPORT

For technical support, warranty inquiries, or further assistance, please contact your retailer or the manufacturer directly. It is recommended to keep your purchase receipt for any warranty claims.

Manufacturer: Aexit