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Schneider Electric C1035E100

Schneider Electric NSX100 AC 3P3D 100A 5.2E Trip Unit User Manual

Model: C1035E100
Brand: Schneider Electric

1. PRODUCT OVERVIEW

The Schneider Electric NSX100 AC 3P3D 100A 5.2E Trip Unit is an advanced electronic trip unit designed for use with compact NSX 100/160/250 circuit breakers. This 100A rated unit provides comprehensive protection for various standard and specific electrical applications. It is a critical component in ensuring the safety and reliability of electrical installations.

Key Features:

- A 3 poles 3D electronic trip unit used on compact NSX 100/160/250 circuit breakers.
- An optimum choice for all standard and specific applications.
- It embeds an adjustable long time protection against overloads.
- It provides also an adjustable short-time protection.
- A fixed instantaneous protection against short-circuits.

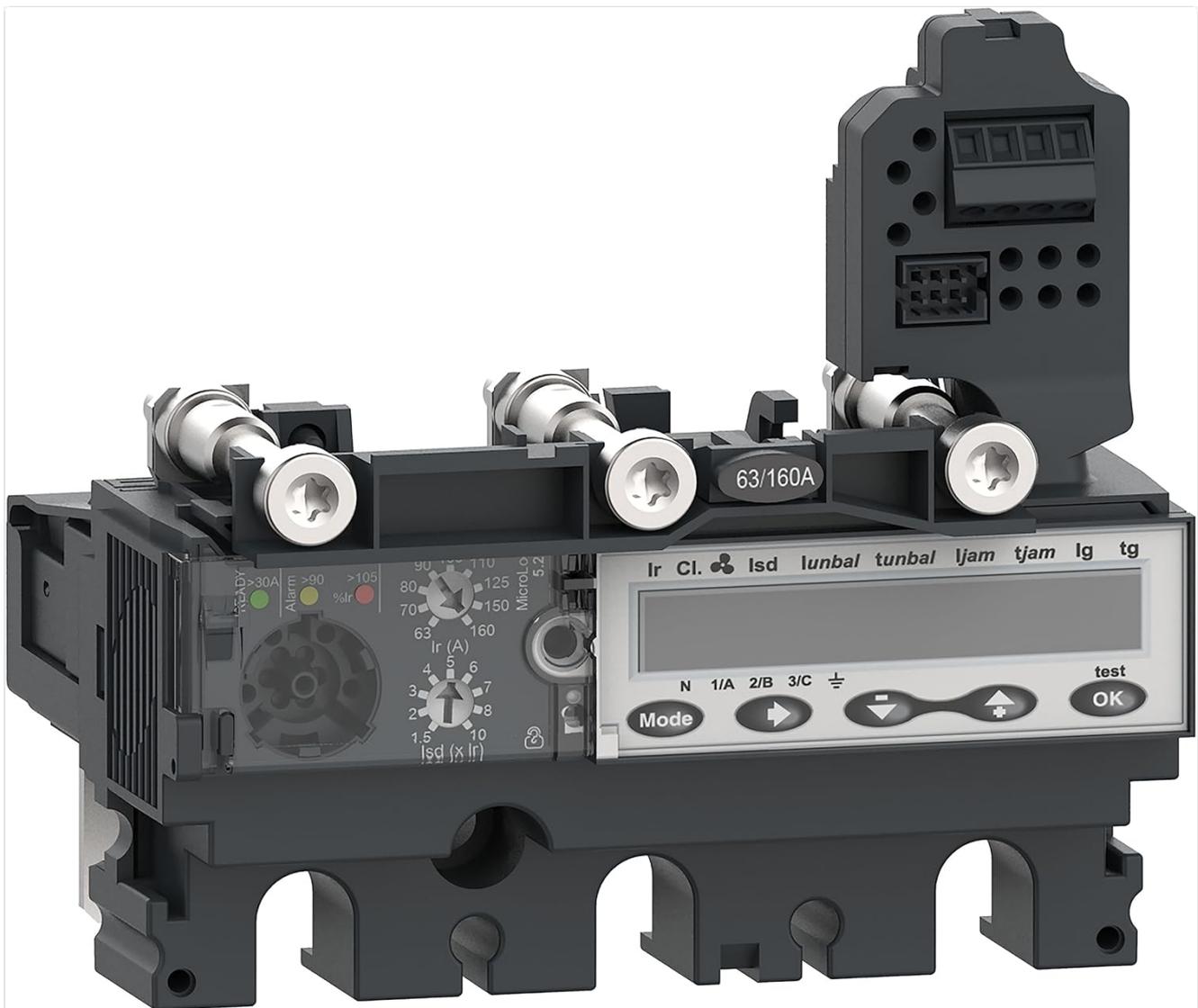


Figure 1: Front view of the Schneider Electric NSX100 AC 3P3D 100A 5.2E Trip Unit, showing the display, adjustment dials, and connection points.

2. SAFETY INFORMATION

Always adhere to local and national electrical codes and regulations when installing or servicing this device. Installation and maintenance should only be performed by qualified and authorized personnel. Failure to follow these instructions can result in serious injury or death.

- Disconnect all power sources before working on the circuit breaker or trip unit.
- Use appropriate personal protective equipment (PPE).
- Verify proper wiring and connections before re-energizing the system.
- Do not operate the device if it appears damaged.

3. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged:

- 1 x Schneider Electric NSX100 AC 3P3D 100A 5.2E Trip Unit, Black

If any items are missing or damaged, please contact your supplier or Schneider Electric customer support immediately.

4. SETUP AND INSTALLATION

The NSX100 Trip Unit is designed for integration with compatible Compact NSX circuit breakers. Installation must be performed by a qualified electrician in accordance with all applicable electrical standards and the circuit breaker's specific installation manual.

1. **Preparation:** Ensure the circuit breaker is de-energized and locked out. Verify the trip unit's compatibility with the specific circuit breaker frame.
2. **Mounting:** Carefully align the trip unit with the designated slot on the Compact NSX circuit breaker. Ensure it clicks securely into place. Refer to the circuit breaker's manual for detailed mounting instructions.
3. **Connections:** Connect any necessary auxiliary wiring (e.g., for communication or external indicators) as per the wiring diagrams provided with the circuit breaker or trip unit.
4. **Verification:** After installation, visually inspect all connections and ensure the trip unit is firmly seated.

For detailed wiring diagrams and specific installation procedures, refer to the comprehensive documentation provided with your Compact NSX circuit breaker.

5. OPERATING INSTRUCTIONS

The MicroLogic 5.2E trip unit provides advanced protection and indication features:

Protection Settings:

- **Long Time Protection (I_r):** This adjustable setting protects against overloads. It can be set to a specific current value (I_r) to define the maximum continuous current the circuit can safely carry.
- **Short-Time Protection (I_{sd}):** This adjustable setting provides protection against short-circuits with a delayed trip. It allows for coordination with downstream protective devices.
- **Instantaneous Protection (I_i):** This fixed setting provides immediate tripping for severe short-circuits, offering rapid protection against high fault currents.

LED Indicators:

- **Green "READY" LED:** This LED flashes to indicate that the circuit breaker is ready to trip, signifying normal operational status.
- **Alarm LEDs:** The trip unit indicates overloads with specific alarm LEDs, providing visual alerts for abnormal current conditions.

Refer to the markings on the trip unit and the circuit breaker manual for precise adjustment procedures and interpretation of indicators.

6. MAINTENANCE

The Schneider Electric NSX100 Trip Unit is designed for durability and minimal maintenance. However, regular inspections are recommended to ensure optimal performance and safety.

- **Visual Inspection:** Periodically inspect the trip unit and its connections for any signs of physical damage, discoloration, or loose connections.
- **Cleaning:** If necessary, gently clean the exterior of the unit with a dry, soft cloth. Do not use abrasive cleaners or solvents.
- **Functional Testing:** Consult a qualified electrician for periodic functional testing of the trip unit's protection features, as recommended by industry standards or local regulations.

Always de-energize the circuit before performing any maintenance or inspection.

7. TROUBLESHOOTING

This section provides general guidance for common issues. For complex problems, always consult a qualified electrician or Schneider Electric technical support.

Problem	Possible Cause	Solution
Trip unit not responding / No LEDs	No power to the circuit breaker; Incorrect installation; Internal fault.	Verify power supply to the circuit breaker. Check trip unit installation and connections. If problem persists, contact support.
Frequent tripping	Overload condition; Short-circuit; Incorrect protection settings; Faulty equipment.	Investigate the cause of the overload or short-circuit in the circuit. Verify protection settings are appropriate for the load. Consult an electrician to diagnose faulty equipment.
Alarm LED active	Overload condition detected.	Reduce the load on the circuit. Investigate the cause of the overload.

8. TECHNICAL SPECIFICATIONS

Specification	Value
Manufacturer	Schneider Electric
Part Number	3606481999672
Item Weight	600 g
Product Dimensions (L x W x H)	15 x 12 x 10 cm
Item Model Number	C1035E100
Color	Black
Material	Plastic
Item Package Quantity	1
Included Components	1 x Schneider Electric NSX100 AC 3P3D 100A 5.2E Trip Unit, Black
Batteries Required?	No
ASIN	B0BCWLP4K5
Date First Available	29 April 2023
Unit Count	1 Count

9. WARRANTY AND SUPPORT

For information regarding product warranty, technical support, or service, please contact Schneider Electric directly or visit their official website. Keep your purchase receipt and product model number handy for faster assistance.

Schneider Electric Official Website: www.se.com

Warranty terms and conditions may vary by region. Please refer to the official Schneider Electric warranty policy for detailed information.