

## Legrand prot.dx3 indust.

# Legrand DX3 Miniature Circuit Breaker (prot.dx3 indust.) 1-Pole 6A Instruction Manual

Model: prot.dx3 indust. | Brand: Legrand

## 1. INTRODUCTION

This instruction manual provides essential information for the safe and effective installation, operation, and maintenance of your Legrand DX3 Miniature Circuit Breaker. This device is designed to protect electrical circuits from overcurrents, which can result from overload or short circuit. Please read this manual thoroughly before installation or use and retain it for future reference.

## 2. SAFETY INFORMATION

**WARNING:** Electrical work should only be performed by qualified and licensed professionals. Failure to follow these instructions can result in electric shock, fire, serious injury, or death.

- Always disconnect power at the main service panel before installing or servicing the circuit breaker.
- Verify that the voltage and current ratings of the circuit breaker match the requirements of your electrical system.
- Do not use the circuit breaker if it appears damaged.
- Ensure all connections are tight and secure to prevent overheating.
- Adhere to all local and national electrical codes and regulations.

## 3. PRODUCT OVERVIEW

The Legrand DX3 Miniature Circuit Breaker is a single-pole thermal-magnetic device designed for DIN rail mounting. It provides protection against both overloads and short circuits in residential, commercial, and industrial applications. The 'C' curve indicates its tripping characteristics, suitable for general purpose applications with moderate inrush currents.



**Image 1:** Front view of the Legrand DX3 Miniature Circuit Breaker. This image displays the main body of the circuit breaker, including the toggle switch for operation, the 'DX3 C6' rating label, and the Legrand brand logo. The top and bottom terminals for wire connections are also visible.

#### Key Features:

- **Curve C:** Provides thermal-magnetic protection suitable for general applications.
- **Rated Current:** 6 Amperes.
- **Number of Poles:** 1.
- **Mounting Type:** DIN Rail Mount.
- **Breaking Capacity:** 10/16kA (kiloamperes).

## 4. SETUP AND INSTALLATION

Installation must be performed by a qualified electrician in accordance with all applicable electrical codes.

1. **Power Disconnection:** Ensure the main power supply to the electrical panel is completely disconnected and locked out before beginning any work. Verify with a voltage tester.
2. **Mounting:** Clip the circuit breaker onto the DIN rail in the electrical panel. Ensure it is securely seated.
3. **Wiring - Line Connection:** Connect the incoming phase (line) wire to the top terminal of the circuit breaker. Strip the wire insulation to the recommended length (typically 10-12mm), insert it fully into the terminal, and tighten the screw firmly.
4. **Wiring - Load Connection:** Connect the outgoing phase (load) wire to the bottom terminal of the circuit breaker. Strip the wire insulation, insert it fully, and tighten the screw firmly.
5. **Verification:** Double-check all connections for tightness and correct polarity. Ensure no bare wires are exposed.
6. **Panel Closure:** Close the electrical panel cover securely.
7. **Power Restoration:** Restore power to the main service panel.

## 5. OPERATING INSTRUCTIONS

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The Legrand DX3 circuit breaker features a simple toggle switch for operation.

- **To Turn ON:** Push the toggle switch upwards to the 'ON' position.
- **To Turn OFF:** Push the toggle switch downwards to the 'OFF' position.
- **Tripped State:** If an overload or short circuit occurs, the circuit breaker will automatically trip, moving the toggle switch to an intermediate or 'TRIPPED' position (often indicated by a red marker).
- **Resetting a Tripped Breaker:** To reset a tripped breaker, first move the toggle switch fully to the 'OFF' position, then push it upwards to the 'ON' position. If the breaker immediately trips again, do not attempt to reset it repeatedly. Investigate the cause of the trip.

## 6. MAINTENANCE

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The Legrand DX3 Miniature Circuit Breaker requires minimal maintenance. Regular inspections are recommended to ensure proper function.

- **Periodic Visual Inspection:** Annually, or as required by local codes, visually inspect the circuit breaker for any signs of damage, discoloration, or loose connections.
- **Cleaning:** If necessary, gently clean the exterior of the circuit breaker with a dry, soft cloth. Do not use liquids or abrasive cleaners.
- **Testing:** While not typically required for residential circuit breakers, some industrial applications may require periodic functional testing. Consult relevant standards or a qualified electrician.

## 7. TROUBLESHOOTING

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

- **Breaker Trips Immediately After Reset:** This indicates a persistent fault, likely a short circuit or severe overload. Immediately disconnect all loads from the circuit and consult a qualified electrician to identify and rectify the fault.

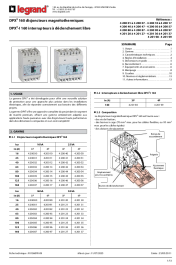
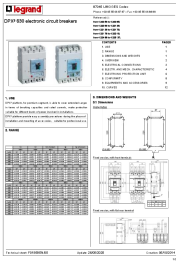

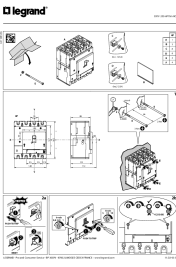
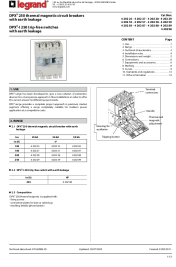

- **Breaker Trips Intermittently:** This could be due to an intermittent short circuit, an overloaded circuit (too many devices drawing power), or a faulty appliance. Try reducing the load on the circuit or isolating faulty appliances.
- **Breaker Does Not Trip During a Fault:** This is a serious safety concern. If you suspect the breaker is not providing protection, immediately disconnect power to the circuit and have the breaker inspected and replaced by a qualified electrician.
- **Overheating:** If the breaker or surrounding area feels hot, it could indicate loose connections, an overloaded circuit, or an internal fault. Disconnect power and seek professional assistance.

## 8. SPECIFICATIONS

Specification	Value
Brand	Legrand
Model Number	prot.dx3 indust.
Current Rating	6 Amps
Circuit Breaker Type	Standard, Thermal Magnetic
Mounting Type	DIN Rail Mount
Number Of Poles	1
Voltage	240 Volts
Curve Type	C
Breaking Capacity	10/16kA
Item Weight	3.52 ounces
Product Dimensions	3.98 x 3.07 x 3.5 inches

## 9. WARRANTY AND SUPPORT

For specific warranty information and technical support, please refer to the official Legrand website or contact Legrand customer service directly. Keep your purchase receipt as proof of purchase.

	<p><a href="#">Legrand DPX³ 160 Magnetic Thermal Circuit Breakers and Free Release Miniature Circuit Breakers</a></p> <p>Technical datasheet for Legrand DPX³ 160 magnetic thermal circuit breakers and DPX³-I 160 free release miniature circuit breakers, covering technical specifications, installation guidelines, dimensions, accessories, and standards compliance.</p>
	<p><a href="#">Legrand DPX3 630 Electronic Circuit Breakers - Technical Specification and Data Sheet</a></p> <p>Comprehensive technical specification for Legrand DPX3 630 electronic circuit breakers. This document details product features, range, dimensions, weights, electrical and mechanical characteristics, electronic protection unit settings, conformity standards, available equipment and accessories, and tripping curves for various versions.</p>
	<p><a href="#">Legrand DPX³ 160 Thermal Magnetic Circuit Breakers with Earth Leakage - Technical Data</a></p> <p>Comprehensive technical data sheet for Legrand DPX³ 160 thermal magnetic circuit breakers and DPX³-I 160 trip-free switches with earth leakage, covering specifications, installation, dimensions, and performance curves.</p>
	<p><a href="#">Legrand DPX3 250 HP TM+RCD: Installation, Operation, and Safety Manual</a></p> <p>Comprehensive guide for installing, testing, and operating the Legrand DPX3 250 HP TM+RCD circuit breaker with integrated residual current device (RCD). Includes technical specifications, settings, and safety instructions.</p>
	<p><a href="#">Legrand DPX³ 250 Thermal Magnetic Circuit Breakers with Earth Leakage - Technical Data</a></p> <p>Comprehensive technical data for Legrand DPX³ 250 thermal magnetic circuit breakers and DPX³-I 250 trip-free switches with earth leakage, covering specifications, installation rules, dimensions, accessories, and tripping curves.</p>
	<p><a href="#">Legrand Technical Guide: Coordination of Protection Devices</a></p> <p>A comprehensive technical guide from Legrand detailing the principles and methods for coordinating electrical protection devices, including selectivity and filiation, in compliance with NF C 15-100 standards.</p>