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Schneider Electric 2510MBG1

Schneider Electric 2510MBG1 230-Vac Manual Starter Instruction Manual

Model: 2510MBG1

INTRODUCTION

This manual provides essential instructions for the safe and effective installation, operation, and maintenance of the Schneider Electric 2510MBG1 230-Vac Manual Starter. Please read this manual thoroughly before attempting to install or operate the device. Retain this manual for future reference.

SAFETY INFORMATION

WARNING: This device operates with high voltage. Installation and servicing should only be performed by qualified personnel to prevent electric shock, injury, or death. Always disconnect power before working on the device. Follow all local and national electrical codes.

CAUTION: Ensure the correct thermal unit is installed for the application to prevent motor damage or fire hazards.

SETUP AND INSTALLATION

The Schneider Electric 2510MBG1 Manual Starter is designed for controlling AC motors. Proper installation is crucial for safe and reliable operation.

Requirements:

- **Enclosure:** This starter requires a NEMA 1 enclosure for protection.
- **Thermal Unit:** The starter requires **1 Type B Thermal Unit** (sold separately) for overload protection. Ensure the thermal unit rating matches the motor's full load current.
- **Fuse Link:** Note that this unit may require a separate fuse link for proper operation, which is not included.

Mounting:

Mount the starter securely within the NEMA 1 enclosure in a location that allows for adequate ventilation and easy access for operation and maintenance. Use appropriate fasteners for the mounting surface.

Wiring:

Connect the incoming power supply and motor leads to the designated terminals on the starter. Refer to the wiring diagram provided with the thermal unit or on the starter itself for specific connections. Ensure all connections are

tight and secure. Verify correct voltage (230-Vac) before connecting power.



Figure 1: Schneider Electric 2510MBG1 Manual Starter packaging. The label indicates model 2510MBG1, that it is an AC Manual Starter, requires a NEMA 1 Enclosure, and 1 Type B Thermal Unit. The UPC is 0785901792529.

OPERATING INSTRUCTIONS

The 2510MBG1 Manual Starter provides simple ON/OFF control for your motor.

1. **To Start the Motor:** Push the "ON" button or move the lever to the "ON" position. The starter will engage, supplying power to the motor.
2. **To Stop the Motor:** Push the "OFF" button or move the lever to the "OFF" position. The starter will disengage, cutting power to the motor.
3. **Overload Protection:** In case of an overload condition, the installed Type B Thermal Unit will trip, automatically stopping the motor to prevent damage. Allow the thermal unit to cool before attempting to reset and restart. Investigate the cause of the overload before restarting.

MAINTENANCE

Regular maintenance ensures the longevity and safe operation of your manual starter.

- **Periodic Inspection:** Annually inspect the starter for any signs of wear, damage, or loose connections. Check for discoloration or burning smells, which may indicate overheating.
- **Cleaning:** Keep the starter and its enclosure clean and free from dust, dirt, and moisture. Use a dry, lint-free cloth for cleaning. Do not use solvents or abrasive cleaners.
- **Connection Checks:** Periodically verify that all electrical connections are tight. Loose connections can lead to overheating and poor performance.

TROUBLESHOOTING

If the manual starter is not functioning as expected, consider the following common issues:

- **Motor Does Not Start:**
 - Check if the power supply is active.
 - Verify all wiring connections are secure.
 - Ensure the thermal unit is not tripped. If tripped, allow it to cool and reset.
 - Confirm that the required fuse link (if applicable to your setup) is present and intact.
 - Inspect the motor for any faults.
- **Starter Trips Frequently:**
 - An overload condition is likely. Check the motor for excessive load, mechanical binding, or short circuits.
 - Verify the thermal unit rating matches the motor's full load current. An undersized thermal unit will trip prematurely.
 - Check for voltage fluctuations.
- **Unusual Noise or Smell:**
 - Immediately disconnect power. This could indicate a serious electrical fault or overheating.
 - Inspect for loose connections, damaged insulation, or foreign objects.

If troubleshooting steps do not resolve the issue, contact a qualified electrician or Schneider Electric customer support.

SPECIFICATIONS

Model Number:	2510MBG1
Brand:	Schneider Electric
Voltage Rating:	230-Vac
Enclosure Type:	NEMA 1 (Requires separate enclosure)
Required Component:	1 Type B Thermal Unit (sold separately)
Material:	Copper
Certifications:	CSA/NEMA/UL
Item Weight:	4.16 pounds

Product Dimensions:	9.1 x 5.6 x 4.5 inches
Package Quantity:	1

WARRANTY INFORMATION

According to product specifications, there is **No Warranty** provided for the Schneider Electric 2510MBG1 Manual Starter. Please refer to your point of purchase for any return or exchange policies.

CUSTOMER SUPPORT

For technical assistance, further information, or inquiries regarding the Schneider Electric 2510MBG1 Manual Starter, please contact Schneider Electric customer support or visit their official website. Always provide the model number (2510MBG1) when seeking support.