Lewmar 68000318

Lewmar Dual Contactor 12V (SF) Instruction Manual

Model: 68000318

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1. Introduction

This manual provides essential information for the proper installation, operation, and maintenance of the Lewmar Dual Contactor 12V (SF). This unit is designed as a replacement solenoid for various Lewmar vertical windlass installations, including V1/CPX1, V2/CPX2, V3/CPX3, and VS models. It controls the up and down direction of the windlass motor. Please read this manual thoroughly before installation and operation to ensure safe and efficient use of the product.

2. Product Overview

The Lewmar Dual Contactor 12V (SF) is a critical component in your windlass system, enabling directional control of the anchor. Its sealed design ensures durability in marine environments.



Image: The Lewmar Dual Contactor 12V (SF) unit, featuring its black housing, red sealing ring, and prominent copper terminals for electrical connections. Two smaller screw terminals are visible on the side for control wiring.

Key Features:

- **Compatibility:** Specifically designed for V1, V2, V3, and V5 Lewmar windlasses.
- **Function:** Replacement solenoid for existing systems.
- **Directional Control:** Facilitates dual-direction operation (up and down) of the windlass.
- **Voltage:** Operates on a 12V DC electrical system.

3. Setup and Installation

Installation of electrical components should only be performed by a qualified marine electrician or technician to ensure safety and proper functionality. Incorrect wiring can lead to system failure, damage, or personal injury.

Safety Precautions:

- Always disconnect the vessel's battery bank before beginning any electrical work.
- Ensure all connections are clean, secure, and properly insulated.
- Verify correct polarity before applying power.

Installation Steps:

1. **Mounting:** Select a dry, protected location for mounting the contactor, away from direct water spray or excessive heat. Use the integrated mounting bracket for secure attachment. The mounting type is DIN Rail Mount.
2. **Power Connections:** Connect the main power cables from the battery and to the windlass motor to the large terminals on the contactor. Ensure these connections are tight and corrosion-free.
3. **Control Connections:** Connect the control wires from your windlass switch (e.g., foot switches, helm switch) to the smaller terminals on the contactor. Refer to your specific windlass model's wiring diagram for precise connections.
4. **Verification:** Double-check all wiring against the windlass system's electrical diagram.
5. **Testing:** Reconnect the battery and perform a functional test of the windlass, ensuring both up and down directions operate correctly.

4. Operating Instructions

The Lewmar Dual Contactor acts as an electrical switch, enabling the windlass motor to operate in forward (up) and reverse (down) directions based on input from your control switches. Operation is automatic once the control signal is received.

- To operate the windlass in the 'up' direction, activate the corresponding 'up' control switch.
- To operate the windlass in the 'down' direction, activate the corresponding 'down' control switch.
- Release the switch to stop the windlass.

Always ensure the anchor is clear of obstructions and that the chain/rode is properly stowed before and after use.

5. Maintenance

Regular maintenance ensures the longevity and reliable performance of your Lewmar Dual Contactor.

- **Periodic Inspection:** Annually inspect the contactor and all associated wiring for signs of corrosion, wear, or damage.
- **Connection Check:** Verify that all electrical connections remain tight and secure. Loose connections can cause overheating and poor performance.
- **Cleaning:** Keep the exterior of the contactor clean and free from dirt, salt residue, and moisture. Use a damp cloth for cleaning; avoid harsh chemicals.
- **Environmental Protection:** While sealed, ensure the mounting location minimizes exposure to extreme elements.

6. Troubleshooting

If you experience issues with your windlass system, consider the following common troubleshooting steps related to the contactor:

Symptom	Possible Cause	Solution
Windlass does not operate in either direction.	No power to contactor; faulty control switch; main circuit breaker tripped; corroded main power connections.	Check battery voltage; inspect main circuit breaker; verify control switch functionality; clean and secure all main power connections.
Windlass operates in one direction only.	Faulty control switch for the non-operating direction; issue with one side of the contactor.	Test control switches; inspect control wiring to the contactor; if issues persist, the contactor may need replacement.
Contactor clicks but windlass does not operate.	Low battery voltage; poor main power connections; motor issue.	Charge batteries; clean and tighten main power connections; consult a marine technician for motor diagnosis.

If troubleshooting steps do not resolve the issue, it is recommended to consult a qualified marine electrician.

7. Specifications

Specification	Detail
Model Name	Solenoid-Windls 12V Dual
Part Number	68000318
Coil Voltage	12 Volts DC
Maximum Switching Voltage	12 Volts

Specification	Detail
Minimum Switching Voltage	12 Volts
Operation Mode	Automatic
Connector Type	Screw
Contact Material	Silver
Contact Type	Normally Open
Mounting Type	DIN Rail Mount
Color	Black
Material	Other
Item Package Dimensions (L x W x H)	4.96 x 4.49 x 3.31 inches
Package Weight	1 Kilogram
UPC	743683305085

8. Warranty Information

The Lewmar Dual Contactor 12V (SF) comes with a**1 Year Manufacturer Warranty**. This warranty covers defects in materials and workmanship under normal use. Please retain your proof of purchase for warranty claims.
For full warranty terms and conditions, please refer to the official Lewmar website or contact Lewmar customer support.

9. Support

For technical assistance, spare parts, or further inquiries regarding your Lewmar Dual Contactor, please contact Lewmar customer support or visit their official website.
Lewmar Official Website: www.lewmar.com
You can also visit the Lewmar store on Amazon for product information:Lewmar Amazon Store

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