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› SE-E1 34701701 34701710 Compressor Protector Screw Machine Motor Protection Module(347017-01 KRIWAN)

NuNeth SE-E1 347017-01 KRIWAN

User Manual for SE-E1 Protection Module

Model: 347017-01 KRIWAN | Brand: NuNeth

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the SE-E1 Protection Module. Please read this manual thoroughly before installation, operation, or maintenance to ensure proper functionality and to prevent damage or injury.

The SE-E1 Protection Module is designed for motor protection in compressor screw machines, specifically Bitzer Part-No. 347017-10.

2. SAFETY INFORMATION

WARNING: Electrical shock hazard. Installation and maintenance should only be performed by qualified personnel. Disconnect power before servicing.

- Ensure all local and national electrical codes are followed during installation.
- Verify the supply voltage matches the module's specifications (115-230V~ 50-60Hz).
- Do not operate the module outside its specified temperature range (-30°C to +70°C).
- Protect the module from moisture, dust, and corrosive environments.
- Use appropriate personal protective equipment (PPE) when working with electrical systems.

3. PRODUCT OVERVIEW

The SE-E1 Protection Module is a compact electronic device designed to protect compressor motors. It features multiple terminals for power supply, sensor inputs, and relay outputs for control.



Figure 3.1: SE-E1 Protection Module

An image showing the SE-E1 Protection Module, a black rectangular device with multiple screw terminals at the top for electrical connections. Wires with crimped terminals are connected to some of these screws. The front label displays product details such as 'SE-E1 Protection Module', 'Bitzer Part-No. 347017-10', supply voltage, operating temperature range, relay specifications, power requirements, and certifications (CE, UKCA, cURus). The label also indicates 'Made in Germany'.

Key Features:

- Wide supply voltage range: 115-230V~ 50-60Hz
- Operating temperature range: -30°C to +70°C
- Relay output: 240V~ 2.5A C300
- Power supply for 3-phase systems: 200-632V 50-60Hz
- Certifications: CE, UKCA, cURus
- Manufactured in Germany

4. SETUP AND INSTALLATION

Before beginning installation, ensure the main power supply to the compressor system is disconnected and locked out.

Wiring Diagram (Refer to Product Label):

The module's label provides a clear wiring diagram. Below is a textual representation of the connections:

- **Supply (115-230V~):** Connect to terminals labeled **L** and **N**.
- **Sensor Inputs:** Connect to terminals labeled **1, 2, 12, 14, 11**. These are typically for PTC thermistors or other protective sensors.
- **Power (3-phase 200-632V):** Connect to terminals labeled **L1, L2, L3**.
- **Relay Output:** The relay contacts are rated for 240V~ 2.5A C300. These are typically used for control circuits, e.g., to shut down the compressor in case of a fault.

Securely fasten all wire connections to the screw terminals. Ensure proper wire gauge is used for the current and voltage requirements.

5. OPERATING INSTRUCTIONS

Once installed and wired correctly, the SE-E1 Protection Module operates automatically to monitor the compressor motor. It continuously evaluates sensor inputs and the power supply to detect abnormal conditions.

Normal Operation:

Under normal operating conditions, the module's internal relay will remain in its energized state, allowing the compressor to run. There may be an indicator light (not explicitly mentioned on the label, but common for such modules) to show operational status.

Fault Condition:

If a fault is detected (e.g., motor overheating via PTC sensors, or power supply issues), the module will de-energize its relay, interrupting the control circuit and shutting down the compressor. This protective action prevents damage to the motor.

After a fault, the module typically requires the fault condition to be cleared and may require a power cycle or a manual reset (if a reset button is present, which is not indicated on the label) to resume normal operation.

6. MAINTENANCE

The SE-E1 Protection Module is designed for reliable, long-term operation with minimal maintenance. However, periodic checks are recommended:

- **Visual Inspection:** Periodically inspect the module and its wiring for any signs of physical damage, loose connections, or corrosion.
- **Environmental Check:** Ensure the operating environment remains within the specified temperature and humidity limits.
- **Terminal Tightness:** Check that all screw terminals are securely tightened to prevent intermittent connections or arcing.
- **Cleaning:** If necessary, gently clean the module's exterior with a dry, soft cloth. Do not use solvents or abrasive cleaners.

No internal user-serviceable parts. Do not attempt to open or repair the module.

7. TROUBLESHOOTING

If the compressor system is not operating as expected and the SE-E1 Protection Module is suspected, consider the

following:

Problem	Possible Cause	Solution
Compressor does not start or stops unexpectedly.	Module in fault state (relay de-energized).	Check for motor overheating (PTC sensor), power supply issues (L1, L2, L3), or other sensor faults. Address the root cause of the fault.
Module appears inactive.	No power to the module.	Verify supply voltage (115-230V~) is present at L and N terminals. Check fuses or circuit breakers.
Intermittent operation.	Loose wiring connections.	Inspect and re-tighten all screw terminals.

If troubleshooting steps do not resolve the issue, contact qualified service personnel or the manufacturer for assistance.

8. SPECIFICATIONS

Parameter	Value
Product Name	SE-E1 Protection Module
Bitzer Part Number	347017-10
Supply Voltage	115-230V~ 50-60Hz 3VA
Operating Temperature Range	-30°C to +70°C
Relay Output	240V~ 2.5A C300
Power Supply (3-phase)	200-632V 50-60Hz
Dimensions (L x W x H)	Approx. 1.18 x 0.79 x 0.39 inches
Weight	Approx. 4.41 Pounds
Certifications	CE, UKCA, cURus
Country of Origin	Germany

9. WARRANTY AND SUPPORT

For warranty information and technical support, please contact the manufacturer, NuNeth, or your authorized distributor. Keep your purchase receipt and product model number (347017-01 KRIWAN) readily available when seeking support. Refer to the official NuNeth website or product packaging for the most current warranty terms and contact details.