

Dioche 3P+E 63A 380-415V

Dioche 4-Pin Industrial Power Connector User Manual

Model: 3P+E 63A 380-415V

1. INTRODUCTION

This manual provides essential information for the safe and effective use of the Dioche 4-Pin Industrial Power Connector. This robust connector is designed for demanding industrial environments, offering reliable 3-phase, 4-wire power connections with an IP67 waterproof rating. Please read this manual thoroughly before installation and operation to ensure proper function and safety.

2. SAFETY INFORMATION

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

- Always disconnect power before installing, servicing, or removing the connector.
- Ensure the voltage and current ratings of the connector match the electrical system. Using incorrect voltages may cause fire and product damage.
- Verify proper grounding (3P+E configuration) to prevent electrical hazards.
- Do not use the connector if it appears damaged or compromised.
- Ensure all connections are tight and secure to prevent loosening and potential arcing.
- The IP67 rating ensures protection against dust and temporary immersion in water. However, avoid prolonged submersion or high-pressure water jets.



Image: An industrial setting with a safety padlock on equipment, emphasizing the importance of safety procedures like lockout/tagout before working with electrical components.

3. PRODUCT SPECIFICATIONS

| Specification | Value |
|--------------------|---------------------------|
| Item Type | Industrial Connector |
| Material | PA66, Rubber, Brass |
| Working Voltage | 380-415V |
| Rated Current | 63A |
| Phase | 3P+E (3 Phase + Earth) |
| Protection Level | IP67 |
| Grounding Position | 6h |
| Package Dimensions | 9.06 x 5.51 x 5.12 inches |
| Item Weight | 1.46 pounds |



NICKEL-PLATED BRASS CONTACTS HAVE EXCELLENT ELECTRICAL PROPERTIES.

Image: A close-up view of the connector's internal structure, showing the four nickel-plated brass contacts for 3-phase and earth connections.

4. SETUP AND INSTALLATION

Follow these steps for safe and correct installation of the Dioche Industrial Power Connector:

1. **Power Disconnection:** Ensure all power to the circuit where the connector will be installed is completely disconnected and locked out according to safety protocols.
2. **Cable Preparation:** Strip the outer insulation of the power cable to the appropriate length, exposing the individual insulated wires. Strip the insulation from the ends of the individual wires to allow for proper contact with the connector terminals.
3. **Wire Connection:** Open the connector housing. Carefully insert each wire into its corresponding terminal. The connector is a 3P+E type, meaning there are three phase wires and one earth wire. Ensure correct phase sequence and secure the earth wire to the designated earth terminal.

4. **Tighten Connections:** Use appropriate tools to securely tighten the terminal screws, ensuring a firm electrical connection. Avoid over-tightening, which can damage the terminals.
5. **Seal and Assemble:** Ensure the inner rubber sealing ring is correctly positioned around the wires to provide a waterproof seal. Close the connector housing and tighten the lock ring to ensure a tight insertion and improve protection performance.
6. **Final Check:** Visually inspect the assembled connector for any exposed wires, loose parts, or damage.

WITH LOCK RING AND INNER RUBBER WATERPROOF SEALING RING

ENSURE TIGHT INSERTION AND IMPROVE PROTECTION
PERFORMANCE.



Image: A view of the industrial connector showing the lock ring and inner rubber sealing, crucial for its IP67 waterproof rating and secure connection.

THICKENED PA66 INSULATION SHELL

ENSURES STRONG MECHANICAL PROPERTY, STURDY AND DURABLE.



Image: The industrial connector showcasing its thickened PA66 insulation shell, which provides strong mechanical property and durability.

5. OPERATION

Once properly installed, the Dioche Industrial Power Connector is ready for use:

- **Connection:** Align the male and female parts of the connector, ensuring the keyways match. Push firmly until the connector is fully seated.
- **Locking:** If applicable, engage any locking mechanisms to prevent accidental disconnection.
- **Power Activation:** Restore power to the circuit.
- **Disconnection:** To disconnect, first turn off power to the circuit. Then, disengage any locking mechanisms and pull the connector halves apart. Do not pull by the cable.



Image: An industrial connector shown in a heavy industrial environment, illustrating its intended use in demanding applications.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and safe operation of your industrial connector:

- **Periodic Inspection:** Regularly inspect the connector for any signs of wear, cracks, discoloration, or damage to the housing, pins, or sealing rings.
- **Cleaning:** Keep the connector clean and free from dust, dirt, and moisture. Use a dry, lint-free cloth for cleaning. Do not use abrasive cleaners or solvents.
- **Contact Check:** Ensure the electrical contacts are clean and free from corrosion. If corrosion is present, clean carefully with a suitable electrical contact cleaner (with power disconnected).
- **Sealing Integrity:** Verify that the rubber sealing rings are intact and properly seated to maintain the IP67 rating. Replace if damaged.
- **Storage:** When not in use, store the connector in a clean, dry environment, protected from direct sunlight and extreme temperatures.



Image: The industrial connector positioned against a backdrop of a solar power plant, indicating its suitability for outdoor and renewable energy applications.

7. TROUBLESHOOTING

If you encounter issues with your Dioche Industrial Power Connector, consider the following:

- **No Power:**
 - Check if the power supply to the circuit is active.
 - Ensure the connector is fully seated and locked.
 - Inspect the cable for damage or loose connections at the terminals.
 - Verify that the voltage and current ratings are appropriate for the load.
- **Intermittent Connection:**
 - Ensure the terminal screws are tight and wires are securely fastened.
 - Check for corrosion or debris on the contacts.
 - Verify the connector halves are fully engaged and not loose.
- **Water Ingress:**
 - Ensure the inner rubber sealing ring is correctly installed and undamaged.
 - Verify the lock ring is fully tightened to compress the seal.
 - Inspect the connector housing for cracks or damage.

If problems persist after troubleshooting, consult a qualified electrician or contact customer support.

8. WARRANTY AND SUPPORT

Dioche products are manufactured to high-quality standards. For warranty information or technical support, please refer to the product packaging or contact your retailer. Keep your purchase receipt as proof of purchase.

For further assistance, please visit the [Dioche Store](#).

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This manual is subject to change without notice.