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Elecbee EB-411-0180-V

Elecbee Industrial Connector Multiple-Outlet Socket User Manual

Model: EB-411-0180-V

1. IMPORTANT SAFETY INFORMATION

Please read all instructions carefully before installation and use. Failure to follow these safety guidelines may result in electric shock, fire, or serious injury.

- **Professional Installation:** Installation and wiring should only be performed by a qualified electrician in accordance with all local and national electrical codes and regulations.
- **Power Disconnection:** Always ensure the power supply is completely disconnected and locked out before performing any installation, wiring, maintenance, or inspection.
- **Voltage and Current:** Verify that the voltage and current ratings of the connector match your power supply and equipment requirements (380V-415V, 16A).
- **Environmental Protection:** This connector has an IP44 rating, providing protection against solid objects larger than 1mm and splashing water from any direction. It is not suitable for immersion in water. Ensure proper sealing during installation to maintain this rating.
- **Damage Inspection:** Do not use the connector if it appears damaged in any way. Inspect for cracks, corrosion, or loose parts before each use.

2. PRODUCT OVERVIEW

The Elecbee Industrial Connector Multiple-Outlet Socket is designed for robust and reliable power distribution in demanding industrial environments. This unit features a 4-pin configuration, rated for 16 Amperes and 380V-415V, with a 3P+E (3 Phase + Earth) setup and a 6h clock position, conforming to the IEC60309-2 international standard. Its IP44 rating ensures protection against dust and splashing water.



Figure 2.1: Front view of the Elecbee Industrial Connector, showing the product label with specifications such as 'KMNDZG TYPE: 1014-2', '16A-6h/380-415V IP44', 'Multiple-outlet Socket', and 'Conform to IEC60309-2'.



Figure 2.2: Angled view of the industrial connector, illustrating its robust construction with all protective caps securely closed.

3. SPECIFICATIONS

Feature	Specification
Model Number	EB-411-0180-V
Number of Positions	4 Pin
Current Rating	16A
Voltage Rating	380V-415V
Poles	3P+E (3 Phase + Earth)
Clock Position	6h
Waterproof Level	IP44
International Standard	IEC60309-2
Package Dimensions	9.84 x 7.87 x 3.94 inches
Item Weight	8.5 ounces
Manufacturer	Elecbee

4. SETUP AND INSTALLATION

This section provides general guidance for the installation of the industrial connector. Always refer to local electrical codes and consult a qualified electrician for proper installation.

- Safety First:** Ensure all power to the installation area is completely shut off and secured against accidental re-energization.
- Prepare Wiring:** Strip the insulation from the power cables according to the connector's terminal block requirements. Ensure sufficient length for secure connections.
- Open Connector:** Carefully open the connector housing to access the internal terminals.
- Wire Connection:** Connect the phase conductors (L1, L2, L3) and the earth conductor (E) to their respective terminals. The 6h clock position indicates the earth pin's orientation. Ensure all connections are tight and secure to prevent loose contacts and overheating.



Figure 4.1: View of the industrial connector with one protective cap open, revealing the internal 4-pin configuration for wiring.

5. **Secure Housing:** Once all wires are correctly connected, reassemble the connector housing, ensuring all seals are properly seated to maintain the IP44 rating.
6. **Final Check:** Before restoring power, double-check all connections and ensure there are no exposed wires or potential short circuits.
7. **Power Restoration:** Carefully restore power and test the connection with appropriate equipment.

5. OPERATION

Once properly installed, operating the Elecbee Industrial Connector is straightforward:

- **Connection:** Align the plug of your compatible industrial equipment with one of the multiple outlets on the socket. Insert the plug firmly until it is fully seated.
- **Disconnection:** To disconnect, firmly grasp the plug and pull it straight out from the socket. Avoid pulling by the cable.
- **Protective Caps:** When not in use, ensure all protective caps on the outlets are securely closed to maintain the IP44 rating and prevent ingress of dust or splashing water.

6. MAINTENANCE

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

- **Periodic Inspection:** Regularly inspect the connector for any signs of physical damage, such as cracks, chips, or deformation. Check for corrosion on metal parts.
- **Cleaning:** Disconnect power before cleaning. Use a dry, clean cloth to wipe down the exterior of the connector. Do not use abrasive cleaners or solvents.

- **Seal Integrity:** Ensure that all rubber seals and protective caps are intact and properly seated to maintain the IP44 rating. Replace if damaged.
- **Connection Check:** Periodically check the tightness of the internal wire connections. If any looseness is detected, disconnect power and re-tighten the terminals.

7. TROUBLESHOOTING

If you encounter issues with your Elecbee Industrial Connector, consider the following troubleshooting steps:

- **No Power to Connected Equipment:**
 - Verify that the main power supply to the connector is active.
 - Check the circuit breaker or fuse for the power circuit.
 - Ensure the plug from the equipment is fully inserted into the connector's outlet.
 - With power disconnected, inspect the internal wiring connections for any looseness or corrosion.
- **Overheating:**
 - Immediately disconnect power.
 - Overheating can indicate loose connections or an overloaded circuit. Ensure the connected equipment does not exceed the 16A current rating.
 - Consult a qualified electrician to inspect the wiring and load.
- **Physical Damage:** If the connector housing or any part is physically damaged, discontinue use immediately and replace the unit. Do not attempt to repair damaged electrical components.

For complex electrical issues or if troubleshooting steps do not resolve the problem, always consult a qualified electrician.

8. WARRANTY AND SUPPORT

Elecbee stands by the quality of its products. This industrial connector comes with a 30-day money-back guarantee from the date of purchase, ensuring your satisfaction.

For technical support, inquiries, or warranty claims, please contact Elecbee customer service through your original point of purchase or visit the official Elecbee website for contact information.

Manufacturer: Elecbee