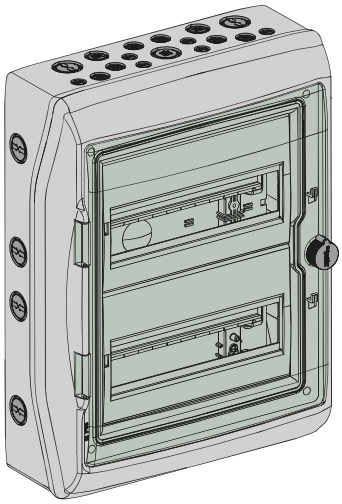
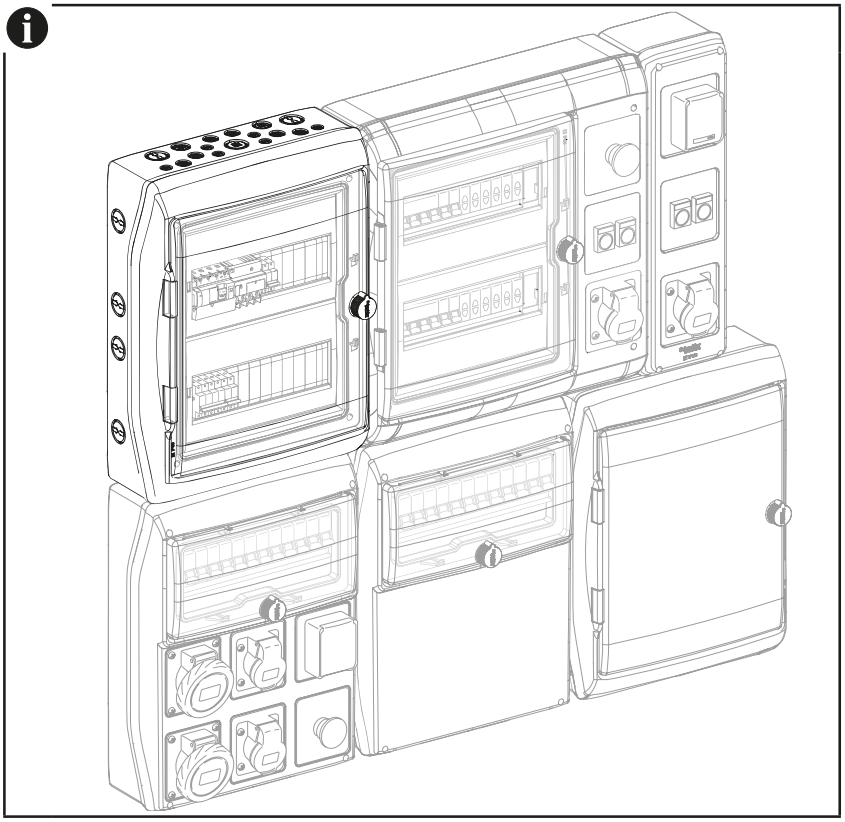
Electrical Panel

User Guide

9MA10324.00
07/2026





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The information provided in this document contains general descriptions, technical characteristics and/or recommendations related to products/solutions.

This document is not intended as a substitute for a detailed study or operational and site-specific development or schematic plan. It is not to be used for determining suitability or reliability of the products/solutions for specific user applications. It is the duty of any such user to perform or have any professional expert of its choice (integrator, specifier or the like) perform the appropriate and comprehensive risk analysis, evaluation and testing of the products/solutions with respect to the relevant specific application or use thereof.

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SAFETY INFORMATION

Important information

Read these instructions carefully and visually inspect the equipment to familiarize yourself with the device before attempting to install it, put it into operation or service it. The following warning messages may appear anywhere in this documentation or on the equipment to warn of potential dangers or to call attention to information that can clarify or simplify a procedure.



The addition of this symbol to a ‘Danger’ or ‘Warning’ safety label indicates that an electrical hazard exists which will result in personal injury if the instructions are not followed.



This is the safety warning symbol. It is used to warn the user of the potential dangers of personal injury. Observe all the safety warnings that follow this symbol to avoid the risk of serious injury or death.

⚠ DANGER

DANGER indicates a dangerous situation which, if not avoided, **will result** in death or serious injury.

⚠ WARNING

WARNING indicates a dangerous situation which, if not avoided, **could result in** death or serious injury.

⚠ CAUTION

CAUTION indicates a potentially dangerous situation which, if not avoided, **could result** in minor or moderate injury.

NOTICE

NOTICE used in reference to procedures not associated with physical injuries.

PLEASE NOTE

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel.
No responsibility is assumed by Eliwell for any consequences arising out of the use of this material.
A qualified person is one who has skills and knowledge related to the construction and operation of electrical equipment and its installation, and has received safety training to recognize and avoid the hazards involved.

Qualification of Personnel

Only appropriately trained persons who are familiar with and understand the contents of this manual and all other pertinent product documentation are authorized to work on and with this product. The qualified person must be able to detect possible hazards that may arise from parameterization, modifying parameter values and generally from mechanical, electrical, or electronic equipment. The qualified person must be familiar with the standards, provisions, and regulations for the prevention of industrial accidents, which they must observe when designing and implementing the system.

Definitions aligned with IEC/EN 61439 and IEC/EN 60204-1 standards.

- Rated Voltage (Un): The voltage of the main circuit as specified by the manufacturer.
- Rated Current (In): The maximum current that the panel can carry under specified operating conditions.
- Conditional Short-Circuit Current (Icc): The maximum short-circuit current the panel can withstand for the specified protection device clearing time.

Intended use

The product is intended for use in electrical control panels for HVAC/R or similar commercial applications. The product may only be used in compliance with all applicable safety regulations and directives, the specified requirements, and the technical data.

Prior to using the product, you must perform a risk assessment in view of the planned application. Based on the results, the appropriate safety-related measures must be implemented.

Since the product is used as a component in an overall machine or process, you must ensure the safety of persons by means of the design of this overall system.

Operate the product only with the specified cables and accessories. Use only genuine accessories and spare parts.

Any use other than the use explicitly permitted is prohibited and can result in unanticipated hazards.

Foreseeable Use

- Operation within specified environmental limits

Foreseeable Misuse

- Operation with open panel
- Use outside rated electrical limits
- Incorrect wiring or configuration
- Removal, modification, or improper installation of covers, seals, cable glands, or other components that may degrade the declared IP rating of the enclosure

Prohibited Use

- Safety-critical systems
- Explosive or hazardous environments
- Unauthorized modifications

Prohibited use

Any use other than that expressed above under Intended Use is strictly prohibited.

Liability and residual risks

The liability of Schneider Electric and Eliwell is limited to the proper and professional use of this product under the guidelines contained in the present and other supporting documents, and does not extend to damages caused by (but not limited to):

- Unspecified installation/use and, in particular, in contravention of the safety requirements of established legislation or specified in this document;
- Use on equipment which does not provide adequate protection against electrocution, water and dust in the actual installation conditions;
- Use on equipment in which dangerous components can be accessed without the use of specific tools;
- Installation/use on equipment which does not comply with established legislation and standards.
- Any action that compromises or degrades the declared degree of protection (IP rating) of the enclosure, including removal or improper installation of covers, seals, or cable entry devices.

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Eliwell reserves the right to make aesthetic or functional changes at any time without notice.

ABOUT THE DOCUMENT

Document Scope

The document provides instructions for the lifecycle management of an Eliwell electrical panel used in HVAC/R applications, covering identification, transport, storage, installation, commissioning, operation, maintenance, and disposal. It defines applicable IEC/EN standards, product ratings, environmental limits, wiring and grounding requirements, handling methods, commissioning checks, and maintenance procedures. The User Guide specifies responsibilities for installers and system integrators, outlines operating conditions and equipment limitations, describes cleaning and verification activities after maintenance, and explains end-of-life disposal requirements in accordance with WEEE regulations, including retention of technical documentation throughout the product lifecycle

Note: Read and understand this document and all related documents, before installing, operating, or maintaining your device.

Validity Note

The characteristics of the products described in this document are intended to match the characteristics that are available on www.eliwell.com. As part of our corporate strategy for constant improvement, we may revise the content over time to enhance clarity and accuracy. If you see a difference between the characteristics in this document and the characteristics on www.eliwell.com, consider www.eliwell.com to contain the latest information.

Product Related Information

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK

- Disconnect all power sources before accessing the equipment.
- Verify absence of voltage using appropriate measuring devices.
- Ensure protective grounding is in place.
- Reinstall all protective covers before energizing.

Failure to follow these instructions will result in death or serious injury.

⚠ ⚠ DANGER

HAZARD OF ARC FLASH

Use appropriate protection devices.

Failure to follow these instructions will result in death or serious injury.

⚠ WARNING

HAZARD OF FIRE

- Use properly rated cables and components.
- Respect tightening torque specifications.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ WARNING

UNINTENDED EQUIPMENT OPERATION DUE TO ELECTROSTATIC DISCHARGE DAMAGE

- Keep equipment in the protective conductive packaging until you are ready to install the equipment.
- Use a conductive wrist strap or equivalent field force protective device attached to an earth ground when handling sensitive equipment.
- Always discharge yourself by touching a grounded surface or approved antistatic mat before handling the equipment.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ WARNING

UNINTENDED EQUIPMENT OPERATION

- Use appropriate safety interlocks where personnel and/or equipment hazards exist.
- Power line and output circuits must be wired and protected against overcurrent in compliance with local and national regulatory requirements for the rated current and voltage of the particular equipment.
- Do not use this equipment in safety-critical machine functions unless the equipment is otherwise designated as functional safety equipment and conforming to applicable regulations and standards.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

General Cybersecurity Information

In recent years, the growing number of networked machines and production plants has seen a corresponding increase in the potential for cyber threats, such as unauthorized access, data breaches, and operational disruptions. You must, therefore, consider all possible cybersecurity measures to help protect assets and systems against such threats.
To help keep your Schneider Electric products secure and protected, it is in your best interest to implement the cybersecurity best practices as described in the Recommended Cybersecurity Best Practices document.

Schneider Electric provides additional information and assistance:

- Subscribe to the Schneider Electric security newsletter.
- Visit the Cybersecurity Support Portal to:
  - Find Security Notifications
  - Report vulnerabilities and incidents
- Visit the Schneider Electric Cybersecurity and Data Protection Posture to:
  - Access the cybersecurity posture
  - Learn more about cybersecurity in the cybersecurity academy
  - Explore the cybersecurity services from Schneider Electric

Environmental Data

For product compliance and environmental information refer to the Schneider Electric Environmental Data Program.

Related Documents

Title of documentation	Reference number
Cybersecurity Best Practices	Refer to "General Cybersecurity Information" page 9
Electrical Panel Wiring Diagram	See documentation supplied with the product
Electrical Panel Wiring Technical Data	See documentation supplied with the product
Component Manufacturer Manuals	See documentation supplied with the product

To find documents online, visit the Eliwell website (www.eliwell.com).

Terminology Derived from Standards

The technical terms, terminology, symbols and the corresponding descriptions in this manual, or that appear in or on the products themselves, are generally derived from the terms or definitions of international standards.
In the area of functional safety systems, drives and general automation, this may include, but is not limited to, terms such as *safety, safety function, safe state, fault, fault reset, malfunction, failure, error, error message, dangerous*, etc.

Information on Non-Inclusive Terminology

As part of a group of responsible, inclusive companies, we are updating our communications and products that contain non-inclusive terminology. Until we complete this process, however, our content may still contain standardized industry terms that may be deemed inappropriate by our customers.

CHAPTER 1
Introduction

1.1. General Description

This document provides installers, system integrators, and qualified operators with comprehensive instructions for the safe handling, installation, commissioning, operation, maintenance, and disposal of the electrical panel.

It is an integral part of the product and must accompany the equipment throughout its entire lifecycle.

The purpose of this manual is to provide all necessary information to:
- Safely handle the product under all conditions (transported, stored, installed, and in operation)
- Ensure correct installation and commissioning
- Understand the product characteristics and operating limits
- Define the required qualifications and responsibilities of personnel
- Identify intended use, foreseeable misuse, and prohibited applications
- Support troubleshooting, technical assistance, and spare parts management
- Ensure proper decommissioning and disposal in compliance with applicable regulations

This document provides general guidelines for the installation, use, and maintenance of the electrical panel. The information contained herein does not replace the need for:
- risk assessment
- system-level design verification
- compliance with applicable standards

The system integrator is responsible for ensuring that the product is suitable for the intended application.

This document defines the requirements for safe installation, operation, and maintenance of the electrical control panel.

The requirements contained in this manual contribute to:
- protection of persons and property
- safe operation of equipment
- reliable system performance

1.1.1. Normative References

The following standards apply:

- IEC/EN 60204-1 – Electrical equipment of machines
- IEC/EN 61439-1 – General rules for assemblies
- IEC/EN 61439-2 – Power switchgear assemblies
- IEC 60364 – Electrical installations
- IEC/IEEE 82079-1 – Preparation of instructions

These standards define requirements for:
- protection against electric shock
- overcurrent and overvoltage protection
- EMC
- marking, testing, and documentation

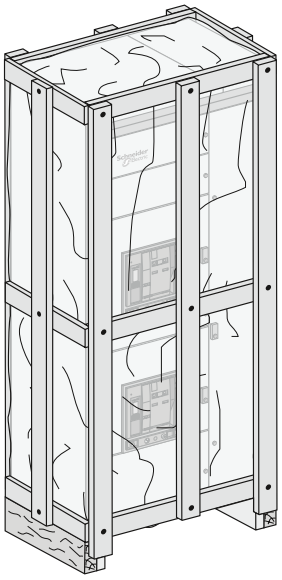
1.1.2. Product Identification and Marking

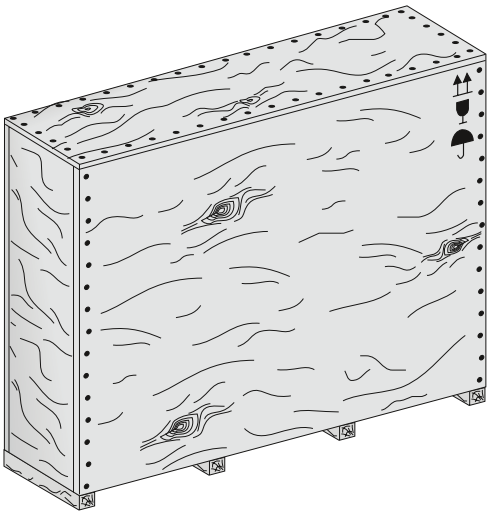
Each electrical panel is equipped with an identification label containing:
- Product code and model
- Serial number
- Manufacturing date
- Electrical ratings
- CE marking

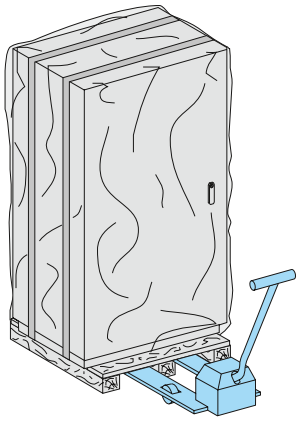
The identification label must remain visible after installation.

Always refer to these data when contacting technical support or ordering spare parts.

CHAPTER 2
Handling, Transport and Storage







2.1. Storage Definitions

Panel Receipt

Upon receipt of the panel and before handling it, verify that the packaging and packing materials used during transport have not been damaged, and that the number of packages received matches the delivery note.

Even if the packaging appears to be in good condition, do not hesitate to unpack the product in the presence of a representative of the transport company.

Check the contents and weight of the packages. Carefully inspect the equipment to ensure that the panel has not been damaged or impacted in a way that could compromise its insulation or operation.

If necessary, verify that the information indicated on the panel identification label matches the data reported on the delivery note.

In case of damage or missing parts, inform the transport company by certified email.

After inspection, carefully reposition the protective plastic film.

2.2. Storage Suggestions

Panels must be stored in dry, well-ventilated indoor environments, protected from rain, dripping water, running water, and adverse weather conditions, and free from dust and chemical agents.

Panels must never be stored outdoors, even if protected by tarps or waterproof covers.

Whenever possible, panels should remain in their original packaging until final installation. This ensures protection against potential damage that may occur in workshops or construction sites (e.g., splashes, impacts, etc.).

Storage temperature: -25 °C ... 55 °C (-13 °F ... 131 °F) (70 °C (158 °F) for short periods not exceeding 24 hours).

Due to their significant weight, panels must be stored on a stable, rigid, and level surface to prevent tipping hazards during storage and handling.

2.3. Storage Conditions

- Temperature: according to datasheet
- Humidity: < 95% non-condensing

⚠ WARNING

HANDLING HAZARD

- Do not exceed specified drop limits.
- Inspect packaging upon receipt.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

2.4. Lifting Conditions

The panel must be handled using equipment suitable for its weight and dimensions.
When lifting:

⚠ WARNING

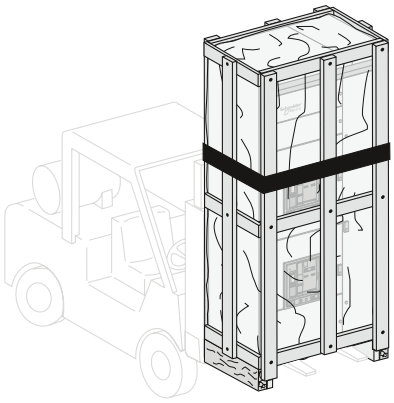
LIFTING HAZARD

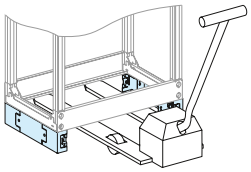
- Use designated lifting points if provided.
- Ensure load is evenly distributed.
- Maintain a minimum lifting angle of 45° for slings.
- Avoid mechanical stress or impact.

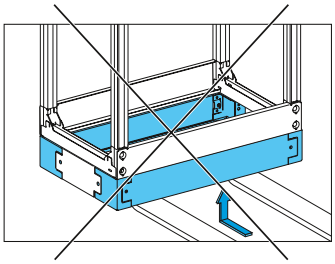
Failure to follow these instructions can result in death, serious injury, or equipment damage.

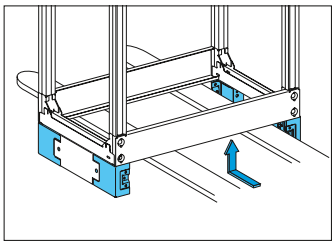
2.5. Handling

2.5.1. General handling instructions









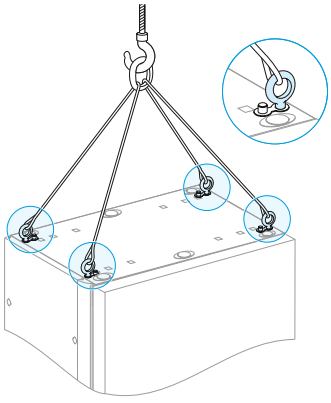
It is recommended to perform the final unpacking of the equipment immediately before installation, as close as possible to the final installation location.

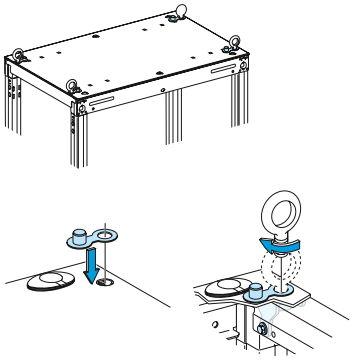
During transport and handling:
- move the equipment slowly and carefully
- avoid shocks, drops, and sudden movements

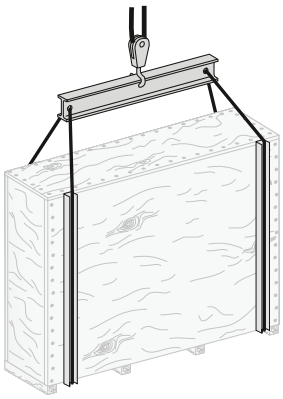
Panels handled with a forklift must be:
- lifted carefully
- manually stabilized during movement or secured to the forklift using appropriate straps.

2.5.2. Handling from below (forklift / pallet truck)

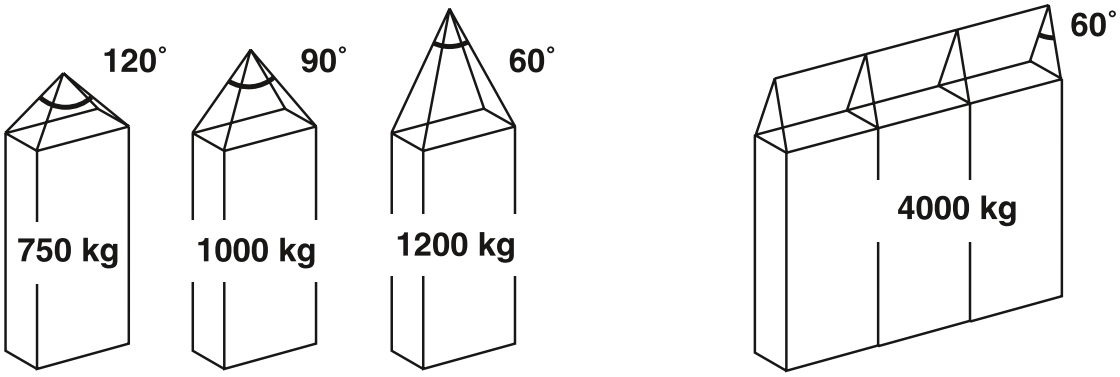
Stabilizing cross members or wooden supports are installed at the base of the panel to increase stability during movement with pallet trucks or forklifts.
Key requirements:
- forks must be positioned symmetrically relative to the panel axis to avoid deformation
- for panels with plinths, remove front and rear panels to allow fork insertion
- secure the panel during transport using straps, especially:
  - over long distances
  - on uneven surfaces







2.5.3. Handling from above (crane lifting)

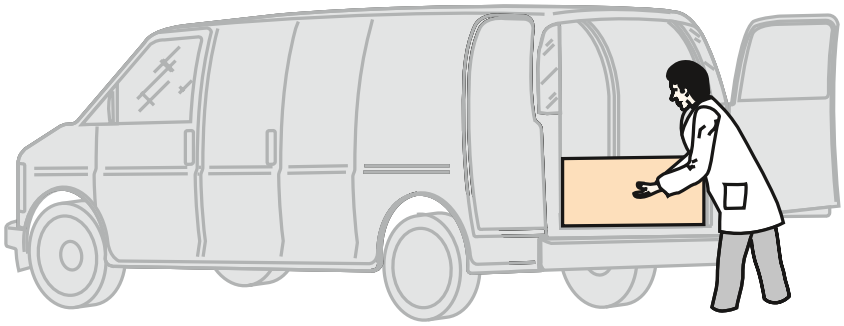


When lifting using a crane or overhead hoist:
- use lifting slings in good condition and with adequate capacity
- attach slings to the four lifting eyebolts of the panel
- adjust sling length so that the lifting angle remains within the specified limits

Additional requirements:
- never tilt the panel during lifting
- ensure the load is evenly distributed across all four lifting points

2.6. Transport Conditions

For transport, it is preferable that cabinets and enclosures be positioned horizontally. Place the cabinet front panels facing upward.



CHAPTER 3
Mechanical installation

3.1. Before Starting

Read this manual carefully before installing, commissioning, operating, or maintaining the electrical panel. Only qualified personnel are authorized to work on this equipment. Such personnel must be familiar with applicable electrical standards, safety procedures, and the specific requirements of the installation.
Before energizing the panel, verify that the installation complies with the applicable regulations, that all electrical connections have been correctly completed, and that all protective devices, covers, and barriers are properly installed. The panel builder, installer, and system integrator are responsible for ensuring that the final installation is suitable for its intended application and complies with all applicable standards and regulations.

⚠ WARNING

REGULATORY INCOMPATIBILITY

Ensure that all equipment applied and systems designed comply with all applicable local, regional, and national regulations and standards.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

3.2. Disconnecting Power

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Install covers and blanks to maintain the IP degree of protection.
- Disconnect all power from all equipment including connected devices prior to removing any covers or doors, or installing or removing any accessories, hardware, cables, or wires.
- Always use a properly rated voltage sensing device to confirm the power is removed.
- Replace and secure all covers, accessories, hardware, cables, and wires and confirm that a proper earthing connection exists before applying power to the unit.
- Use only the specified voltage when operating this equipment and any associated products.

Failure to follow these instructions will result in death or serious injury.

3.3. Grounding

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK

- Connect protective earth (PE) before energizing.
- Verify continuity of grounding system.

Failure to follow these instructions will result in death or serious injury.

3.4. Installation Considerations

⚠ WARNING

UNINTENDED EQUIPMENT OPERATION

- Use appropriate safety interlocks where personnel and/or equipment hazards exist.
- Power line and output circuits must be wired and protected against overcurrent in compliance with local and national regulatory requirements for the rated current and voltage of the particular equipment.
- Do not use this equipment in safety-critical machine functions unless the equipment is otherwise designated as functional safety equipment and conforming to applicable regulations and standards.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ WARNING

HAZARD OF LOOSE ELECTRICAL CONNECTIONS

Tighten all connections to the torque specified in the instructions before energizing.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ WARNING

FIRE HAZARD

Use only the cable types and cross-sections specified.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

3.4.1. Wiring Requirements

- Use cables with appropriate cross-section
- Follow wiring diagrams exactly

3.4.2. Tightening Torque

Tightening torque values vary according to the installed components and terminals.
Refer to the electrical documentation and component manuals supplied with the panel for the applicable tightening torque specifications.

3.4.3. Cable Sizing

Cable selection shall be performed according to the electrical ratings, installation conditions, and applicable standards.
Refer to the electrical schematics and technical documentation supplied with the panel for conductor sizing requirements.

CHAPTER 4
Commissioning

4.1. Best Practices

The following information describe the wiring guidelines and associated best practices to be respected when using the Refrigeration Electrical Panel.

⚠ ⚠ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- Disconnect all power from all equipment including connected devices prior to removing any covers or doors, or installing or removing any accessories, hardware, cables, or wires.
- Always use a properly rated voltage sensing device to confirm the power is removed.
- Replace and secure all covers, accessories, hardware, cables, and wires and confirm that a proper earthing connection exists before applying power to the unit.
- Use only the specified voltage when operating this equipment and any associated products.

Failure to follow these instructions will result in death or serious injury.

4.1.1. Commissioning Guidelines

Before applying power:

- Verify wiring correctness
- Ensure all terminals are properly tightened
- Confirm no foreign objects are present
- Verify compliance with specified ratings
- Perform insulation tests if required
- Check torque tightening
- Perform no-load functional test

⚠ WARNING

INCOMPLETE TESTING

Failure to test the system before operation may result in unintended equipment behavior.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

⚠ ⚠ DANGER

LOOSE WIRING CAUSES ELECTRIC SHOCK

- Tighten connections in conformance with the torque specifications.
- Do not insert more than one wire per connector of the terminal block unless using the cable ends (ferrules) specified above.

Failure to follow these instructions will result in death or serious injury.

⚠ DANGER

FIRE HAZARD

Use only the correct wire sizes for the current capacity of the I/O channels and power supplies.

Failure to follow these instructions will result in death or serious injury.

⚠ WARNING

UNINTENDED EQUIPMENT OPERATION

Signal cables (communication, and related power supplies), power and device power cables must be routed separately.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

4.1.2. Special Handling Considerations

⚠ WARNING

UNINTENDED EQUIPMENT OPERATION

- Use appropriate safety interlocks where personnel and/or equipment hazards exist.
- Install and operate this equipment in an enclosure appropriately rated for its intended environment and secured by a keyed or tooled locking mechanism.
- Power line and output circuits must be wired and protected against overcurrent in compliance with local and national regulatory requirements for the rated current and voltage of the particular equipment.
- Do not use this equipment in safety-critical machine functions.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

Care must be taken to avoid damage from electrostatic sources when handling this equipment. In particular exposed connectors and, in some cases, exposed printed circuit boards are vulnerable to electrostatic discharge.

⚠ WARNING

UNINTENDED EQUIPMENT OPERATION DUE TO ELECTROSTATIC DISCHARGE DAMAGE

- Only install equipment in approved enclosures and / or locations that prevent unauthorized access and provide electrostatic discharge protection.
- Use a conductive wrist strap or equivalent field force protective device attached to an earth ground when handling sensitive equipment.
- Always discharge yourself by touching a grounded surface or approved antistatic mat before handling the equipment.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

4.1.3. Inspection and Verification

Before commissioning and after maintenance, perform the following checks:

⚠ WARNING

UNINTENDED EQUIPMENT OPERATION

- Verify the integrity of the enclosure.
- Ensure all terminals and connections are properly tightened.
- Confirm absence of foreign objects inside the panel.
- Check correct operation of control devices and indicators.
- Verify compliance between supply voltage and equipment ratings.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

If any abnormal condition is detected:

- Immediately stop operation
- Report the issue to the manufacturer or responsible authority
- Perform corrective actions before re-energizing the system

CHAPTER 5
Operation

5.1. Environmental Limits

Operate the equipment:
- within defined temperature and humidity limits
- with enclosure closed and secured
- with all covers, doors, seals, cable glands, and protection devices correctly installed and maintained
- The declared degree of protection (IP rating) must be maintained during operation.

⚠ WARNING

IP DEGREE LOST

- Do not operate the equipment if any protective component has been removed, damaged, or improperly installed, as this may reduce the enclosure IP rating.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

5.2. Operational Safety

⚠ WARNING

HAZARD OF MAINTENANCE

- Do not operate with enclosure open.
- Do not exceed electrical ratings.
- Do not tamper with internal components or circuits.
- Do not use the equipment when not fully functional.
- Do not bypass or disable safety devices.
- Do not modify the product without manufacturer authorization.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

CHAPTER 6
Maintenance

6.1. Cleaning the device

Clean the refrigeration electrical panel with a soft cloth using water and a mild detergent.
Do not use alcohol, degreasers, sprays, polishes, detergents, etc.

- Use dry or slightly damp cloth
- Avoid aggressive chemicals
- Prevent liquid ingress

⚠ WARNING

POST MAINTENANCE

- Always test equipment after maintenance.
- Verify protective devices are correctly installed.

Failure to follow these instructions can result in death, serious injury, or equipment damage.

6.2. Post-Maintenance Verification

After maintenance:

- Reinstall all protective covers
- Remove tools and foreign objects
- Verify insulation levels if applicable
- Perform functional tests before returning to operation

Residual current devices (if installed) should be tested periodically in accordance with applicable standards and manufacturer instructions.

CHAPTER 7
End of Life

7.1. Disposal

- Dispose of the product in accordance with:
  WEEE Directive (2012/19/EU)
- Local regulations



The appliance (or the product) must be disposed of separately in compliance with the local standards in force on waste disposal.

7.1.1. Disposal of electrical and electronic equipment

Since August 2012, rules governing the disposal of electrical and electronic equipment defined in European Directive 2012/19/ EU (WEEE) and national laws, which apply to this device, have been in force throughout the European Union. Common house- hold appliances can be disposed of via special collection and recycling sites. However, this device has not been registered for home use. Therefore, it must not be disposed of using these services. Do not hesitate to contact ELIWELL if you have any further questions on this topic.

NOTICE
ENVIRONMENTAL HAZARD Improper disposal may cause environmental damage. **Failure to follow these instructions can result in equipment damage.**

7.1.2. Documentation Retention

This document must be retained for the entire lifecycle of the product.

This document must be kept with care and stored in a location protected from moisture, heat, and mechanical damage.

- It must remain available at all times to operators and maintenance personnel and must accompany the product in case of transfer of ownership.
- No part of this manual may be removed, modified, or reproduced without authorization from the manufacturer.

The manufacturer shall provide:

- wiring diagrams
- rating labels
- safety warnings

SUPPORT AND CONTACT INFORMATION

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