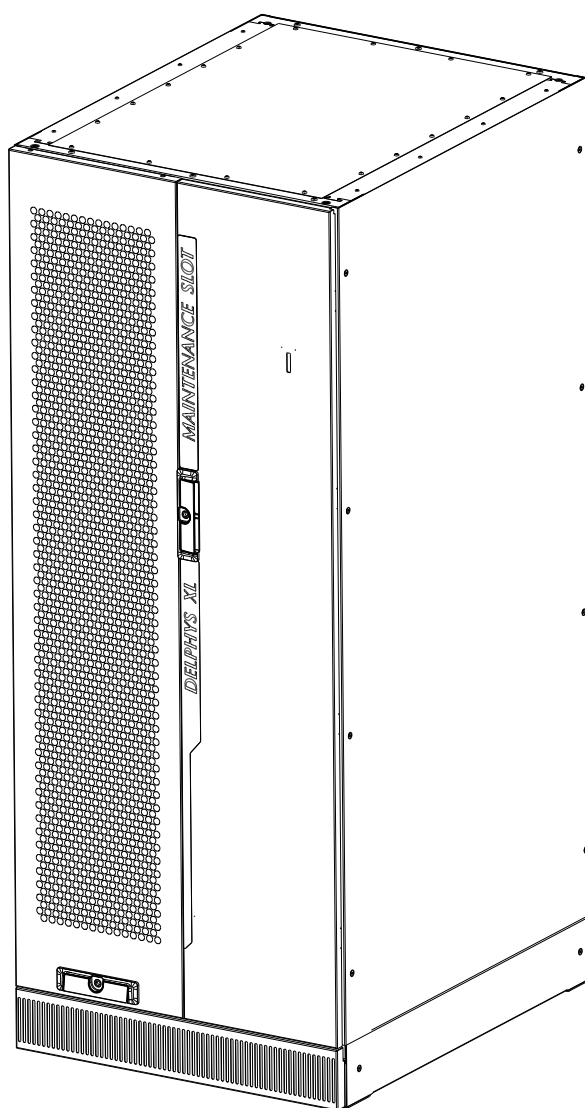


MAINTENANCE SLOT

DELPHYS XL



Socomec Resources Center
To download, brochures, catalogues
and technical manuals

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1. CERTIFICATE AND CONDITIONS OF WARRANTY

The warranty terms are set out in the offer; the following clauses apply as standard.

Socomec's warranty is strictly limited to Socomec devices and does not extend to third-party equipment that can be integrated into such devices, nor to the performance of such third-party equipment.

The manufacturer guarantees its products to be free from manufacturing faults and defects in design, material or construction, subject to the limits listed below.

The manufacturer reserves the right to modify the delivery with a view to fulfilling these guarantees or to replace defective parts. The manufacturer's warranty does not apply in the following cases:

- Faults or defects in the design of parts added or supplied by the customer
- Faults due to unforeseen circumstances or *force majeure*
- Replacement or repair resulting from normal wear and tear of the modules or equipment
- Damage due to negligence, lack of proper maintenance or misuse of the products
- Repair, modification, adjustment or replacement of parts undertaken by unqualified third parties or personnel without the express consent of Socomec.

The warranty period is twelve months commencing from the date of delivery of the product.

The repair, replacement or modification of the parts during the warranty period does not extend the warranty period under any circumstances.

To establish a valid warranty claim, the purchaser must notify the manufacturer in writing immediately after the discovery of any apparent material defects and provide any and all supporting evidence of the defects at the latest within eight days before the date of expiry of the warranty.

Defective parts which have been returned and replaced free of charge shall become the property of Socomec.

The warranty is void if the purchaser has undertaken modifications or repairs on the devices on their own initiative and without the express consent of the manufacturer.

The manufacturer's responsibility is strictly limited to the obligations defined in this warranty (repair and replacement) excluding any compensation or indemnity.

Any import taxes, duties, fees or charges of any nature whatsoever imposed by European regulations or those of an importing country or of a transit country shall be paid by the purchaser.

All rights reserved.

2. FOREWORD

2.1. GENERAL NOTES

Thank you for choosing a Socomec product.

This equipment complies with IEC 62040-1 and IEC 62040-2 standards.

This product is for limited sale to experienced installers or distributors. Installation restrictions or additional measures may be needed to prevent disturbances.

It is recommended that the ambient temperature and the humidity surrounding the equipment are maintained below the values specified by the manufacturer.

2.2. REGULATIONS: ENVIRONMENTAL PROTECTION

Recycling electrical devices and equipment

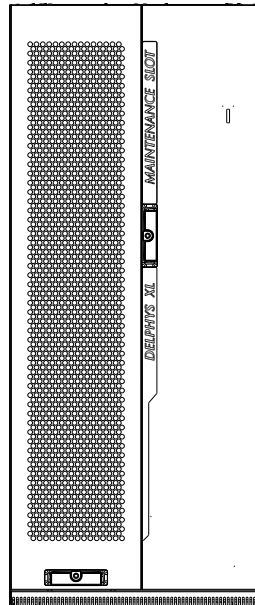
Provision is made in European countries to dismantle and recycle materials and components of the system. The various components must be disposed of in accordance with the legal provisions in force in the country where the equipment is installed.

3. GENERAL INFORMATION

3.1. PURPOSE OF THIS DOCUMENT

This document explains how to install and operate the Maintenance Slot for DXL. This Slot allows you to test a DXL Power Bricks outside his UNITS and also ensures controlled aging of the components (because the Power Bricks is powered) and thus maximizes its lifespan.

3.2. MAINTENANCE SLOT DXL DIAGRAM



3.3. EQUIPMENT COMPONENTS

The Maintenance Slot DXL includes the following sub-assemblies:

- one X200 4-pole terminal block to connect to the upstream network of the facility or to a 63A socket.
- one 230V 1-pole SERVICE PLUG to connect to a service PC.
- two 3-pole Q300 and Q100 switch to operate the DXL Power Brick inside the Maintenance Slot DXL.



Q100 is not a switch isolating the installation.

3.4. FUNCTION OF THE MAINTENANCE SLOT DXL

The equipment is powered by the X200 terminal block. When the DXL Power Brick is inserted into the Maintenance Slot DXL, it can then work:

- In double-conversion mode without loads when the Q300 switch is open and Q100 closed
- In Heat-run mode when the Q300 switch is closed.



When Q100 is closed, an electro-mechanical lock prevents the extraction or insertion of the DXL Power Brick.

4. SAFETY INSTRUCTIONS



NOTE: Only skilled and qualified technicians who have completed Socomec training on assembly, installation and inherent risks, and who have experience in the procedures, practices and precautions to be taken, may carry out work on this equipment.



NOTE: Before carrying out any operations on the unit read the installation and operating manual carefully. Always read and observe all the safety notices in this document. Keep this manual handy for future reference.



DANGER: Failure to observe safety standards could result in fatal accidents or serious injury, and damage equipment or the environment.



WARNING: If the unit shows signs of external or internal damage, or any of the accessories are damaged or missing, contact Socomec. Do not operate the unit if it has suffered a violent mechanical shock.



NOTE: Use Personal Protective Equipment (PPE) when carrying out any work on the unit.



NOTE: This equipment complies with European Union directives for industrial equipment and bears the approval mark.



NOTE: Only use accessories recommended or sold by the manufacturer.



NOTE: When the equipment is transferred from a cold to a warm place, wait approx. two hours before putting the unit into operation.



DANGER! RISK OF ELECTROCUTION: Disconnect all power sources before carrying out any work on the unit (cleaning and maintenance, connecting appliances, etc.).



NOTE: If the unit needs to be disposed of, only take it to companies specialising in the disposal of the equipment's component materials.



NOTE: Any use other than the specified purpose will be considered improper. The manufacturer/supplier shall not be held responsible for damage resulting from this. Risk and responsibility lie with the system manager.



CAUTION! This product is designed for "Type A" environments. The use of this product in "Type B" environments may cause unwanted electromagnetic interference, in which case the user may be required to take appropriate mitigation measures.



Remove all metallic personal items from the hands, wrists and neck before starting work.

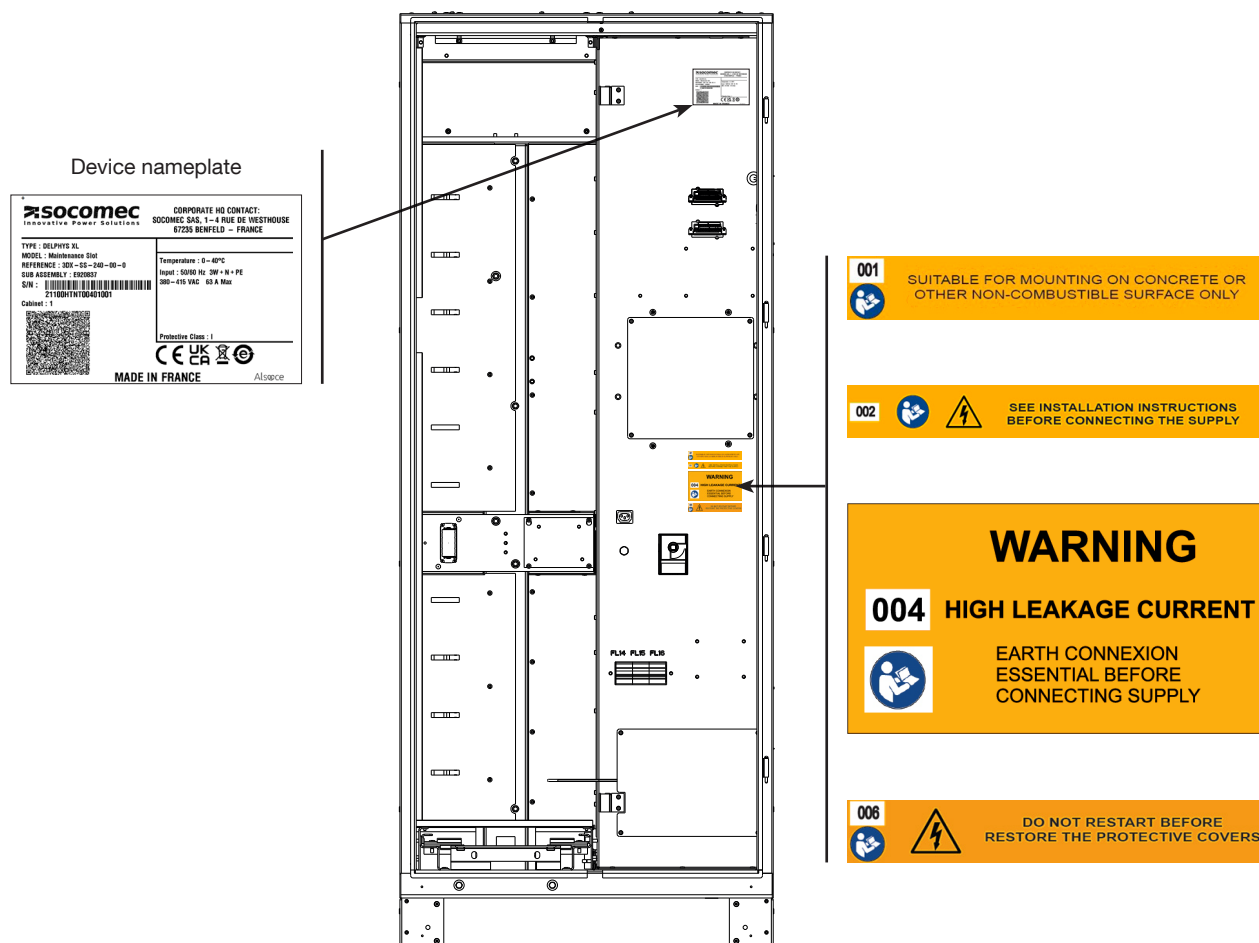


Insulated protective clothing and locally insulated coverings will be required to prevent personnel from coming into contact with the ground or with parts that have an equipotential connection to the earth.

5. DESCRIPTION OF LABELS AFFIXED TO THE EQUIPMENT

All indoor and outdoor precautions and warnings posted on labels and equipment plates must be respected.

5.1. DATA PLATE



5.2. SAFETY LABELS

Labels affixed in or on the cabinet	Description
001 SUITABLE FOR MOUNTING ON CONCRETE OR OTHER NON-COMBUSTIBLE SURFACE ONLY	Suitable for mounting only on a concrete surface or on any other non-combustible surface
002 SEE INSTALLATION INSTRUCTIONS BEFORE CONNECTING THE SUPPLY	Read the installation manual before connecting the power supply
WARNING 004 HIGH LEAKAGE CURRENT EARTH CONNEXION ESSENTIAL BEFORE CONNECTING SUPPLY	WARNING High leakage current Earthing is essential before connecting to the mains
006 DO NOT RESTART BEFORE RESTORE THE PROTECTIVE COVERS	Replace the protective caps before the equipment is powered on

5.3. SYMBOLS

Symbols	Description
	Protective earth Indicates the main earth terminal block to connect to the equipment's earth wire. There can only be one for each cabinet.
	Warning: Electrical hazard.
	Always read the installation manual before using the equipment
	Do not dispose of with regular waste (WEEE symbol).

6. POSITIONING

The packaging ensures the stability of the cabinet during transport and physical transfer. Move the packaged unit as close as possible to the installation site.



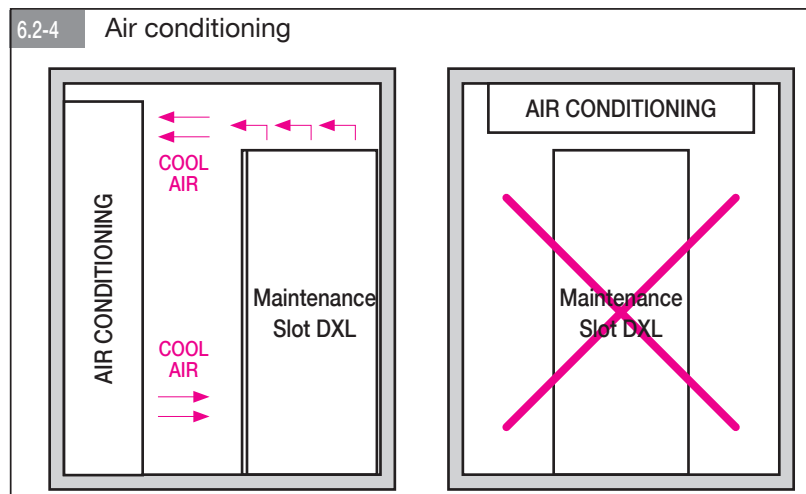
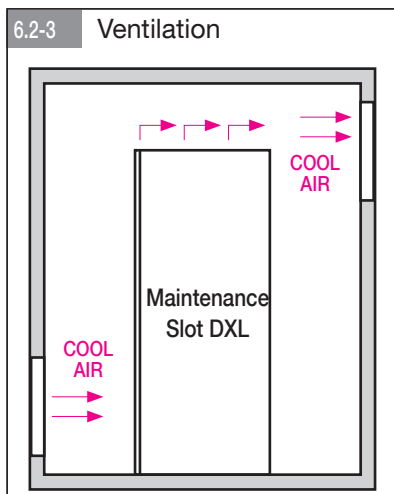
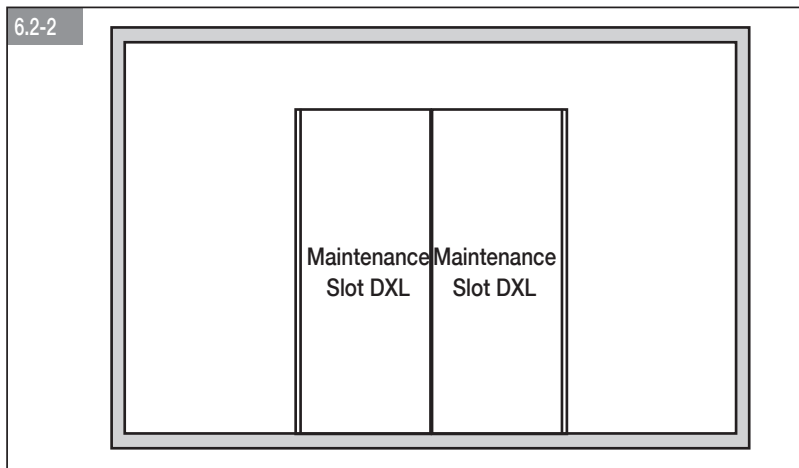
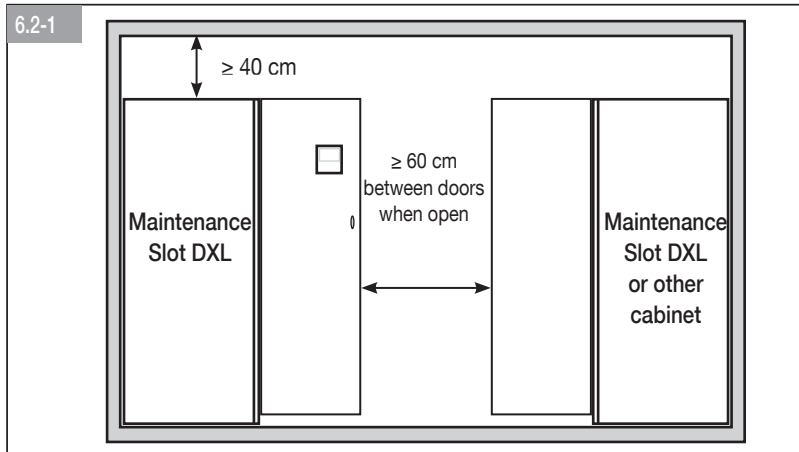
When moving the unit, even on surfaces that are only slightly sloping, use appropriate locking equipment and braking devices to prevent it falling over.

6.1. ENVIRONMENTAL REQUIREMENTS

The Maintenance Slot DXL belongs to the Delphys XL family of products. The equipment follows the same installation conditions as Delphys XL. As such, the following applies:

- Not designed for outdoor use.
- Do not expose to direct sunlight or any other extreme heat sources.
- The recommended values for operating temperature, humidity and altitude are listed in the table of technical specifications (see §12). In some cases, you may need to install a cooling system to maintain these values.
- Install in a clean, dry and dust-free environment, free from obstacles.
- Avoid installing in dusty environments or areas prone to the presence of conductive dust or corrosive materials (such as metal filings or chemical solutions).
- Can be placed against a wall. The top of the unit must be at least 40 cm from the ceiling (see Fig. 6.2-1).
- Keep at least 1.5 metres clear at the front so you can insert the DXL Power Brick.

6.2. INSTALLING THE MAINTENANCE SLOT DXL



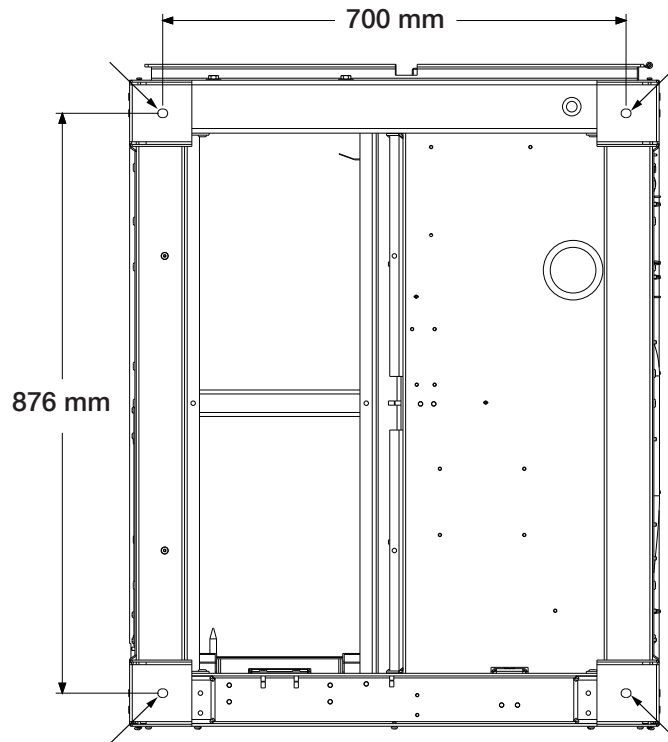
Clearances to the top, bottom, left and right are indicated under § 12 Technical Specifications.

Clearances to the front of the cabinet must respect the minimum safety requirements when the door is opened. (For example: cabinet + door + 60 cm).

6.3. FOOTPRINT AND FLOOR FIXINGS

The cabinet has 4 base feet for floor-mounting.

To secure the Maintenance Slot DXL, drill into the floor and use dowels with M10 lag bolts.



6.4. TRANSPORT AND HANDLING

Please consult us if you intend to store the equipment for longer than 6 months.

During transport and handling, the Maintenance Slot DXL must be kept in an upright position.

Check that the floor is strong enough to support the weight of the equipment, if applicable.



Avoid moving the cabinet by pushing on the front door.



The equipment **MUST** be moved with the utmost care by at least two persons.



IMPORTANT: IN CASE OF DAMAGE.

Any packaging that is crushed, ripped or torn so as to expose its contents must be set aside in a separate area and inspected by a qualified person. If the packaging is not compliant upon delivery, quickly gather its contents, set aside and contact the sender or carrier.



All packaging should be recycled in compliance with existing legislation in the country where the product is installed.

6.5. UNPACKING PROCEDURE

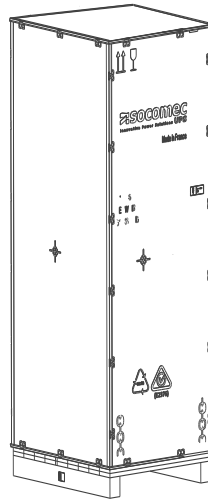
Place the various items in the installation area.



The packaging keeps the unit stable during delivery and transport. Move the packaged unit as close as possible to the installation site.



IMPORTANT: IN CASE OF DAMAGE Any packaging that is crushed, ripped or torn to reveal its contents must be set aside in a separate area and inspected by a qualified person. If the packaging is not compliant upon delivery, quickly gather its contents, set aside and contact the sender or carrier.

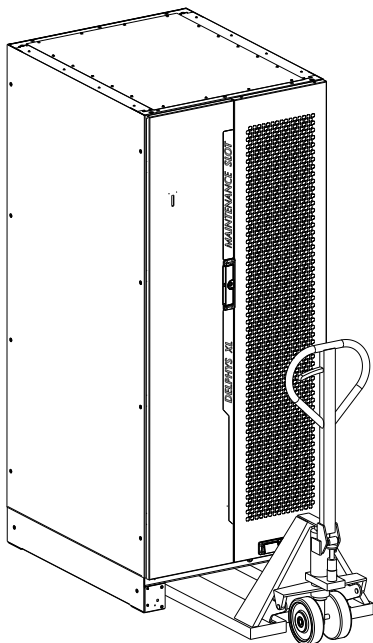


6.5.1. HANDLING THE CABINET FROM BELOW

- ⚠ As the equipment is extremely heavy, any handling with a pallet truck on a slope (or ramp), however small, is dangerous and can cause serious accidents.
- ⚠ When moving the unit, even on surfaces with a slight incline, use appropriate locking equipment and braking devices to prevent it falling over.
- ⚠ Take due care when handling with suitable tools and equipment.

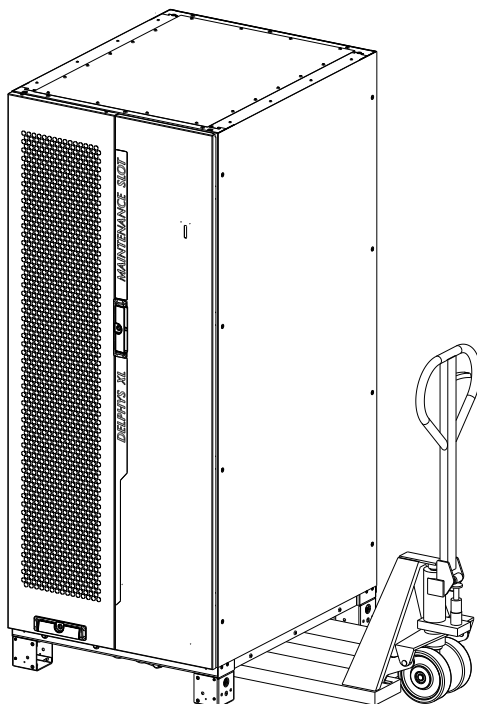
HANDLING FROM THE FRONT

Remove the lower grids on the front panels of the unit and insert the truck's forks into the now open space. You can move the equipment as close as possible to its place of use.

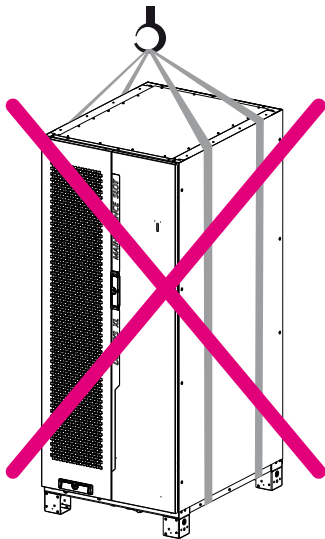


HANDLING FROM ONE SIDE

Remove the side closing plates located at the bottom of the equipment and insert the forks of the handling trolley.



6.5.2. HANDLING FROM ABOVE



When moving, always keep the cabinets in an upright position.



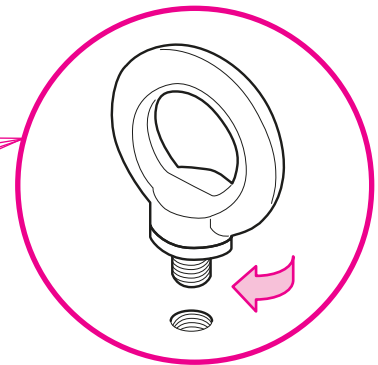
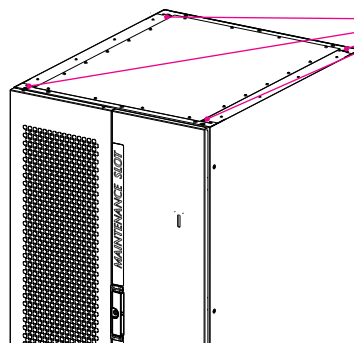
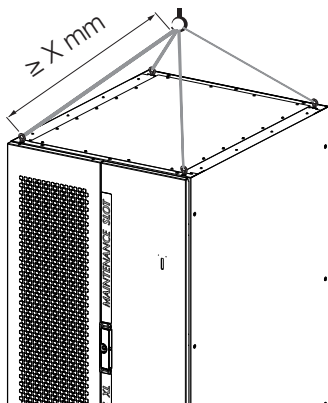
Never use harnesses!

HANDLING WITH SLINGS

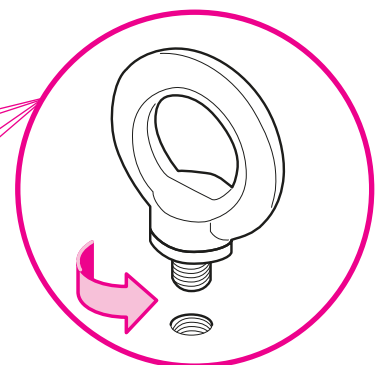
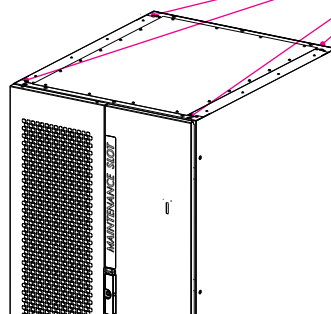
Lifting rings (supplied on request): internal $\varnothing$ 30 mm, M12 nut required.



Lift and lower cabinets slowly and smoothly.



Length of slings X = 150 cm



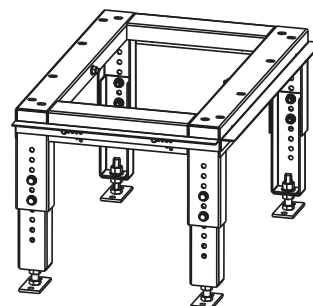
6.6. FLOOR ASSEMBLY

6.6.1. MOUNTING ON A FALSE FLOOR

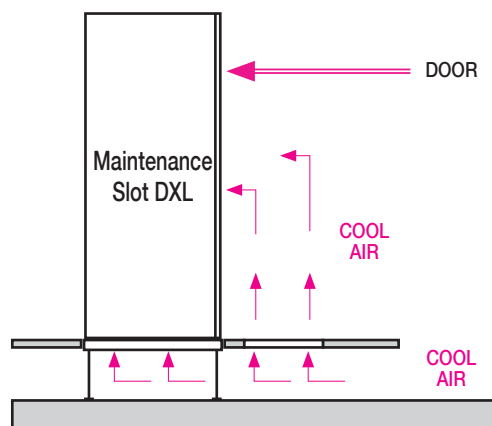
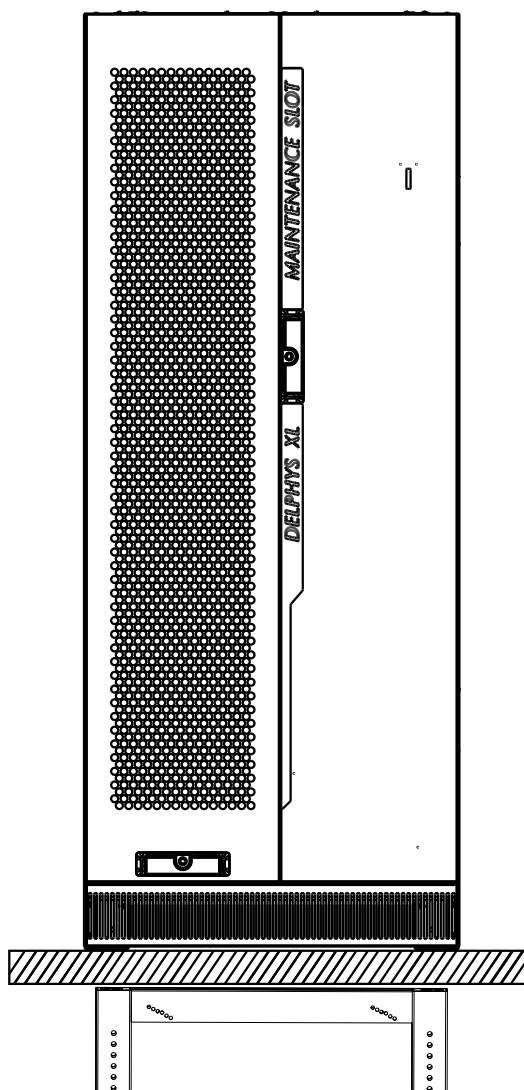
Depending on the UPS and the configuration, you may need to provide extendible feet. If the Maintenance Slot DXL is installed on a false floor (see the image below left), the equipment must be placed on an adjustable Socomec frame adapted to its weight and dimensions (see the image opposite).



For instructions on how to assemble the frame, refer to the technical installation file.



Provide perforated floor panels to ensure cool air can flow through (see the image below right).



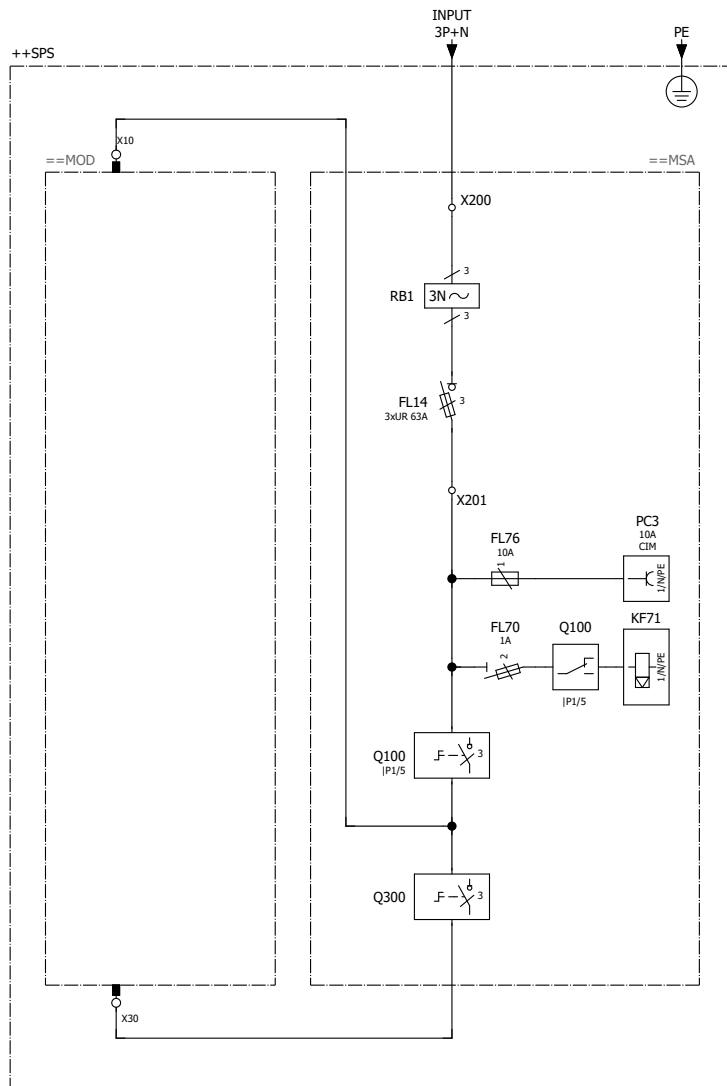
7. ELECTRICAL INSTALLATION



WARNING: The following instructions must be followed before moving the unit (after initial positioning). Failure to heed this warning could result in the unit falling over, equipment damage, injury and even death.

7.1. MAINTENANCE SLOT DXL ELECTRICAL DIAGRAM

For connection details, see §9 “CONNECTING TO THE MAINS”



To make the diagram easier to read, the illustration above shows an electrical representation of the installation

7.2. ELECTRICAL REQUIREMENTS

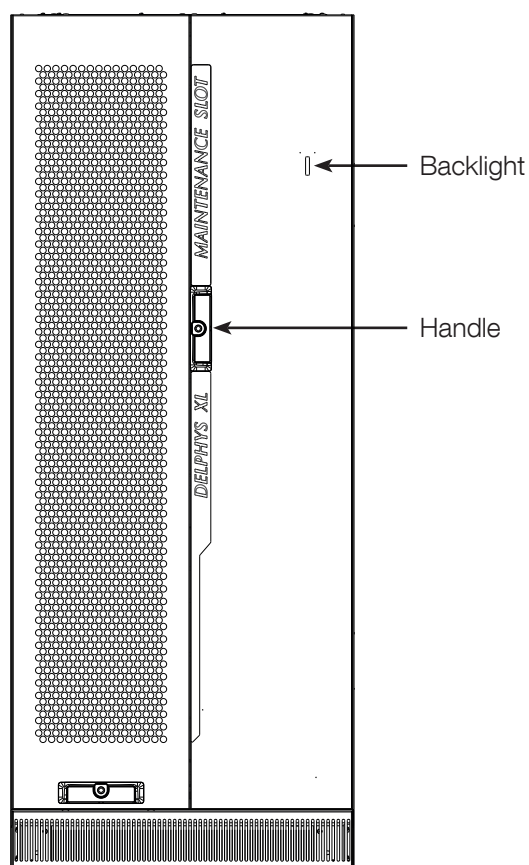
The installation and the system must conform to the national installation regulations (e.g. standard NFC 15-100 and standard EN60364).

7.2.1. UPSTREAM PROTECTION AND CABLE SIZING

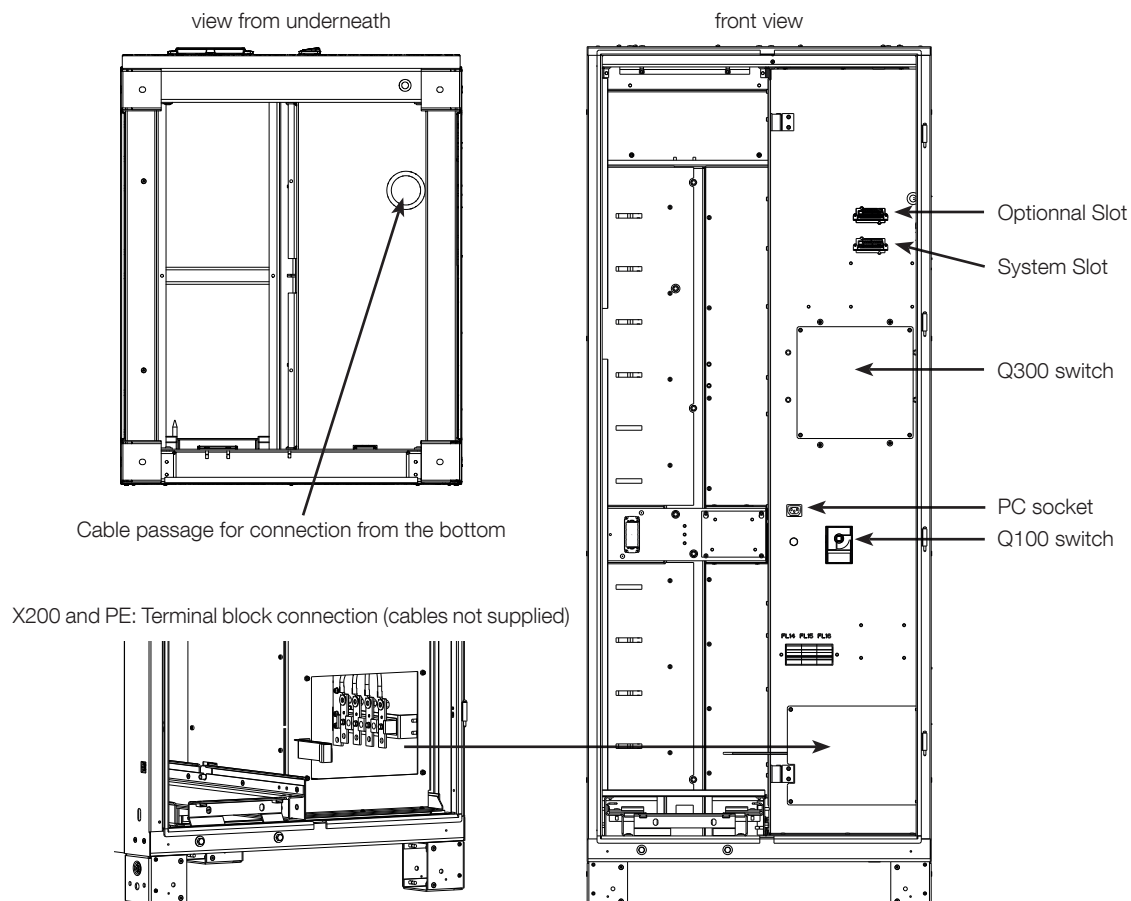
Please refer to the tables under §9 "CONNECTING TO THE MAINS" and §12 "TECHNICAL SPECIFICATIONS"

8. PRESENTATION

8.1. FRONT PANEL



8.2. IDENTIFYING SWITCHING AND CONNECTION DEVICES



9. CONNECTING TO THE MAINS

9.1. SAFETY



Risk of electric shock!

- Only qualified and authorised personnel may work on the equipment, install it or disassemble it.
- These instructions apply in conjunction with the equipment's instructions.
- The equipment is intended exclusively for the applications indicated in the instructions for use.
- Any accessories used with the equipment must be specified or approved by Socomec.
- Before setup, assembly, commissioning, configuration, cleaning, decommissioning, dismantling, wiring or maintenance work, make sure the equipment and system are powered off. Under certain conditions, with certain means and subject to certain qualifications and authorisations, work on a live unit may be recommended under specific instruction.
- The equipment is not designed to be repaired by the user.
- If you have any questions about the disposal of the equipment, please contact Socomec.
- For other languages, contact Socomec or your local distributor.
- Failure to comply with the instructions provided with the equipment and safety information can cause personal injury, electric shock, burning, death or damage to property.

9.2. TERMINAL CONNECTION FEATURES



The protective conductor (PE) is connected directly to the terminal indicated by the symbol "⏏"

X200	
Input	Input from below - 3-phase + N
Rated current	25 A
Characteristics	Cu 25 x 4 mm
Connection capacity	4 x 1 x 16 mm ²
Screws	4 x M10
Tightening torque ⁽¹⁾	40 Nm
PE	
Input	Input from below - 1-pole
Rated current	25 A
Characteristics	Cu 32 x 5 mm
Connection capacity	1 x 1 x 16 mm ²
Screws	1 x M10
Tightening torque ⁽¹⁾	40 Nm

(1) For screws with resistance class 8.8

More details §12



Use double-insulated cables

10. PREVENTIVE MAINTENANCE



NOTE: Only skilled and qualified technicians who have completed Socomec training on assembly, installation and inherent risks, and who have experience in the procedures, practices and precautions to be taken, may carry out work on this equipment.



NOTE: The maintenance and checks described below must be carried out when the voltage is disconnected.

We recommend regular maintenance to ensure the equipment works at its best and to avoid downtimes.

Any work on the equipment must be carried out only by Socomec personnel or by authorised support staff.

Maintenance involves carrying out in-depth checks on functionality, including:

- Electronic and mechanical parts
- Removing dust
- Environmental checks

11. ENVIRONMENTAL PROTECTION

Do not dispose of electrical appliances in unsorted household waste. Use separate collection facilities.

Comply with local waste disposal regulations to reduce the environmental impact of waste electrical and electronic equipment (WEEE) or contact your local authority for the collections in your area.

If electrical appliances are disposed of in landfills, dangerous substances can seep into the groundwater and enter the food chain, which can be detrimental to your health and well-being. Defective batteries are treated as toxic waste. When replacing batteries, used batteries must be handed over to an authorised and certified waste disposal company. In accordance with local bylaws, it is absolutely forbidden to dispose of batteries together with other industrial waste or household refuse.

The product carries the crossed-out bin symbol on the right to encourage users to recycle components and units as much as possible. Please be ecologically responsible and take this product to a recycling facility at its end of life. If you have any questions about the disposal of the product, contact Socomec

12. TECHNICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS	
Rectifier input voltage	3 x 380/400/415 V (-10%/+15%)
Frequency	50/60 Hz
Upstream protection	63 A Ur fuse or 40 A circuit breaker curve D
Neutral rating	Same as phases
Consumption in double-conversion mode	10 A / 1.5 kW
Consumption in Heat-run mode	25 A / 13 kW
ENVIRONMENT	
Operating temperature	0 to +50° C
Storage temperature	-20 to +70° C
Relative humidity (condensation-free)	(without condensation) up to 95%
Max. altitude	1000 m
Colour	Cabinet RAL 7016
Airflow	2000 m³/h
Maximum power loss – rated state	13 kW
Dimensions (WxDxH)	825 x 975 x 2120 mm
Weight	225 kg (665 kg with 1 module)
Protection degree	IP 20
Min. rear clearance of cabinet	0 mm
Min. left/right clearance of cabinet	0 mm
Min. top clearance of cabinet	400 mm
Min. bottom clearance of cabinet	n.a.
STANDARDS	
Device class	Degree of protection I (IEC 62477-1)
Safety	IEC 62040-1
EMC	IEC 62040-2
Product certification	  

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HEAD OFFICE

SOCOMEK GROUP

SAS SOCOMEK capital 10 607 040 €
R.C.S. Strasbourg B 548 500 149
B.P. 60010 - 1, rue de Westhouse
F-67235 Benfeld Cedex
Tel. +33 3 88 57 41 41 - Fax +33 3 88 57 78 78
info.scp.isd@socomec.com

www.socomec.com



UK OFFICE

SOCOMEK U.K. Limited

Power Conversion (UPS)
7-9 Lakeside Business Park,
Broadway Lane, South Cerney,
Gloucestershire, GL7 5XL
Tel. +44 (0) 333 015 3002
info.uk@socomec.com

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