



MODUCENTER MODULAR INSULATED DISTRIBUTION SYSTEM

User Manual

User manual

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1. Introduction

The Modular Insulated Distribution System - ModuCenter consists - of 5 standard dimensions (H x W from 320 x 220mm up to 640 x 440mm) in one depth 180mm with the possibility to add depth extension frames for each size with 75mm depth.

- The system can be provided as loose components or factory assembled.
- Designed for wall mounting or floor standing installation.
- Modular coupling possibilities in width and height.

STANDARDS

- EN/IEC 61439-2
- EN/IEC 60529
- EN/IEC 62262

DIMENSIONS AND TECHNICAL SPECIFICATIONS

Type Designation:	ModuCenter
Type of material:	Glass fiber reinforced Polycarbonate
Method of fixing:	Wall, floor
Intended location:	Indoor & Limited Outdoor
Degree of protection	
IP-code:	Up to IP65
IK-code:	Up to IK07

2. Shipping, Packing and Lifting

1. A knife or a pair of scissors should be used to cut the non-metallic packing of the enclosure. Be aware not to damage the enclosure itself by opening the packaging with a sharp tool.
2. Check the enclosure for any kind of damage as soon as it is unpacked. If found damaged, immediately contact the manufacturer at the numbers mentioned in 'contact details' section.
3. The company cannot be held responsible for any damage caused due to improper storing.



CAUTION:

Improper storing can cause damage to the enclosure.

Do not stack one enclosure over another while storing or during transportation.

4. Use a pallet truck for transportation of the enclosure. It is advised to unpack the enclosure only at the time of final installation.

3. Installation

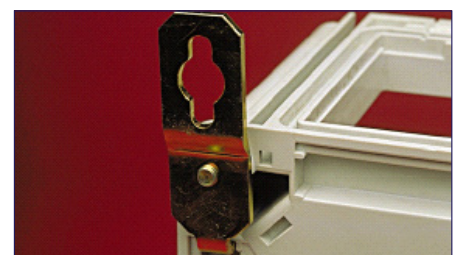
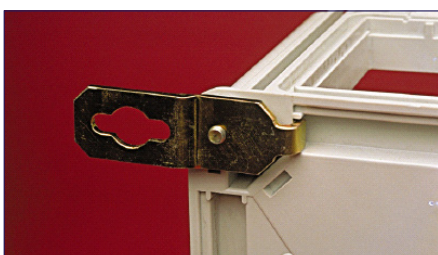
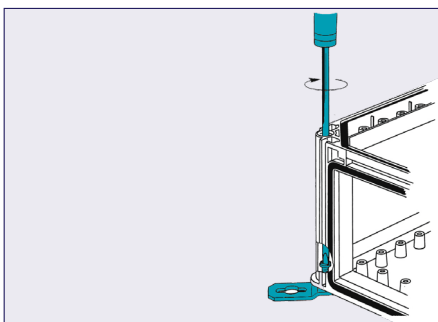
The enclosure is a modular type distribution system, designed for wall mounting or floor standing for use indoor and outdoor (with limited exposure to UV radiation).

The enclosure is designed with covers that can be opened by authorized operating personnel only.

Procedure for installing the enclosure on a wall:

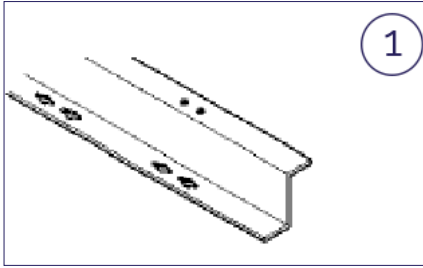
- Remove any obstruction, dirt etc. from the location.
- Make sure the floor- and wall surface is levelled
- The enclosure can be mounted on a wall by using brackets (up to 5 enclosures) or a supporting frame. The brackets can be positioned 0°, 45°, 90°, screw through the base corner holes.

INSTALLATION OF THE MOUNTING BRACKETS

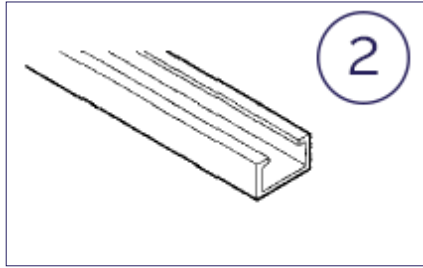


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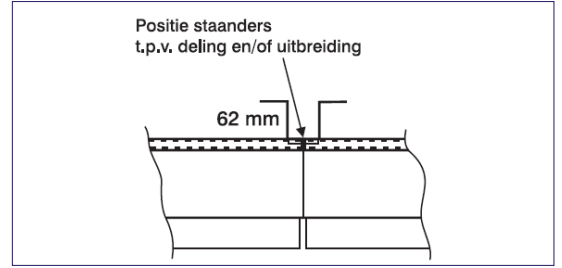
INSTALLATION ON THE FLOOR/WALL



1



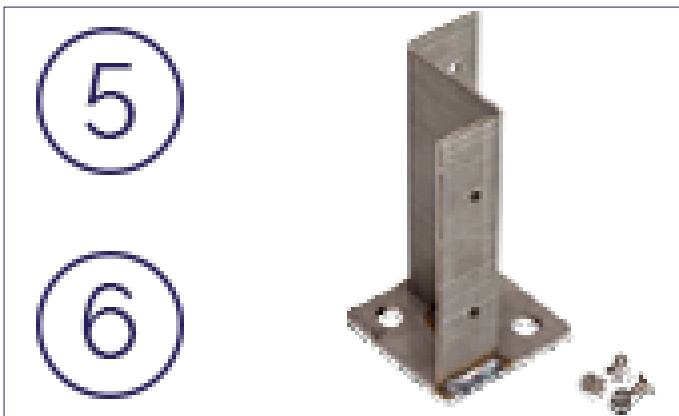
2



Floor/wall mounting can be performed by using the vertical Z-profiles at each partition/extension. The Z-profiles are bolted together by means of 2 C-profiles and sliding nuts + M8 bolts for fixation. The ModuCenter boxes can be mounted directly on the front of the Z-profiles by means of M5 x 16 Torx screws. The Z-profiles can be mounted on the floor using the stand supports + .

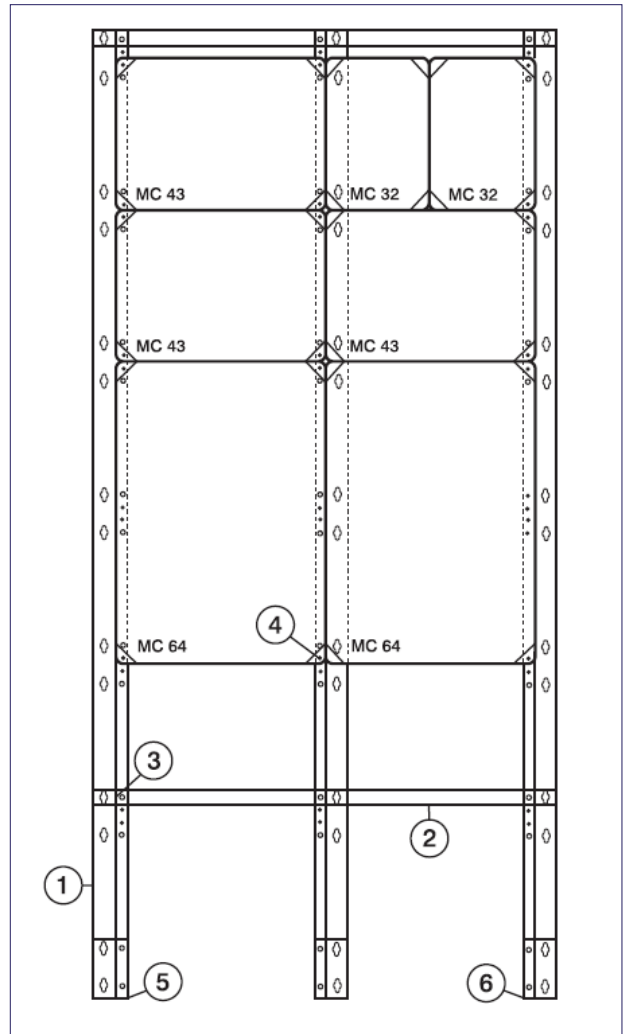


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5

6



4. Working with the distribution system

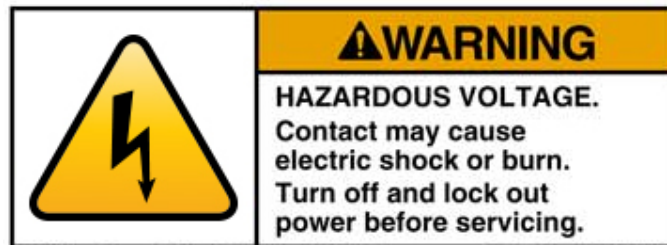
In general, all operations of switches and breakers can be performed in front of the covers. In cases where feeder switches are located behind the covers (or for replacement of fuses) the cover should be opened.

OPENING THE COVERS

1. Unlock the cover(s). Use an appropriate screwdriver that matches the cover screws.
2. Remove the cover(s).
3. Feeder switches can be operated / Fuses can be replaced

In cases where access to the busbar system is required, additionally the cover plates can be removed by using a slotted screw driver

The protective space is now accessible and all necessary service and administrating operations can be performed



5. Maintenance

MAINTENANCE INTERVALS

The maintenance intervals depend on the intensity of use of the switchgear installed in the switchboard and can be either preventive or repair work, but should always be in accordance with local regulations and standards (i.e. NEN3140).

ATTENTION

Observe all relevant operating instructions of the electrical components as well as local requirements, regulations and standards (i.e. NEN3140).

INSPECTION INTERVAL

A visual inspection as well as a control of mechanical functions (e.g. interlocks etc.) of the assembly should be done every 4 years as a minimum.

An interval of ≤ 1 year is recommended.

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The following checklist can be applied as a guideline during inspection.

1	inspection of service conditions	
2	(visual) inspection of the assembly	
3	inspection of the ventilation openings clean ventilation openings/change dust filters	
4	inspection of measures to achieve IP rating, no ingress of condensation. Unused gland opening	
5	inspection of cables & glanding's	
6	inspection on the effects of pollution, clean with dry piece of cloth or use vacuum cleaner/do not use high pressure air!	
7	inspection for damages	
8	inspection on the effects of corrosion, repair failures on surface / make dry if necessary	
9	inspection of sub-assemblies & electrical components maintenance in accordance with relevant component manuals	
10	inspection of connectors & terminals	
11	check correct protection of electrical components & cables, change fuses if necessary (decoloring, correctly placed)	
12	check settings of electrical components (e.g. overload & short circuit protection) correct settings according the documentation of the electrical component. Test Residual Current (earth leakage) devices.	
13	inspection of plug-in contacts remove old grease, put new grease on	
14	inspection of measures against electrical shock (PE conductor, PE connections) check insulation resistance (earth resistance /dielectric testing).	
15	check torque values for electrical connections (see torque values for electrical connections), $\mu\Omega$ testing of busbar system	

Odink & Koenderink Nederland B.V. cannot be held responsible for any undesirable situation arising due to the above mentioned reasons or improper or no maintenance, cleaning or inspection as specified in this manual.

6. Warnings, cautions, notes

WARNING



Warning notices are used to emphasize that hazardous voltage, currents, or other conditions that could cause personal injury are present in this equipment or may be associated with its use.

Warning notices are also used for situations in which inattention or lack of equipment or knowledge could cause either personal injury or damage to equipment.

CAUTION



Caution notices are used for situations in which equipment might be damaged if care is not taken.

NOTE



Notes call attention to information that is especially significant to understanding and operating the equipment.

This document is based on information available at the time of its publication. While efforts have been made to ensure accuracy, the information contained herein does not cover all details or variations in hardware and software, nor does it provide for every possible contingency in connection with installation, operation, and maintenance. Features may be described herein that are not present in all hardware and software systems. O&K assumes no obligation of notice to holders of this document with respect to changes subsequently made.

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8. Contact

Please make sure that you have the Nominal Plate data before calling the service numbers:

T +31 53 573 03 03

E info@odink-koenderink.nl



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