

## Digidim Mx Chassis (458)

The Digidim 458Mx is a range of mechanical chassis to which one, two or three Digidim 458 series modules can be fitted to provide up to 24 channels of control. Each load channel is protected by an individual MCB.

Each chassis contains one, two or three sections, depending on the chassis size selected, and has either four or eight load circuit MCBs, depending on the variant. Each chassis section has a control circuit MCB, and a set of output terminals for the connection of load wiring.

The Mx Chassis can be fully installed and wired before fitting the module(s), as the chassis are supplied with module by-pass connectors. All electrical installation, testing and powering up of the lighting circuits can thus be carried out before fitting the modules. This prevents possible damage to the modules due to load circuit overload or faults, or to the use of high voltage insulation testing equipment.

A 458M1 is for a single module. A combination of up to two modules can be used with the 458M2, and up to three modules with the 458M3 Chassis. Available module types are DIM4, DIM8, CTR8, SW8, and UNI8.

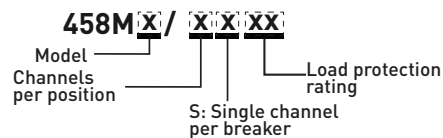
*Note: Mx Chasssis are supplied without modules. These can be ordered separately to suit the particular load type.*

### Key Features

- Wall-mounted vertically; installer-friendly.
- Modular system
  - Lights and wiring can be tested, then control modules fitted.
  - Control modules simple to attach and remove.

### Part numbers

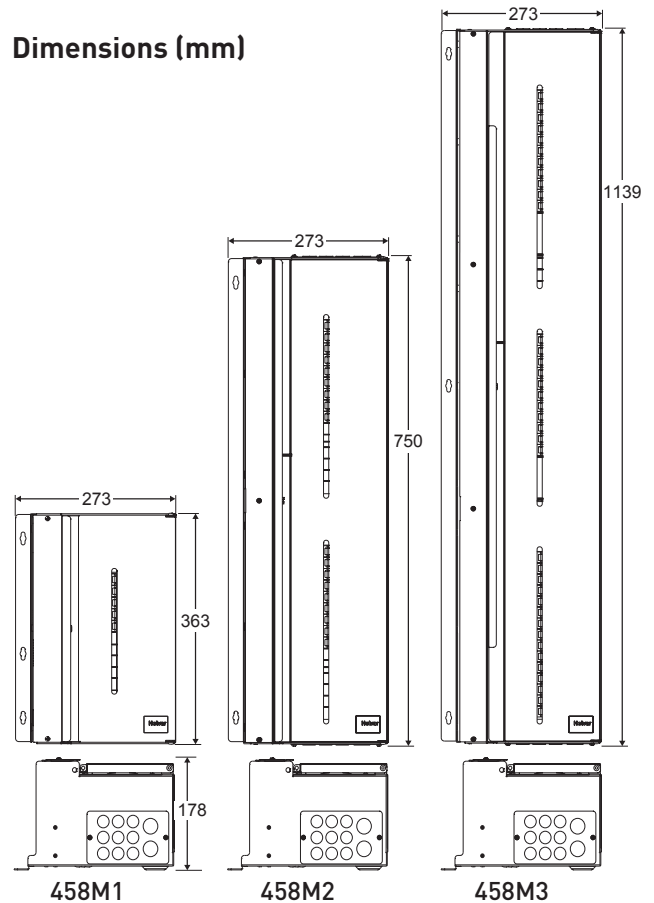
The 458Mx offers a large numbers of configuration options. Contact your local Helvar representative to discuss specific requirements.



### Example configurations

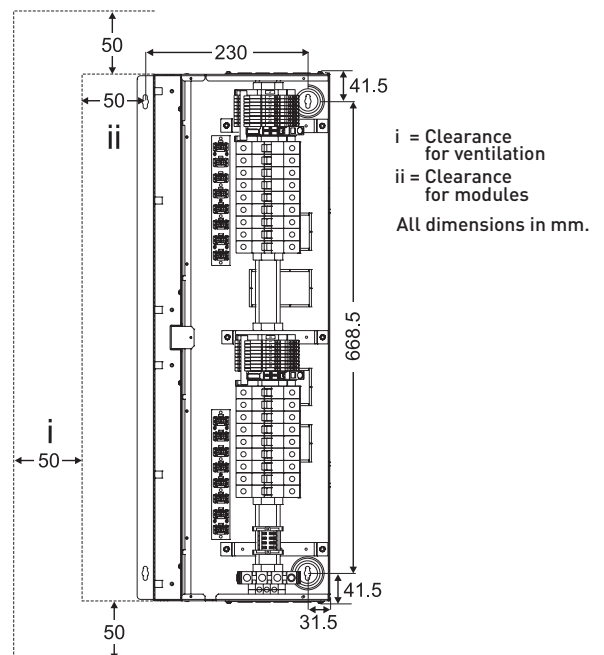
Part number	Position in chassis	No. of channels	Load protection
458M1/4S10	Position A	4	10 A
458M2/8S068S06	Position A	8	6 A
	Position B	8	6 A
458M3/4S068S068S10	Position A	4	6 A
	Position B	8	6 A
	Position C	8	10 A

### Dimensions (mm)



### Installation: Mounting and Clearance

- Mount the chassis vertically on a flat surface.
- Mount chassis on wall using:
  - 4 screws [458M1 and 458M2], or 6 screws [458M3].
- Ensure enough space is left for ventilation and for attaching module(s): 5 cm above, below and to the right of the chassis, and 10 cm to the left.
- Leave sufficient clearance to allow cables and trunking to be connected. The 458M2 is shown here as an example:



## Technical Data

### Connections

- Mains supply:** 230 VAC / 400 VAC
- Supply protection:** External MCB or fuse  
458M1, 458M2, 458M3: 63 A (max.)  
for each position  
Single phase use: 125 A (max.)  
*Note: Supplying multiple blocks of MCBs on the same phase requires this limit because of the neutral connection.*  
Rated  $\leq$  17 kA to meet EN 61439-2
- Load protection:** MCB type C 10 kA. Rating as specified for individual units.
- SDIM cable loom:** An SDIM cable loom is attached to the DIN-rail inside the chassis. This can be connected to the SDIM terminals of the module(s), to enable connection of the module(s) to a Helvar Imagine system.

### Installation

- Mounting:** Vertically wall mounted: 4.5 mm mounting holes.  
Use No. 8 or No. 10 screws with head diameter of 6 mm to 9 mm.

### Mechanical Data

- Dimensions:** See diagrams.
- Weight:**
- 458M1: 5.9 kg (458M1 including 9 MCBs)
  - 458M2: 12.2 kg (458M2 including 18 MCBs)
  - 458M3: 18 kg (458M3 including 27 MCBs)

### Operating Conditions

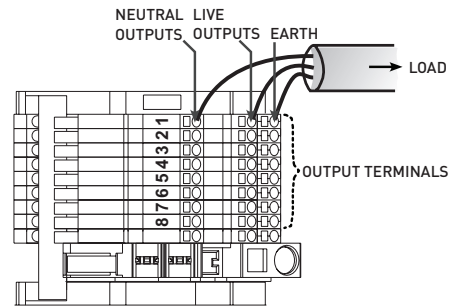
- Ambient temperature:** 0 °C to +40 °C
- Relative humidity:** Max. 90 %, noncondensing
- Storage temperature:** -10 °C to +70 °C

### Conformity and Standards

- Safety:** EN 61439-2
- Environment:** Complies with WEEE and RoHS directives

## Connections

### Load Connections: detail



### Mains and Load Connections

458M3 shown as an example:

