

# QUICK MANUAL



Design and estimation of  
low voltage systems and boards

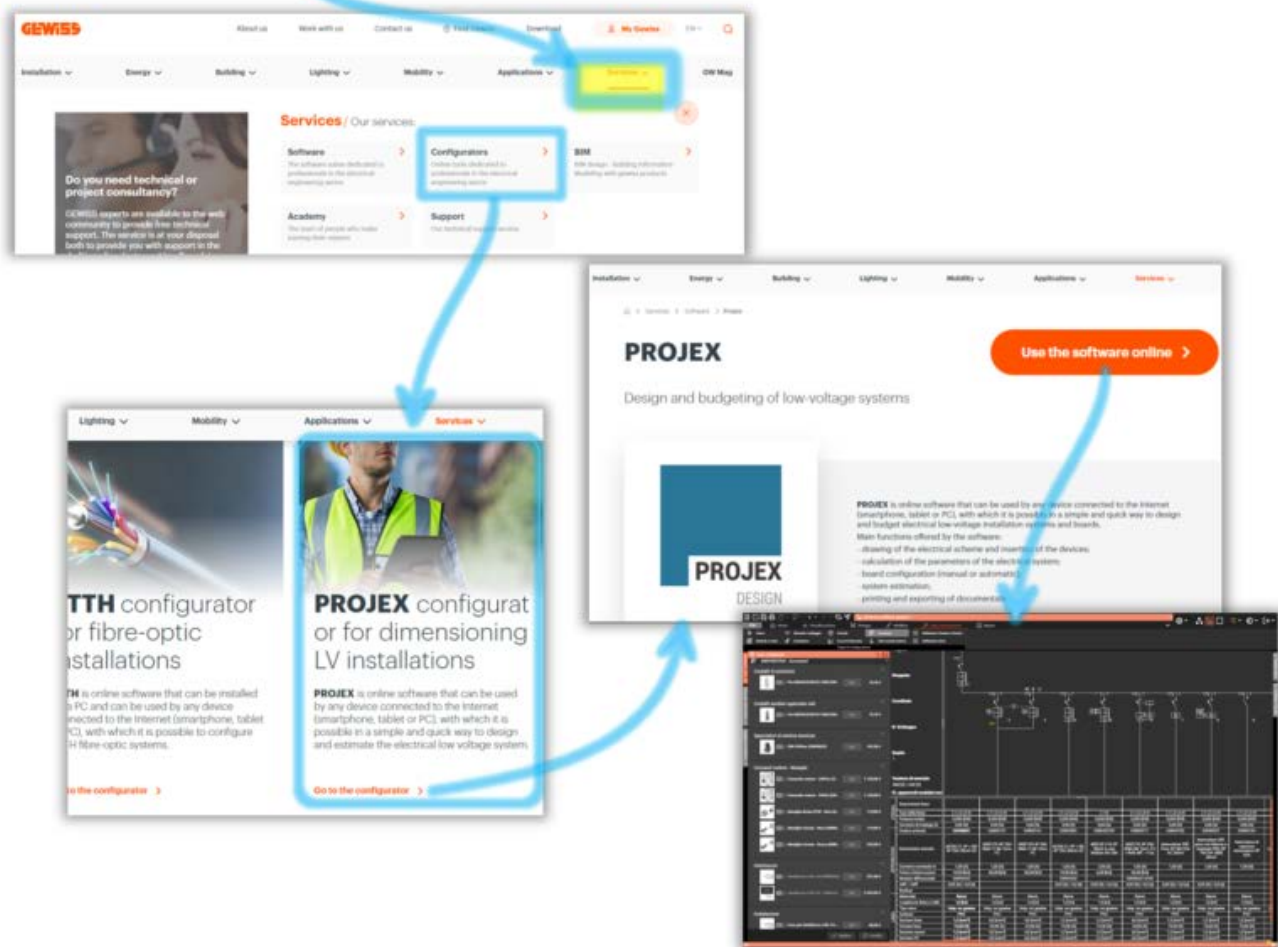
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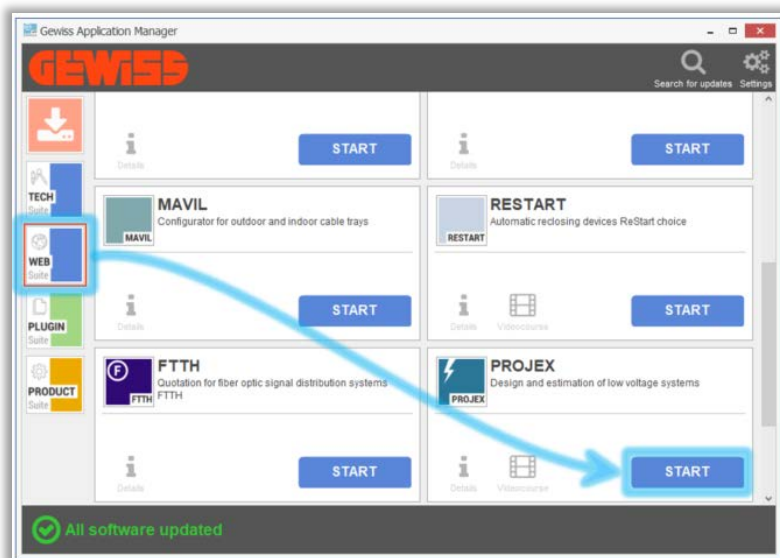
# 1 USE OF THE PROGRAM

## 1.1 Online version

- From Gewiss website:



- From GWAPPMANAGER application:



## 1.2 Desktop version

- From Gewiss website:

The screenshot shows the Gewiss website's navigation menu with 'Services' highlighted. A blue arrow points to the 'Services / Our services' section, where 'Software' is highlighted. Another blue arrow points to the 'PROJEX DESIGN' card in the 'Tech Suite' section. A third blue arrow points to the 'Download Software' button on the PROJEX product page. A final blue arrow points to the 'SetupPROJEX.exe' download icon.

- From GWAPPMANAGER application:

The screenshot shows the Gewiss Application Manager interface. A blue arrow points to the 'TECH Suite' icon in the left sidebar. Another blue arrow points to the 'PROJEX' application card in the main area, where the 'DOWNLOAD' button is highlighted. A third blue arrow points to the 'Download Software' button on the PROJEX product page. A final blue arrow points to the 'SetupPROJEX.exe' download icon.

## 2 SOFTWARE STRUCTURE

Sections

Navigation bar

General commands

Section commands

Quick commands

The screenshot shows the PROJEX software interface. At the top, there is a menu bar with 'File', 'Drawing', 'Data and settings', 'Report', and 'Visualizations'. Below the menu bar is a toolbar with various icons. The main area displays a wiring diagram for a 'Single wire diagram board 1'. Below the diagram is a table with columns for 'Line description', 'Line phases', 'Total power', 'Operating current (s)', 'Note', 'Rated current In', 'Article code', 'Article description', 'Breaking capacity', 'Differential module', 'IΔIf / IΔRf', 'Backup', 'Selectivity', and 'Downstream line length'. The table contains data for various electrical components like switches and breakers.

### 2.1 Sections

#### 2.1.1 Settings



To access the SETTINGS window:

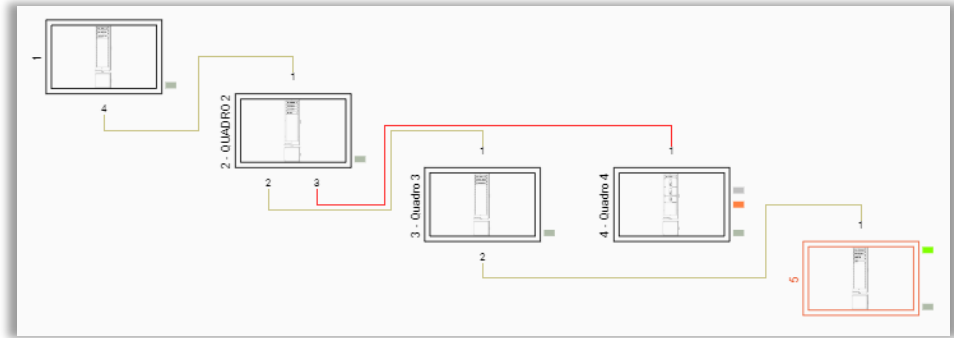
The screenshot shows the 'Research' window with the 'GENERAL SETTINGS' section expanded. The settings are organized into several categories:

- GENERAL SETTINGS:** Program settings, Colours, Terminals, Internal wiring, Busway, Cables model numbers, Cable prices, Cartouches data, Additional devices, Export settings.
- DATA OF THE PROJECT:** Distribution, Project data, System alerts, Material list.
- BOARD:** Board data, Activation, Board alerts, Terminal blocks grouping, N° DIN modules and terminal block, Thermal test, User articles, Material list.
- DEVICE:** Load data, Symbol and criteria data, Articles data, Article calculation messages, Conduit data, Cable calculation messages, Accessories.

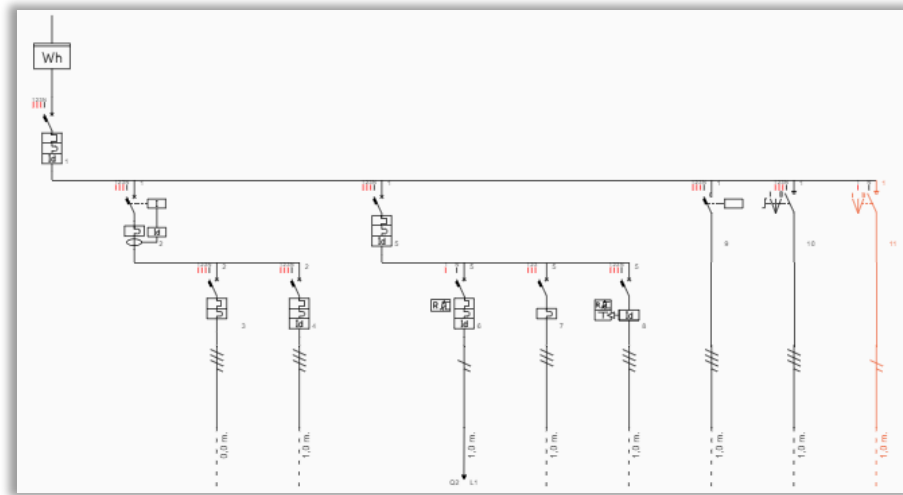
2.1.2 Block diagram view



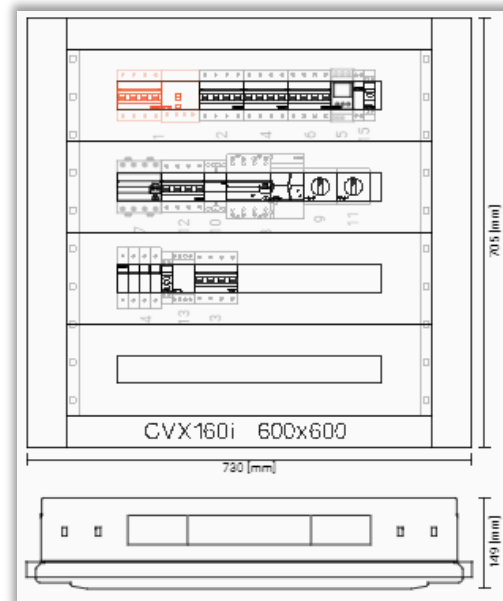
Representation of all the boards connected to each other



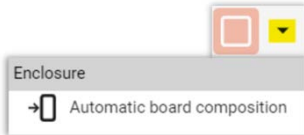
2.1.3 Electrical diagram view



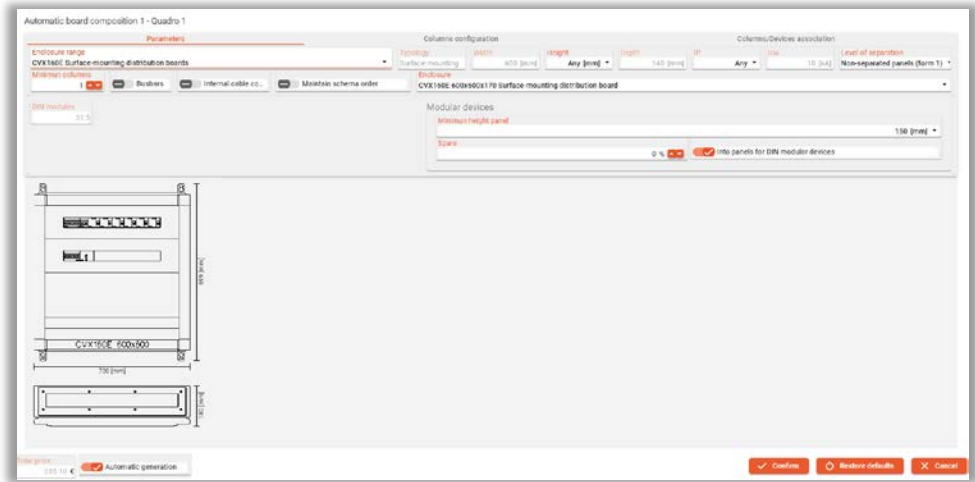
2.1.4 Frontview view



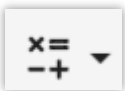
### Automatic composition of the board



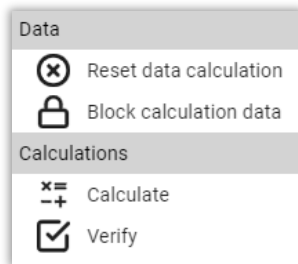
After inserting the devices (by hand or by calculation) you can compose the board in automatically way. In the upper part there are the filters and the settings for the choice of the board.



### 2.1.5 Calculation



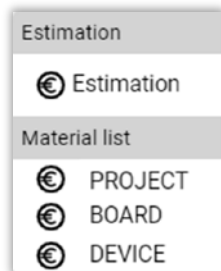
Reset, Block, Calculate, Verify



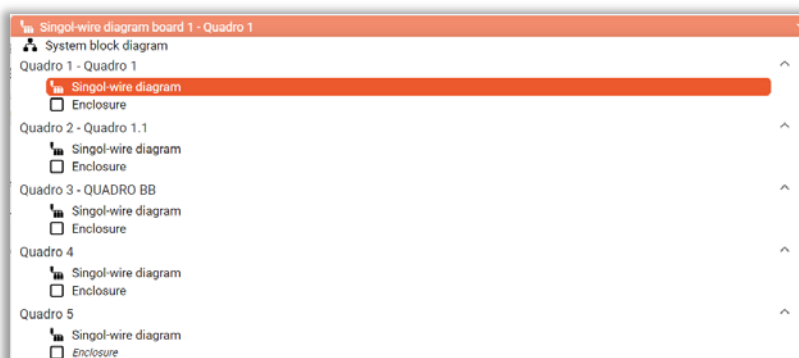
### 2.1.6 Quotation



Material cost of the device / board / project and general estimation of the electrical system



### 2.2 Navigation bar



To switch to the various electrical diagrams and the various frontviews present in the project



## 2.3 General commands

### 2.3.1 File management



New, Open, Save, Print

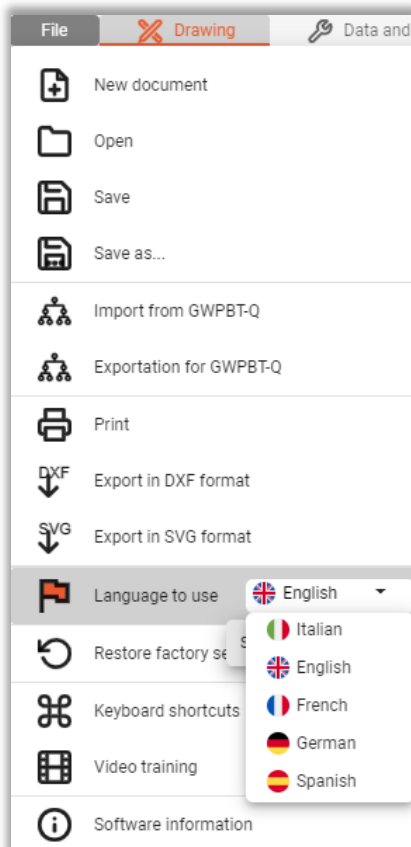
### 2.3.2 Action management



Undo, Redo, Previous navigation, Next navigation, Refresh view

## 2.4 Section commands

### 2.4.1 File > for all sections (views):



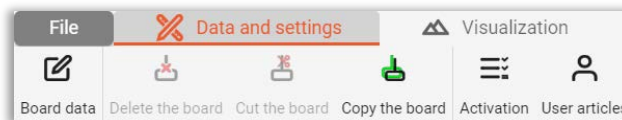
It contains:

- some of the main commands for files
- Export / Import for PBT-Q
- Print
- Export DXF/SVG format
- Language setting
- Other...

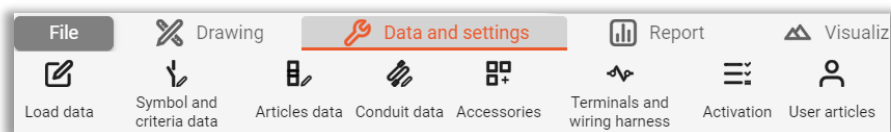
### 2.4.2 Data and settings

It is specific to the section, i.e. it changes according to the active section:

- Block diagram:



- Electrical diagram:



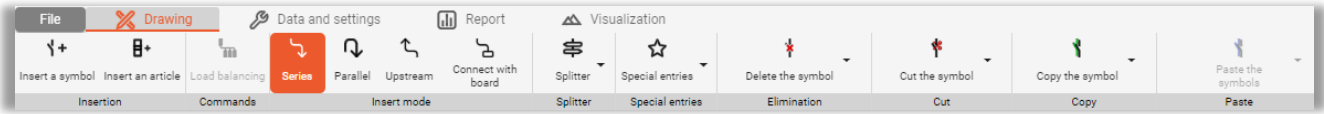
- Frontview:





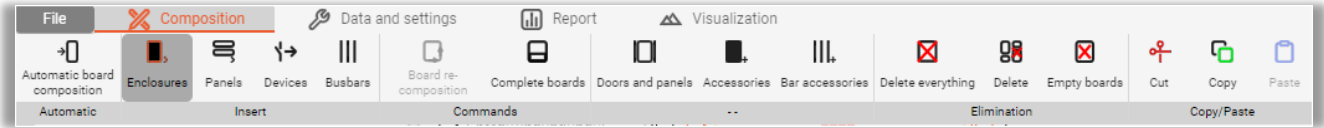
### 2.4.3 Drawing > for electrical diagram view:

- All the commands to draw the wire diagram (electrical diagram)



### 2.4.4 Composition > for frontview view:

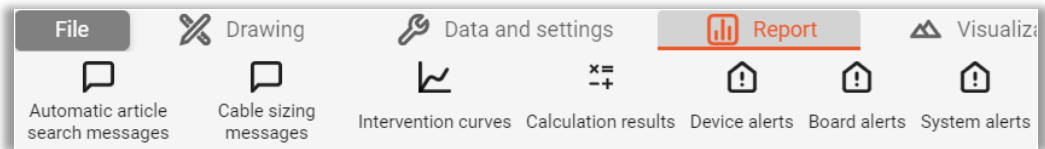
- All the commands to compose the enclosure (frontview)



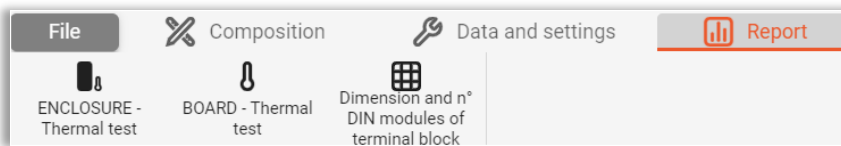
### 2.4.5 Report

Results of the calculation, curves of the MCB and thermal tests of the boards:

- Electrical diagram:

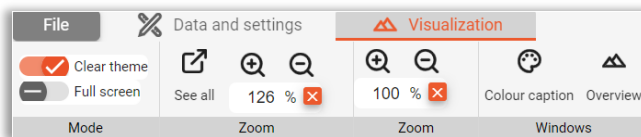


- Frontview:

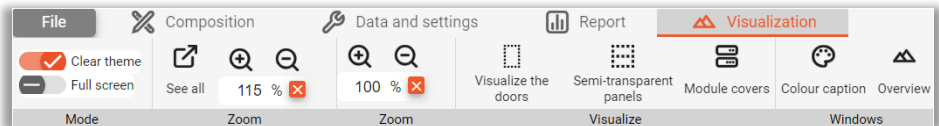


### 2.4.6 Visualization:

- Block diagram:
- Electrical diagram:

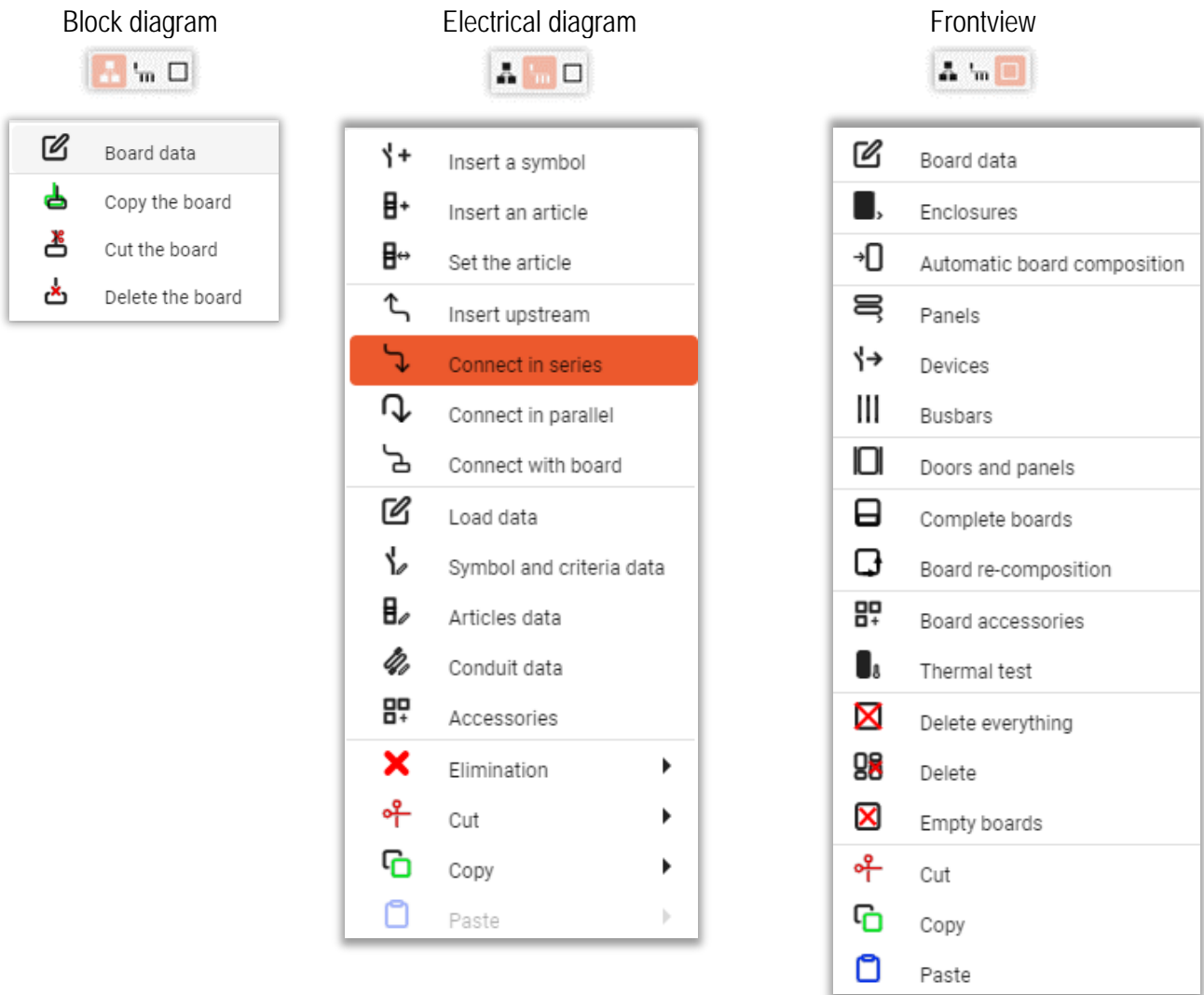


- Frontview:



**2.5 Quick commands**

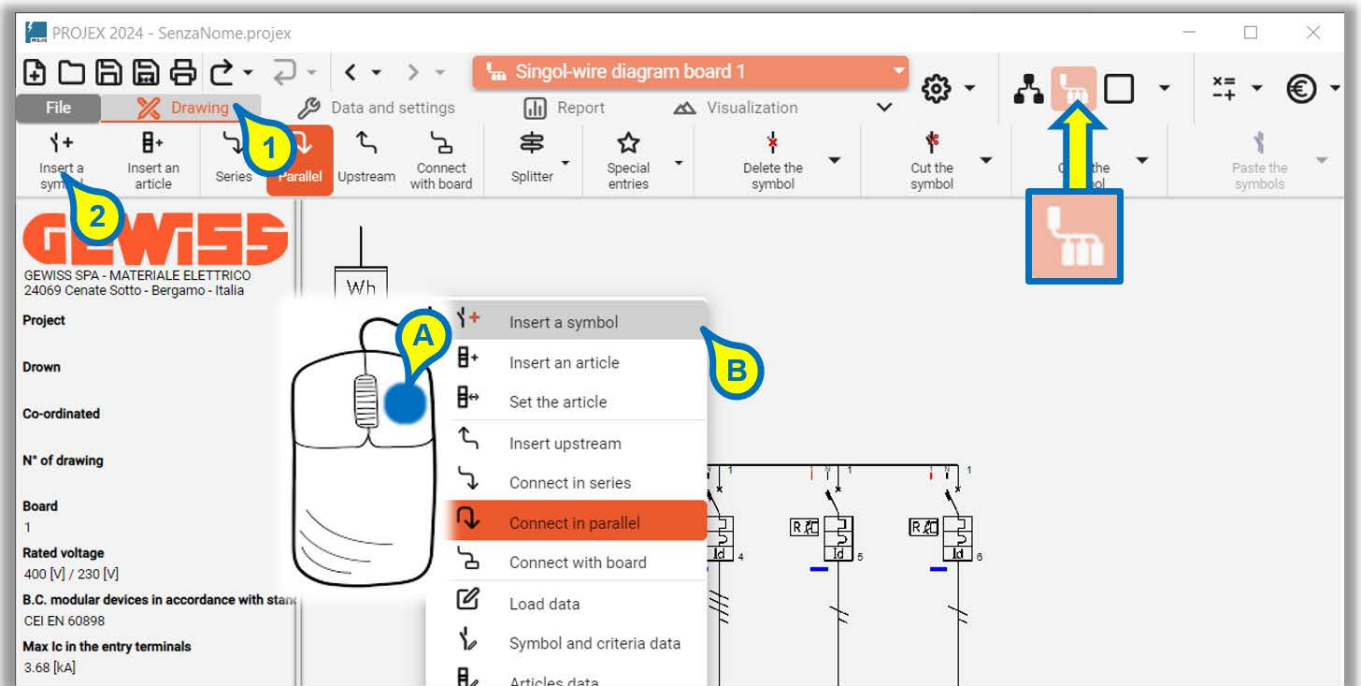
Clicking on the **right button of the mouse** you can use immediately the main commands of the main operations. The commands lists are specific to the view:





The commands are also found in the menus seen before (Drawing, Composition, Data and settings, Report)

### 2.5.1 Insert SYMBOL



From Electrical diagram view :

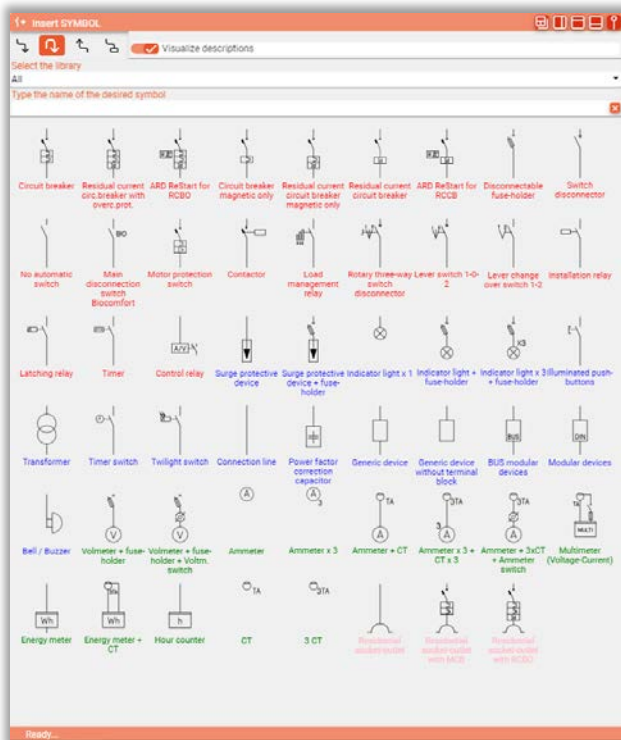


Mode 1

-  Drawing menù
-  Insert a symbol command

Mode 2

-  right click mouse
-  Insert a symbol command

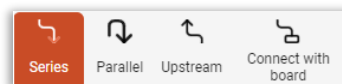


The window can be positioned:

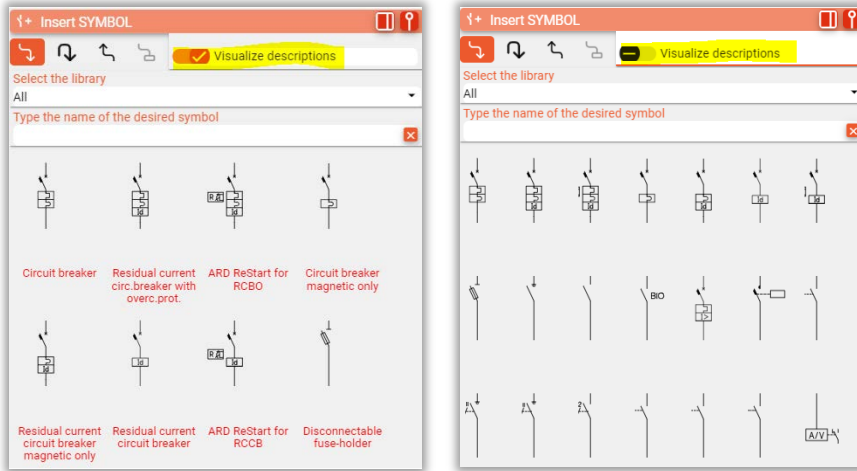
-  movable
-  right
-  left
-  to the top
-  to the bottom
-  locked (kept open)
-  unlocked

Functions:

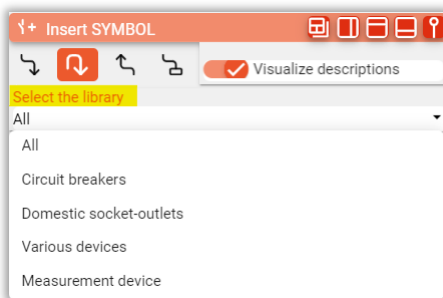
- selection of the insertion kind



• description display



• selection by typology

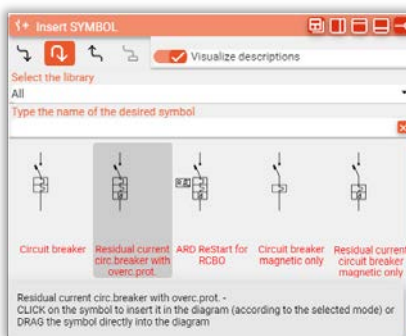


• selection by text



2.5.1.1 **TIP: SYMBOL INSERTION**

Positioning the mouse pointer on the symbols, a rectangle (tooltip) appears with the explanation of how to insert the symbols in the electrical diagram:



Residual current circ. breaker with overc. prot. -  
 CLICK on the symbol to insert it in the diagram (according to the selected mode) or  
 DRAG the symbol directly into the diagram

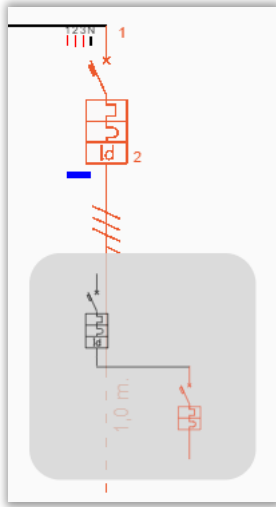
Mode 1: select type of insertion (series, parallel, upstream, as start of a sub-board) and **CLICK** on the symbol

Mode 2: **DRAG** the symbol directly onto the diagram: depending on where the symbol is positioned, the following

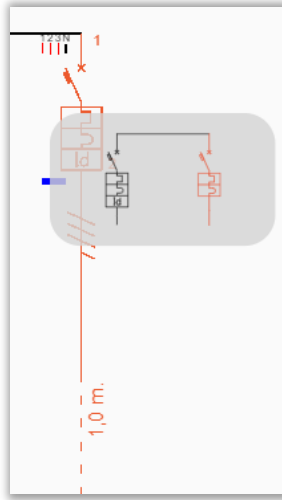
will be inserted:

- in series (before or after another symbol already present in the scheme)
- in parallel (before or after another symbol already present in the diagram)
- in series with a symbol already present in the diagram as the start of a new connected-board:

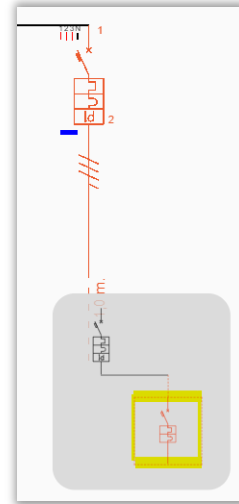
Insertion in series




Insertion in parallel

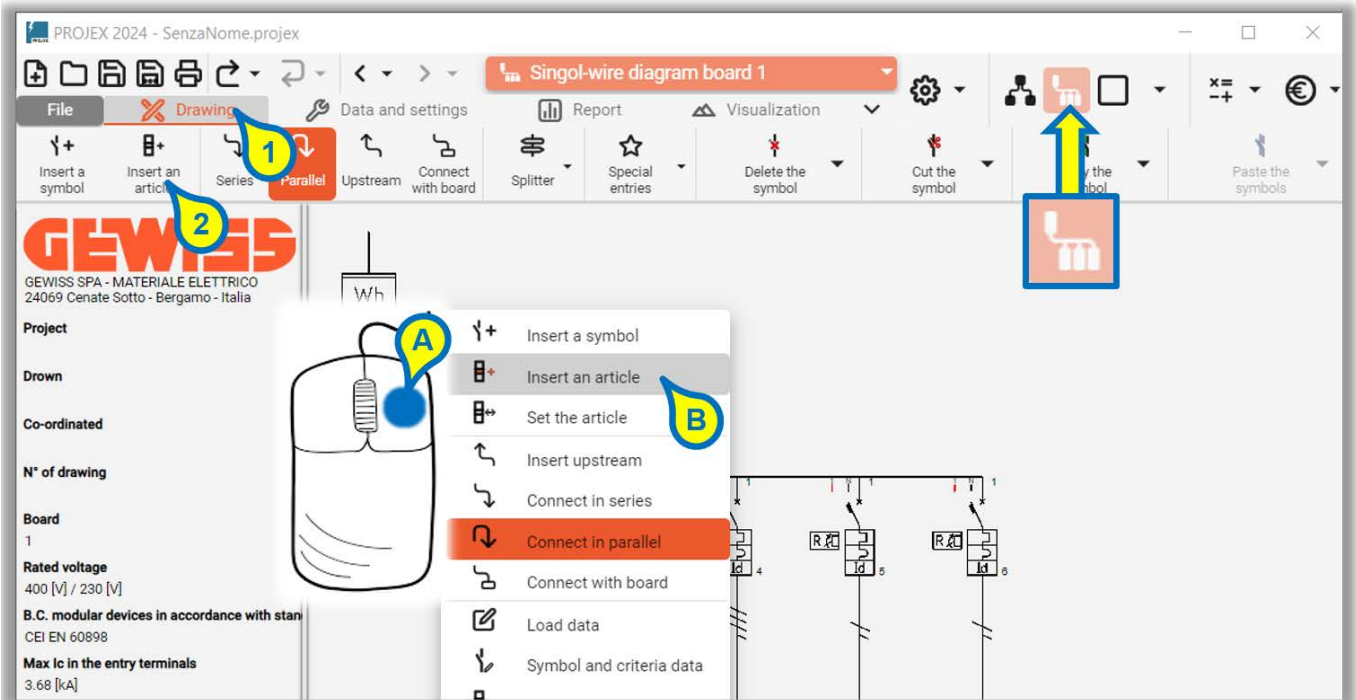


Insertion new board





## 2.5.2 Insert ARTICLE



From Electrical diagram view :

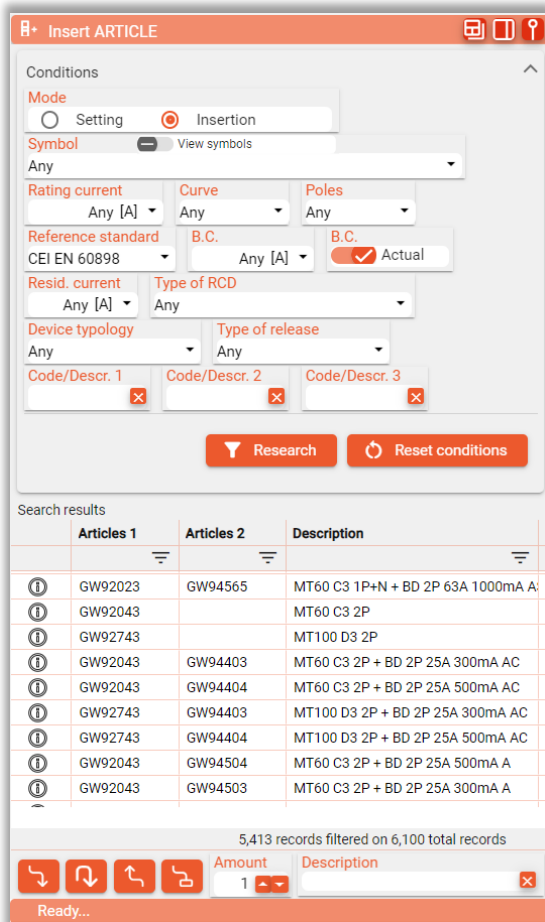


Mode 1


-  Drawing menù
-  Insert an article command

Mode 2

-  right click mouse
-  Insert an article command



The window can be positioned:

-  movable
-  right
-  left
-  locked (kept open)
-  unlocked

Functions:

- selection the **Modify** or **Insertion** mode:
  - > **Modify** (to modify the selected article or symbol already present in the scheme)
  - > **Inserimento** (to add a new item with the corresponding symbol):



- filters for selecting the article (selection parameters):



- table of results (with filters for sorting and selection among filtered codes):

Search results				
	Articles 1	Articles 2	Description	Price
(i)	GW92022	GW94401	MT60 C2 1P+N + BD 2P 25A 10mA AC	280.00 €
(i)	GW92022	GW94565	MT60 C2 1P+N + BD 2P 63A 1000mA A	297.00 €
(i)	GW96220	GW72104	Compact disconnetable fuseholder 1P+	14.40 €
(i)	GW96215	GW72104	Disconnetable fuseholders 1P+N 10,3x	19.20 €
(i)	GW96216	GW72111	Disconnetable fuseholders 1P+N 8,5x3	18.95 €
(i)	GW92042		MT60 C2 2P	91.60 €
(i)	GW92742		MT100 D2 2P	104.00 €
(i)	GW92042	GW94403	MT60 C2 2P + BD 2P 25A 300mA AC	202.60 €
(i)	GW92042	GW94404	MT60 C2 2P + BD 2P 25A 500mA AC	202.60 €
(i)	GW92742	GW94403	MT100 D2 2P + BD 2P 25A 300mA AC	215.00 €
(i)	GW92742	GW94404	MT100 D2 2P + BD 2P 25A 500mA AC	215.00 €
(i)	GW92042	GW94503	MT60 C2 2P + BD 2P 25A 300mA A	223.60 €
(i)	GW92042	GW94504	MT60 C2 2P + BD 2P 25A 500mA A	223.60 €
(i)	GW92042	GW94402	MT60 C2 2P + BD 2P 25A 30mA AC	221.60 €
(i)	GW92742	GW94503	MT100 D2 2P + BD 2P 25A 300mA A	236.00 €
(i)	GW92742	GW94504	MT100 D2 2P + BD 2P 25A 500mA A	236.00 €
(i)	GW92742	GW94402	MT100 D2 2P + BD 2P 25A 30mA AC	234.00 €
(i)	GW92042	GW94502	MT60 C2 2P + BD 2P 25A 30mA A	255.60 €
(i)	GW92742	GW94502	MT100 D2 2P + BD 2P 25A 30mA A	268.00 €
(i)	GW92042	GW94563	MT60 C2 2P + BD 2P 63A 300mA AS	293.60 €
(i)	GW92042	GW94566	MT60 MCB C2 2P + BD 2P 63A 30mA A	292.60 €
(i)	GW92042	GW94401	MT60 C2 2P + BD 2P 25A 10mA AC	296.60 €

5,444 total records

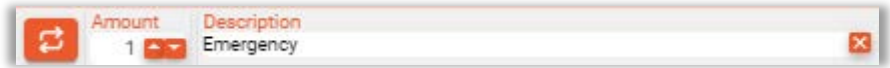


- choice of the **type of inserting** (depending on the mode):



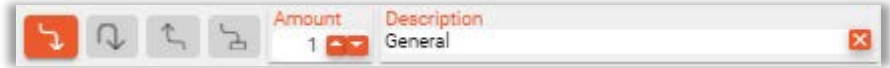
>

Editing the selected item



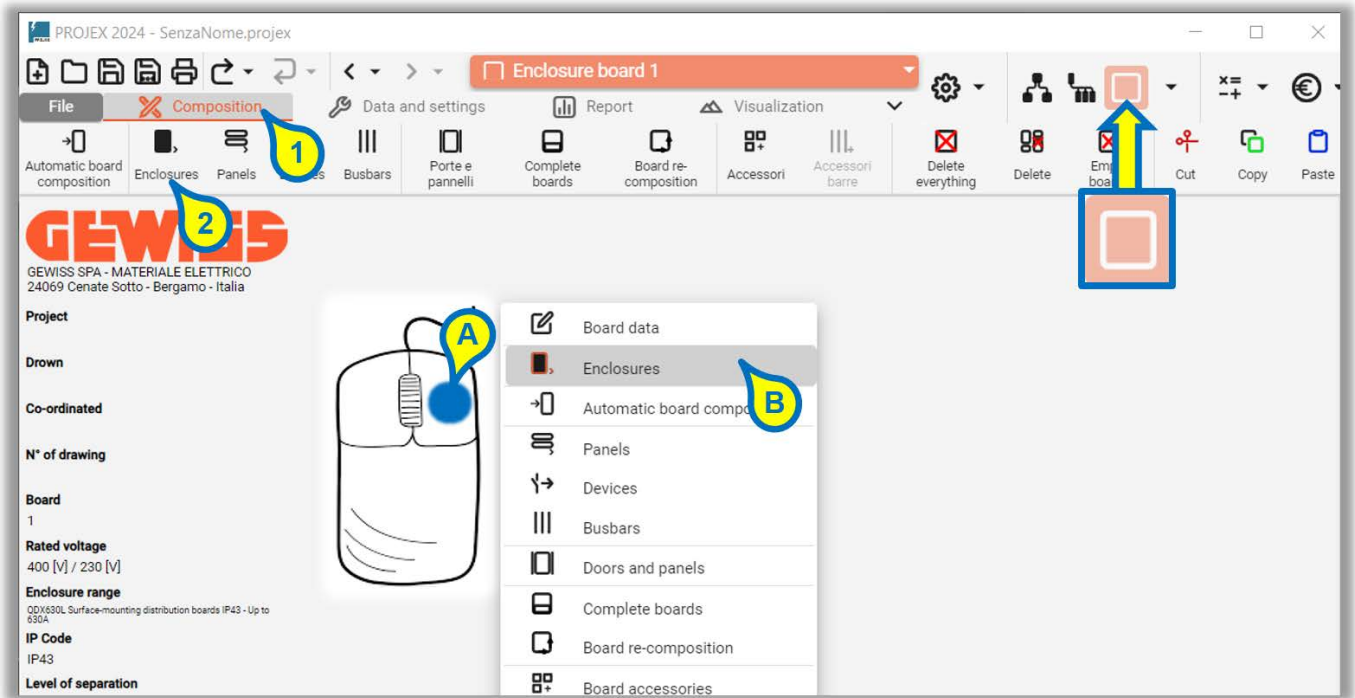
>

Adding a new item





2.5.3 Insert ENCLOSURE



From Frontview view 

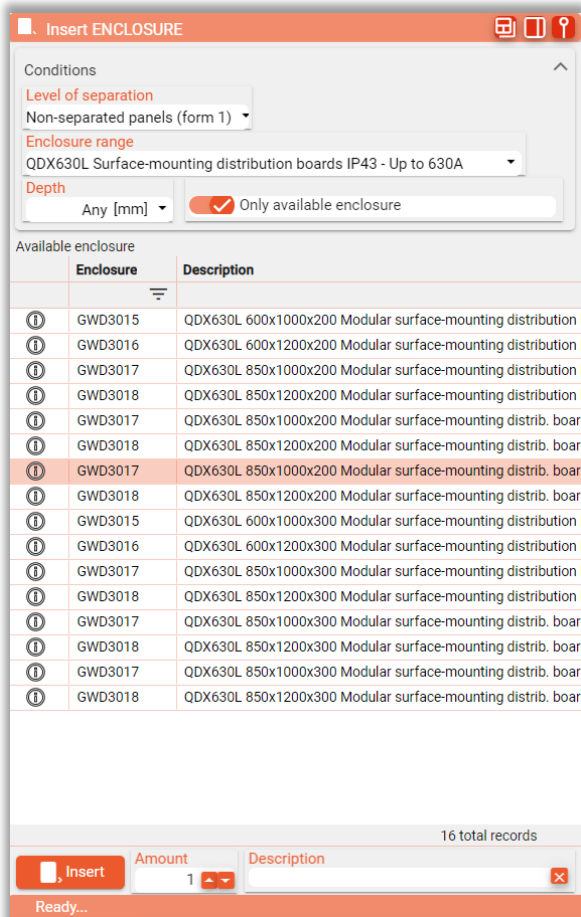


Mode 1


-  Composition menù
-  Insert enclosure command

Mode 2

-  right click mouse
-  Insert enclosure command

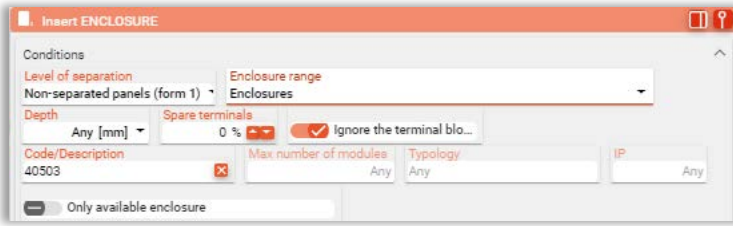


The window can be positioned:

-  movable
-  right
-  left
-  locked (kept open)
-  unlocked

Functions:

- filters for selection:



- list of enclosures (based on the choices made in the filters and the devices present in the electrical diagram), positioning the mouse pointer over the outline of the enclosure you can see the main data:

Enclosure	Description
GWD3065	QDX630L 400x1600x200 External cable compartment
GWD3066	QDX630L 400x1800x200 External cable compartment
GWD3067	QDX630L 400x2000x200 External cable compartment
GWD3065	QDX630L 400x1600x300 External cable compartment
GWD3059	QDX630L 600x1600x200 Modular floor-mounting distribution board
GWD3060	QDX630L 600x1800x200 Modular floor-mounting distribution board
GWD3066	QDX630L 400x1800x300 External cable compartment
GWD3061	QDX630L 600x2000x200 Modular floor-mounting distribution board
GWD3067	QDX630L 400x2000x300 External cable compartment
GWD3059	QDX630L 600x1600x300 Modular floor-mounting distribution board
GWD3062	QDX630L 850x1600x200 Modular floor-mounting distribution board
GWD3060	QDX630L 600x1800x300 Modular floor-mounting distribution board
GWD3063	QDX630L 850x1800x200 Modular floor-mounting distribution board
GWD3061	QDX630L 600x2000x300 Modular floor-mounting distribution board
GWD3064	QDX630L 850x2000x200 Modular floor-mounting distribution board
GWD3062	QDX630L 850x1600x200 Modular floor-mounting distrib. board + Right internal cable comp
GWD3062	QDX630L 850x1600x200 Modular floor-mounting distrib. board + Left internal cable comp
GWD3062	QDX630L 850x1600x300 Modular floor-mounting distribution board
GWD3063	QDX630L 850x1800x300 Modular floor-mounting distribution board
GWD3063	QDX630L 850x1800x200 Modular floor-mounting distrib. board + Right internal cable comp

30 record total

Insert Amount: 10 Description

**GWD3062**  
QDX630L 850x1600x200 Modular floor-mounting distrib. board + Right internal cable compartment

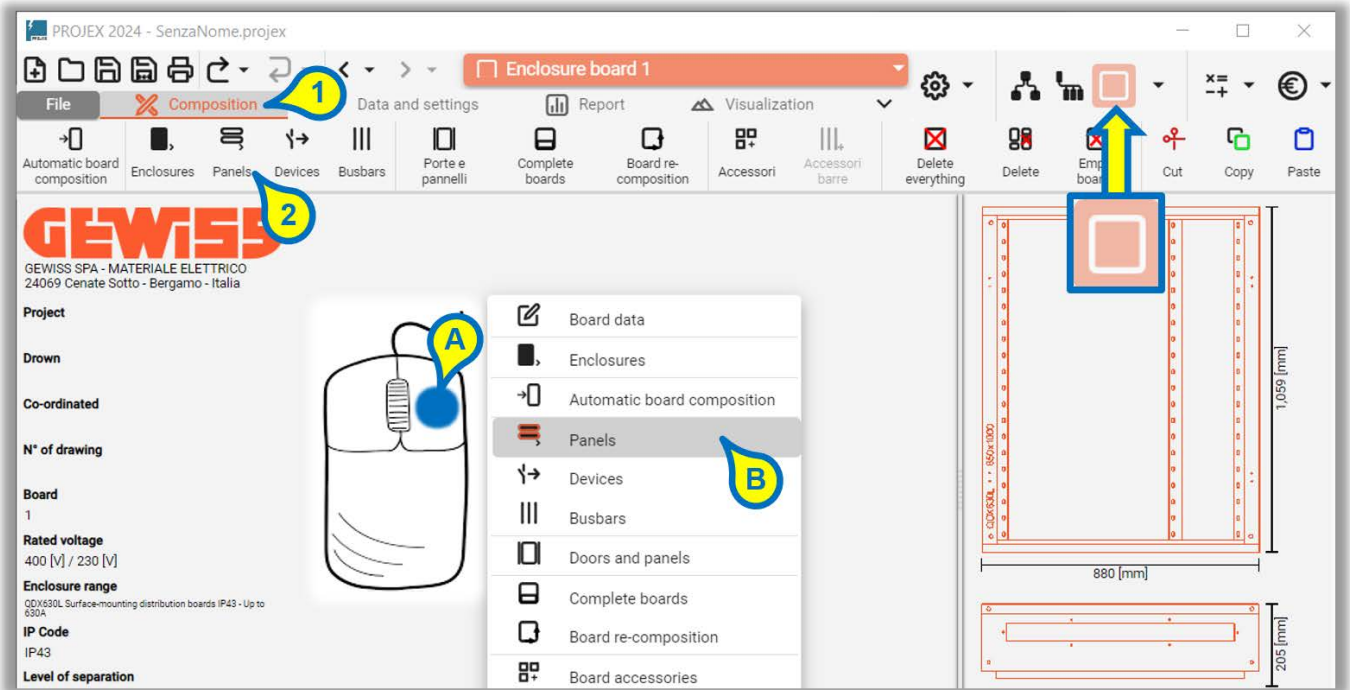
Level of separation: Non-separated panels (form 1)  
 Enclosure range: QDX630L Floor-mounting distribution boards IP43 - Up to 630A  
 Insulation class: I  
 Enclosure typology: Floor-mounting  
 Material: Metal  
 Nominal dimensions (WxHxD): 850 [mm] x 1.600 [mm] x 200 [mm]  
 Actual dimensions (WxHxD): 850 [mm] x 1.760 [mm] x 230 [mm]  
 Main structure: GW3043 - QDX 630L FLOOR MOUNT. BASE-HEADBOARD 850x200  
 Uprights: GW3047 - QDX 630L FLOOR MOUNT. FRONT UPRIGHTS 850x1600  
 Rear uprights: GW3045 - QDX 630L FLOOR MOUNT. REAR FRAME 850x1600  
 Internal cable compartment: GW3083 - QDX 630L FLOOR MOUNT. INTERN.COMPART.1600x200  
 low current: 23 [kVA]

Price: 1.102,40 €



Column number
Enclosure range
Nominal dimensions (WxHxD)
Actual dimensions (WxHxD)
Main structure
Uprights
Functional frames
Internal cable compartment

### 2.5.4 Insert PANELS



From Frontview view 

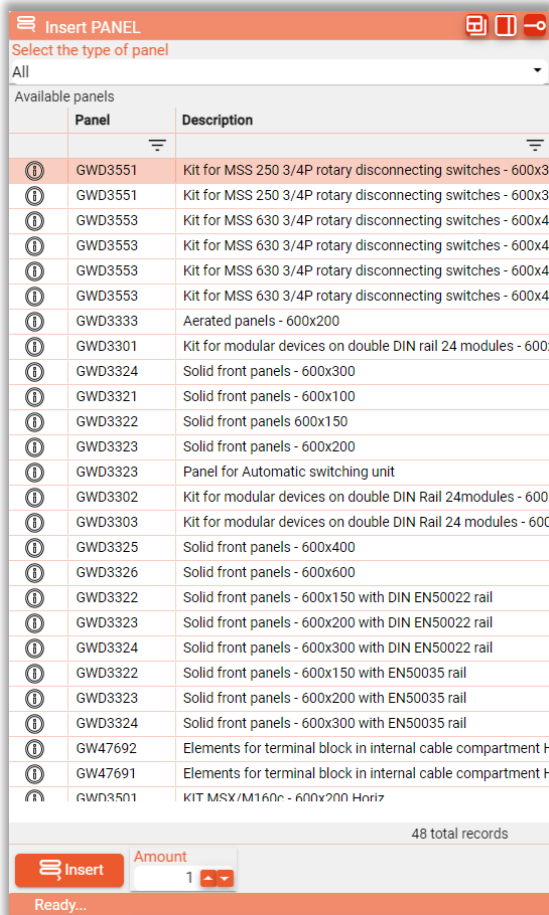


Mode 1

-  Composition menu
-  Insert panels command

Mode 2

-  right click mouse
-  Insert panels command

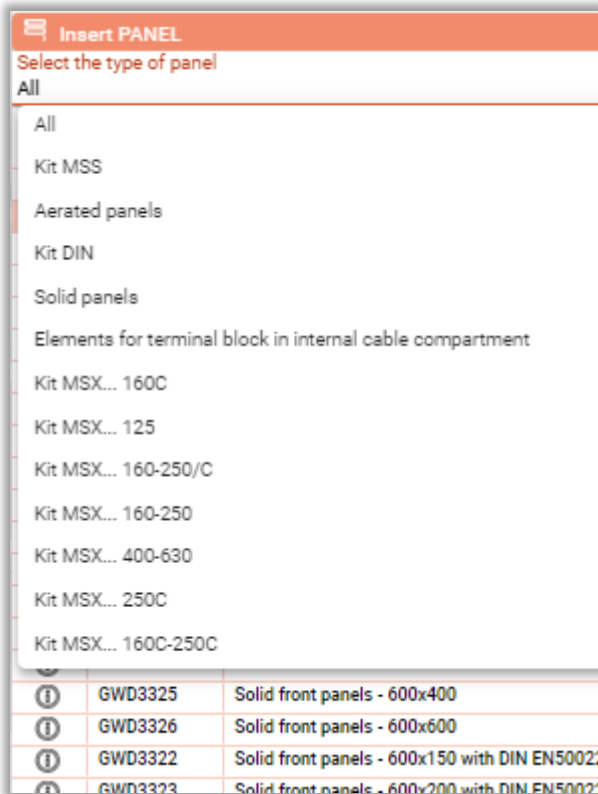


The window can be positioned:

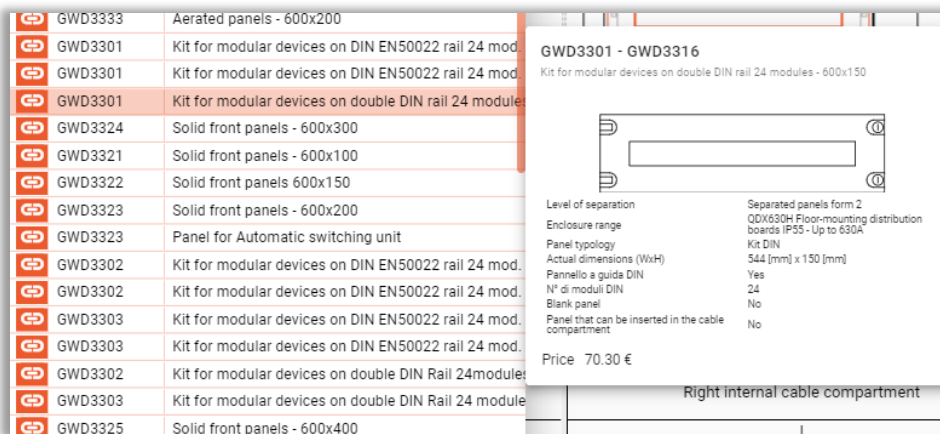
-  movable
-  right
-  left
-  locked (kept open)
-  unlocked

Function:

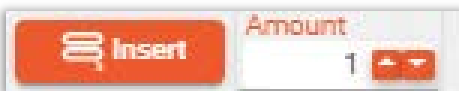
- filter for selecting the **type of panels** to display:



- list of panels (only those compatible with the enclosures inserted), positioning the mouse pointer over the outline of the panel you can see its main data:



- insert key and amount:



### 2.5.4.1 TIP PANEL INSERTION

Mode 1:

- **double click** on the shape of the panel you want to insert > the panel is inserted

Mode 2:

- **drag** the panel you want to insert

**Insert PANEL**  
Select the type of panel

GEWISS  
2408 Cava Sott. - Bergamo

Panel	Description	Price
GWD3551	Kit for MSS 250 3/4P rotary disconnecting switches - 600x3	256,00 €
GWD3551	Kit for MSS 250 3/4P rotary disconnecting switches - 600x3	256,00 €
GWD3553	Kit for MSS 630 3/4P rotary disconnecting switches - 600x4	301,00 €
GWD3553	Kit for MSS 630 3/4P rotary disconnecting switches - 600x4	301,00 €
GWD3553	Kit for MSS 630 3/4P rotary disconnecting switches - 600x4	301,00 €
GWD3553	Kit for MSS 630 3/4P rotary disconnecting switches - 600x4	301,00 €
GWD3333	Aerated panels - 600x200	148,00 €
GWD3301	Kit for modular devices on double DIN rail 24 modules - 600	72,80 €
GWD3324	Solid front panels - 600x300	61,40 €
GWD3321	Solid front panels - 600x100	44,30 €
GWD3322	Solid front panels - 600x150	45,50 €
GWD3323	Solid front panels - 600x200	48,90 €
GWD3323	Panel for Automatic switching unit	48,90 €
GWD3302	Kit for modular devices on double DIN Rail 24modules - 600	77,30 €
GWD3303	Kit for modular devices on double DIN Rail 24 modules - 600	90,90 €
GWD3325	Solid front panels - 600x400	73,80 €
GWD3326	Solid front panels - 600x600	96,60 €
GWD3322	Solid front panels - 600x150 with DIN EN50022 rail	113,70 €
GWD3323	Solid front panels - 600x200 with DIN EN50022 rail	117,10 €
GWD3324	Solid front panels - 600x300 with DIN EN50022 rail	129,60 €
GWD3322	Solid front panels - 600x150 with EN50035 rail	136,50 €
GWD3323	Solid front panels - 600x200 with EN50035 rail	139,90 €
GWD3324	Solid front panels - 600x300 with EN50035 rail	152,40 €
GW4762	Elements for terminal block in internal cable compartment	32,20 €
GW4761	Elements for terminal block in internal cable compartment	34,50 €
GWD3501	KIT MSX/M100c - 600x200 Horiz.	159,00 €

**Double click**

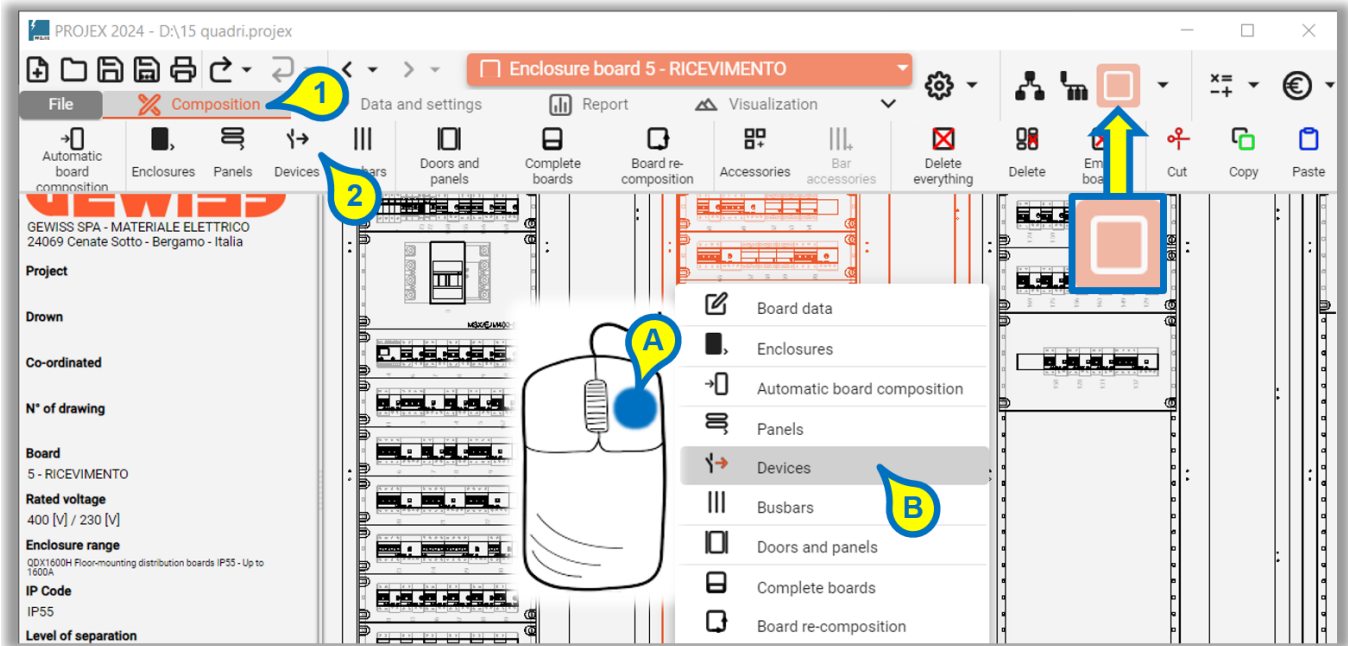
**Drag**

**GWD3303 GWD3316**  
Kit for modular devices on double DIN Rail 24 modules - 600x200



Level of separation: Separated panels form 2  
Enclosure range: 001620, Floor-mounting distribution boards (F42 - up to 630A  
Panel supports: 60 DIN  
Actual dimensions (HxW): 344 (mm) x 200 (mm)  
Panel and DIN rail: Yes  
N° of DIN modules: 24  
Blank panel: No  
Panel that can be inserted in the cable compartment: No  
Price: 90,90 €

### 2.5.5 Insert DEVICE



From Frontview view 



Mode 1

-  Composition menù
-  Insert devices command

Mode 2

-  right click mouse
-  Insert devices command



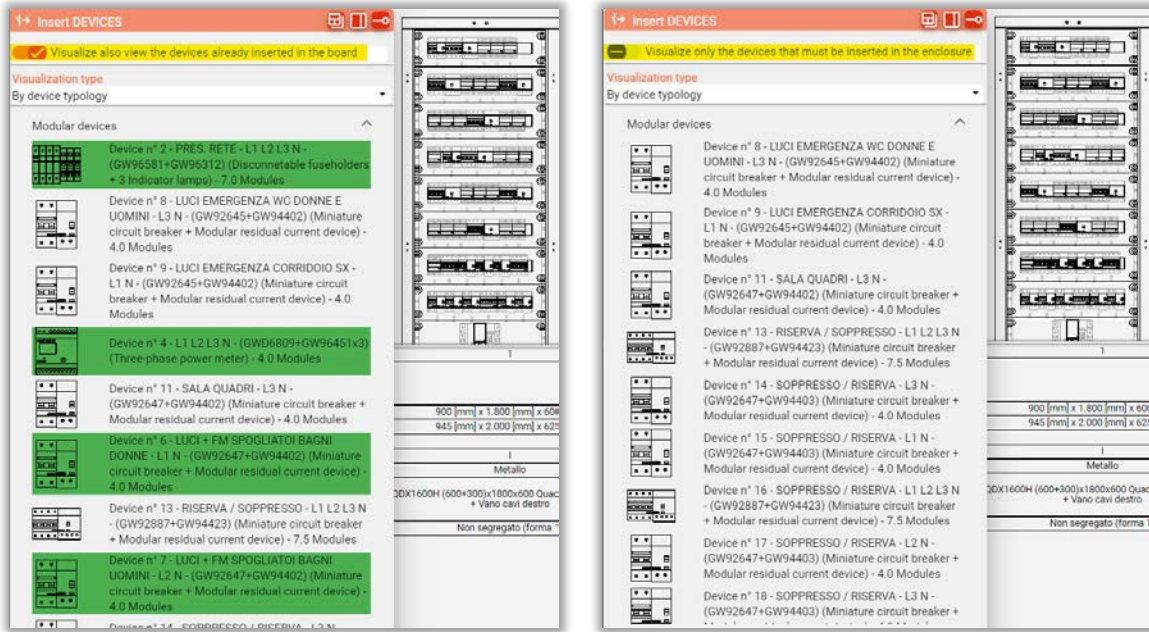
The window can be positioned:

-  movable
-  right
-  left
-  locked (kept open)
-  unlocked

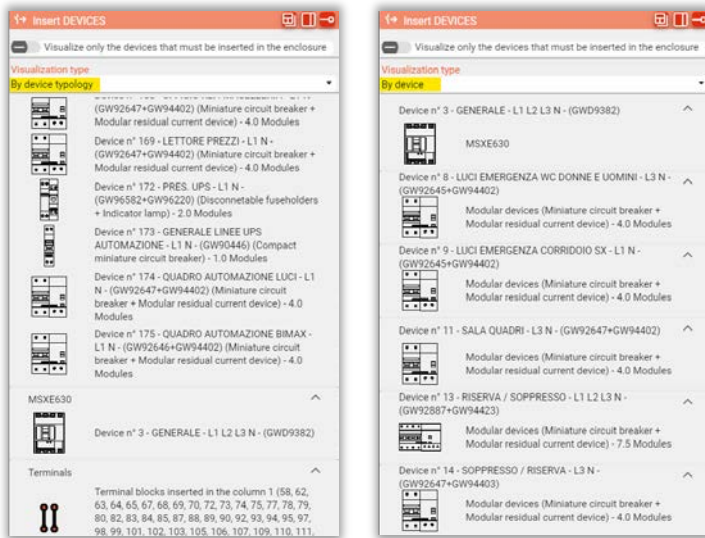


Functions:

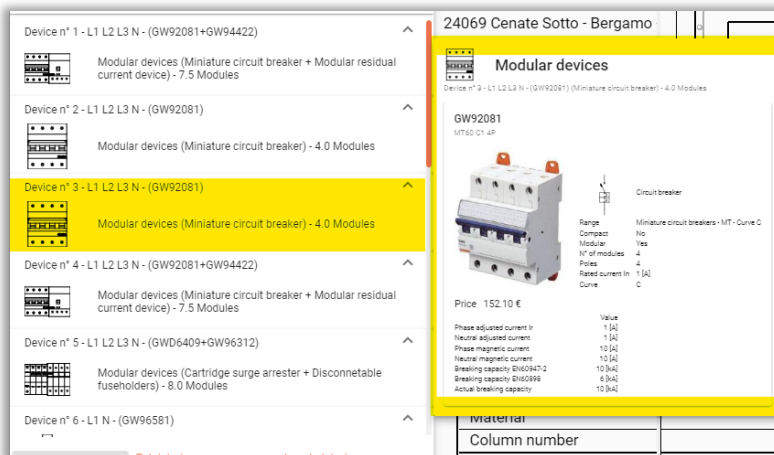
- choice of devices to be **displayed** (all or only those not yet inserted on the front panel):



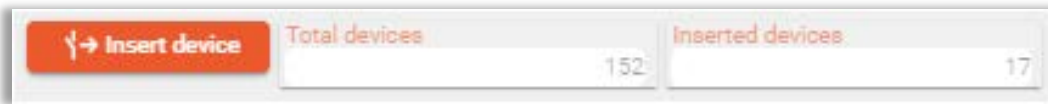
- choice of **display** (by device typology or by device)



- **list of devices** (all or only those to be inserted, depending on the choice made), positioning the mouse pointer over the outline of the device you can see its main data:

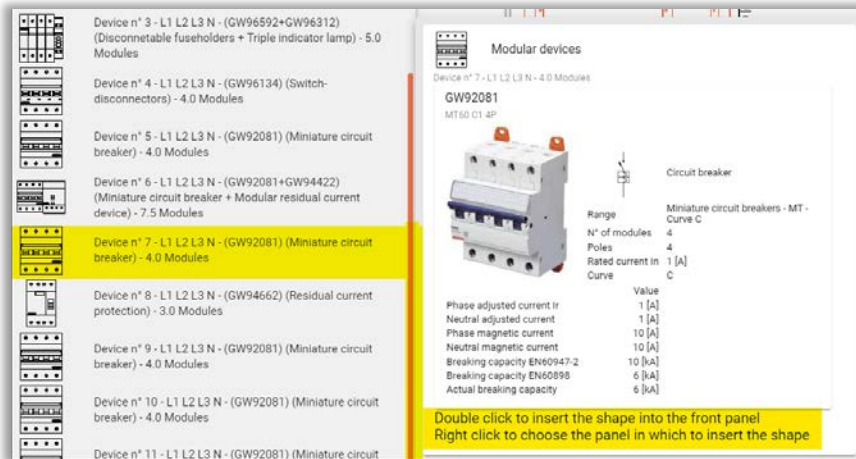


- key for inserting the selected device and summary of the total / inserted devices



**2.5.5.1 TIP: DEVICE INSERTION**

Positioning the mouse pointer on the device's shape, appears (on the bottom) the explanation of how to insert the device in the frontview:



**Mode 1:** if there is no panel suitable for the device to be inserted:

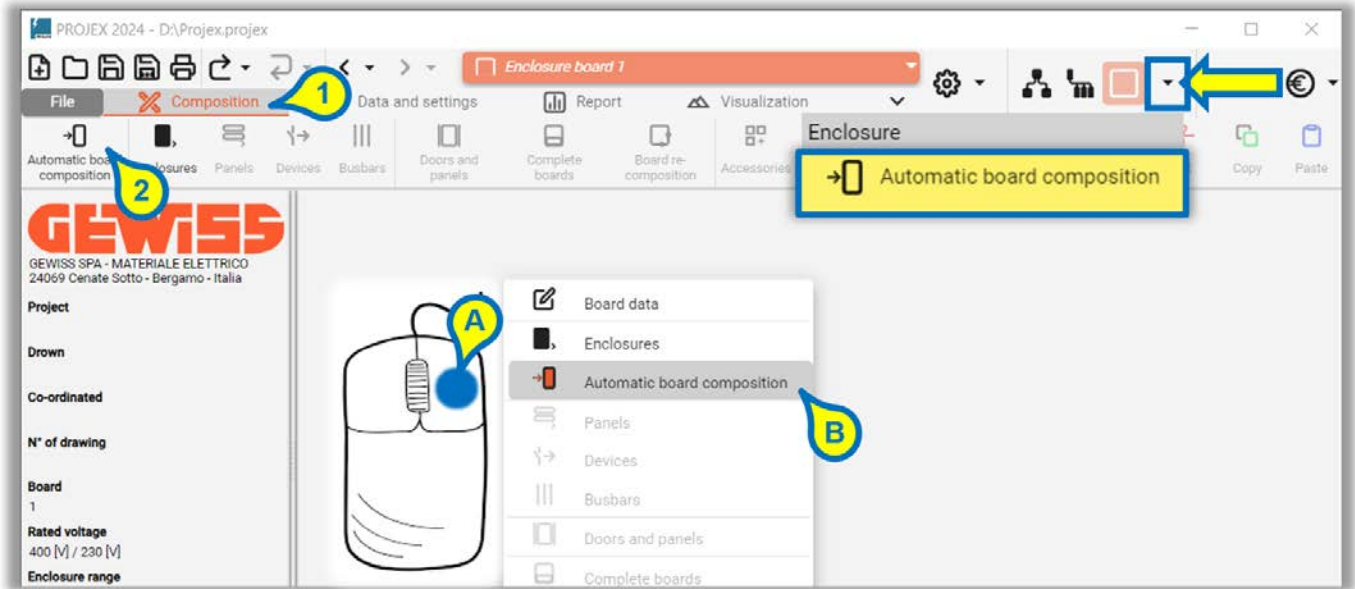
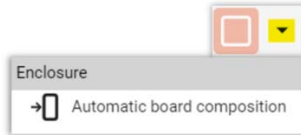
- **double-click** with the left mouse button on the shape of the device to be inserted:
  - ✓ the list of compatible panels is shown
- **double-click** on the selected panel or [Insert] key > the panel is inserted together with the device

**Mode 2:** if there is already a compatible panel with the device to be inserted in the frontview:

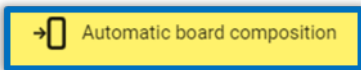
- **double-click** on the shape > the device is inserted, or...
- **drag** the device (onto an existing panel)

### 2.5.6 Automatic board composition

From Frontview  
command:



#### Mode 1



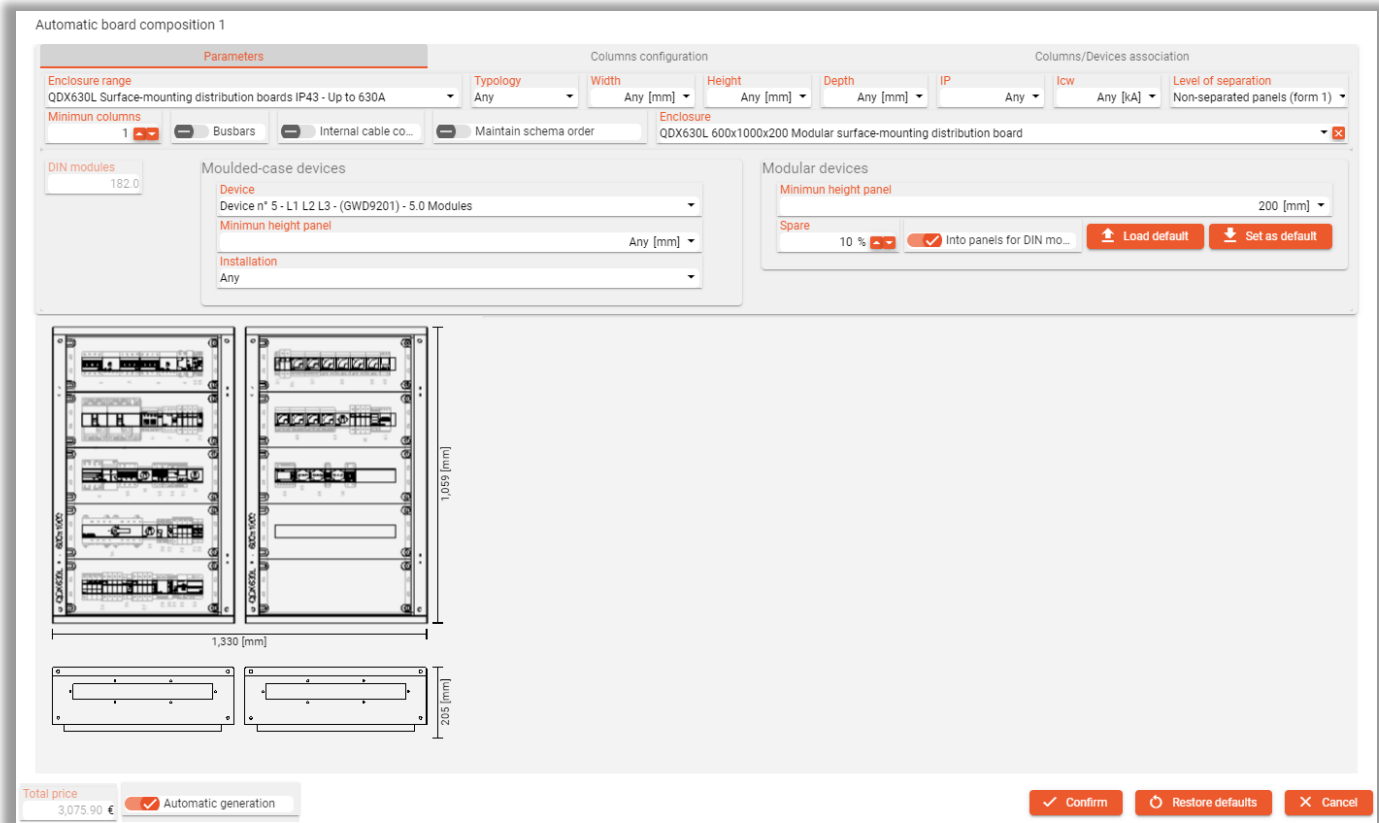
From Automatic board  
composition menù

#### Mode 2

- 1** Composition menù
- 2** Automatic board composition command

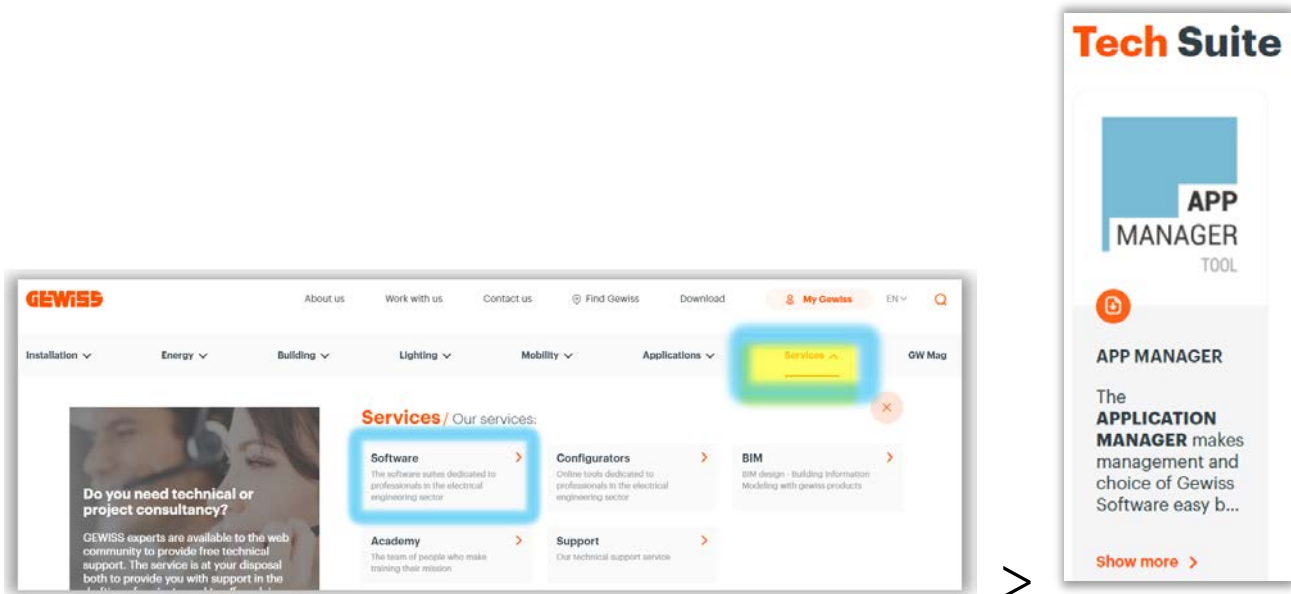
#### Mode 3

- A** right click mouse
- B** Automatic board composition command



**3 UPDATE**

- PROJEX online version does not require updates
- The installed PROJEX is updated by GW APP MANAGER application (downloadable from the Gewiss website):



**APPLICATION MANAGER** makes it easier to manage and choose Gewiss software by detecting the programs installed on the PC and allowing them to be updated. Furthermore, uninstalled programs are shown, facilitating their installation, providing descriptions and manuals.

