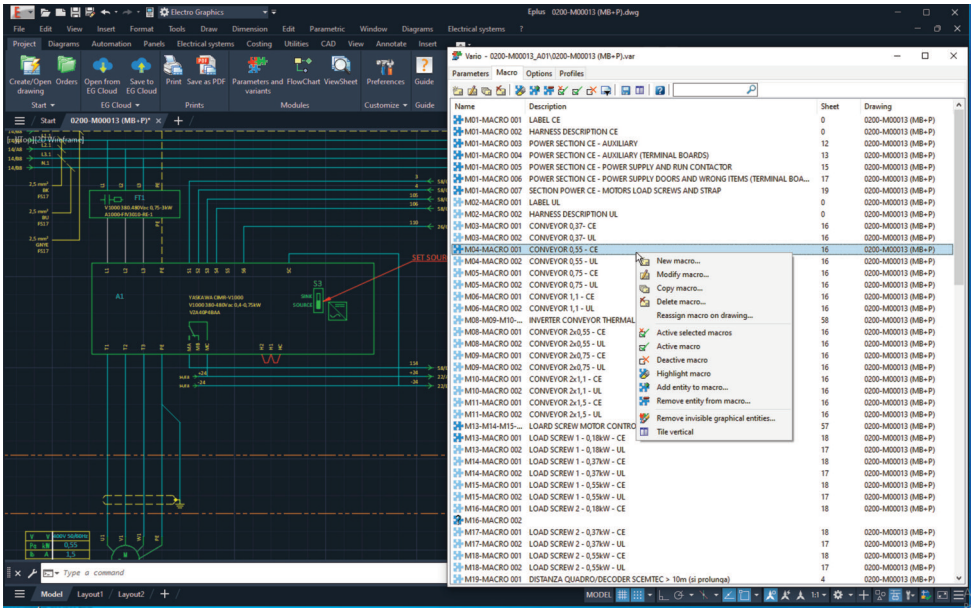
Vario

Management of variants, options and accessory parts of a diagram



Management of variants

The drawing of electrical diagrams or schematic representation of systems, often requires the possibility of managing optional parts or accessories which are present or not in the drawings depending on the configuration of diagram or system.
This situation is typical of serial productions to which are also applicable for business and organizational aspects, several accessory solutions. The variable parts can be combined each other with boolean and conditional relationships that determine the final status of the machine or system to be drawn or propose.
Here is the scope of Vario: indispensable and effective tool for the management of the variants on a diagram of any kind.
Vario works, necessarily, with one of Electro Graphics CAD (iDEA, Eplus, CADelet).

Setup of macro

A “macro” is a set of diagram elements like as symbols, tables, signs, data assigned to components; to that sets it is possible to applied a state of visibility and presence on the diagram.
A macro can be defined from a master drawing, with the assignment of a description and current status of visibility and activation.
The interface of Vario handles the activation and deactivation of a macro and highlight it for a proper setting.
It is possible to duplicate a macro and modify it later, for quickly generate the elementary parts and the options to set the status of a diagram.
It is possible to remove from the master drawing any not active macro.
Integration and use of project and system parameters to influence the available options and profiles.

Management of options

An option is a set of macros linked by boolean conditions of presence on the diagram.
Options can be defined by window interface and drag-and-drop.
Definition of any functional parts and attribution of the essential requirement to ensure consistency of the diagram.
Identification of mutually exclusive options.
Detections of options that are incompatible.
Assigning macros enabled when an option is not active (eg a bridge link when an optional part is not on the definitive diagram).
Modify and duplicate options already defined.

Management of profiles

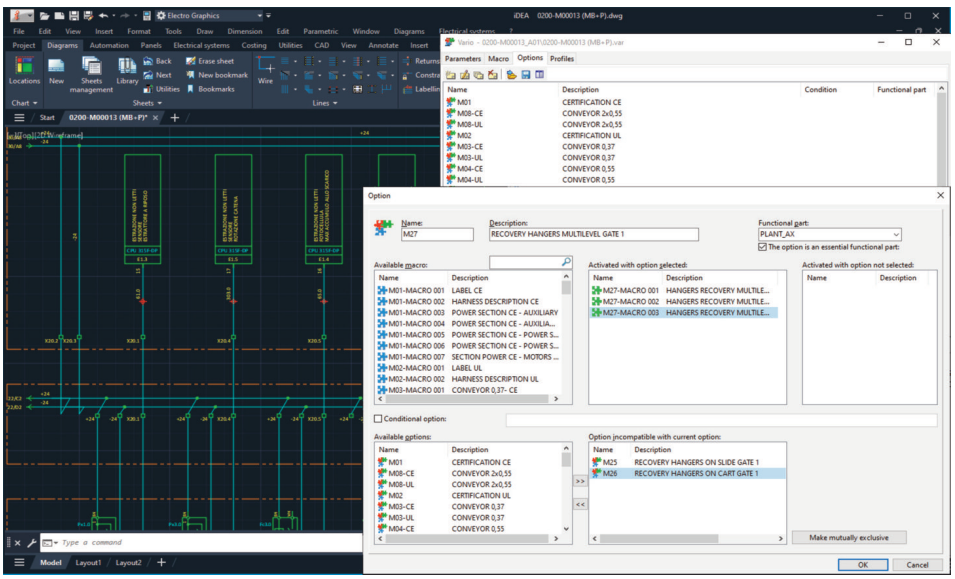
After defining macros and options (groups of conditional macros), it is possible to aggregate more options to obtain a profile. A profile determines the visibility and presence of the options and, therefore, of the macro associated with them on the diagram.
Application of a profile to the master drawing to obtain the desired variant.
Validation of the profile with consistency checks on macros embedded.
Saving of the diagram resulting by applying a profile.
Import and export of profiles as XLS files.

Schema Parameters

The use of Schema Parameters introduced in CADelet, iDEA and Eplus offer advanced control over customizing and automating labels associated with graphic block attributes. They enable the creation of intelligent labels with variables, formulas, or conditional values, enhancing flexibility in electrical diagram creation. These parameters condition the appearance and behavior of diagram elements, providing a powerful tool for customization and automation. Benefits include flexible customization, automation of calculations, consistency, simplified updates, and adaptability to project changes. Global parameters, predefined in schema parts and parametric macroblocks, offer time-saving, consistency, and customization advantages. Three types of parameters exist: input, formula, and conditional list, each serving different purposes. Formula and conditional list parameters allow complex expressions adaptable to various logic. Parameters are processed in the defined order, ensuring correct usage. Overall, Schema Parameters streamline the design process, reducing errors and enhancing efficiency in electrical diagram development.

Reports

Printing of defined profiles and possibility highlight of the options and macros involved.
All reports can be edited in the descriptive part, with a choice of six settings language.
All reports have print preview.
Print to PDF or device.



Integrations

CADelet Impianti, Eplus: electrical system engineering.
CADelet Schemi, iDEA: wiring diagrams for industrial automation.
CADelet Professional: electrical system and wiring diagrams engineering.

System requirements: Computer with 3 GHz or higher processor.
At least 8 GB RAM. Hard disk with at least 6 GB free space. 1024x768 screen resolution. USB port, mouse, printer or plotter.
64-bit O.S. Windows 10 or 11.