

CADprofi 9.23



✓ Changes in CADprofi Architectural module

Extension of the evacuation, safety and fire protection symbols:

- according to DIN 14034 and ISO 6970 standards,
- symbols according to: DIN 4844 i DIN 4066 standards.

Extension of furniture and equipment library:

- additional parametrical views,
- kitchen equipment, plants and others.







Changes in CADprofi HVAC & Piping module

Many symbols from different categories have been added to the program.

Changes that increase the P&ID symbols functionality have been added.

The catalog of pipes have been extended according to the PN, EN, DIN and ASTM standards.





✓ Changes in CADprofi Mechanical module

Steel profile standards have been updated.

Additionally the possibility to insert steel profiles with symmetry axes and holes have been added (these elements can be enabled or disabled during insertion of objects to the drawing).

Additional standards have been also added to the program:

- EN 10305-1:2011
- EN 10305-2:2011
- EN 10305-3:2011
- EN 10305-4:2011
- PN-86/H-93403





✓ Changes in CADprofi Electrical module

Frames and tables:

- Frames creator, thanks to which user can add to the project frames with different dimensions.
- Standard frames and drawing tables according to the ANSI / ASME standards.

Extensions of the symbols and objects library:

- Introduction of many additional IEC symbols.
- Changes in the apparatus library.





✓ New system to design lighting protection

A lighting protection system with usage of ELKO-BIS products have been added to the program.

This system is available in both CADprofi application and ElkoBis-CAD program.

ElkoBis-CAD has received the recommendation of the Polish Committee of Lighting Protection. The program was also recognized at the 26th International ENERGETAB 2013 Fair and received a VOLTA Golden Statue of the Polish Chamber of Electrical Engineering as the best electrotechnical product.

This module includes:

- functions for comfortable designing of feints on protected objects,
- lighting wires,
- masts and spiers,
- linear and earthing pins,
- different types of connections,
- piping protection system.





✓ New library of Hager products

Products from the Hager company have been added to the program. This library contains Hager products, including:

- protective equipment,
- control apparatus,
- mounted and satnding Univers switchgear,
- Univers N and Unimes building systems,
- KNX and other system components.

Hager					×
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✓ Possibility to add your own translations

Due to lack of suitable source materials, some elements (e.g. foreign standards or manufacturers' libraries) that are in the program may not be translated into user native language.

New program version possesses a tool, thanks to which user can easily add his own translations for such elements.

Thanks to that all descriptions and specifications can be prepared in user native language.

Detailed information are available in the CADprofi program on-line help.

Symbols					X
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✓ New user manual

Due to significant development of CADprofi software it was necessary to introduce a new user manual.

User manual contains information and instructions for options and functions that are available in the program.

One of new manual features are the procedures that lead the user, step by step, how to perform commands.

A supplement to the user manual are additional materials (e.g. "tutorials") and animated presentations that available on CADprofi website.







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First song hit Albert Rep.





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Update of manufacturers' libraries:







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✓ Adjustment to many base CAD programs

Fixed reported issues with compatibility of various older CAD versions.

CADprofi 9.23 has been adjusted to work with latest CAD programs, including: AutoCAD 2014 Sp1, ZWCAD+ 2014, GstarCAD 8, BricsCAD V14, progeCAD 2013 (v. 13.0.18), 4MCAD V14, ArCADia-INTELLICAD (7.2.336 and 7.2.500 beta).

CADprofi 9 currently works with many base CAD programs including AutoCAD (since the 2000 version), AutoCAD LT, BricsCAD, GstarCAD, IntelliCAD, progeCAD, ZWCAD (also with the ZWCAD+2014), ARES Commander Edition and others.













CADprofi 9.07/9.09



✓ Extended content of CADprofi Electrical module

Extension of the modular apparatus library:

- fuse switch-disconnectors,
- female sockets,
- fuse sockets,
- low-voltage fuse links,
- soft starters,
- current transformers,
- phase control relays,
- voltage relays,
- current relays,
- staircase timers,
- light dependent relays,
- automatic phase switches,
- thermostats,
- dimmers.

Introduction of additional one-line and multi-line symbols in CADprofi Electrical module.

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✓ New symbols and circuit templates in CADprofi Electrical

New symbols and circuit template.





✓ Extended content of CADprofi HVAC & Piping module

The content have been extended with the following elements:

- water filters,
- water meters,
- pressure regulators.





✓ New ISO 7010 standard

New safety, warning, evacuation, safety, prohibition and other symbols according to PN-EN ISO 7010 in Architectural CADprofi. Additional signs according to DIN standard.





✓ ISO 6790 Standard

ISO 6790 standard related to fire protection have been added to the program.





✓ Grundfos MAGNA3 pumps

Grundfos MAGNA3 pumps have been introduced.







✓ Adjustment to many base CAD programs

CADprofi 9.07 (Service Pack 9.09) has been adjusted to work with: AutoCAD 2014, progeCAD 2013 BricsCAD x64bit, Arcadia IntelliCAD 7, CMS IntelliCAD 7.2, CADian 2012, FineELEC 11

CADprofi works with many base CAD programs including AutoCAD (since the 2000 version), AutoCAD LT, BricsCAD, GstarCAD, IntelliCAD, progeCAD, ZWCAD, ARES Commander Edition and others.











Update of manufacturers' libraries







CADprofi 9

Summary of main changes made to the program since the CADprofi 8.01 version.



✓ Extended content in the CADprofi Electrical module

New command with symbols of measurement and industrial automation apparatus. This command allows to design schemes of industrial automation processes using multivariant symbols, such as measurement points, sensors, transmitters, controllers etc.

A special feature is the automatic numbering system of the individual measurement points.

New symbols - "vertical lines". These symbols show vertical lines that run in places such as between floors. These symbols are being included in specifications as lines with a specified type and length.

Additional symbols of various equipment such as: electric heaters, air conditioners and more.



Addition of PLC controllers in menu and toolbars. This command allows to insert controllers with any defined number of inputs/outputs.





✓ CADprofi Electrical – designing with ANSI / NFPA standards

Program has been adapted to create projects according to ANSI / NFPA standards. A set of NFPA symbols have been added to the program (hundreds of new symbols). Additional electrical lines have been added according to the ANSI standards as well as typical templates and already made line templates and circuit lines according to ANSI standards. It is also possible to directly design in inches units.







✓ CADprofi Electrical – scheme templates

Changes in the command that contains typical design tables and frame templates. Frames and tables according to ANSI/ASME Y14.1 have been added to this command. Typical schemes have been transferred to the "Scheme templates" command. In this command you can also find additional schemes and typical line templates and circuit lines adopted to the ISO (A3) and ANSI (A-E) standards.





✓ CADprofi Electrical – modular units

Extended content and functionality in the "Modular units" command. All devices apparatus are connected with appropriate symbols thanks to which it is easy to draw schemes, as well as switchgears view. Many new apparatus have been added to the program:

- Motor protection circuit breakers;
- Switch disconnectors;
- Main disconnectors;
- Fuse-switch disconnectors;
- Switches;
- Modular contactors; motor
- Cam switches;
- Measures;
- Bells/Buzzers;
- Power supplies;
- Transformers;
- Relays (thermal, time, pulse operated);
- Pushbuttons (buttons, indicators lights).

Cam switches Cam switch - position 0-1 Cam switch - with position "0" 1-0-2 Cam switch - without position "0" 1-0-2 Cam switch - without position "0" 1-0 Cam switch - without position "0" 1-2 Cam switch - without position - without position "0" 1-2 Cam switch - without position	Name -0,28 - 0,4A -0,4 - 0,63A -0,56 - 0,8A -0,8 - 1,2A -1,2 - 1,8A -1,8 - 2,8A -2,8 - 4A -4 - 6,3A -5,6 - 8A -7 - 10A -8 - 12,5A -10 - 15A -11 - 17A -15 - 23A -22 - 32A -25 - 40A	A Objects to insert 45.0 + 50.0 +	L 18 72 72 36 45
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✓ CADprofi HVAC & Piping – parametrical armature

In the "Parametrical armature" command we have added additional views (projections, sections and detailed installation views) for many devices. Individual elements are also linked to schematic views and with typical symbols. The following categories has been updated:

- threaded armature
- welded armature
- regulating valves
- actuators for regulating valves
- angular armature.

Additional typical elements of threaded installations have been added to the command: nipples, sockets, reductions. Thanks to this it is possible to draw detailed installation views, in particular when designing installations of areas with limited space.







✓ CADprofi HVAC & Piping – symbols library

We have added several hundreds of additional symbols according to international standards.

Many of these symbols have been prepared as parametrical symbols for which it is possible to select many variants and technical data.

All CADprofi symbols can be edited using the "Quick edit" command.

What's new in the symbols libraries is the possibility to add different elements to the favourite category.





✓ CADprofi HVAC & Piping – ventilation fittings

A new type of ventilation fittings – cross rectangle round – was added in both 2D and Z_+/Z_- view.













✓ Extended content in CADprofi Mechanical module

Additional standards PN, EN, DIN and GOST were added in the CADprofi Mechanical module.

Many standarized parts can be now dynamically scaled directly in the drawing. This feature greatly simplifies and speeds up projects edition.



Parts				
Nuts	Article	DG	м	s
DIN-EN 24032: Hexagon nut, style 1 - Product grad	MEO	5.0	15.0	
DIN-EN 24034: Hexagon nut - Product grade C	M 5.0	5.0	19.0	10.0
DIN-EN 28673: Hexagon nut, style 1, with metric fin	M8.0	8.0	24.0	13.0
DIN-EN 24035: Hexagon thin nut (chamfered) Pro	M 10.0	10.0	30.0	16.0
DIN-EN 28675: Hexagon thin nut (chamfered) with r	M 12.0	12.0	36.0	18.0
DIN 6330: Hexagon high nut	M 14.0	14.0	42.0	21.0
DIN 6330: Hexagon high huts Hexagon high huts wi	M 16.0	16.0	48.0	24.0
DIN 985: Prevailing torque type bexagon put (with r	M 18.0	18.0	54.0	27.0
DIN-ISO 4161: Hexagon flange nut	M 20.0	20.0	60.0	30.0
DIN-EN 1661: Hexagon flange nut	M 22.0	22.0	66.0	34.0
DIN-EN 1663: Hexagon flange nut	M 24.0	24.0	72.0	36.0
DIN-EN 1664: Hexagon flange nut	M 30.0	30.0	90.0	46.0
DIN-EN 1666: Prevailing torque type hexagon nut w	M 36.0	36.0	108.0	55.0
DIN-EN 1667: Hexagon flange nut with fine thread	M 42.0	42.0	126.0	65.0
DIN 6331: Hexagon nut 1,5d with collar	M 48.0	48.0	144.0	75.0
DIN 6923: Hexagon flange nut				
DIN 557: Square nut - type 1				
DIN 662: Square nut - type 2				
DIN 935: Hexagon sloted and castle nut - type 7				
DIN 935: Hexagon sloted and castle nut - type K				
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✓ Extended content in CADprofi Architectural module

In CADprofi 9 the library of furniture and equipment has been greatly extended. Currently elements from this library are parametrical objects, thanks to which it is possible to change their dimensions. It is also possible to easily edit objects after they have been inserted into the drawing. Edition of dimensions and other parameters in the dialog box or dynamic edition directly in the drawing is available.

Additional markings such as terrain slope, building entrance markings and others.





✓ CADprofi Architectural – ISO 780 standard

Extended library of evacuation, fire protection, safety symbols. We have introduced both public information symbols and " pictorial marking for handling of goods" according to the ISO 780 standard.





✓ "Temporary" installations and lines

Ability to work with "temporary" installations and lines.

In the case of co-operation of several designers upon one project, it is possible that some of them use their own type of lines or installations in CADprofi program. After transferring the project to another designer these lines and installations will be automatically detected and added as 'temporary' elements to CADprofi. It allows to keep full control over all installations in the drawing.

Temporary lines may be permanently transferred to CADprofi database.





✓ Creating the "favourites" category

We have added a possibility to add objects to "favourites". in many commands and libraries.

There are thousands of symbols, lines and other elements in CADprofi program. With such a large number of elements it may be sometimes hard to find the right symbol. On the other hand, when working on a particular project mostly no more than a dozen of symbols are needed. In the new version of CADprofi software designers can add selected elements to the "favourites" category, thanks to which they will have a quicker access to them.

It is possible to create your own subcategories that correspond to a specific theme, for example a separate category for plumbing or boilers in HVAC & Piping module or a category for switchgear in Electrical module. What is more, one element may be added to several subcategories.

For elements placed in the "favourites" category it is possible to change their names, thanks to which in specifications, legends and descriptions designers may use their own terminology. This feature can be also used to "translate" for example symbols from international standards that are not in our native language.

"Favourites" category is a very useful mechanism that vastly accelerates designing.





✓ Dynamic "extension" of objects

For many standarized parts we have added an ability to "extend" them, and more specifically choose another (longer and shorter) parts of the category.

After choosing the "Quick edit" command and selecting the right part an edition handle will appear.

Dynamic extension is at the moment only available in the Mechanical module. This will be also implemented for many other objects in other CADprofi modules.





Polylines operated by drawing tools

In drawing tools we have added a possibility to draw axis and bisection between lines and polylines.

We have also added a possibility to determine bisection between crossed lines or polylines.





✓ Adjustments made with ARES Commander Edition

Program CADprofi is now available for ARES Commander Edition – program that is being developed by a German company Gräbert GmbH.

Program ARES Commander Edition uses a native dwg format and may be used to design in many branches. With the ability to load CADprofi applications it can be easier and faster to work in ARES environment.





✓ Adjustment to many base CAD programs

CADprofi 9 has been adjusted to work with many CAD programs including: including AutoCAD/LT (since the 2000 version), BricsCAD, GstarCAD, IntelliCAD, progeCAD, ZWCAD, ARES Commander Edition and others.











✓ Windows 8

Current CADprofi version has been tested in the latest Windows 8 operating system. Users who plan to move to the latest Microsoft system can do it without any fear of working with CADprofi.

CADprofi 9 application can also work in the previous both 32 and 64 versions of, Windows XP, Windows Vista, Windows 7 operating systems.





Changes in CADprofi 8.03 – 8.21



Change with apparatus numbering

In earlier program versions while inserting multiple apparatus program was numbering them in accordance with default settings, meaning that user had no control over them. In the current version the numbering process is being made according to user settings.

Dialog window with apparatus





✓ Public information symbols – CADprofi Architectural

We have added a new standard of public information symbols in the *"Safety and evacuation symbols"* command.

Safety and evacuation symbols		×
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Fire extinguisher		
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Stairs down	Current unit: millimetres 2DA_SYM_SM5:ARSGNZC_1054	too Insert symbol





✓ Norsok symbols

We have added Norsok symbols, (which are widely used worldwide) to CADprofi program.

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✓ Usage of frames in some symbols

We have introduced a new feature in the new CADprofi version. You can now turn on or turn off frames in symbols located in the *"Safety and evacuation symbols"* command.

Thanks to the usage of frames, projects are now easier to read when symbols are used on a background of a colored or hatched area.

🕑 With frame



With frame



Without frame



✓ Designing PLC controllers

The *"Controllers PLC"* command allows to insert PLC controllers into the project with any configuration type.

This command allows to define any type of input/outputs, their number and addresses (numbering).

PLC controllers may be freely modified with the *"Edit symbols"* command.







✓ Horizontal symbols – CADprofi Electrical

We have added horizontal symbols in the *"IEC symbols"* command. Those symbols are adapted for insertion in horizontal lines of electrical circuits.

Thanks to the *"Edit symbols"* command user has a possibility to replace the horizontal symbol into a vertical or vice versa.





✓ A new type of products search system in the databases

Currently, in most libraries you can fully search for items in product databases. It is possible to search products in the whole database (button) or only in a chosen branch (button).

List of all founded products is displayed directly in the dialog box.

Parametrical armature					×
] 🗉 😤 😮	DN100	~	Q 😣		
Armature Armature Flange armature Stop valve Stop valve Ball valve flanged Ball valve flanged Ball valve flanged with rotary-piston Flanged valve with actuator Butterfly valve between the flange Butterfly valve between the flange Check valve between the flange Plate silencing between the flanged Plate silencing between the flanged Regulating valves Check valve flanged Actuators for regulating valves	248 elements were found Amortising fitting flanged ANSI flange ANSI flange ANSI flange Ball valve flanged Ball valve flanged Ball valve flanged Ball valve flanged Ball valve flanged Ball valve threaded Ball valve threaded Ball valve welded Ball flange Blind flange	DN100, PN16 DN100, class 150 DN100, class 300 DN100, class 400 DN100, class 600 DN100, PN25 DN100, PN25 DN100, PN25 DN100, PN25 DN100, PN25 DN100, PN25 DN100, PN40 DN100, PN6 DN100, PN10 DN100, PN16 DN100, PN16			
Sort Foto	View and insertion point	F	Parameters		
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★ □ □ <u>* □</u> DN40	Current unit: millimetres			Insert multiple	-

✓ Improvements in many commands

CADprofi 8.19 brings many improvements in already existing commands including:

- improvements in defining sets of cables schematics,
- improved user's definition of cables (installations).
- improved insertion of reduction when drawing 2D lines,
- modified drawing of 2D flex cables
- improvement of the "Quick edit" command,
- many other minor improvements made at the user's request.

✓ Block schemes

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We have introduced a new command "Scheme and algorithms" that is used to draw block schemes, diagrams, algorithms, flowcharts etc.

One of the areas where you can use this new command is to draw any type of block and technological schemes.

All symbols will automatically adjust its size to the amount of entered text. It is also possible to specify fixed dimensions for each element.

The drawing on the right shows an example industrial installation block scheme.

✓ Functional schemes – EN 60848

\Diamond

Another area where we can use the "Scheme and algorithms" command is to draw functional schemes according to the EN 60848 norm.

✓ Infrastructure and computer network schemes

✓ Flowcharts, algorithms etc.

 \Diamond

Possibility to draw flowcharts, organization charts, algorithms etc.

The drawing on the right shows an example algorithm of square root calculation.

✓ BPMN schemes (Business Process Modeling Notation)

 \Diamond

Possibility to draw BPMN schemes. Business Process Modeling Notation is a graphical method of showing business processes.

BPMN describes three basic processes types:

- internal process
- public process
- global process

In CADprofi program you can find the following categories of graphical elements:

- flow objects
- connecting objects
- swim lanes
- artifacts that are used to add additional information (data, annotations and groups).

✓ New command "Lines (diagrams, block schemes)"

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New command that is used to draw connections lines when drawing block schemes, algorithms, diagrams etc.

This command is similar to other commands that are used to draw lines in other CADprofi modules (HVAC & Piping, Electrical etc.). We have included many line types used in the block schemes drawings as well as we have added a possibility to choose connection points and arrowheads (line endings).

Lines (flowcharts and diagrams)	↑ ↓	× 🗈 I	n One-li	ne mode	— ×
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Sort Show category *User*	Current unit: n	illimetres		End automatically	
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✓ New marking symbols

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We have introduced new universal marking symbols, which can retrieve any kind of data from the described objects. Marking symbols include fields, which are used to retrieve attributes, technical specifications, dimensions etc. from objects.

Example of marking symbols with two fields: Type and Producer (attributes [ARTICLE] and [PRODUCER])

✓ New way of objects numbering

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We have introduced a new object numbering system with use of special marking symbols. Separate numbering sequences are available for piping, ventilation, electrical and mechanical installations.

Still it is possible to use already existing ways of numbering:

- command "Numbering",

- circuits numbering,

- numbering of symbols labels and electrical objects.

Example of K1 – K6 numbers added with marking symbols

✓ New command: "Insulation"

This command allows to quickly insulate or change insulation parameters for many types of pipes, ducts and fittings.

Many types of filters makes it easier and quicker to choose the right insulation type (for example only the selected type of installation or all specific pipes type).

Edit insulation	
Thickness of insulation	
50	Ę.
 Apply to selected objects Apply to all objects 	
Apply only for:	
Plumbing/heating	
Ventilation	
Electrical	
Installation/System	Specify CADprofi fitting
Diameter/Width and Height	Specify CADprofi fitting
Current unit: millimetres	
Canter	

✓ Changes in "Divide pipes/ducts" command

We have added an additional dialog window that allows user to easily select filters when determining which lines or pipes he would like to divide.

Divide pipes		x
Segment length		
200	Ŗ	
 Apply to selected objects Apply to all objects Dynamically 		
Apply only for: Plumbing/heating Ventilation Electrical		
Installation/System	Select 2D line Select 2D line	X
Current unit: millimetres		
Cancel	ОК	

✓ Automatic room description – CADprofi Architectural

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We have created a new command that is used to define rooms with automatic calculation of the surface area.

If the project has been made with CADprofi Architectural walls then it is possible to determine the rooms outline. In other cases it is possible to acquire the outline or the area boundaries which will be treated as rooms.

We have also introduced a possibility to draw rooms division with use of logical lines.

When changing the boundaries, program will automatically calculate and update the room area.

✓ Additional views for flange valves – CADprofi HVAC & Piping

For flanged valves we have added additional views: top view, front view, schematic view (simplified), side view.

One of the new program's features is a possibility to insert symbols used in schemes directly from the flanged valves library. These symbols posses full information about both the type and size of the product used in the project.

The "Create alternative view" command allows to easily get different views of chosen object. It can be used when creating cross-sections, projections and schemes for installations.

✓ Multi-variant symbols in CADprofi Electrical

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We have included additional apparatus, connectors and sockets symbols to CADprofi Electrical that have a different option choices of joints, actuators, releases etc. Thanks to these multi-variant symbols user can insert apparatus that contain any kind of contactors or other elements configuration type.

One multi-variant symbol can replace many "traditional" ones. Until now, when user needed to insert some unusual symbols he had to define a new symbol on his own. Currently this task has been made a lot easier because user can choose the right apparatus elements.

Multi-variant symbols can be freely modified with the use of "Edit symbols" command.

Apart from multi-variant symbols we have also added many other symbols such as clips, complex apparatus and passive components according to the 60617-4 standard.

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Example of a multi-variant symbol

✓ Distribution centre circuits – CADprofi Electrical

We have added distribution centre circuits to the "Frames and templates" command in CADprofi Electrical. There are both full sets as well as single circuits available. Thanks to this it is possible to quickly create a large variety of switchboard schemes.

When inserting new additional elements it is possible to renumber them as well as it is possible to add additional markings to them.

✓ Apparatus modules – CADprofi Electrical

We have prepared a new command that contains apparatus modules (previously you could find apparatus modules in the "Switchgears" command).

Additionally it is possible for apparatus modules to insert several apparatus at once.

For all apparatus it is possible to insert symbols and one line symbols that are used on schemes.

We have also added voltage surge protectors and terminal blocks to the program.

Apparatus modules		×
📗 🙀 Search 🛅 Details	🗉 Description 🛠	Tools
Over-current disconnectors Fuses disconnectors Selective disconnectors Current difference disconnectors Current difference - and over-current disconne Main disconnectors Disconnectors Disconnectors Disconnectors Disconnectors Control lamp Control lamp Contactors Contactors Contactors Contactors Contage surge protector 1-pole Voltage surge protector 1-pole Voltage surge protector 4-pole Class C	Name A B C Up=1,5kV Imp= 36.0 83.0 45.0 Up=1,5kV Imp= 36.0 83.0 45.0	Objects to insert
Sort Foto	View and insertion point	Parameters
2	Insertion point Base point +	System
	 ② 2D ③ 3D Plane [XY] ▼ ○ 2D/3D ○ Side 1 ○ Symbol ○ Side 2 ○ Symbol (one line) 	Dimension X:
⊕ ⊕ A Up=1,5kV Iimp=25kA	Current unit: millimetres ELSNNHQ_0072:SW0Y062_0001	Label > Insert multiple F >>> OK

✓ Update of CADprofi Mechanical standards

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We have added and updated many standards in the Mechanical module, including:

ISO 2491, DIN 6885, PN-M-85005, PN-M-85001, PN-M-85002, ISO R 773, ISO R 774, ISO 2492, DIN 6886, DIN 6887,

DIN 6883, DIN 6889, PN-M-85031, PN 85035, PN 85034, PN 85037, PN 85036, GOST 24068-80, GOST P 50536-93.

We have also added new marking symbols, that makes it easier to describe and number objects.

