

Product	Version	Theme	Environment	Date	Department	Person	Language
SEE Electrical Expert	V3R6	SYMBOLE	Windows XP	29/11/2006	Quality	Technical Support	EN

Subject:

KNOWING THE NEW OPTIONS IN THE ELECTRICAL DEFINITION OF THE SYMBOL

Possibles causes:

Our proposed solution:

New options are available in the electrical definition of the symbol.

General Informations of a Symbol

...	Définition
Libellé 1	Bobine de contacteur de
Libellé 2	IEC 617-7 N° 07-15-01
Comportement	Maître/Bobine
Protection	Non
Racine	KM
Neutre	Non
Déformation	Aucun
Classe	Contacteur de puissance
Réf. matériel	
Couche	Activer
Accessibilité	Schéma
Nombre minimum de connexions	2
Nombre maximum de connexions	2
Points de connexion extra	Non
Création des points de connexion	Oui
Câblage auto : un seul câble aux bornes des symboles	Non

"Protection"

This option allows to make secure the symbols' libraries. It will allow to indicate to the user if the symbol is secured or not. will not be able to be inserted on a diagram.

If it is secured (Protection = Yes), the symbol

"Minimal number of connections or Maximal number of connections"

This option allows the definition of the minimal number and the maximal number of connections that could be linked to the symbol.

You can control this by using the command "[Tools/Control...](#)".

This control can only be active if the option "Connection control" on a connection point is equal to "Alert".

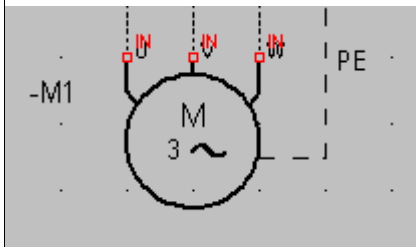
Définition	
Attribut	Base
Nom	NB1BOBINE
Type	ENTRÉE
Numéro	1
Position X	0
Position Y	0
Type de connexion	
Contrôle de la connexion	Alerter

"Extra connection point"

In a diagram the user has the possibility to link the connections on a symbol without linking them with the symbol's connection points.

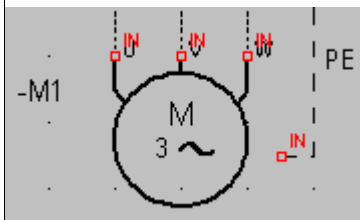
If this option is set to "Yes", the user can create automatically all these new points of connection through the contextual command "[Update connection points](#)".

Example: The motor symbol has three connection points and the option "Extra connection point = Yes". I insert a connection to link the extra point.



To create a new connection point on the extra point, I execute the contextual command "[Update connection points](#)".

The motor symbol becomes:



"Creation of connection points"

This option is only active for the black boxes.

If this option is set to "Yes" upon insertion of the black box in a diagram, the black box will have automatically the connection points defined upon its creation (Symbol Editor).

If this option is set to "No", the black box will be inserted without connection point. In this case, it is possible to create new connection points if the option "Extra connection point" is equal to "Yes"

"Auto-cabling: a single cable on the symbols' terminal strips"

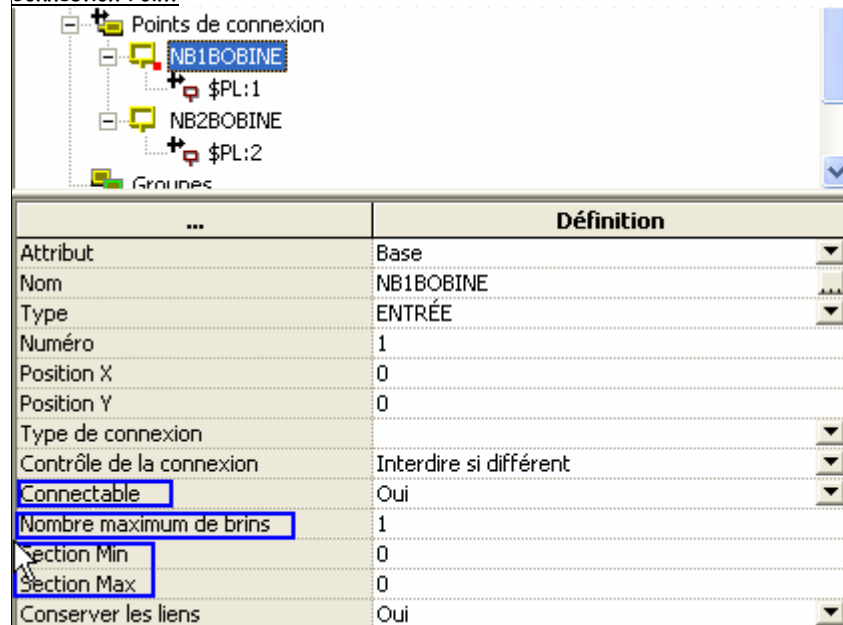
The command "[Process/Automatic Creation of Terminal Strips and Connectors](#)" allows to automatically generate the terminal strips.

One cabling rule created in the method "Environment/Methods/Cables/Cabling Rules Management" allows to specify the criteria on the choice of cables.

If this option is set to "Yes" upon the execution of the command, the rules of cabling are not taken into consideration. See XP will generate one cable per symbol. The number of strands of this cable will be equal to the number of connection points of the symbol.

If this option is set to "No", the command will generate the terminal strips by taking into consideration the cabling rules.

Connection Point



The screenshot shows a tree view on the left with the following structure:

- Points de connexion
 - NB1BOBINE
 - \$PL:1
 - NB2BOBINE
 - \$PL:2
- Groupes

Below the tree view is a table with the following columns: "..." and "Définition".

...	Définition
Attribut	Base
Nom	NB1BOBINE
Type	ENTRÉE
Numéro	1
Position X	0
Position Y	0
Type de connexion	
Contrôle de la connexion	Interdire si différent
Connectable	Oui
Nombre maximum de brins	1
Section Min	0
Section Max	0
Conserver les liens	Oui

"Connectable"

If this option is set to "Yes", it will be possible to link a connection to this connection point in a diagram.

Otherwise, this connection point will never be linked to a connection in a diagram.

"Maximal number of strands"

This option allows to specify the maximal number of strands that can be connected to this connection point.

You can control this by clicking on the command "[Tools/Control.../Cabling tab](#)" and by checking the option "[Control number of connected wires](#)".

"Section Min and Section Max"

This option allows to define the value of the minimal section and the value of the maximal section of strands that can be connected to this connection point.

You can control this by clicking on the command "[Tools/Control.../Cabling tab](#)" and by checking the option "[Gauge of wire and connection point control](#)".

