# elecworks™ Tips & Tricks

Creation of a New Part within the Manufacturers Parts Database

In this Tips and Tricks, we are going to show how to correctly create and define a new part within the manufacturers parts database.

Accurate information is essential for accurate information to be supplied in the reports such as Bills of Materials

From the *Library* ribbon within **elec**works™, select
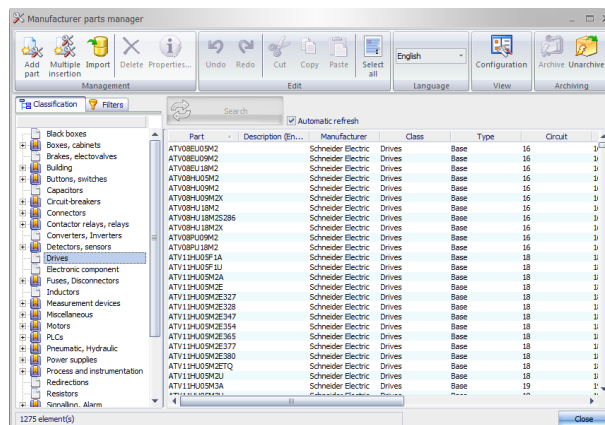
The classification of the part must be the same as the classification of the symbol you intend to "pair" the part up with. As an example, the symbol we have just created was in the "Drives" section so if we create a new Inverter, the part should have the same classification. This ensures that parts are automatically filtered on the correct type of part when assigning to a symbol.

Select *Drives*

Select *Add manufacturer part*
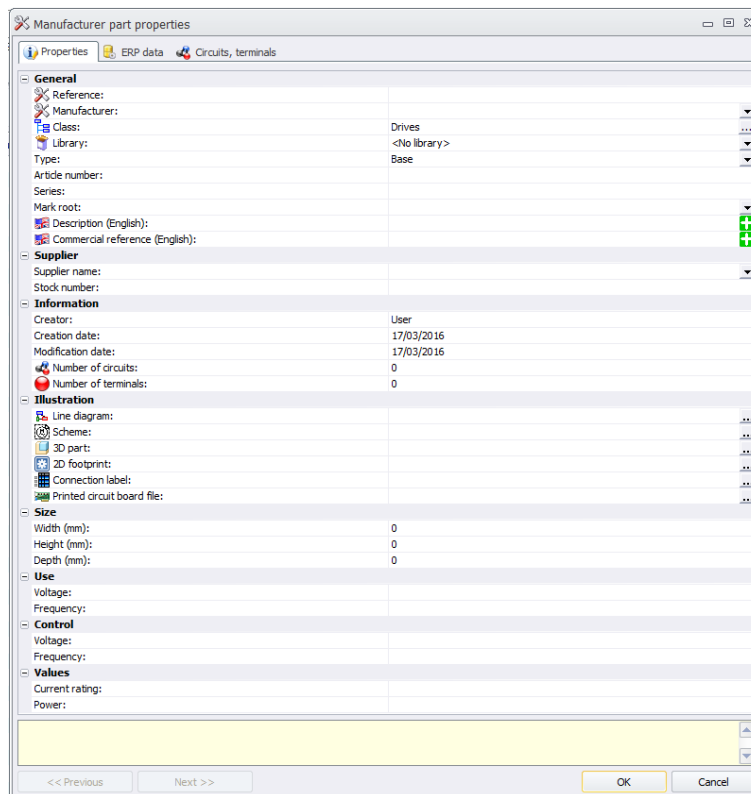
Define the following:

Reference:	ATV312HU40N4
Manufacturer:	Schneider Electric
Class:	Drives
Type:	Base
Mark Root:	U
Description (English):	Variable speed drive, 3-phase, 380-500V, 50/60Hz, integrated EMC filter
Commercial Reference:	Altivar 312

The commercial reference may be different from the reference field value as the reference may be an internal part number rather than the manufacturer's part number

Use > Voltage:	380-500VAC
Use > Frequency:	50Hz
Illustration:	
Line diagram:	
Scheme:	Variable Speed Drive (VSD)

After choosing the symbol, the file name will appear in the dialogue

2D footprint: ATV312HU75N4_EW_FRONT.DWG
                         (This can be added later after a footprint has been created/downloaded)
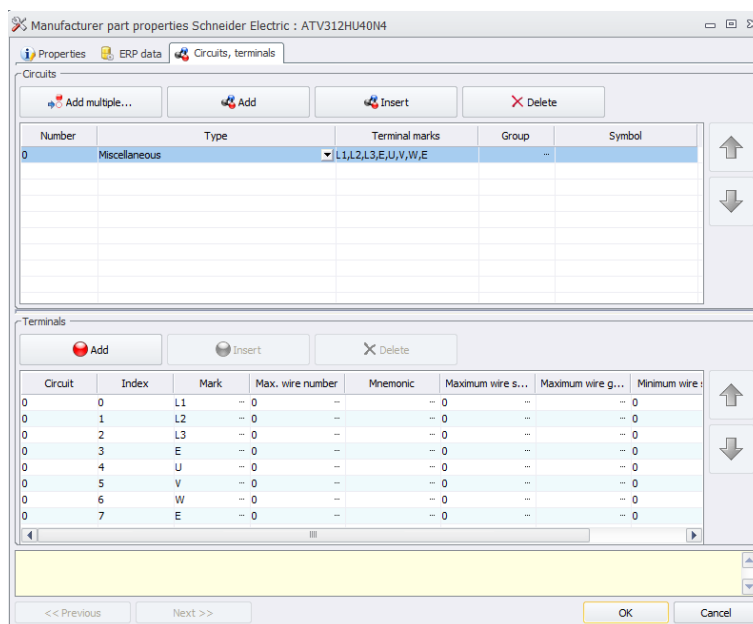
Width (mm):   140
Height (mm):   170
Depth (mm):   148.37

Values > Power: 4kW

Select [Circuits, terminals] tab

Highlight each connection and define its mark at the bottom of the dialogue

Circuit No: 0
Type: Miscellaneous
Terminals: L1,L2,L3,E,R,S,T,E

> The value of the circuit equals the circuit number defined in the symbol. In most cases this is 0 but a symbol can have multiple circuits!
> The order of the pins must follow the order of the pins defined in the actual symbol so #P1_0 = terminal 1, #P1_1 = terminal 2 etc.
> The terminals defined above are fictitious and do not represent the exact number of terminals or their values required for the manufacturers part and are purely an example

Select [OK] when completed