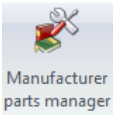
elecworks™ Tips & Tricks

How to Create a New Contactor / Relay Part

elecworks™ stores the pin information of a part in the *Manufacturer Parts Manager*.
This means that the same symbol can be utilized for several parts. An example of this would be a relay or contactor symbol.

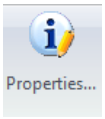
In this tips and tricks we are going to look at how to define the information correctly.

Select the *Library* ribbon tab > 

Manufacturer Parts Manager

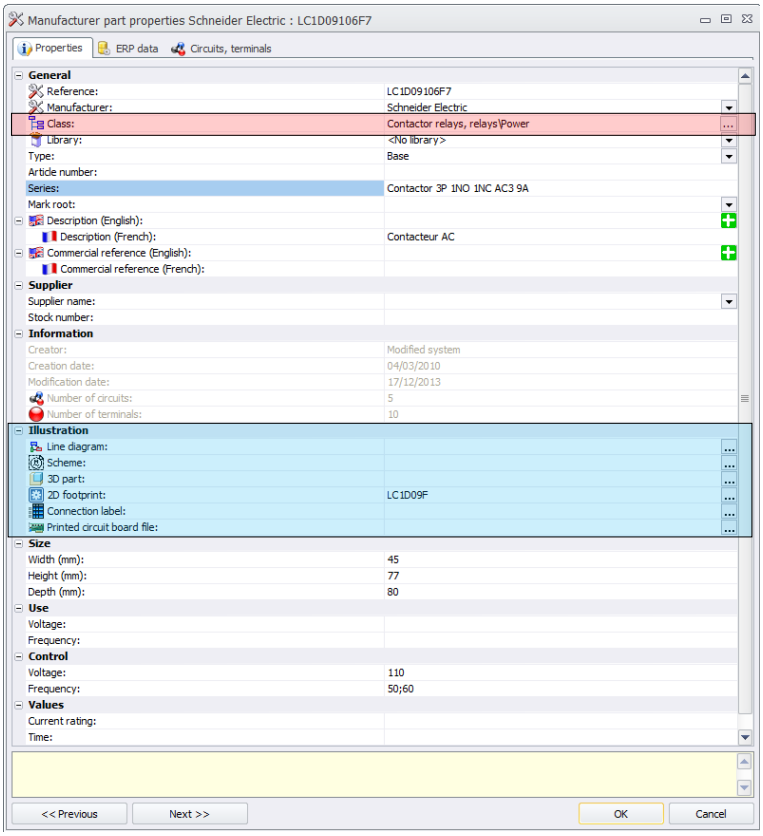
Select the 

tab

In the reference field type “LC1D09106F7”, highlight the part once found and then select 

Properties

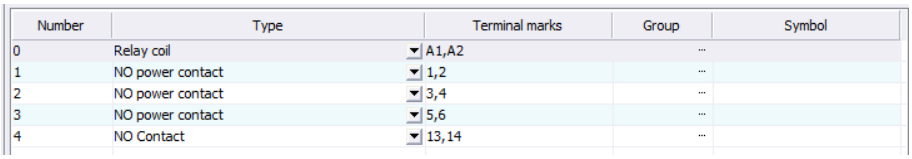
N.B. You may need to turn off ☑ *In the class*



The class is very important and ensures that the part is automatically filtered for the correct type of symbol.

With this example, you will note that the symbol has a 2D footprint. If a symbol doesn't have a 2D footprint defined, it will still create a 2D footprint from the dimension data

Select Circuits, terminals tab



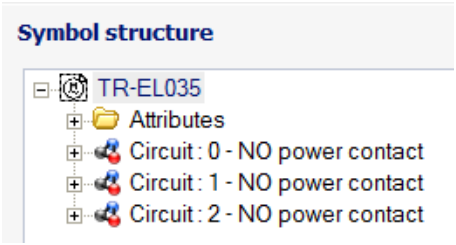
Number	Type	Terminal marks	Group	Symbol
0	Relay coil	A1,A2		
1	NO power contact	1,2		
2	NO power contact	3,4		
3	NO power contact	5,6		
4	NO Contact	13,14		

The circuits defined have to match directly with the circuits in the individual symbols that you want to make up the device.
As an example a 3P, 1NO contactor would need to have the following

Number	*Type*	*Terminal Marks*
0	Relay coil	A1,A2
1	NO Power contact	1/T1,2/L1
2	NO Power contact	3/T2,4/L2
3	NO Power contact	5/T3,6/L3
4	NO contact	13,14

The position of the coil in the list doesn't matter as this is the primary component but the rest of the contacts should be in the same order as the manufacturers' part data.

Please note that the three phase elements are three separate contacts and not just one group of three. Opening the three phase contact symbol of TR-EL035 (Three poles power contact) will show the different circuits and therefore the reason why they are defined as three separates.



If the circuit type doesn't match then this would also be an issue so you need to ensure that if a *NO Power Contact* is defined in your symbol that a *NO Power Contact* is defined in your part