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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.

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Manufacturer

Select the Library ribbon tab > parts manager Manufacturer Parts Manager

Select the **Filters** 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











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General			
% Reference:	LC1D09106E7		
X Manufacturer:	Schneider Electric		-
Class:	Contactor relays, relays Power		
Tibrary:	<no library=""></no>		-
Type:	Base		-
Article number:			
Series:	Contactor 3P 1NO 1NC AC3 9A		
Mark root:			•
😹 Description (English):			÷
Description (French):	Contacteur AC		
🗱 Commercial reference (English):			÷
Commercial reference (French):			
Supplier			
Supplier name:			•
Stock number:			
Information			
Creator:	Modified system		
Creation date:	04/03/2010		
Modification date:	17/12/2013		
Number of circuits:	5		
Vumber of terminals:	10	 	
Illustration			
pa Line diagram:			•••
(B) Scheme:			•••
G 3D part:	10/2005		•••
2D footprint:	LC1D09F		•••
Connection label:			•••
Since			•••
Size	45		
Wider (min):	73		
Depth (mm):	80		
Use	80		
Voltago			
Frequency:			
Control			
Voltage:	110		
Frequency:	50:60		
Values	30,00		
Ourrent rating:			
Time:			
Time.			

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



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Select 🗳 Circuits, terminals tab

Number	Туре	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 		
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	Туре	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







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