

RASWIN Module SRS PL Calculation: Manual Mode

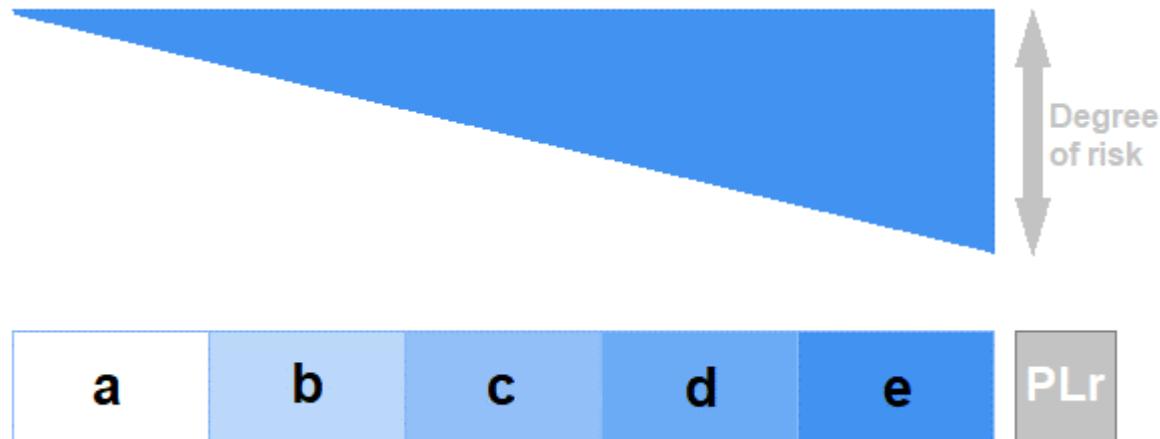
Performance Level?

PL Gfx Module

PL is a measure of the reliability of a safety function. This value depends on different parameters as Probability of failure or Mean time to failure.

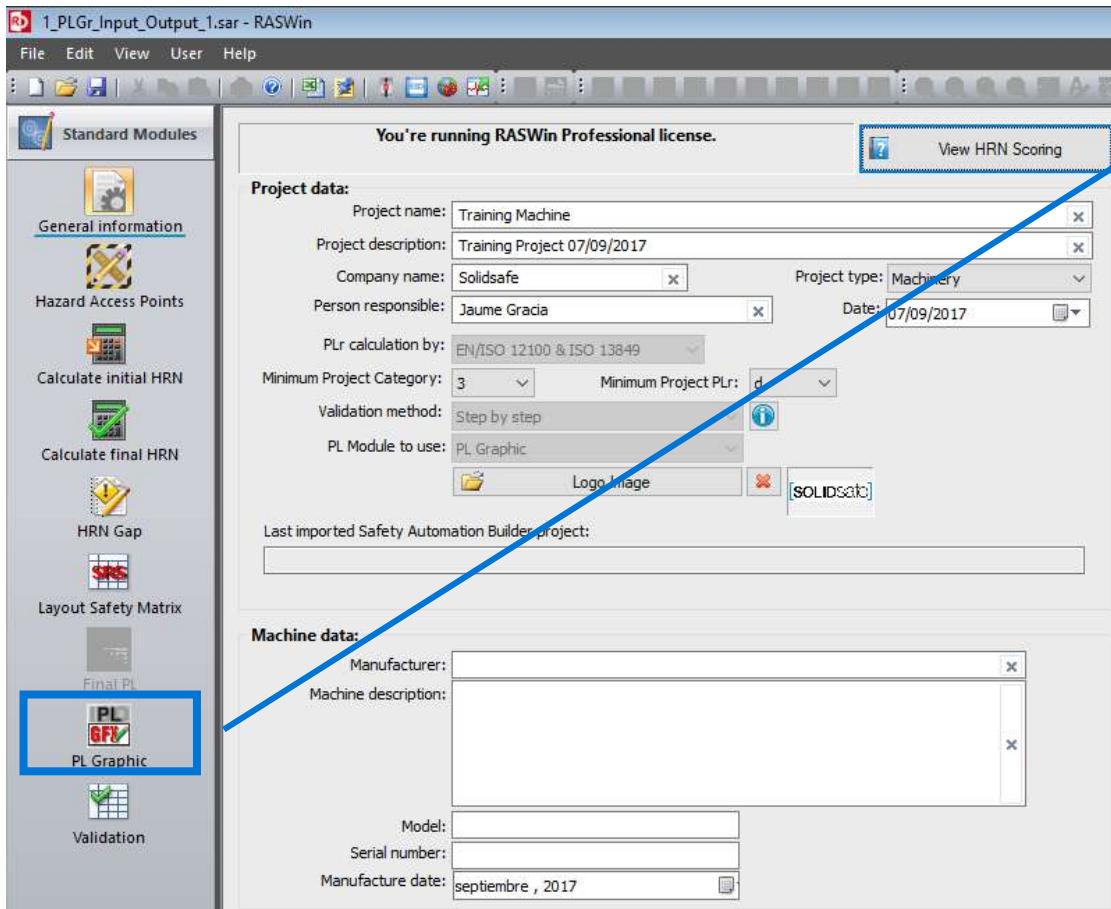
PL is divided into five levels (a-e).

PL e gives the best reliability and is equivalent to the required at the highest level of risk



How to calculate the PL in RASWin?

PL Gfx Module



1. Click on PL Gfx Module icon.

Module: PL Gfx

How to calculate the PL in RASWin?

PL Gfx Module



There are two options to calculate the PL of a Safety Function:

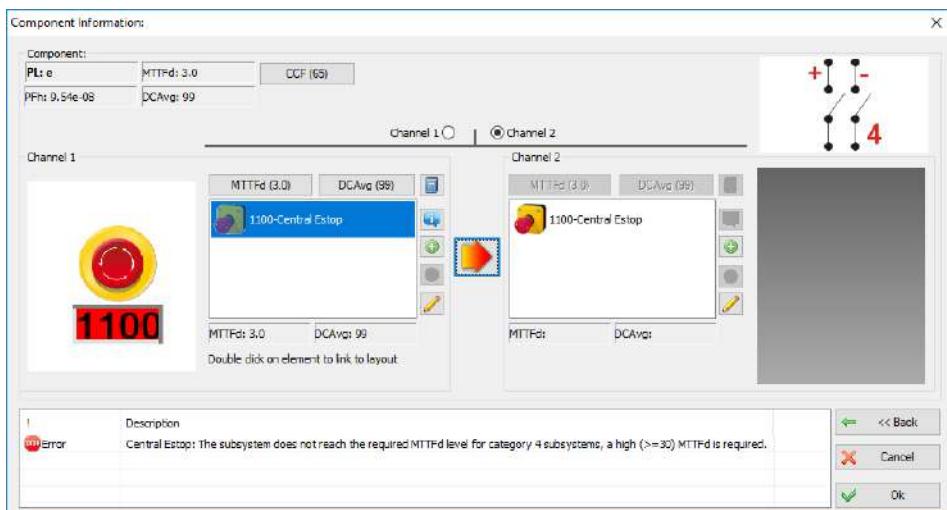
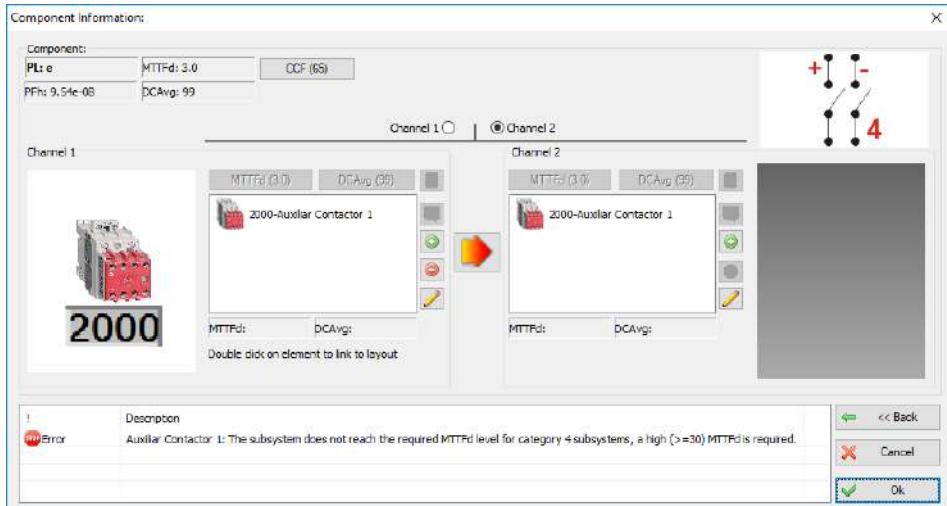
1. Automatically (from SRS Links)
2. Manually

Module: PL Gfx

Step 0: Previous Knowledge

How to calculate the PL in RASWin?

PL Gfx Module



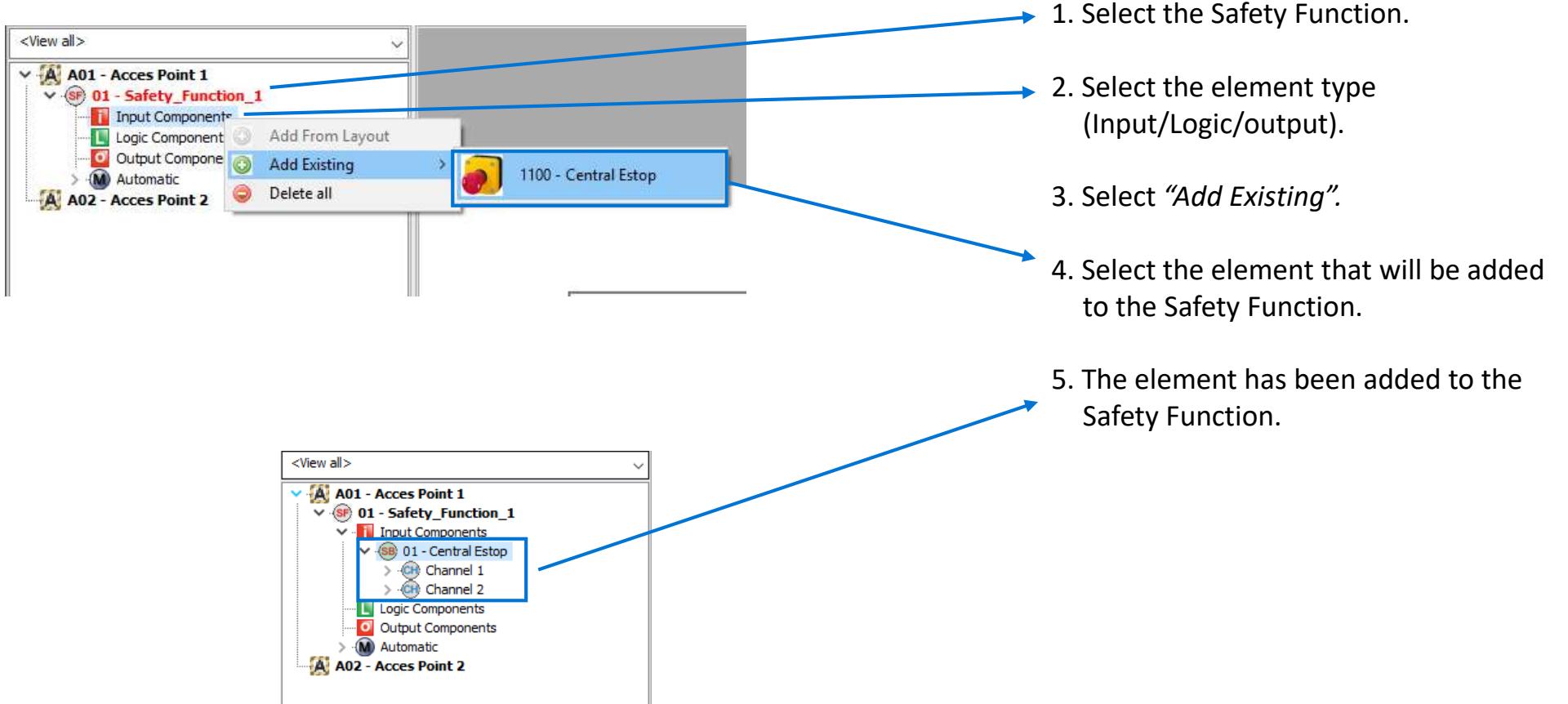
1. Add element to the layout
2. Enter the Safety Parameters of the elements

Step 1: Add input element to the Safety Function

How to calculate the PL in RASWin?

PL Gfx Module

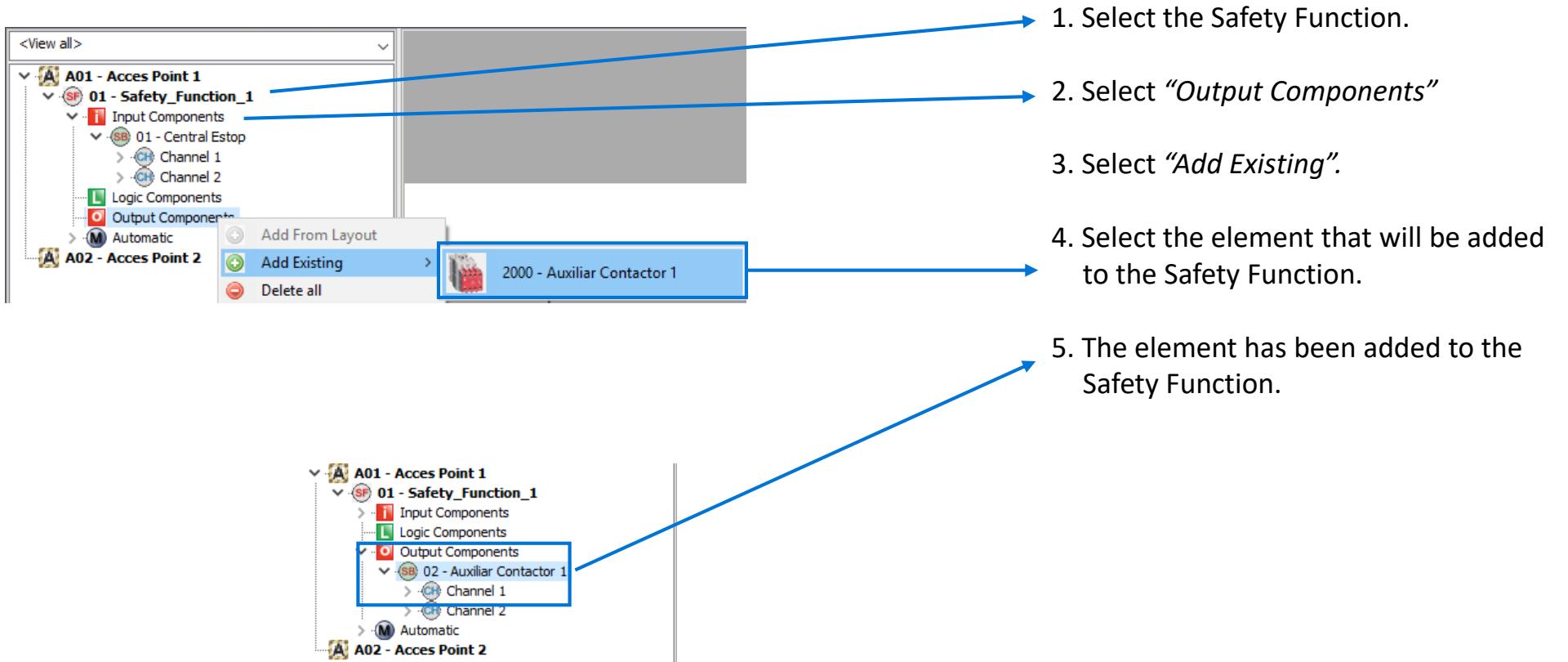
Option 2: Manually



Step 2: Add input element to the Safety Function

How to calculate the PL in RASWin?

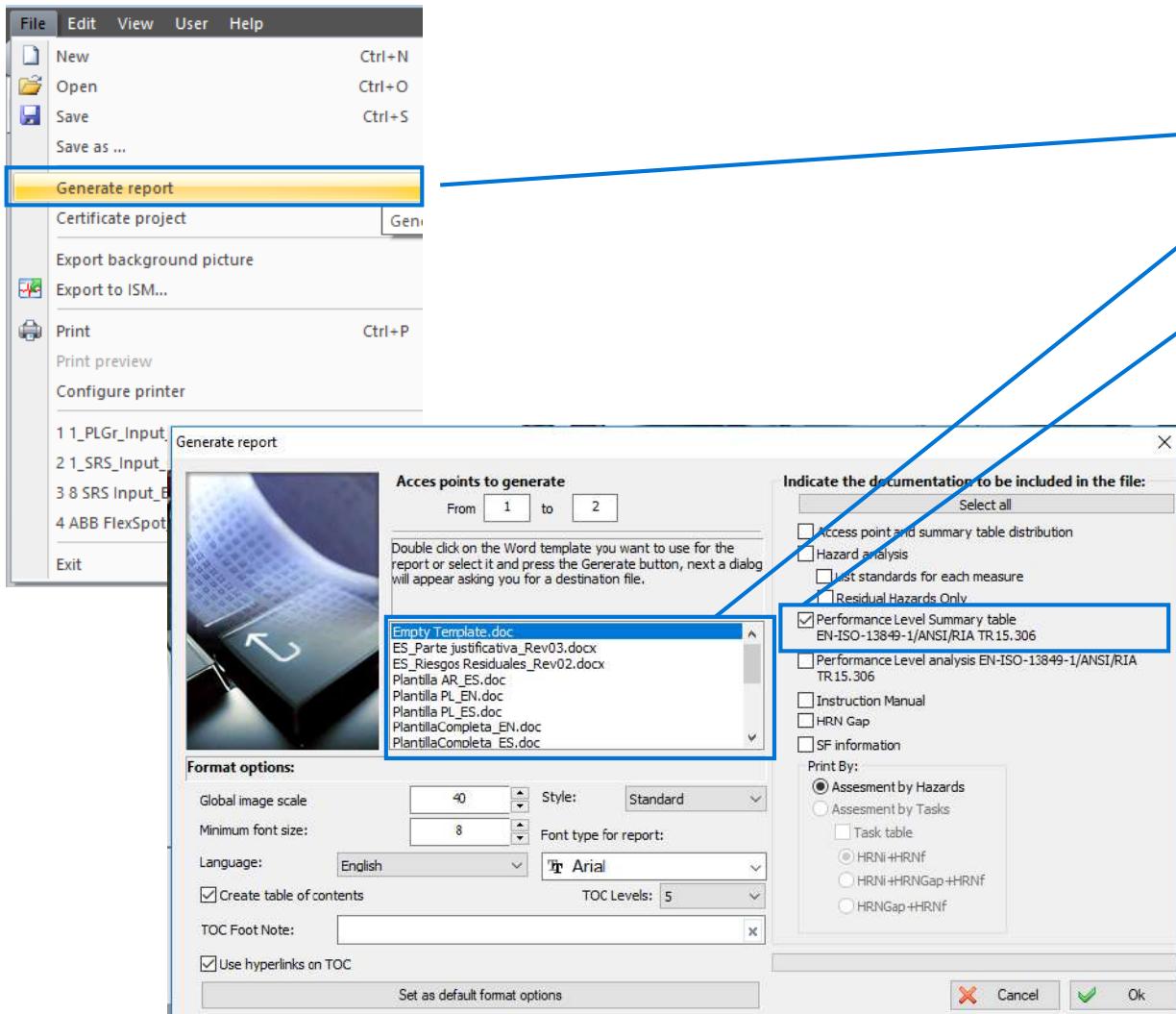
PL Gfx Module



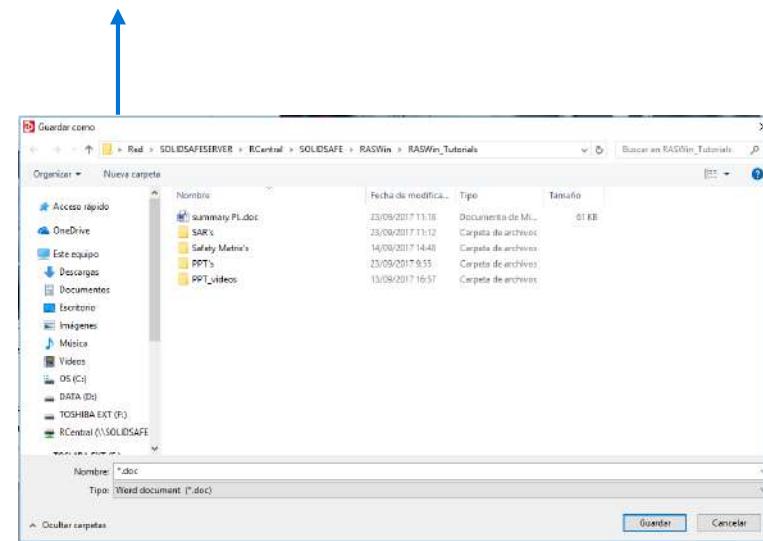
Step 3: Generating report

How to calculate the PL in RASWin?

PL Gfx Module



1. Click on “File”
2. Select “Generate report”
3. Select the Word Template
4. Select “Performance level Summary table”
5. Click “Ok”
6. Save the document



How to calculate the PL in RASWin?

PL Gfx Module

Access point	Function	Subsystem	PL _{req}	PL	PF _h
A01-Acces Point 1	A01.01 - Safety_Function_1		d	e	4.00e-09
		SS Central Estop			3.10e-09
		SS Auxiliar Contactor 1			9.06e-10

The summary of the PL has been created

PL Summary generated