

HOW TO CALCULATE THE ARC FLASH RATE

FOR YOUR SAFETY

THE ARC FLASH LEVEL CALCULATION IS DEFINED BY NUMBERS OF PARAMETERS

First, your network **must be analysed by an independent expert (risk analysis)**.
It is crucial to have a clear scheme of your network and your installations (circuit breakers, cables, electrical cabinets, transformers...)

It is also important to **identify and localize where arcfash may occur**.

You need to take into consideration **various parameters** in order to calculate the level of protection :

- The voltage level at the location with the highest risk
- The current value (kA)
- The time of the protection devices when short circuit occurs (in seconds)
- The arc flash duration
- Gaps between conductors (in mm)
- Distance between the source of the arc flash and the operator's working area (in mm)

It exists website where this calculation may be done, as you "only" need to insert your settings and a result will be given.

Or you may call external independant organisations that are qualified to analyse the risks and evaluate the level protection.

The evaluation is conformed to the **IEC 61482-1-1 & ASTM F1959 standards**.

Please find at your disposition an example of an evaluation made via a website you can find on the Internet, showing which information to advise.

If you have any questions please feel free to contact our technical support by phone:



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