



Questionnaire Regarding the Use of UFCL-limiter

Client Information

| | |
|---------------|------------|
| Name | Title |
| Phone Company | Email |
| Name | Department |

Data required for the design and quotation of a UFCL-limiter

1. Project information

Project name

Engineering Stage

2. Which parts of the system requiring protection

3. The information of the parts of systems requiring protection

| | | | |
|-------------------|----|---|-------|
| Rated frequency | Hz | Breaking capacity of VCB | kA |
| Operating voltage | kV | Peak Withstand Current of the Busbar | kAp |
| Rated voltage | kV | Prospective short-circuit current I_k (IEC 60909.0) | kArms |
| Grounding | | | |

4. Ratings of UFCL-limiter required

| | | | |
|-------------------|----|-------------------|-------|
| Operating voltage | kV | Operating current | A |
| Rated voltage | kV | Rated current | A |
| Quantity required | ea | Breaking capacity | kArms |
| Control Voltage | | | |

Note: If more than one UFCL-limiter is required, please provide additional information in Item 11, for example if the Selective Tripping function is required, etc.

5. We are able to deliver the UFCL-limiter in different designs, which design do you need?

UFCL mounted as loose equipment indoor

UFCL mounted as loose equipment outdoor

UFCL fixed mounted in type tested switchboard

6. Your target price
7. Installation requirements
 - It must be possible to isolate the UFCL-limiter so that the UFCL inserts can be replaced after operation of the device.
 - A circuit breaker must be installed in series with the UFCL-limiter (except in cases where the UFCL is installed in parallel to a reactor)
8. In order to quote, please provide following documents:
 - Single line diagram of the system.
 - Short-circuit calculation and analysis.
9. In order to calculate the tripping and setting values we need:
 - Overall single line diagram of the system.
 - Initial symmetrical short-circuit current $I_{k''}$ of generators, transformers, the grid, motor contribution.
 - The permissible short-circuit current of the switchboard.
 - Rated power of motors over 2 MW connected to the same voltage level on which the UFCL-limiter is installed.
 - Rated capacity of capacitor banks and the inductance in series connected to the same voltage level on which the UFCL-limiter is installed.
 - Rated power of the biggest transformer, energised from the same voltage level where the UFCL-limiter is located.
10. Note:
 - Points 1 to 6 above must be answered for an inquiry to proceed.
11. Any other relevant information about the project:



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