



Study Committee No : A3

WORKING BODY FORM

<b>Group No : A3.23</b>	<b>Name of Convener : Heino Schmitt (DE)</b>
<b>TITLE of the Group :</b> Application and feasibility of fault current limiters in power systems	
<b>Scope, deliverables and proposed time schedule of the Group :</b> Although many investigations have been carried out in the past and are currently being carried out, the state of the art in the field of fault current limiting devices are conventional solutions like fault current limiting reactors, high-voltage current limiting fuses, pyrotechnic fault current limiters, etc. For the time being, none of the novel approaches led to an economically acceptable solution for a fault current limiter for medium-voltage or high-voltage networks.  This WG will build upon the previous work of WG A3.10 and WG A3.16 with regard to the application of fault current limiters from a technical point of view and will draw to a close A3's investigations into FCL's. The working group will make use of the results of the previous working groups and will investigate and summarize the following topics: <ul style="list-style-type: none"><li>- location of FCL installation</li><li>- different types of FCL (conventional and novel) and their limiting behavior and drawbacks</li><li>- experience from former and new pilot projects in order to give a realistic picture</li><li>- feasibility of the application of conventional and novel FCL technologies to HV (e.g. technical and economic possibilities, extrapolation from MV to HV?)</li><li>- acceptance issues and how to overcome them</li><li>- customer system requirements with respect to fault level, insulation coordination, power quality, stability, etc.</li><li>- interactions with protection and other control and power devices</li><li>- potential economical savings (examples from utility experiences....)</li></ul> <b>Time schedule:</b> 3 years	

<b>Documents to be produced:</b> Technical brochure and Report in Electra. Session/Symposium papers as appropriate. Tutorial material (enhancing that available from the previous WG's)
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<b>Approval by TC Chairman :</b> <b>Klaus Fröhlich</b> <b>Date :18-02-2008</b>
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