

IEEE Power Engineering Society
Switchgear Committee
Low Voltage Switchgear Devices Subcommittee

C37.13 and C37.27 Working Group Report
September 20, 2004 – Tucson, Az

PC37.13 and PC37.27 working groups (combined) met on Monday morning September 20, 2004, with 6 members, 12 guests present, and no members excused.

The IEEE Patent Slides were shown and reviewed.

C37.13 Low-Voltage AC Power Circuit Breakers Used in Enclosures

Discussion Items

PC37.13/D10 was discussed and created during the meeting. The following issues were discussed:

1. Nonintegrally Fused CB's - Modified text and structure of document to include reference to Nonintegrally Fused Circuit Breakers with reference to C37.27.
2. CB Frame Grounding Devices – Text was added to clarify the capabilities for the frame grounding device. In the future, coordination with C37.50 will be required to add the test requirements. The capabilities (and future C37.50 changes) target use of the UL1066 requirements.
3. SC Current tests for both 50 and 60 Hz applications (**Open Item**) – Previous draft D9 with respect to short-circuit tests for 50/60 Hz dual rating required only tests at 50 Hz (based on worse case condition associated with arc energy). For circuit breakers with “instantaneous override” feature (C37.50-2000, clause 3.9.5), the 60 Hz tests is identified as a worse case condition considering di/dt. Thus, new wording is to be provided from N. McQuin, N. Gunderson and T. Olsen for review.
4. BIL – Added text referencing C37.20.1 and the surge protection. No BIL capabilities or tests were added.
5. Editorial corrections – Various corrections and revisions made through-out the draft.

Schedule

6. Comment concerning short-circuit testing for dual rated 50/60 Hz CB's, with or without “instantaneous override” operation shall be provided and resolved within WG with target completion no later than November 5, 2004. Balloting process will then be initiated.

C37.27 Application Guide for Low-Voltage AC Nonintegrally Fused Power Circuit Breakers (Using Separately Mounted Current-Limiting Fuses)

Discussion Items

1. The PAR was revised due to changes of the referenced standards included in the Scope. Request was received from NESCOM member to include voltage references in the document title. This request for the inclusion of voltages in the title was rejected and a previous email stating acceptance of not have the voltages in the title for the original PAR was provided. Review of the PAR is scheduled for NESCOM September 22, 2004 meeting.
2. PC37.27/D4 was reviewed by WG with respect to the change in Scope and the figures. The appearance of Figure 1 will be modified slightly.
3. Editorial corrections – Various corrections and revisions made through-out document.

Schedule

4. PC37.27 ballot will be balloted concurrently with PC37.13 which is targeted for November 2004 as noted above. The two documents are intimately related and balloting concurrently is considered appropriate.

Action Item

5. Will proceed to ballot.

Report submitted by: D. Edwards, PE
PC37.13 and PC37.27 WG Chair