

IEEE Power Engineering Society  
Switchgear Committee  
Low Voltage Switchgear Devices Subcommittee

C37.13 and C37.27 Working Group Report  
May 9, 2005– St. Pete Beach, FL

PC37.13 and PC37.27 working groups (combined) met on Monday morning May 9, 2005, with 8 members, 16 guests present, and one member unexcused.

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

#### **Discussion Items**

PC37.13 drafts D10 and D11 were discussed during the meeting. The following issues were discussed:

1. Cross-referencing integrally and nonintegrally fused CB's – cleaned-up text to include references to nonintegrally fused circuit breakers with reference to C37.27.
2. Normal operating conditions – reduced minimum temperature from -5 °C to -30 °C based on experienced problems in applications and concept that the lightly loaded circuit breaker may not warm up much above the ambient temperature surrounding switchgear which has minimum operating temperature of -30 °C.
3. Rated power frequency withstand voltage – Rated power frequency withstand voltage was added back as a rating.
4. Frame grounding test – Instead of inclusion of the frame grounding test in C37.13, request shall be made to C37.50 concerning this issue with suggestion of reviewing UL, CSA and IEC tests and text previously included in C37.13/D10.
5. Cumulative loading and insulating materials – Clause 9.1.3.3 added for consideration of cumulative loading and minimal enclosure sizes with reference to C37.20.1.
6. Various editorial changes were made.

#### **Schedule**

7. Review of Bob Puckett comments were not completed but are to be continued after LVSD meeting and expedited for completion and new draft completed by June 1, 2005 to that balloting process can be initiated and completed prior to Fall 2006 meeting.

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

#### **Discussion Items**

1. PC37.27/D5 was reviewed.
2. Request was made (based on comment) to IEEE Editors to add “ac” into the Scope in order to match the title. By response from IEEE Editors on May 10, 2005, this will be considered an editorial change to the scope and will not require request for revision of the PAR.
3. Unprotected wired connected directly to primary circuits. This will be removed from the Introduction and is to be handled within C37.13.
4. The cross-referencing between C37.13 and C37.27 was “cleaned-up” primarily by including text such as “integral or non nonintegral” to the circuit breaker.

#### **Schedule**

5. 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**

6. Will proceed to ballot with C37.13.

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