

IEEE Standards

Possible Scope Infringement

October 9, 2017

Possible Scope Infringement

- Proposed new task in the Generator Breaker Standard IEC/IEEE 62271-37-013 committee
- Standards that already cover Generator Switchgear applications
- Recommended action

Possible Scope Infringement

- Generator Breaker Standard IEC/IEEE 62271-37-013
 - During the last IEEE meeting there was a proposal to add switchgear components to this standard

MT 59
IEC/IEEE 62271-37-013

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Tuesday May 2nd, 2017

Minutes of the Meetings held on
April 25th to 27th, 2017 in Charlotte, USA

Joint IEC/IEEE Maintenance Team for IEC/IEEE 62271-37-013

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Generator Breaker Standard IEC/IEEE 62271-37-013

Next Steps and Agreed Actions:

Action number	Action description	Responsible	Status	Deadline
10	Make a proposal to harmonize the requirements of individual components with those of generator circuit-breakers when part of a system	Task force leader: Lukas Zehnder general (Michael) disconnecter (Steven, Joachim, Lucas) earthing switch (Steven, Joachim, Lucas) voltage transformer (with or without fuse) (Frank) current transformer (Frank) surge arrester (Frank, Francois) capacitor (Frank) disconnecter for SFC (with or without fuse) (Albert, Joachim, Lucas) disconnecter for excitation transformer (Mirko) disconnecter for unit auxiliary transformer/back-to-back start-up (Albert, Jean-Marc, Frank) short-circuiting connection (permanently mounted) (Lukas) enclosure (Emanuele, Lukas) cable and any other connecting element (Emanuele, Lukas) bushings (Emanuele)	On going	06.06.2017

Possible Scope Infringement

Currently today the following standards are used to build Generator Switchgear.

- IEEE C37.20.2 – IEEE Standard for Metal-Clad Switchgear
- IEEE C37.20.3 - IEEE Standard for Metal-Enclosed Interrupter Switchgear (1 kV–38 kV)
- IEC 62271-200 - High-voltage switchgear and controlgear - Part 200: AC metal-enclosed switchgear and controlgear for rated voltages above 1 kV and up to and including 52 kV

Possible Scope Infringement

IEEE C37.20.2

Throughout the C37.20.2 standard Generator Circuit Breakers are addressed.

Introduction

This introduction is not part of IEEE Std C37.20.2™-2015, IEEE Standard for Metal-Clad Switchgear.

This standard has been revised to reflect needed technical changes that have been suggested since the last revision to IEEE C37.20.2™ was published in 1999. The significant changes include:

- Addition of 4000 A as a preferred continuous current rating
- Addition of new definitions for types of insulation as used in metal-clad (MC) switchgear
- Addition of special considerations/requirements when generator circuit breakers are used in MC switchgear

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IEEE C37.20.2

- In 1987 the IEEE C37.20.2 standard included station-type cubicle switchgear. This wording could be added back to the current C37.20.2 standard as a possible solution to address station-type breakers..

1. Scope and References

1.1 Scope. This standard covers metal-clad and station-type cubicle switchgear containing but not limited to such devices as power circuit breakers, other interrupting devices, switches, control, instrumentation and metering, and protective and regulating equipment. It includes, but is not specifically limited to, equipment for the control and protection of apparatus used for power generation, conversion, and transmission and distribution.

Possible Scope Infringement

IEEE C37.20.3

If a fixed breaker was used, then it could be designed, built and tested per IEEE C37.20.3 which has been done.

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Recommended Action

- Recommend forming an ADSCOM joint HVCB and SA Ad Hoc for the purpose of reviewing the proposed 62271-37-013 scope for potential overlap with the existing SA document Scopes.

Possible Scope Infringement ADSCOM motion

- Move to direct HVCB to not submit a modified PAR to the IEEE SA until such time the ADSCOM Ad Hoc charged with reviewing the proposed and existing HVCB and SA Scopes has completed its work and has provided a report to ADSCOM.