



IEEE SA
STANDARDS
ASSOCIATION

IEC/IEEE 62271-37-013:2021/COR1:2024
(Corrigendum to IEC/IEEE 62271-37-013:2021)

HIGH-VOLTAGE SWITCHGEAR AND CONTROLGEAR –

Part 37-013: Alternating current generator circuit-breakers

CORRIGENDUM 1

Copyright © 2024 IEC, Geneva, Switzerland
Copyright © 2024 Institute of Electrical and Electronics Engineers, Inc.
All rights reserved.
Published 2024.

STANDARDS

22 November 2024

STD27491 ISBN 979-8-8557-1467-8

Authorized licensed use limited to: Tsinghua University. Downloaded on February 25, 2026 at 20:44:13 UTC from IEEE Xplore. Restrictions apply.

Full document details: IEEE 62271-37-013-2021/Cor 1-2024



Documents
Document Sharing Hub

INTERNATIONAL ELECTROTECHNICAL COMMISSION

IEC/IEEE 62271-37-013
Edition 2.0 2021-10

HIGH-VOLTAGE SWITCHGEAR AND CONTROLGEAR –
Part 37-013: Alternating current generator circuit-breakers

CORRIGENDUM 1

D.4.2 Asymmetrical generator-source short-circuit breaking current

Replace the first formula in this subclause by the following:

$$I_{\text{gen asym}} = \frac{\sqrt{2} U_{\text{mG}} S_{\text{rG}}}{\sqrt{3} U_{\text{rG}}^2} \left\{ \left[\left(\frac{1}{x''_{\text{d}}} - \frac{1}{x'_{\text{d}}} \right) e^{-t/\tau''_{\text{d}}} + \left(\frac{1}{x'_{\text{d}}} - \frac{1}{x_{\text{d}}} \right) e^{-t/\tau'_{\text{d}}} + \frac{1}{x_{\text{d}}} \right] \cos(\omega t) \right\} \\ - \frac{\sqrt{2} U_{\text{mG}} S_{\text{rG}}}{\sqrt{3} U_{\text{rG}}^2} \left[\frac{1}{2} \left(\frac{1}{x''_{\text{d}}} + \frac{1}{x''_{\text{q}}} \right) e^{-t/\tau_{\text{a}}} + \frac{1}{2} \left(\frac{1}{x''_{\text{d}}} - \frac{1}{x''_{\text{q}}} \right) e^{-t/\tau_{\text{a}}} \cos(2\omega t) \right]$$