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

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Published 2024.

STANDARDS

22 November 2024

STD27491 ISBN 979-8-8557-1467-8

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

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INTERNATIONAL ELECTROTECHNICAL COMMISSION

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

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

Replace the first formula in this subclause by the following:

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

IECIEEE 62271-37-013:2021-10/COR1:2024-11(en)

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