

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:

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