

**IEEE Std 112-1996**  
Revision of IEEE Std 112-1991)

# IEEE Standard Test Procedure for Polyphase Induction Motors and Generators

Sponsor

**Electric Machines Committee  
of the  
IEEE Power Engineering Society**

Correction Sheet

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In Equation (32) the “m” should be replaced with “±.” The equation should read as follows:

$$V_2 = \{ [V_1 - I_1 X_1 \sin \theta_1 \pm R_1 \cos \theta_1]^2 + [I_1 X_1 \cos \theta_1 \mp R_1 \sin \theta_1]^2 \} \quad (32)$$

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In Equation (33) the “m” should be replaced with “±.” The equation should read as follows:

$$\theta_2 = \arctan \frac{I_1 (X_1 \cos \theta_1 \mp R_1 \sin \theta_1)}{V_1 - I_1 (X_1 \sin \theta_1 \pm R_1 \cos \theta_1)} \quad (33)$$

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In Equation (38) the “m” should be replaced with “±.” The equation should read as follows:

$$I_2 = \left[ (I_1 \cos \theta_1 + I_e \sin \theta_2 \mp I_{fe} \cos \theta_2)^2 + (I_1 \sin \theta_1 - I_e \cos \theta_2 \pm I_{fe} \sin \theta_2)^2 \right]^{\frac{1}{2}} \quad (38)$$

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In Equation (47) the “m” should be replaced with “±.” The equation should read as follows:

$$V_2 = \left\{ [V_1 - I_1 (X_1 \sin \theta_1 \pm R_1 \cos \theta_1)]^2 + [I_1 (X_1 \cos \theta_1 \mp R_1 \sin \theta_1)]^2 \right\}^{\frac{1}{2}} \quad (47)$$

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In item (28), the “[ (29)/(9)•” should be removed. The line should read as follow:

(28) Is equal to [(14)-(27)-(15)]