

$$I_{RMS_x_m} = \frac{\sqrt{2} \times \sqrt{\left(\frac{I_{x_m_Rx} \times K_{Ix}}{2^{18}}\right)^2 + \left(\frac{I_{x_m_I} \times K_{Ix}}{2^{18}}\right)^2}}{N} = \frac{\sqrt{2 \times \left((I_{x_m_Rx} \times K_{Ix})^2 + (I_{x_m_I} \times K_{Ix})^2\right)}}{2^{18} \times N} [A_{rms}]$$