Subject: Altitude Derating

Since there is a reduced cooling effect at high altitudes, the continuous current rating of a fuse will need to be derated for applications above 2000m. The following equation can be used to determine the adjusted current rating:

\[ I_A = I \times X_A \]
\[ X_A = 1 - \frac{(A - 2000)}{20000} \]

\( I_A \) = Altitude Adjusted Current Rating of the Fuse  
\( I \) = Current Rating of the Fuse  
\( A \) = Altitude of the Application  
\( X_A \) = Altitude Derating Factor

Example
For a 30A fuse at 3000m
\[ X_A = 1 - \frac{(3000-2000)}{20000} = 1 - 0.05 = 0.95 \]
\[ I_A = 30 \times 0.95 = 28.5A \]

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