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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:

$$I_A = I * X_A$$
$$X_A = 1 - (A - 2000)/20000$$

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

$$X_A = 1 - (3000-2000)/20000 = 1 - 0.05 = 0.95$$

$$I_A = 30 * 0.95 = 28.5A$$

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