



ALTITUDE DERATING

De-rating equipment for use at elevations above sea-level;

Industrial controls require de-rating when operated at an altitude above 6600 ft.
(e.g. circuit breakers, P/B, fuses, transformers)

Industrial power semiconductors require de-rating when operated above 3300 ft.
(e.g. SSRVS, Inverters)

The equipment must be derated 1% for every 330 ft above these heights.

For Example; A Circuit Breaker at 15000 ft

Height above 6600ft: $15000 \text{ ft.} - 6600 \text{ ft.} = 8400 \text{ ft}$
De-rating factor: $8400\text{ft} \div 330\text{ft} = 25.5\%$

Second Example; Solid State Starter

Height above 3300ft: $15,000 \text{ ft.} - 3,300 \text{ ft.} = 11700\text{ft}$
De-rating factor: $11700\text{ft} \div 330\text{ft} = 35.5\%$

De-rating fuses for use at elevations above sea-level;

Elevation Above Sea - Level (feet)	% Current Carrying Capability
Up to 3500	100
4000	99
5000	97.5
6000	95.5
7000	93.3
8000	90.7
9000	88
10000	85
12000	78
14000	81