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Justin Schneider - 2026-07-27 - [easYgen-1800](#)

Formulas for Overcurrent / Ground Fault

- **IDMT Multiply of Overcurrent settings formula:**
$$T = t / ((IA/IT)-1)^2$$

T Overcurrent delay (seconds)

t Timing multiplier ratio

IA Current max. load current [L1/L2/L3]

IT Overcurrent setting value

Example

$$t = 36$$

$$IA = 550A$$

$$IT = 500A$$

$$\text{Conclusion: } T = 3600 \text{ s}$$

- **Delay Multiplier for Ground Fault formula:**

ground current delay action calculation (0.1s) = delay multiplier * 0.14 / (((ground current / ground current threshold)^{0.02} - 1)