easYgen-800/-1800 IDMT / Ground Fault formulas

Simon - 2021-12-15 - easYgen-800

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

  Conclusion: T = 3600 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)*