Calculation of inverse time setting for relay protection

With the help of these spreadsheets below, you can make your endless calculations much easier! Contact us for more information and download:

The generic Inverse Definite Minimum Time (IDMT) time current curve calculator will allow you to not only produce curves for standard IEC and IEEE relay characteristics but will give a trip time for a ...

The operating time of definite time relays does not depend on the magnitude of the fault cur-rent, while the operating time of inverse time relays is shorter the higher the fault current magnitude is.

Inverse Time Over Current is also referred to as Time Over Current (TOC) or Inverse Definite Minimum Time (IDMT), indicating that the trip time of the relay is inversely proportional to the ...

Calculate time overcurrent relay settings with IEEE & IEC standards. Learn IDMT relay formulas, TMS/TD settings and protection coordination.

Calculate pickup current, PSM, CT ratio, and IEC inverse relay operating time for Standard, Very, Extremely, and Long-Time Inverse curves.

The Inverse Time Over Current (TOC/IDMT) relay trip time calculator calculates the protection trip time according to IEC 60255 and IEEE C37.112-1996 protection curves.

Relay 7 has an instantaneous setting of 1100 A, which is smaller than the setting of relay 6, and so the operating time of both relays is determined by this value.

For inverse-time operation, both IEC and ANSI/IEEE standardized inverse-time characteristics are supported. The operate times for the ANSI and IEC IDMT curves are defined with the coefficients A, ...

Plug Setting Multiplier (PSM) indicates how many times the determined relay secondary current (typically the CT secondary) exceeds the relay pickup (plug) current. It is the key quantity ...

This dimensionless value directly determines relay operating time through the inverse time-current equation and serves as the primary coordination parameter in time-graded protection ...

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