



Tripping characteristic of a differential relay

In practice, identical CT-s do not transform currents with the same ratio. This means that a relay should trip if $I_{diff} > I_p$ and not when $I_{diff} > 0$, where I_p is the pickup differential current (maximum differential current that is tolerated without tripping). Generally, higher currents, as represented by I_{rest} , result in bigger errors, hence the corresponding values of I_p are higher too.

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