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7 >Differential Protection – January 2004 7  
Maximum voltage across relay circuit,  $V_s = I_f (R. CT + 2R. L)$  To limit current through relay to  $< I_s$  the relay impedance  $R. relay > V_s/I_s$ . Protected

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1.1 Protection principle Differential protection calculates the sum of all currents flowing into and out of the protected object. Apart from magnetising currents and capacitive charging currents, this current sum must always be equal to zero (Kirchhoff's current law) if the protected object is unfaulted. Internal faults are therefore ...

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**The principles of differential protection you MUST ...**

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The principles of differential protection you MUST understand (on photo: SIPROTEC protection relays) Figure 1 shows a simple differential protection scheme, also known as a Merz-Price scheme . In this simple scheme, we can assume that under normal operating conditions, the current entering into the piece of equipment under protection is equal (or in the case of a transformer, proportional) to ...

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