

2

Electromagnetic Relays

23. Find the plug-setting and time of operation of IDMT overcurrent relay for the system shown in Fig. 2.42.

Data:

CT ratio: 100/1 amp

Rated full load current of induction motor: 90 amp.

Relay rating: 1 amp, setting range: 50–200% of 1 A in 7 equal steps.

TMS selected = 0.1

Fault current, $I_f = 550$ amp



Fig. 2.42

Sol: Rated full load current of induction motor = 90 amp.

Current reflected on secondary side of C.T.

$$= \left(\frac{90}{100} \right)$$

$$= 0.9 \text{ amp.}$$

$\therefore$ P.S. of IDMT overcurrent relay > 90% of 1 amp.

P.S. of Relay is selected as 100% of 1 amp as immediate higher step to 90% available is 100%.

Time of operation of IDMT relay

$$= \frac{3}{\log \text{PSM}} \times \text{TMS}$$

$$= \frac{3}{\log(550/100)} \times 0.1$$

$$= 0.4052 \text{ sec.}$$

24. A percentage differential relay employed in the protective scheme of Fig. 2.43 has a minimum pick-up of 0.05 A and 10% slope. A high resistance ground fault has occurred near the grounded neutral end of the generator winding while the generator is carrying load. The resulting current magnitudes are given in Fig. 2.43. Assuming that the CTs have 400/1 amp ratio and no inaccuracies, will the relay trip the breaker under this condition? Would the relay operate at the given value of the fault current if the generator were carrying no load with the breaker open?

When the generator is carrying load,

$$I_1 = 400 \text{ amp}$$

$$I_2 = 375 \text{ amp}$$

$$\therefore I_f = (I_1 - I_2) = 25 \text{ amp}$$

Solution Manual Power System Relaying

Ali R. Al-Roomi



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