

1. DC motor is started and brought to rated speed by adjusting rheostat.
2. Keeping the TPST open, alternator field rheostat is energized.
3. By varying alternator field rheostat, the field ( $I_f$ ) current is varied in steps, and  $E_o$  (internal emf) is noted.
4. Above procedure is noted till 125% of rated voltage.

#### SHORT CIRCUIT TEST

1. TPST switch is closed.
2. By varying alternator field rheostat, the field current, ( $I_f$ ) is varied in steps and corresponding short current ( $I_{sc}$ ) is noted.
3. Above procedure is repeated till rated current is reached.

#### ZPF TEST

1. DC motor is run at rated speed by adjusting motor field rheostat.
2. 3 $\Phi$  ZPF load is connected to alternator by closing TPST switch.
3. By alternatively varying field rheostat, ZPF load, alternator is made to deliver rated current. Readings are noted.

#### DRAWING ZPF CURVE

1. OCC is drawn.
2. Point A is located such that OA gives  $I_f$  corresponding to  $E_{rated}$ . Under short circuit test.
3. Point B is located such that it gives  $I_f$  no voltage from ZPF test.
4. Points A and B joined by curve parallel to OC called ZPF curve.
5. From the curve, ZPF curve is extended.
6. From H, HD is drawn parallel to OCC line.
7. From B, BH is drawn parallel and equal to OA.
8. Point D is point to B and BHD is tangent is obtained.

# Em 2 Lab Manual

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