



NATURAL SCIENCE MARKING GUIDELINES

April 2009

ELECTROTECHNICS N5
808005

April 2009

ELECTROTECHNICS N5

QUESTION 1

- 1.1 By reversing either the field $\downarrow$ or armature connections. $\checkmark$ (2)
- 1.2 They are placed in slots in the pole shoes. $\checkmark$ They are connected in series with the armature windings. $\checkmark$ (2)
- 1.3 $V = 250 \text{ V}$ $P = 44 \text{ kW}$ $N = 1500 \text{ rpm}$ $\eta = 85\% = 0.85$
 $R_a = 0.32$ $I_f = 1.8 \text{ A}$ $I_a R_a = 3.5 \text{ V}$
- 1.3.1 $\text{Input} = \frac{\text{Output}}{\eta} = \frac{44}{0.85} = 51.765 \text{ kW } \checkmark$
 $I_L = \frac{P}{V} = \frac{51765}{250} \text{ A} = 207.06 \text{ A } \checkmark$ (2)
- 1.3.2 $\text{Output} = \frac{2\pi N T}{60}$
 $44000 = \frac{2\pi \times 1500 T}{60} \checkmark$
 $T = \frac{44000 \times 60}{2\pi \times 1500} \checkmark$
 $= 280.26 \text{ Nm } \checkmark$ (2)
- 1.3.3 Starting current $= 1.75 (\text{full load}) = 1.75 \times 207.06 = 362.35 \text{ A } \checkmark$
 $I_a = 1.8 = 362.35 \text{ A } \checkmark$
 $V = E + V_b + V_a \text{ (at start)}$ $E = 0$ $V_b = I_a (R_a + x)$
 $250 = 0 + 3.5 = 362.35 (0.32 + x) \checkmark$
 $x = \frac{250 - 115.95}{362.35}$
 $= 0.65 \text{ ohms } \checkmark$ (2)

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LP Steffe



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