



MEMORANDUM
APRIL 2008

✓ = 1pt

QUESTION - 1 - VRAAG
[POWER TRANSMISSION - Kragtoerbringings]

1.1

1.1.1

For the Speed Ratio (SR):

Speed Ratio = $\frac{\text{Speed of Faster Pulley}}{\text{Speed of Slower Pulley}}$

$$SR = \frac{1200}{700}$$

$$\therefore SR = 1,72 : 1$$

✓

Vir die Speedverhouding (SR):

Speedverh. = $\frac{\text{Speed van Vinniger Katrol}}{\text{Speed van Stadiger Katrol}}$

$$SR = \frac{1200}{700}$$

$$\therefore SR = 1,72 : 1$$

✓ (1)

1.1.2

For the Service Factor (SF):

Consider:
Type of start = soft
Hours per day = 11

Read from TABLE 1

$\therefore$ The service factor (SF) as 1,1

✓

Vir die Diensfaktor (SF):

Oorweeg:
Tipe aanskakeling = sag/lig
Ure per dag = 11

Lees vanaf TABEL 1

$\therefore$ Die dien sfaktor (SF) as 1,1

✓ (1)

1.1.3

For the Indicated Power (IP):

NB: Torque is been given!

$$\text{Indicated Power} = \frac{2\pi NT}{60}$$

$$\therefore IP = \frac{2 \times \pi \times 1200 \times 398 \times 10^{-3}}{60}$$

$$= 50 \text{ kW}$$

✓

✓

✓

Vir die Aangedui dedrywing (IP):

NB: Wringkrag is gegee!

$$\text{Aangedui dedrywing} = \frac{2\pi NT}{60}$$

$$\therefore Pd = \frac{2 \times \pi \times 1200 \times 398 \times 10^{-3}}{60}$$

$$= 50 \text{ kW}$$

✓

✓

✓

(3)

1.1.4

For minimum pulley diameter (d):

Refer to TABLE 2:

Consider:
N = 1200 r/min
& Design Power = 50 kW

$$\therefore d = 180 \text{ mm}$$

✓

Vir minimum katroldiameter (d):

Verwys na TABEL 2:

Oorweeg:
N = 1200 r/min
& Ontwerpdrywing = 50kW

$$\therefore d = 180 \text{ mm}$$

✓

(1)

Mechanotechnology Paper April 2011 N3 Memorandum

Tao Wei



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