DEPARTMENT OF EDUCATION



DEPARTMENT WAIN ONDERWYS



MECHANOTECHNOLOGY N3

MEGANOTEGNOLOGIE N3

MEMORANDUM APRIL 2008

1 of

QUESTION - 1 - VRAAG [POWER TRANSMISSION - KRAGOORBRINGING]

1.1 9.9.9

What will be to be

For the Speed Patte (Sp):

Speed Ratio		Speed of Faster Pulley	
		Speed of Slower Pulley	
SR	- 1	700	
SR	- 1	.72 : 1	

Vir die Spoedverhouding (SR):

For the Service Factor (SF):

Consider:

Type of start	100	soft
Hours per day	100	1.1

Read from TABLE 1

Vir die Diensfaktor (SF):

Oorweeg:

Lees vanaf TABEL 1

1.1.3 For the Indicated Power (IP):

NB: Torque is been given!

Vir die Aangeduidedrywing (IP):

Aangeduidedrywing =
$$\frac{2 \pm N.T}{60}$$

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

7.1.4

For minimum pulley diameter (d):

Consider:

$$N = 1200 \text{ r/min}$$

Vir minimum katroldiameter (d):

Verwys na TABEL 2:

Clorweed:

V (1)

152008 ly 1800 92/11

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Karin Nielsen-Saines

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