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#### 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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R. Cameron

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