Designed For:

Provided By g.au

Application: **Design #1**

INPUT

Drive Information

	DriveR	DriveN
Known Size:	48 Grooves	48 Grooves
RPM:	1500.0	1500.0

Speed Ratio: 1.00
Input Load: 3 kW, Efficiency: 92.00 %
Service Factor: 1.6
Design Power: 4.8 kW
Center Distance: 783 to 957 mm

Bushings Checked: TL, MPB
Belts Checked: PowerGrip GT2

Electric Motor

SELECTED DRIVE

Belt Type: **PowerGrip GT2 - 8M**

Speed Ratio: **1.0**
dN RPM: **1500.0**
Rated Load: **17.33 kW, ODR: 3.61**
Belt Pull: **402 N**
Center Distance: 908.0 mm
Install/Take-Up Range: 871.4 mm to 909.0 mm

	Belt	DriveR	DriveN
Part No:	2200-8MGT-20	P48-8MGT-20	P48-8MGT-20
Product No:	9207-1033	7708-2048	7708-2048
Top Width:	--	30.62 mm	30.62 mm
Weight:	242 g	1.7 kg	1.7 kg
Rim/Belt Speed:	9.6 m/s	9.5 m/s	9.5 m/s
RPM:	261.8	1500.0	1500.0
Bushing Part No:	--	2012	2012
Bore:	--	12.7 mm - 54.0 mm	12.7 mm - 54.0 mm
Pitch Diameter:	--	122.2 mm	122.2 mm

Noise: 70 dB @ 1200 Hz
Savings: The three year savings can be up to 1221 KWh

TENSION

	New Belt	Used Belt	
Rib/Strand Deflection Distance:	14.19 mm	14.19 mm	When planning to re-install used belts, measure and record the tension before removing and re-install at the recorded tension.
Rib/Strand Deflection Force:	1.8 to 1.9 kg	1.4 to 1.5 kg	

Sonic Tension Meter
Belt Frequency: 23 to 24 Hz   20 to 21 Hz
505C/507C Model STM Settings: Mass 5.5g/m, Width: 20 mm/#R, Span: 908 mm

NOTES

- Drive over-designed and efficiency may be reduced.
- The belt width was user specified.
- This drive was not selected by Design Flex; the belt width/length was specified by the user.
- Yearly Usage: 10 Hrs / Day, 5 Days / Wk, 50 Wks / Yr

- Design Flex Drive Solutions assume Gates products and are not applicable to non-Gates products.
- products are not intended for use in any application where the failure of the product to perform could cause injury or death. This includes use on aircraft propeller or rotor drive systems or other in-flight systems necessary for safe flight.