



PROJECT DESIGN CONTROL SHEET

Issue: Sep 03

Rev: 00

CIN	XXXX	Sheet No.	C00-0001AA
Customer	<i>Enter Customer Here</i>	Order Ack. No.	N/A

Type of Design Review

<input checked="" type="checkbox"/> Initial	<input checked="" type="checkbox"/> Internal	<input type="checkbox"/> Customer	<input type="checkbox"/> Other (Specify)
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Review Summary

Date: *Enter the date of the enquiry*

Turn around time required:

Expected quantities and phasing:

Present: *{Company}, Names of those in correspondence, (position)*

Purpose: To obtain initial information for motor drive specification

Contact type (e-mail, phone etc.): *Text*

Contact from (agent, client etc.): *Text*

Mechanical Specification:

Motor controller envelope:

- 1. OD (of housing Ref only) = *XXmm (YYInches)*
- 2. ID (of housing) = *XXmm (YYInches)*
- 3. Length = *XXmm (YYInches)*

Notes: *Enter any notes pertaining to the size information as required*

Environmental Specification: Fill in this section as required, example shown for reference only

- 1. Temperature (operational) = *+175°C, No negative temperature discussed*
- 2. Duration = *10 hours operational at maximum operating temperature*
- 3. Temperature (max) = *180°C, no time designated for this temperature, not considered a requirement*
- 4. Pressure = *140Mpa (20.3k psi) – Motor only, Ambient – Control electronics*
- 5. Motor = *The motor and associated wiring will be located in hydraulic chamber, filled with oil (J26), this will see well pressure and temperature. The connection from the motor to the control electronics will pass through a mechanical feed thru*
- 6. Control = *The control electronics will be housed a atmospheric pressure chamber, so will be exposed to 1 atm, or 14.7psi*



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Motor Specification: *Fill in this section as required, example shown for reference only*

- 1. Working Voltage = 96V DC, 300V DC, 600V DC
- 2. Current = 1A Max
- 3. Torque = 0 to 0.5Nm
- 4. Speed = 0 to 3500rpm
- 5. Feedback = Resolver, Hall, Field Director, Sensorless 0-3500rpm
- 6. Efficiency Point = 1800RPM /3.54Lb-in (1800/0.4NM)
- 7. Gearbox = Ratio 33:1, Planetary etc.
- 8. Brake = No
- 9. Shock = 500G pulse duration length 1ms (no quantity specified)
- 10. Vibration = 30G, no spectral density specified

Control: *Required?? Fill in this section as required, example shown for reference only*

- 1. Control Voltage = Line voltage to control motor speed, +12V, +5V DC Low power design
- 2. Turn Angle precision = N/A, ±1°
- 3. Shock = 300G pulse duration length: 2ms, 10 times
- 4. Vibration = 20G, 10-1000Hz 0.5Hours (30 minutes) no spectral density specified

Notes: *Enter any notes pertaining to the control information as required*

Logger: *Required?? Fill in this section as required, example shown for reference only*

- 1. Parameters
 - a. Motor Speed (Velocity)
 - b. Current
 - c. Voltage
 - d. Position
 - e. Etc.....???
- 2. Resolution = ???
- 3. Sampling interval = ???

The resolution of the logged data was not known and Setter are to be asked by inclusion into a system specification document

Redress: *Enter the redress interval below:*

The tool should be redressed after every 10 hours of operation

Agreed Actions		
Action Point	Details	Responsibility
1.	N/A	N/A

Prepared By	<i>Enter Name Here</i>	Date	<i>Enter Date Here</i>	Signed	
QA SEIL (if required)		Date		Signed	
QA Customer (if required)		Date		Signed	