

310SV

SOFTWARE CONFIGURATION FORM



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application details

Customer Name: _____

Customer Unit Number: _____

Customer P.O.: _____

TRI-SEN SO: _____

turbine / start configuration

Number of Teeth on speed wheel: _____

Gear Ratio Between Prime Mover Rotor and Speed Wheel: _____:1

Electronic Overspeed Trip Speed Desired (310sv): _____ RPM

Maximum Governor Speed: _____ RPM

Minimum Governor Speed: _____ RPM

Control Range Ramp Rate: _____ RPM/Min

Critical Speed #1: _____ RPM

Critical Range Ramp Rate: _____ RPM/Min

Critical Speed #2: _____ RPM

Critical Range Ramp Rate: _____ RPM/Min

Critical Speed #3: _____ RPM

Critical Range Ramp Rate: _____ RPM/Min

Slow Roll Speed: _____ RPM

Intermediate Hold Speed 1: _____ RPM

Manual Release? yes/no: _____

Intermediate Hold Speed 2: _____ RPM

Manual Release? yes/no: _____

Intermediate Hold Speed 3: _____ RPM

Manual Release? yes/no: _____

analog input configuration

Analog Input Assignment Options:

- 0 Not used
- 1 Process Variable
- 2 Remote Speed Setpoint
- 3 Remote Process Setpoint
- 4 Nozzle Valve Position
- 5 Display Only

#1 Analog Input Options:

Assignment: _____

Current range _____ to _____ mA (Max Range 0.0 to 22.0mA)

Engineering Units Range: Min: _____ Max: _____

Action: _____ (Direct/Reverse)

Characterization : _____ (Linear/Square Root)

Filter factor: _____ (0= No Filter; 99 = Maximum Filter)

#2 Analog Input Options:

Assignment: _____

Current range _____ to _____ mA (Max Range 0.0 to 22.0mA)

Engineering Units Range: Min- _____ Max- _____

Action: _____ (Direct/Reverse)

Characterization : _____ (Linear/Square Root)

Filter factor: _____ (0= No Filtration; 99 = Maximum Filtration)

analog output configuration

Analog Output Assignment Option Codes:

- 0 Not used
- 1 Speed Measurement (Speed Used for Control)
- 2 Speed Setpoint (selected speed setpoint reference)
- 3 Remote Speed Setpoint (reference)
- 4 Valve Position Command (0.0 to 100.0%)
- 5 Analog Input#1
- 6 Analog Input#2
- 7 Process PID Setpoint (Cascade Controller Setpoint)

#1 Analog Output Options:

Assignment: _____

Current range _____ to _____ mA (Max Range 0.00 to 20.00mA)

Engineering Units Range: Min-_____ Max-_____

Action: _____ (Direct/Reverse)

#2 Analog Output Options:

Assignment: _____

Current range _____ to _____ mA (Max Range 0.00 to 20.00mA)

Engineering Units Range: Min: _____ Max: _____

Action: _____ (Direct/Reverse)

Actuator Selections:

Actuator Type: High current Low current

Direction: Direct action, increasing current opens valve

Reverse action, increasing current closes valve

High Current Range 0.0 to 200.0 mA max spread : _____ mA to _____ mA

Low Current Range 0.00 to 22.00 mA Max spread: _____ mA to _____ mA

Dither Amplitude % 0 to 10%: _____%

Dither Frequency 0 to 250 Hz: _____Hz

digital input configuration

Digital Input Types:

- | | |
|--------------------------|----------------------------------|
| 0 = Not used | 9 = Remote speed setpoint enable |
| 1 = Turbine Start Input | 10 = Remote Process enable |
| 2 = Turbine Stop Input | 11 = Over Speed Test enable |
| 3 = External Trip Input | 12 = Droop Enable Input |
| 4 = Setpoint Raise Input | 13 = Reset Input |
| 5 = Setpoint Lower input | 14 = Alarm Input |
| 6 = Halt Input | 15 = Alarm Acknowledge Input |
| 7 = Continue Input | 16 = Start Permissive Input |
| 8 = Cascade Enable Input | 17 = Idle/Run Input |

DIN 01:

Signal Assignment Code/Name: _____

Shelf State: N.O. N.C.

DIN 02:

Signal Assignment Code/Name: _____

Shelf State: N.O. N.C.

DIN 03:

Signal Assignment Code/Name: _____

Shelf State: N.O. N.C.

DIN 04

Signal Assignment Code/Name: _____

Shelf State: N.O. N.C.

DIN 05

Signal Assignment Code/Name: _____

Shelf State: N.O. N.C.

digital input/output configuration

Digital Input Types:

- 0 = Not used
- 1 = Turbine Start Input
- 2 = Turbine Stop Input
- 3 = External Trip Input
- 4 = Setpoint Raise Input
- 5 = Setpoint Lower input
- 6 = Halt Input
- 7 = Continue Input
- 8 = Cascade Enable Input
- 9 = Remote speed setpoint enable
- 10 = Remote Process enable
- 11 = Over Speed Test enable
- 12 = Droop Enable Input
- 13 = Reset Input
- 14 = Alarm Input
- 15 = Alarm Acknowledge Input
- 16 = Start Permissive Input
- 17 = Idle/Run Input

Digital Output Types:

- 100 = Trip Output #1 (Level)
- 101 = Trip Output #2 (Pulsed)
- 102 = Over Speed Trip Alarm
- 103 = Alarm Output
- 104 = Pickup Fail Alarm
- 105 = Machine Running Status
- 106 = Machine On Line
- 107 = Local Speed Control Enabled
- 108 = Cascade Enabled
- 109 = Remote Speed Setpoint Enabled
- 110 = Remote Process Control Enabled
- 111 = Overspeed Test Enabled
- 112 = Speed Switch #1
- 113 = Speed Switch #2
- 114 = Nozzle Valve #1
- 115 = Nozzle Valve #2
- 116 = Valve Limited

I/O Configuration:

Digital I/O Slot #01:

Slot assignment Type#: _____
Shelf State: N.O. N.C.:

Digital I/O Slot #04:

Slot assignment Type#: _____
Shelf State: N.O. N.C.:

Digital I/O Slot #02:

Slot assignment Type#: _____
Shelf State: N.O. N.C.:

Digital I/O Slot #05:

Slot assignment Type#: _____
Shelf State: N.O. N.C.:

Digital I/O Slot #03:

Slot assignment Type#: _____
Shelf State: N.O. N.C.:

Digital I/O Slot #06:

Slot assignment Type#: _____
Shelf State: N.O. N.C.: