PRECISION AUTOMATION SYSTEMS
MOTORS • CONTROLS • AUTOMATION

Precision Automation Control Panel Information Gathering

Incoming Power - Voltage and Phase:

Distance from Power Transformer to VFD:

Distance from VFD to motor + downhole:

* *Wire sizes MUST be calculated to compensate for excessive voltage drop; NEC Rules apply*

** Motor Protection Filters may be required for excessive motor cable lengths; see manufacturer's recommendations*

VFD Site and Environmental Information:

Proposed Location (City, State):

Elevation:

Is installation going Indoor or Outdoor:

If indoor, is room climate controlled?:

If outdoor, estimated lowest and highest operating temperatures ?:

Will panel be in direct sunlight or shaded ?:

Type of Pump and Motor:

Pump(s) Type:

Motor(s) Type:

Motor HP, Voltage, Phase:

FLA: SFA: RPM:

Is pump overloaded or underloaded?

Explain:

External Sensors:

PID Loop Process:

Pressure Transducer, range:

Level Transducer, range:

Flow Meter, max flow:
Pulse, Frequency, 4-20mA?:

Temperature, range:

Common Control Panel Options: check all that apply

- ☐ Below-Ambient Cooling Packages
- ☐ Main Disconnect Breaker
- ☐ Main Disconnect Switch w/Fuses
- ☐ VFD Manual Bypassing Contactor (Line-Starting)
- ☐ VFD Electronic Bypassing 3-Contactor
- ☐ Digital Line Voltage Monitor (Motor Saver)
- ☐ Standard Lightning Arrestor
- ☐ Advanced Strikesorb* Lightning Arrestor
- ☐ Line Reactor (1.5, 3, or 5%Z)
- ☐ IEEE-519 Harmonic Filtering
- ☐ Motor Protection Filtering (Long Lead Filters, Submersibles)
- ☐ Externally Mounted VFD/HMI Panel with Cover
- ☐ Hand/Off/Auto Selector Switch
- ☐ Manual VFD Speed Dial (Potentiometer)
- ☐ Programmable Logic Control (PLC)
- ☐ Multi-Pump Control (Lead-Lag, Alternation, Stand-by)
- ☐ SCADA or PLC Interface Terminals (Inputs, Outputs)
- ☐ Heating and Anti-Condensation Packages
- ☐ NEMA 4 or 4x Panels
- ☐ Dead-Front, Swing-Panel, Lockable Designs (Security)
- ☐ Clock Start – Pivot Start Circuits (120v AC or 24v DC)
- ☐ Wireless Control or Internet Accessible Features
- ☐ GSM or Cellular Modem Communications
- ☐
- ☐