

Application Questionnaire for Drive & Soft Starts

Completed by: _____ Date: _____

Customer Name: _____ Contact: _____

Address: _____ Phone #: _____

City: _____ State: _____ Project: _____

1. Application Type:

Fan, Blower, Centrifugal Pump? Yes = Variable TQ / Normal Duty

No = Constant TQ / Heavy Duty

Axial Fan Centrifugal Pump Centrifuge Conveyor / Screw Auger

Cooling Tower Fan Rock Crusher PDP Pump Mixer

Other: _____

2. Special Load Considerations (Examples in parenthesis):

High inertia / regenerative: (like flywheel or centrifuge) _____

Speed control tolerance (% or RPM): _____

High starting torque: (loaded conveyor or head pressure): _____

Shock load (rock crusher, punch press): _____

Gearbox between motor & load (5:1 or 35:1 - provide ratio): _____

Other: _____

3. Incoming Power Data:

Incoming power to drive: _____ Hz: _____ Single Phase 3-Phase

Outgoing voltage to motor: _____ Hz: _____ Single Phase 3-Phase

4. Motor Data:

Horsepower: _____ RPM: _____ New Existing

Volts: _____ Full Load Amps*: _____ Service Factor: _____

Running Amps - Normal: _____ Running Amps - Heaviest Load: _____

VFD / inverter rated motor = NEMA MG1 Part 31 with 1600-volt insulation rating

NOT VFD / inverter rated = NEMA MG1 Part 30 with 1000-volt insulation rating

*Rewound motors: Confirm running amps, as original nameplate data is likely NOT valid.

NOTE: If multiple motors are to be controlled by a single drive, attach individual motor information on a separate page. Please provide total ampacity of combined motors.

Application Questionnaire for Drive & Soft Starts (continued)



5. Drive Output Information:

Cable distance from VFD to motor: _____ (estimate total cable FEET)

Cable type: Not VFD rated cable VFD / Inverter rated cable

6. Speed Adjustments & Duty Cycle:

Maximum RPM: _____ Minutes at max speed/hr: _____

Minimum RPM: _____ Minutes at min speed/hr: _____

Acceleration time: _____ Any limit? _____

Deceleration time: _____ Any limit or is coast possible? _____

7. Will drive follow an automatic process signal? Yes No

If yes, specify signal type quantity of signals: 4-20mA _____ 0-10vDC _____

Examples: Operator Potentiometer, PLC signal, Pressure or Temperature feedback signal

8. Installation Environment: Indoor Outdoor

Required drive enclosure: Chassis NEMA 1 – clean room

NEMA 12 indoor dusty NEMA 3R outdoor NEMA 4 indoor or outdoor dusty

NEMA 4X corrosive NEMA 7 or 9 Hazardous / Explosive

Maximum temperature: _____ deg F Minimum temperature: _____ deg F

Site Elevation in feet: _____ Humidity above 95%: _____

9. Do you anticipate using any of these protection devices?

Input Line Reactor Output Reactor Motor dv/dt filter

Drive isolation transformer Broadband harmonic filter (IEEE519 Harmonic Concerns)

10. Serial Communication Requirements:

Modbus Ethernet Other _____

11. Other application details: _____

