



Drive and Soft Starter Application Questionnaire



Your Name & Company: _____ Date: ___ / ___ / ___

Best contact method: _____

Salesperson / Organization: _____ Application/REF: _____

This form is designed to help select a product to a specific application. Answer as many of the questions as possible, then send the form to a Control Techniques distributor or sales representative for action. Thank you.

1. Briefly describe the application (conveyor, extruder, fan, pump, etc.): _____

2. Are there any unusual characteristics of this application, please describe: _____

3. Enclosure / Environmental considerations:

IP 20 _____ NEMA 1 _____ NEMA 3R _____ NEMA 4 _____ NEMA 4X _____ NEMA 12 _____

UL Type 1 _____ UL Type 12 _____ Other: _____

Ambient Temperature _____ Humidity _____ Indoor _____ Outdoor _____

Corrosive atmosphere _____ High vibration/shock _____ Altitude (if over 1000 meters) _____

Other _____

4. Desired Solution: AC Drive _____ Soft Starter _____ DC Drive _____ Preferred Model _____

5. Input voltage (circle answer): 115 208 230 380 460 575 690V Phase 1Ø or 3Ø Other _____

6. Single motor _____, or multiple motor _____ application?

7. Motor data/Description/Type: _____

AC Motor

HP/kW _____

Base Speed _____

Min Cont Speed _____

Maximum Speed _____

Base Volts _____

Base Frequency _____

Full Load Amps (FLA) _____

NEMA Design _____

DC Motor

HP/kW _____

Base Speed _____

Min Cont Speed _____

Maximum Speed _____

Armature Volts _____

Armature Amps _____

Field Volts _____

Field Amps _____

8. What drive train method or mechanical system is being used? _____

Direct Drive _____ Chain/Sprocket _____ Belt/Sheave _____ Gear Ratio _____ Other _____

9. Any unusual load characteristics (high inertia, load changes, etc.)? _____

10. Minimum acceleration time? _____ Minimum deceleration time? _____
11. Reversing required? Yes _____ No _____
12. How will the motor be stopped? Coast _____ Ramped _____ Braking _____
 If braking, type required: DC Injection _____ DB Resistors _____ Regenerative _____ Mechanical _____
13. Drive / Starter to motor cable length: _____
14. Will the drive / starter be required to communicate to a PLC? Yes _____ No _____
 If yes: Modbus RTU _____ Modbus TCP/IP _____ EtherNet/IP _____ EtherCAT _____ CTNet _____ Profibus _____
 DeviceNet _____ CANopen _____ LONworks _____ Sercos _____ Other, specify _____

Drives only

15. Feedback Device: None _____ Encoder _____ DC Tach _____ AC Tach _____ Resolver _____ Other _____
 15a. If encoder, is it single ended or differential (circle) PPR _____
 Circle type: Standard Incremental, Sin/Cos, SSI, Endat, Hyper Face, Other _____
 15b. If tach, _____ V / 1000 RPM
 15c. If resolver, #poles _____ excitation voltage _____ ratio _____
16. Is the drive controlling? Speed _____ Torque _____ Tension _____ Position _____ Other _____
17. What is the expected regulation/accuracy of the control? Percent _____ RPM _____ Other _____
18. Will this drive coordinate with other drives and/or motors? Yes _____ No _____
 If Yes, describe (speed following, master-follower, load sharing): _____

19. What type of speed reference(s) will be used (check all that apply)?
 Local (keypad, display, HMI) _____ Potentiometer _____ 0-10Vdc _____ 4-20mA _____ Other _____
 Master Encoder _____ Pulse Train _____ Serial or Network Comms, Specify _____
 Is the signal source Isolated? Yes _____ No _____

Application Sketch / Notes