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VFD Application Checklist

The following VFD Application Checklist includes most of the questions that should be answered before selecting an AC Drive for a specific application. Please fill out as much of this checklist as you can and email it to sales@usdrivesinc.com. A US Drives Application Engineer will contact you.

Use one VFD Application Checklist for each AC Drive. Successful Drive application does not require a complete answer to each and every question contained in this Checklist. Many of the questions in this VFD Application Checklist are designed to help identify specific requirements that will not be found in many applications.

Your Company: _____ Phone: _____
 Your Name: _____ Email: _____

Application Information:

Customer Name: _____
 Project / Item Identification: _____
 Application Description: _____ (Pump, Fan, Other)
 Load Type: _____ (Constant Torque, Variable Torque, Other)
 Breakaway Torque: _____ (Pound-Feet, Newton-Meters, or Percent Full Load)
 Acceleration Time: _____ Seconds
 Deceleration Time: _____ Seconds
 Inertia: _____ (Pound Feet Squared or other Identifiable Units)
 Stopping Requirements: _____ (Coast to Rest, Ramp Stop, Dynamic or Regen Braking)
 Braking Requirements: _____ (Pound-Feet, Newton Meters, or Percent Full Load)
 Braking Time / Duty Cycle: _____ (Continuous Seconds On, Percent Duty Cycle)
 Additional Comments: _____

Environment:

City / State / Country: _____
 Elevation: _____ (Feet or Meters Above Sea Level)
 Indoors or Outdoors: _____ (Control Location / Motor Location – In Sun or Shaded)
 Maximum Temperature: _____ (Control Location / Motor Location – Degrees C or F)
 Minimum Temperature: _____ (Control Location / Motor Location – Degrees C or F)
 Additional Comments: _____

AC Power System Information:

Supply Source: _____ (Utility, Generator, Both, Other)
 Transformer KVA: _____ KVA
 Configuration: _____ (Wye, Delta, Grounded Neutral, Ungrounded System)
 Voltage: _____ VAC (208, 240, 380, 400, 415, 480, 600, Other)
 Frequency: _____ Hz (60, 50, Other)
 Fault Current: _____ Amperes
 Additional Comments: _____



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AC Motor Information:

New or Existing: _____ (New, Existing)
Supplied By: _____ (Others, Drive Manufacturer)
Horsepower: _____ HP
Voltage: _____ Volts (200, 230, 380, 400, 460, 575, Other)
Full Load Amperes: _____ Amperes
Full Load RPM _____ RPM
Frequency _____ Hz (50, 60, Other)
Inverter Grade Insulation: _____ (Yes, No)
Minimum Speed: _____ RPM
Maximum Speed: _____ RPM
Load Characteristics: _____ (Constant Torque, Variable Torque, Other)
Low Speed Operation: _____ RPM (Lowest Continuous Operating Speed)
Enclosure Type: _____ (ODP, TEFC, TENV, TEBC, Other)
Nema Type: _____ (A, B, C, D, Other)
Blower Cooled: _____ (Yes, No, Blower Motor Volts, 1/3 Phase, FL Amps)
Encoder: _____ (Yes, No, PPR, Volts)
Distance From VFD: _____ Feet or Meters
Other Accessories: _____ (Thermostat, Stator RTD's, Bearing RTD's, Space Heater, Brakes, Other)

Input AC Line Harmonic Requirements:

Must Meet IEEE-519-1992: _____ (Yes, No)
System Type: _____ (Special, General, Dedicated)
Point of Common Coupling: _____ (Distribution Transformer Primary, Secondary, Other)
Distribution Transformer
KVA: _____ KVA
Impedance: _____ Percent
Short Circuit Current: _____ Amperes
Additional Linear Load: _____ (Horsepower or Kilowatts)
Additional Non-Linear Load: _____ (Horsepower or Kilowatts and Type)
Phase Shift Transformer: _____ (Required For 12 or 18 Pulse Rectifiers – Furnished By)
_____ (Located Inside Drive Enclosure or Externally Mounted)

Services:

On Site Start-Up Service: _____ (Location, Number of Days, Approximate Dates)
On Site Training: _____ (Location, Number of Days, Approximate Dates)
Other Services:

Other Requirements: