VFD Pre-Sale Check Sheet

Note: Items marked with * are mandatory fields.

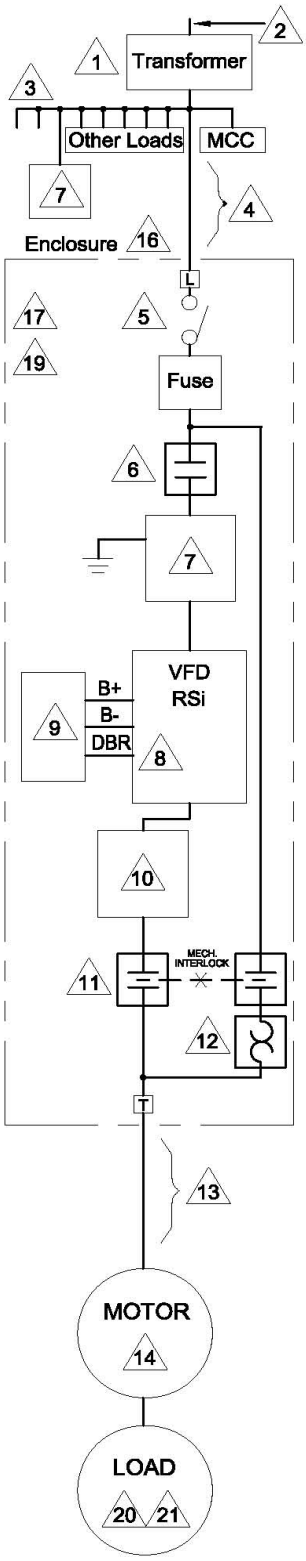
BENSHAW
Applied Motor Controls

Commercial Information

*Company Name _____ Address _____

*Contact Person _____

*Email _____ *Phone Number _____



Supply - Incoming 1

Primary (Input) Volts _____ VAC

Short Circuit Capability _____ Isc (Amps)

WYE-Delta Connection: Y ☐ N ☐

Grounded ☐ Ungrounded ☐

PCC (Point of Common Coupling) 2

*Harmonic Restrictions at PCC: Y ☐ N ☐

IEEE519-1992 ☐ Not Applicable ☐

Other Connected Loads 3

*Are PFCCs present?

Yes ☐ No ☐

Please provide additional details in comment section.

Feeder Cable 4

Cable Length _____ (from transformer)

Non-Shielded ☐ Shielded ☐

***Main Disconnect** 5

Breaker ☐ Fusible Disc ☐ Line Fuses ☐

KAIC Rating _____

Note: Standard is 65KAIC.

Input Isolation Contactor 6

Yes ☐ No ☐

IEC Rated ☐ NEMA Rated ☐

***Harmonic Suppression** 7

Input Line Reactor 3 ☐ or 5 ☐ % Imp.

Transformer ☐

Passive Filter ☐

18 Pulse ☐

RFI/EMI Filter ☐

***VFD Ratings** 8

Constant Torque ☐ Variable Torque ☐

CT: 150% for 60 sec, VT: 110% for 60 sec.

Note: Provide motor ratings in section 14.

Dynamic Braking 9

Load Type: Decel Only ☐ Overhauling ☐

Duty Cycle 5% ☐ 10% ☐ 25% ☐ 50% ☐ 100% ☐

Output Filter 10

Reactor ☐ Long Lead ☐ Sine Wave ☐

150 ft. ~ 300ft. **300 ft. ~ 1500 ft.** **> 1500 ft.**

Bypass 11

3 Contactor ☐ Soft Start ☐

For Contactor Ratings: Rated HP ☐ NEMA ☐

Overload 12

For ATL By-pass only: Class 1-40 _____

Cable Length 13 See 10

Length ____ Ft ____ M ____

Cable Specification:

Non-Shielded ☐

Shielded ☐

Motor Name Plate Data 14

Manufacturer _____

*HP _____ *Volts _____

RPM _____ FLA _____ S.F. _____

KVA/Code_____

Design_____ Frame_____

RTD and type Note: Select only if required.

100 Pt ☐ 10 Cu ☐ 100 Ni ☐ 120 Ni ☐

Options 15

Start P/B	☐	Local/Remote Sw.	☐
Stop P/B	☐	Potentiometer	☐
Emergency Stop P/B	☐	Pilot Lights:	☐
		- Run/Stop	☐
HOA Switch	☐	- Forward/Reverse	☐
Forward P/B	☐	- Jog	☐
Reverse P/B	☐	- Power	☐
Jog Forward P/B	☐	- Fault	☐
Jog Reverse P/B	☐		
Fault Reset P/B	☐		

Other_____

Enclosure 16

*UL Type _____ (1, 3R, 4, 4X, 12)

*Ambient temperature range _____°C to _____°C

*Altitude 0 to 3300 ft. (1,000m) ☐ Other _____

Cable Entry/Exit Locations _____

Enclosure Size Restrictions

H _____ W _____ D _____

Control 17

Keypad	☐	Multi-Motor	☐
Terminal	☐	Master ☐ Follower ☐	
# Analog Inputs	___	Other	☐
# Analog Outputs	___	Please specify: _____	
# Digital Inputs	___	_____	
# Relay Outputs	___	_____	

Note: Provide any additional details in Notes field on Pg. 2

Communications 18

DeviceNet	☐	ModBus RTU	☐
Ethernet IP	☐	ModBus TCP	☐
Profibus	☐	Other _____	☐

Meters 19

Motor Amps _____ Motor Volts _____

Frequency _____ RPM _____

Other (Please Specify)

Application Details 20

Regenerative ☐

Speed Range _____ to _____ RPM

Torque vs. Speed Curve ☐

Holding Brake required? Y☐ N☐

VFD Pre-Sale Check Sheet

BENSHAW
Applied Motor Controls

***Load Details** 21

Note: Each load type lists application type - Variable or Constant Torque.

VT = Variable Torque, 110% overload for 60 sec. CT = Constant Torque, 150% overload for 60 sec.

Fan			Pump		
Fin Fan Cooler	VT	☐	Centrifugal Pump	VT	☐
Cooling Tower Fan	VT	☐	Centrifugal Compressor	VT	☐
Conveyor			Electrical Submersible Pump (ESP)	VT	☐
Screw Conveyor	CT	☐	PD Pump	VT	☐
Belt Conveyor	CT	☐	Slurry Pump	VT	☐
Flat Conveyor	CT	☐	Oil Pump		
Bucket Conveyor	CT	☐	Pumpjack (PG)	CT	☐
Air Conveyor	CT	☐	Progressive Cavity Screw Pump (PCP)	CT	☐
			Extruder		
			Single Extruder	CT	☐
			Dual Extruder	CT	☐
			Piston Extruder	CT	☐
			Other		
			Centrifuge	CT	☐
			Canter Line	CT	☐
			Single-phase input	VT/CT	☐
			Other Not Listed Above - Please Specify: _____		

Additional Comments:

_____

_____

_____

_____

_____

_____

_____