



MVH2 Medium Voltage VFD Sales Checklist

Note: Items marked with * are mandatory fields.

See Pg. 4 for standard features included with all VFDs.

*Requestor Name: _____ *Date Submitted: _____

*Requestor Phone: _____ *Requestor Email: _____

*Project Name and/or End-User: _____

*Contact Name: _____ *Phone Number: _____

*Email: _____

*Project Type: Budgetary Funded Est. Installation Timeframe: _____

*Specifications: Yes No Competitors: _____

SECTION A – Application:

*Type of application (load) _____

*Input Power Supply

Voltage: _____ VAC _____ Hz
(does not need to match motor nameplate voltage or frequency)

*Operating Conditions

Continuous duty (motor will run continuously at any chosen speed)
(standard)

Synchronous transfer to line (continuous duty)¹

Number of Motors: _____

Protection for line connected motors:

Benshaw MX3 Other: _____

Synchronous transfer to line (starting duty only)²

Number of Motors: _____

Total Starts/hr. _____ Maximum accel. time: _____

Total Stops/hr. _____ Maximum decel. time: _____

Protection for line connected motors:

Benshaw MX3 Other: _____

¹Continuous duty sync transfer allows for a motor to be continuously through the VFD, usually to “trim” a process output after other motors have been started.

²May allow for reduced drive/transformer requirements and therefore cost/space savings.



SECTION B - Motor Data:

*Type of motor: Induction Synchronous

(If Synchronous or Wound Rotor, see Section "E" or "F" for additional questions.)

*Horsepower: _____(HP) *Motor voltage: _____(VAC) *Motor Frequency: _____(Hz)

*FLA: _____ Service Factor: _____ Motor LRA: _____ Motor Speed: _____(RPM)

NEMA Design Type: _____ (If known) or A B C D E

Motor Data Sheets Available: Yes No
(If yes, provide at time of request)

SECTION C - Enclosure / Environment Data:

*Expected ambient temperature: Minimum: _____ Maximum: _____
(Space Heater required if less than 0 °C)

Space heater: Yes No (standard) Physical Location: Indoor (standard) Outdoor

Size limitations (if any): _____"H x _____"W x _____"D

*Altitude: Up to 3,300ft. (standard) Above 3,300ft. _____ (please specify)

Unusual Ambient Conditions (if any): _____ (describe)

Color: ANSI 61 Grey (standard) Other: _____ (please specify)

Cable Entry location: Top Bottom (standard) Cable Exit location: Top Bottom (standard)

*NEMA Enclosure Type: 1 (standard) Other: _____ (please specify)

SECTION D - Miscellaneous:

*Disconnect: Fusible Disconnect w/ Isolation Contactor None
(standard)

Communication: Modbus RTU Modbus TCP Ethernet IP
(standard)
 Profinet Profibus

Emergency Drive Bypass: None ATL/FVNR RVSS
(standard)

Pilot Devices: Reset PB E-Stop PB HOA Selector Switch LOR Selector Switch
(standard) (standard)

Pushbutton (specify): _____

Indicator Light (specify): _____

RTD Inputs (100Ω Pt): None 4 Channel 8 Channel
(standard)

Cell Bypass³: None Cell Bypass Redundant Cell Bypass
(standard)

³Power cell bypass allows for continued operation with 1 or 2 failed cells. Failed cells are bypassed automatically without interruption of equipment process.

***SECTION E – Synchronous Motor Data: (Required only for synchronous motors)**

Normal Field Current: _____(ADC) Max Field Current: _____(ADC)

Field Discharge Resistor Rating: _____(Ω) Synchronous Motor Field Voltage: _____(VDC)

Specify any additional details of current system and requirements in Section F.

SECTION F – Additional Modifications, Accessories and/or Information:

SECTION G – Standard Features (included w/ all VFDs):

- Overload Capacity: 150% instantaneous, 120% for 120 seconds, every 15 minutes
- Efficiency: ≥ 96%
- Control Inputs:
 - Analog: 2x Programmable isolated input: 4-20mA/2-10V, 1x Excitation feedback 4-20mA/2-10V
 - Digital: 14 Isolated inputs: 24Vdc
- Control Outputs:
 - Analog: 2x Fixed outputs: 4-20mA/2-10V, 2 Programmable outputs: 4-20mA/2-10V
 - Relay: 22 Isolated outputs with dry contacts
- Communication
 - Standard Modbus RTU
- Disconnect
 - 400A Load Break rated
 - 5KV Class E fuses
 - 400A fixed mount vacuum contactor
- Door mounted HMI
- Conformities Standards
 - IEEE 519-2014
 - IEC 61800-3
 - UL/cUL (up to 154A)

Document Revision Control History Log ...

Date	Remarks	Revised by
8/29/2022	Initial release	AMI