

## MV1000 SPECIFICATION GUIDE Appendix A - TECHNICAL DATA SHEET

Your name : \_\_\_\_\_ Date : \_\_\_\_\_  
 Customer's name : \_\_\_\_\_ YAI Quote due date : \_\_\_\_\_  
 Project name : \_\_\_\_\_ Project location : \_\_\_\_\_  
 Type of customer : OEM:  Distributor:  End User:   
 Anticipated purchase date : \_\_\_\_\_ Anticipated installation / commissioning date : \_\_\_\_\_  
 User's country : \_\_\_\_\_ Competitor(s) : \_\_\_\_\_  
 Your ref. No. : \_\_\_\_\_ Attached documents : \_\_\_\_\_  
 Existing Yaskawa Customer: Yes:  No:  Quantity of identical drives : \_\_\_\_\_  
 Project Status: Budgetary:  Funded:

Item	Specifications
1. Name of facility or application	_____
2. Type of application	<input type="checkbox"/> Pump <input type="checkbox"/> Fan <input type="checkbox"/> Blower <input type="checkbox"/> Compressor <input type="checkbox"/> Extruder <input type="checkbox"/> Other _____
3. Load characteristics	<input type="checkbox"/> Variable torque <input type="checkbox"/> Proportional torque <input type="checkbox"/> Constant torque <input type="checkbox"/> Constant HP Inertia _____ kg·m <sup>2</sup>
4. Operating conditions	Annual Operating time _____ Hours Actual motor current (If existing motor) _____ A
5. Motor characteristics	TYPE: <input type="checkbox"/> Squirrel-cage induction <input type="checkbox"/> Wound-rotor <input type="checkbox"/> Other (describe) _____ REUSE/NEW: <input type="checkbox"/> Retrofit existing motor: Mfr. and Model #: _____ <input type="checkbox"/> New motor <input type="checkbox"/> Motor quote required
6. Motor specifications	Output _____ kW _____ HP Voltage _____ Vac Frequency _____ Hz Poles _____ P Speed _____ RPM Rated current _____ A Efficiency _____ % Power factor _____
7. Speed control range	Min _____ RPM Max _____ RPM or Min _____ Hz Max _____ Hz
8. Speed reference	<input type="checkbox"/> 4 to 20 mA <input type="checkbox"/> Manual Speed Potentiometer <input type="checkbox"/> UP/DOWN contacts (Digital MOP) <input type="checkbox"/> Multi-step digital presets
9. Accel / Decel Ramps	<input type="checkbox"/> Internal Accel time _____ Sec./ _____ RPM Decel time _____ Sec./ _____ RPM <input type="checkbox"/> External (customer control of ramps)
10. Overload capacity	<input type="checkbox"/> Not needed (100% rated output current continuous) <input type="checkbox"/> Needed when motoring _____ % rated output current for _____ sec. _____ min.
11. Commercial power supply bypass	<input type="checkbox"/> Not needed <input type="checkbox"/> Needed and supplied by customer < Inverter operation to Commercial power supply operation: <input type="checkbox"/> Automatic <input type="checkbox"/> Manual < Commercial power supply operation to Inverter operation: <input type="checkbox"/> Automatic <input type="checkbox"/> Manual
12. Input power supply specifications	Input power source: <input type="checkbox"/> Grid <input type="checkbox"/> Private Power Supply <input type="checkbox"/> Variable Transformer Power supply short-circuit capacity _____ MVA Input voltage _____ Vac _____ Hz Control circuit voltage (customer supplied) <input type="checkbox"/> 200/220V, 60Hz, 3-Phase
13. Ambient conditions	<input type="checkbox"/> Outdoor (Enclosure supplied by others) <input type="checkbox"/> Indoor <input type="checkbox"/> Other (Provide details in the "Other required specifications" section on page 2) Air-conditioning facilities <input type="checkbox"/> Provided <input type="checkbox"/> Not provided Ambient temperature Min _____ °C to Max _____ °C Humidity _____ % or less, non-condensing Altitude _____ m or less Cabinet enclosure _____ Atmosphere _____

Item	Specifications	
14. Options	Standard specification	Optional specification
1) Input Switchgear	<input type="checkbox"/> None	<input type="checkbox"/> Switch, fuses, contactor
2) Cabinet paint	<input type="checkbox"/> Standard color (Munsell 5Y7/1 semi-gloss for inner and outer surfaces)	<input type="checkbox"/> Non-Standard color
3) Incoming Wiring location	<input type="checkbox"/> Bottom	<input type="checkbox"/> Top (Additional cable entry enclosure is required)
4) Control Method	<input type="checkbox"/> Vector control without PG	<input type="checkbox"/> Vector control with PG
	<input type="checkbox"/> Volts / Hz	
5) Analog Output	<input type="checkbox"/> 2 outputs (Default settings in parentheses) (Output current) (Output frequency)	<input type="checkbox"/> _____ Outputs (Max: 4 outputs)
6) Digital Output	<input type="checkbox"/> 8 Outputs (Default setting in parentheses) (Ready, Running, Major fault, Minor fault)	<input type="checkbox"/> _____ Outputs (Max: 16 outputs)
	<input type="checkbox"/> Door interlock. Additional relay for customer use. Use to disconnect input power if door is opened.	
7) Digital Input	<input type="checkbox"/> 8 inputs (Default setting in parentheses) (Start/Stop, Primary power on, External I/L, Fault reset)	<input type="checkbox"/> _____ Inputs (Max: 16 inputs)
8) Analog Input	<input type="checkbox"/> 1 Input (Default setting in parentheses) (Frequency reference)	<input type="checkbox"/> _____ Inputs (Max: 2 inputs)
9) Auto Restart function after momentary power loss	<input type="checkbox"/> Without	<input type="checkbox"/> With
		<input type="checkbox"/> With Customer supplied UPS
		<input type="checkbox"/> With Yaskawa supplied UPS
10) Motor temperature monitor	<input type="checkbox"/> Without	<input type="checkbox"/> Motor stator winding temperature
10.A) Type of device		<input type="checkbox"/> Motor stator winding and bearing temperature
		<input type="checkbox"/> Contact (Thermostat) <input type="checkbox"/> RTD (Pt100 ohm)
11) Analog meter on cabinet	<input type="checkbox"/> Without	<input type="checkbox"/> With
		<input type="checkbox"/> Frequency meter <input type="checkbox"/> Ammeter <input type="checkbox"/> Voltmeter
12) Communication option card	<input type="checkbox"/> Without	<input type="checkbox"/> With
		<input type="checkbox"/> SI-N3 (DeviceNet) <input type="checkbox"/> SI-S3 (Profibus-DP)
		<input type="checkbox"/> SI-EN3 (Ethernet) <input type="checkbox"/> SI-EM3 (Modbus TCP/IP)
13) Lifter for power cell maintenance	<input type="checkbox"/> Without	<input type="checkbox"/> With
14) "DriveWizard Plus MV" Software package	<input type="checkbox"/> Without	<input type="checkbox"/> With
15) Recommended spare parts	<input type="checkbox"/> Without	<input type="checkbox"/> With
16) Witness test	<input type="checkbox"/> Without	<input type="checkbox"/> With (Yaskawa standard test)
17) Start-up and commissioning	<input type="checkbox"/> Without	<input type="checkbox"/> With
<b>Other required specifications</b>		
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