



## START-UP SHEET Variable Frequency Drives

**Job Name** \_\_\_\_\_

**Job Number** \_\_\_\_\_

**Job Address** \_\_\_\_\_

### Section 5: Equipment Description

<b>Spec. #:</b>	<b>Submittal #:</b>	<b>P&amp;ID / Dwg #:</b>
<b>Area Served:</b>		

Data	Design	Actual On Site
Unit Tag #		
Manufacturer		
Model #		
Serial #		

### Section 6: Equipment Pre-Installation Inspection

Step	Inspection Description	Yes	No	N/A	Performed By (Initials & Date)
6.2	Nameplate data matches vendor specifications.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.3	All parts are received.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.4	No visible signs of damage, leak, or defective parts.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.5	Verify electrical service for correct voltage, current, and thermal overload protection.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.6	Operational and Maintenance (O&M) manual is available in the field.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.7	Start-up technicians have reviewed factory start-up procedures in the O&M manual.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

**Comments/  
Observations** \_\_\_\_\_

**Performed By  
(Therma)**

**Reviewed By  
(Owner/Representatives)**

Print Name	Signature	Date



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### Section 7: Equipment Installation Inspection

Step	Inspection Description	Yes	No	N/A	Performed By (Initials & Date)
7.2	Unit is installed level.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.3	Unit is in a well ventilated area or cabinet.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.4	Tag # is attached to the unit.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.5	Service clearance is adequate for maintenance.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.6	Separate metal conduits for routing input power, output power and control circuits are used.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.7	The 3-phase source power is within the correct voltage and frequency tolerances.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.8	Input, output and control wiring are connected.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.9	Motor leads are connected to motor terminals.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.10	A molded case circuit breaker between the power source and the inverter is installed.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.11	Short circuits or inadvertent grounds are not found.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.12	Electrical connections are secure.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.13	Heatsink is free of dust and debris.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.14	VFD has bypass.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

### Section 8: Equipment Operational Inspection

Step	Inspection Description	Yes	No	N/A	Performed By (Initials & Date)
8.2	Test the drive with motor disconnected from VFD.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.3	Output voltage is equal to the input voltage.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.4	Test the drive with motor connected to VFD.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Comments/  
Observations

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Performed By  
(Therma)

Reviewed By  
(Owner/Representatives)

Print Name	Signature	Date



## START-UP SHEET

### Variable Frequency Drives

Step	Inspection Description	Yes	No	N/A	Performed By (Initials & Date)
8.5	Motor is running in the direction indicated by the rotation direction indicator on the unit LCD display.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.6	Test bypass – Motor is running in the same direct as in Step 8.5.	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.7	Record operating start-up parameters below.				

#### Record Start Up Operating Parameters

Data	Design	Actual On Site		
Input Voltage				
Output Voltage				
Input Current				
Output Current				
Bypass Output Current				
Input HZ				
Output HZ				

End Of Section

Comments/  
Observations

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Performed By  
(Therma)

Reviewed By  
(Owner/Representatives)

Print Name	Signature	Date