

VFD Panel Commissioning

Consumer:	Date:
Project:	Panel Type:
Model Number:	VFD Serial Number:
Motor:	
Report Number:	

General Checks and Inspections of the Panel

Serial Number	Checkpoints for parameters / General Inspection	Output / Result	
1	Ensure that both side panels have an earth grid and a firm panel earthing.	OK	NOT OK
2	Verify that all Horizontal, Vertical, and Control Bus bars are securely fastened.	OK	NOT OK
3	Inspect the Main bus bars at the ACB, MCCB, FSU, and VFD terminals for tightness.	OK	NOT OK
4	Check for any open Circuits on all CT secondary circuits.	OK	NOT OK
4	Verify that all feeder components' power wires and control circuits are tight.	OK	NOT OK
5	Verify the correct voltage. CT/PT terminations (if any) at all KWH/MFM/Relays.	OK	NOT OK
6	Check the delivery of the rated control voltage according to the drawing.	OK	NOT OK
7	Check that the relays, KWH meters, and control equipment have the proper rated Aux voltage.	OK	NOT OK
8	Make sure that the control and power circuits have fuses with the appropriate ratings.	OK	NOT OK
9	Check that all feeders' inter-panel and marshalling wiring is done in accordance with the drawing.	OK	NOT OK
10	Before charging, make sure that all control fuses and future interlock links have been removed.	OK	NOT OK
11	Before the VFD Panel is charged for the first time, make sure the feeder door is closed.	OK	NOT OK
12	Check for any damage caused by transportation or erection. (List all damaged goods).	OK	NOT OK
13	Prior to charging the panel, make sure it has been well cleaned inside.	OK	NOT OK

Panel / Motor Cable IR Test (Without VFD)

IR Details	R-(Ø)Phases	Y-(Ø)Phases	B-(Ø)Phases
Phase to Phase (in m-ohm)	R-Y= >MΩ	Y-B= >MΩ	B-R= >MΩ
Phase to Earth (in m-ohm)	R-E= MΩ	Y-E= MΩ	B-E= MΩ

Motor Information

Serial Number:	Ampere: A
KW:	Voltage: Volts
RPM:	Duty:
Frequency: Hz	Efficiency (%):

Tests of Functionality after Charging

Serial Number	Checks Control and Power Circuits after Panel Charging	Output / Result	
1	To prevent IGBT failure, keep the drive firing slowly with a DC source over 8 hours.	YES	NO
2	Safely turn on the main voltage and leave the engine running while it charges for four hours	OK	NOT OK
3	Before starting the ID Run, enter Correct Motor data in 99 groups	OK	NOT OK
4	Do the drive ID run after switching the drive to local mode	YES	NO
5	Try the motor with no load, and record all the data as shown below	OK	NOT OK
6	Check the Panel, LCS, and DCS for VFD On/Off/Raise/Lower operation	OK	NOT OK
7	For the DCS system, verify all DI/DO/AI/AO (4-20 mA) Signals in accordance with the drawing	OK	NOT OK
8	Verify any standby or bypass logic that is specified in the drawing	OK	NOT OK

Motor Experiment

No Load Experiment						
Total Runtime- Min						
S. No	Current	Voltage	RPM	Frequency	KW	Remarks
1						
2						
Load Experiment						
Total Runtime- Hr						
S. No	Current	Voltage	RPM	Frequency	KW	Remarks
1						
2						
3						

Remarks (If Any):

Tested By	Test Observed by
Name:	Name:
Designation:	Designation:
Signature:	Signature: