

Motor Control Final Test Report

Model FC350BJ/110V

Typical Actual Final Test Data

Test One – Control Operation

Output voltage and current (Vdc/Adc) with a resistive load simulating light, medium and full motor load with the input voltage at 120 Vac.

Speed Control	Light Load	Medium Load	Full Load
0%	0/0	0/0	0/0
30%	23.2/0.22	23.7/0.47	24.0/0.73
50%	50.4/0.47	51.2/1.02	51.9/1.57
70%	76.2/0.72	77.1/1.55	78.1/2.39
100%	96.2/0.91	97.0/1.94	97.6/2.98

Test Two – Forced Zero Start

The speed pot is set to any position off zero and power turned on. The fault lamp should light and power should not be delivered. The speed pot is then turned to off. The fault lamp should go out. The speed pot is then turned to a speed setting and performance is normal.

Test Result – **Passed**

Test Three – Motor Stalled

The controller is set to trip at an output current of 4 amperes. The test is conducted by switching to a load that would draw 10 amperes. The result should be an almost instantaneous tripping of the overload with the fault lamp lighting and power shut down.

Test Result – **Passed**

Test Four - Endurance

The controller is operated at full power for 30 minutes and then retested.

Test Results - **Passed**

Tested by: John Gerling _____