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LTPF-120VAC INTERFACE CARD

for the ALLEN-BRADLEY PowerFlex70 Adjustable Frequency AC Drive

INTRODUCTION

This document describes the installation of a Leaf Technology LTPF 120VAC interface card on a A-B PowerFlex 70 adjustable frequency AC drive.

INSTALLATION

1. Before proceeding, verify that all voltage (power and control) has been removed from the drive for five minutes.

2. Remove the front drive cover to access the drive control and power terminal blocks.

3. All wiring to the power terminal strip (labeled L1-L3, +DC, BRK, T1-T3, and PE) should be completed prior to module installation (access to the drive power terminals is restricted after the module is installed).

4. Connect all control logic signal wires to the interface module terminals as required for application (see interface module interconnection diagram for terminal function definitions).

5. Fully unscrew all drive control terminal block screws (TB1, terminals 1-9).

6. Carefully align and insert the interface module circuit board pins into drive control terminals 1-9.

7. With all interface module pins fully inserted into the control terminal strip, tighten all terminal screws to 4.4-5.3 in-lbs (0.5-0.6Nm).

8. Re-install and secure the front drive cover.

9. After verifying that no control voltage is present at the interface module terminals, apply line power to drive terminals L1, L2, and L3.

10. Program the drive per instructions in the PowerFlex 70 drive user manual (Publication 20A-UM001A).

11. Apply control voltage signals to the interface module as required by the application.

Note: If the control logic signals originate from a triac or noise suppressed source, any off state leakage current must be reduced to below 3ma.. A 4.7k ohm, 5 or 10 Watt resistor installed between the input signal and L2 will usually reduce the leakage current to the appropriate level. This resistor must be mounted external the drive.

CAUTION: This card contains electrostatic sensitive devices. The installer should be grounded before handling the card.