



**Headquarters**  
Fort Myers, FL

**Engineering Centers**  
Calgary, Alberta  
Charlotte, NC  
Los Angeles, CA  
Portland, OR  
Salt Lake City, UT  
York, PA

## **EZ-Start Manual Addendum MDZ 11/04**

The purpose of this document is to clarify some points missing, or unclear in the standard EZ-Start Manual (P/N 027-3002 Rev 3).

### **Shearpin Trip**

This feature was added to the EZ-start after the last manual revision. It allows the user to program a Current trip level between 50% and 600% of the motor FLA, and a response delay between 0mS (milli seconds) and 2500mS (2.5 seconds), in 100mS steps. This feature is activated once the motor reaches full speed and is useful for preventing equipment damage in applications that may suddenly lock-up during operation.

-set "ShPinLvl" between 50% and 600% Motor FLA

(Setting the level to 605% disables this feature altogether)

-set "ShPinDly" for the desired sensitivity, longer delay will prevent nuisance tripping but minimize protection benefits by allowing the current to stay elevated longer.

### **Monitor Features**

With the starter in "Run" or "Stand-by" mode (Not in Programming mode) pressing the "MON" key will scroll through the Monitor functions in the following order:

- "CURRENT" this will display an average value of the current in all three lines.

(For readout to be accurate, the value programmed into the keypad under "FLA Val" Must be equal to the FLA set into the starter using the rotary switch in section 4.2 of The manual)

- "ANGLE" this displays the firing angle of the SCR's (100% means the SCR's are fully turned on, and the motor should be seeing full line voltage)

- "RUN TIME" this displays the amount of time the starter has been running the motor

- "M1" Through "M10" These will be progressively displayed, and represent the last 10 faults or trips as explained in table 10.0 on page 22 of the manual. "M1" represents the most recent, and as new faults are added "M10" will be deleted.

### **Local Key lock**

This feature allows the user to lock the setting of the "LOCAL" key. The local key normally functions to select operation from the keypad (Local) or T-Strip (Remote).

When it is desirable to lock the key in either setting, it can be locked by setting the "LocalKey" parameter to "Locked". The setting will remain where it was before locking regardless of pushing the "LOCAL" key.