

# *Milpower Source*

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**M140BA-1-3-5-X-X**

## **Special Option Description**

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## **1. Scope**

This document supplements the “M140BA-1 Users Manual” (Milpower Source Doc: M140BA1UM) by describing the features that are unique to the M140BA-1-3 Special Option Dry-relay indication.

### **1.1. Part Number and Marking**

The applicable Part Number: **M140BA-1-3-5-X-X** appears on a label attached to the top left corner of the unit’s front panel. The second dash number (3) denotes this Special Option. For the significant of the last three digits (-5-X-X) see DWG M361001.

### **1.2. General Description**

The M140BA-1-3-5 is identical to the standard M140BA-1-0-5, except that Pin 9 in the Dry-contact connector J3 (and Pin 9 of J4 that is internally connected to it) has a different functionality than that described by Paragraph 8.1.1 of the M140BA User’s Manual (MPS Doc: M140BA1UM).

## **2. Detailed Description**

Pins 1 and 9 of J4 are connected to the two terminals of a contact of a small signal relay. The contact is normally open. It will close and short Pins 1 and 9 to each other when any of the following conditions occurs:

- 1) Over Temperature Condition
- 2) Battery failure
- 3) Charger Failure
- 4) Internal UPS Controller Failure
- 5) Loss of output power for any reason (including overload), except for user’s initiated output shutdown.
- 6) Loss of Input AC Power

Condition 6 is similar to the “Loss or AC Input, Battery Operation” that affects Pins 1 and 9 in the standard M140BA-1-0-5. Conditions 1 through 5 are an addition, unique to the M140BA-1-3-5 configuration.

Please note that Pin 1 of J4 is connected to Pin 5 of J3 (the Dry-relays Common Ground). This Pin is isolated from Chassis ground and from any other signal (except for some of the other Pins on J3, so if J3 is unused, Pin 1 and 9 of J4 will be isolated from any other signal or ground.