

## TOSHIBA INTERNATIONAL CORPORATION

### 1600EP Single Phase Uninterruptible Power Supply Systems Option Guide Specifications Maintenance Bypass Switch Part #: ECB-MBP2

#### 1.0 Scope

This item is a maintenance bypass to be used with Toshiba UPS. The bypass is wall-mount style to be used for UPS applications involving 240VAC input and 240VAC output.

#### 2.0 General

The components of the panel are produced by Square D. The panel consists of three pieces. One piece is the enclosure itself. The other two pieces are both 100 Amp, double-pole breakers.

Square D manufactures the enclosure. The enclosure is a Class 1130 Load Center with dimensions of 8.88"W, 12.57"H, and 3.80"D.

There are two identical breakers inside the panel. Square D provides the breakers, as well. The breaker used has Square D part number QO6-12L100DF/S. The breakers are labeled MIS and M/B.

Under normal operation, the MIS breaker is closed, and M/B breaker is open. The main input breaker of the UPS is closed, and RUN/STOP switch is in the RUN position.

#### 3.0 General Instruction

##### 3.1 Moving to Maintenance Bypass:

To utilize the maintenance bypass, follow these steps:

1. Place the Toshiba UPS into static bypass mode by flipping the RUN/STOP switch to the STOP position.
2. Close the M/B breaker.
3. Open the MIS breaker of the bypass switch.
4. Open the main input breaker of the UPS.

##### 3.2 Instructions for Moving from Maintenance Bypass Mode to UPS On-Line Operation Mode:

1. Verify the UPS RUN/STOP switch is in the STOP position.
2. Close the main input breaker of the UPS.
3. Close the MIS breaker of the bypass switch. This will cause utility power to feed through both the UPS and the main input panel.
4. Open the M/B breaker. Now utility is feeding your load through the UPS.
5. Place the Toshiba UPS into On-Line Operation by flipping the RUN/STOP switch to the RUN position.

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## 2-Breaker Maintenance Bypass Connection Diagram 240VAC Applications Only

