

FP Dimmer

Dimmer racks

TNJLT100.doc



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FP12 Circuit Breaker Trip at Turn-On

It has been observed that in some instances when powering on an FP dimmer with large near-capacity loads, some circuit breakers may trip. This Tech Note describes a modification to solve this problem.

PRODUCTS AFFECTED:

- FP12 Rack Mount
- FP12 Wall Mount

TOOLS REQUIRED:

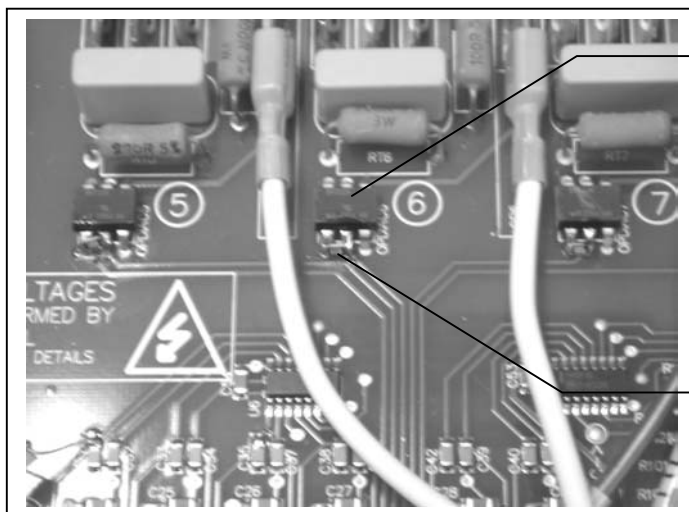
- Screwdriver, Phillips, #2
- Soldering iron
- Sidecutters, small

PARTS REQUIRED:

- ZRA2100 1K resistor 1/4W 5% (12 off)

PROCEDURE:

1. Turn the dimmer off and disconnect the dimmer from the power socket.
2. Remove the dimmer covers. For Wall Mount products, remove the right hand cover; for Rack Mount products remove the lid.
3. Bend the leads of the 1K resistors to suit the pin spacing of the opto-isolators and trim the excess length. Surface mount resistors may be used as a neater alternative, but they will require more care and patience to solder.
4. Solder a resistor between pins 1 & 2 of each 6-pin BRT12 opto-isolator (OPDIAC1 - OPDIAC12).
5. Replace covers and check each channel for correct operation.



BRT12 Opto-Isolator

1K surface mount resistor
soldered between pins 1 &
2 of BRT12