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Subject: Voltage Present in Empty Indicating Fuse block

The indicator is a neon bulb that lights when the fuse opens. When there is no power to the panel, you will not see the indicating light. This product is tested and approved to UL 4248-1 which has an allowance for leakage current. The UL leakage current requirements for indicating fuseholders are as follows:

7.8 Open fuse indicator

7.8.1 When means are provided to indicate open fuses by electrical circuits connected in parallel with the fuseholder, the current that flows when the fuse is not in place shall not exceed 5 mA at rated voltage when tested in accordance with Clause 8.6.

8.6 Open fuse indicating current test

8.6.1 When required by Clause 7.8.1, the leakage current of the fuseholder assembly shall not exceed

5.0 mA as determined by test with an open fuse inserted and the fuseholder connected to a circuit at rated voltage.

The presence of the voltage is common in circuits with indication lights. If the indication light is illuminated, there is voltage present at the line and load side connections and a small amount of current (<2mA) is flowing through the indicator.

One other note is that per NFPA70B Recommended Practice Electrical Equipment Maintenance, section 7.1 states Equipment should be de-energized for inspections, tests, repairs, and other servicing. Such maintenance tasks can be performed when the equipment is energized provided provisions are made to allow maintenance to be performed safely.

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