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Remote A/C Switch

Team Blue(1)

Fuse Block Artifacts

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| Interface | Properties |
| outside\_to\_sytem\_acpwr | * Vnominal: 120VAC via a NEMA 5-15R connector * Ipeak: 15A * Inominal: 500mA |
| fused\_acpwr | * Vnominal: 120VAC via a NEMA 5-15R connector * Ipeak: 4.5A * Inominal: 500mA * Disconnects system from input when 5A draw is exceeded |

**Testing**

It is assumed that peak current, nominal voltage and current are within requirements as they are supplied by wall outlet.

**Steps**

**A. Disconnects system from input when 3A draw is exceeded**

The block should disconnect from the system when the 4.5A limit is reached in order to protect the system from overcurrent. This will test if the fuse is functioning property.

1. Connect the Fuse to a power supply via the **outside\_to\_sytem\_acpwr** interface at 5V.

2. Connect the Fuse to the DC load at the **fused\_acpwr** interface.

3. Starting with a 100 mA load, slowly increase the load until the 4.5A limit is exceeded.

PASS: Disconnects system from input when 4.5A draw is exceeded.

If the block passes all of the listed tests, all interface properties have been verified and the block is ready for inclusion into the system.