



BRI-GFI

SNOW MELTING / ROOF DE-ICING / PIPE TRACE

Ground Fault Circuit Interrupter Panel

DESCRIPTION

The BRI-GFI ground fault circuit interrupter is rated at 75, 100 or 200 Amps. and can be used on single or three phase loads as required. The BRI-GFI panel consists of a three phase contactor, a current transformer (CT), and a GFI controller.

The contactor is controlled by current transformer (CT), GFI controller, and snow melt control system. Upon a call for snow melting from the snow sensor the contactor will engage and power the cables. The current transformer (CT) constantly monitors for ground faults and will trip if a ground fault over 30 mA is detected.

In buildings where a building automation system (BAS) is in use, you can interface the GFI alarm to the BAS. The alarm contacts at terminals 21 and 24 are normally closed and will open on a GFI trip. They will be normally closed whenever the GFI is powered.



CSA SPE-1000
Code Compliant

FEATURES

Voltage

- 120-600V.

Contactor rating

- 208-600V 3P.
- Single or three phase loads.

Load (Amps)

- 75A /100A /200A max. resistive.

Residual current

- 10 mA - 10A.

Dimensions (H-W-D)

- 75/100A: 16 x 12 x 6 in.
- 200A: 18 x 16 x 10 in.

Weight

- 75/100A: 14 lbs.
- 200A: 20 lbs.

Warranty

- 2-year limited warranty.

Construction

- NEMA 4X enclosure.
- Watertight and corrosion-resistant.

Automation

- Relays for remote status.
- Interface to Building Automation System (BAS).

Trip level

- Range from 10 mA - 10A tripping level.

Pre-tested

- Set for 30 mA trip at 1 second.
- Factory built and tested in Canada.

Installation

- Full access to electronics.

Programming

- Panel can service multiple applications.
- Adjustable response delay.
- Selectable manual/automatic reset when the alarm clears.

CONNECTIONS

To wire for a single phase load, supply cables are run through the hole in the CT to the contactor and out to the load. To wire for three phase loads the supply cables run through the hole in the CT, to the contactor and then from the contactor to a junction box. It is not advised to have a splice on the neutral in the panel enclosure.

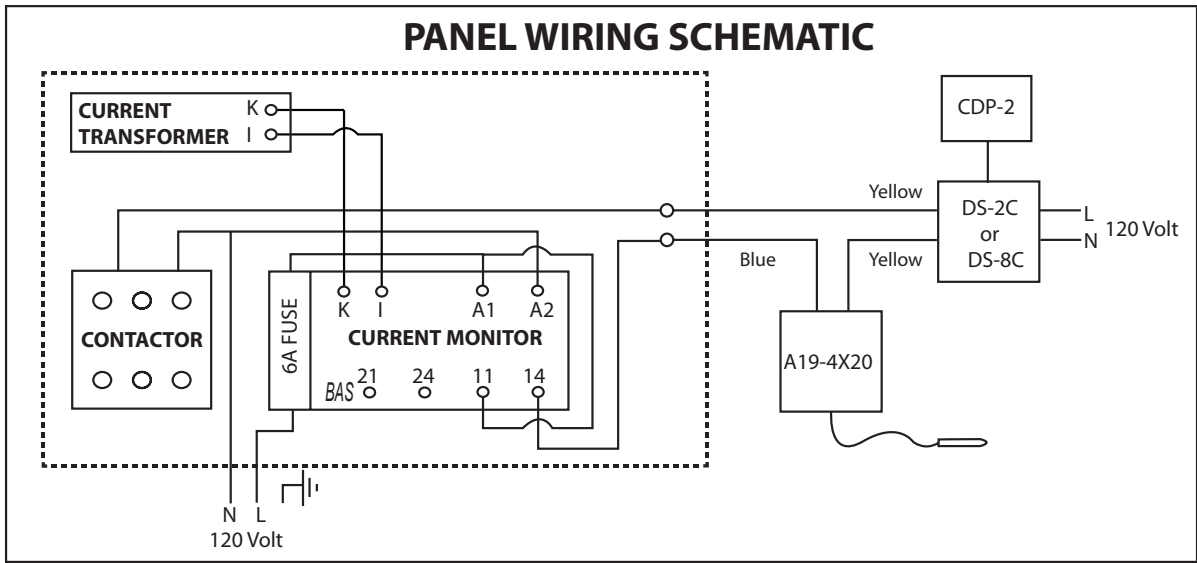
A two pole terminal strip in the upper right hand corner of the panel is provided to interface with the snow sensor or sensing thermostat.

The panel is shipped pre-tested and set for a 30 mA trip at 1 second. It will be necessary to reset the GFI by pressing the test reset button before current will flow to the contactor. Should the GFI trip, inspect and test all wiring for ground faults or incorrect connections and reset. The GFI will not reset automatically.

MODELS

| PRODUCT # | DESCRIPTION | VOLTS | AMP. |
|-------------|--|---------|------|
| BRI-GFI-75 | Ground fault circuit interrupter with 75A contactor | 120-600 | 75 |
| BRI-GFI-100 | Ground fault circuit interrupter with 100A contactor | 120-600 | 100 |
| BRI-GFI-200 | Ground fault circuit interrupter with 200A contactor | 120-600 | 200 |

Ground Fault Interrupter BRI-GFI 75/100/200 Single or Three Phase Loads



CURRENT TRANSFORMER & CONTACTOR WIRING DIAGRAM

