

## BRI-GFI-75/100/200 GFI PANEL

The Britech Ground Fault Interrupter (GFI) panel is rated at 75, 100 or 200 Amp and can be used on single or three phase loads as required. The GFI panel consists of a three phase contactor, a current transformer (CT), and a GFI controller.

The contactor is controlled by the current transformer (CT), GFI controller, and snow melt control system.



### Specifications:

#### Supply Voltage

- 120 V

#### Contactor Rating

- 208-600 V 3P

#### Load

- 75 A / 100 A / 200 A max resistive

#### Residual Current

- 10 mA - 10 A

#### Enclosure Rating

- NEMA 4X

#### Dimensions (H-W-D)

- 16"x12"x 6" (75,100A), 18"x16"x 10" (200A)

#### Weight

- 14 lbs (75, 100A), 20 lbs (200A)

### Features:

- Available in 75, 100, 200 A
- Single or Three Phase Loads  
208V-600V
- NEMA 4X Enclosure  
High Power, Low Price
- Relays for Remote Status  
Interface to Building Automation System (BAS)
- Range from 10 mA - 10 A Tripping Level
- In Stock for Quick Shipment from Britech Warehouse
- Easy Installation, Full Access to Electronics  
Access all electronics
- Manual Reset Activated at Factory Setting  
Selectable manual/automatic reset when the alarm clears.
- Adjustable Response Delay

### Additional Information

#### SEQUENCE OF OPERATIONS

Upon a call for snow melting from the DS-2B snow sensor and the BRI-A19-4X20 slab sensing thermostat 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. If the controller is connected to a building automation system (BAS) an alarm will be sent to the BAS. **Should there be a GFI trip, check all wiring before resetting.**

#### CONNECTIONS

To wire for a single phase load, run the supply cables through the hole in the CT to the contactor and out to the load.

To wire for three phase loads run the supply cables through the hole in the CT, to the contactor and then from the contactor to a junction box. The neutral

must NOT be wired through the CT except at 347V. It may also be advisable to run the neutral through the GFI panel in one run to a junction box where connections can be made to the load. It is not advisable 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 the DS-2B snow sensor and BRI-A19-4X20 slab sensing thermostat to the panel. The yellow leads from the snow sensor are connected in series through the BRI-A19-4X20 thermostat to control the contactor. This must be connected for the panel to operate. If the panel is used for service other than snow sensing and a control sequence is not required install a 16 gauge jumper across the terminals.

This is a live 120 volt connection and meant to be used as a dry contact. **Do not connect voltage to this terminal strip.**

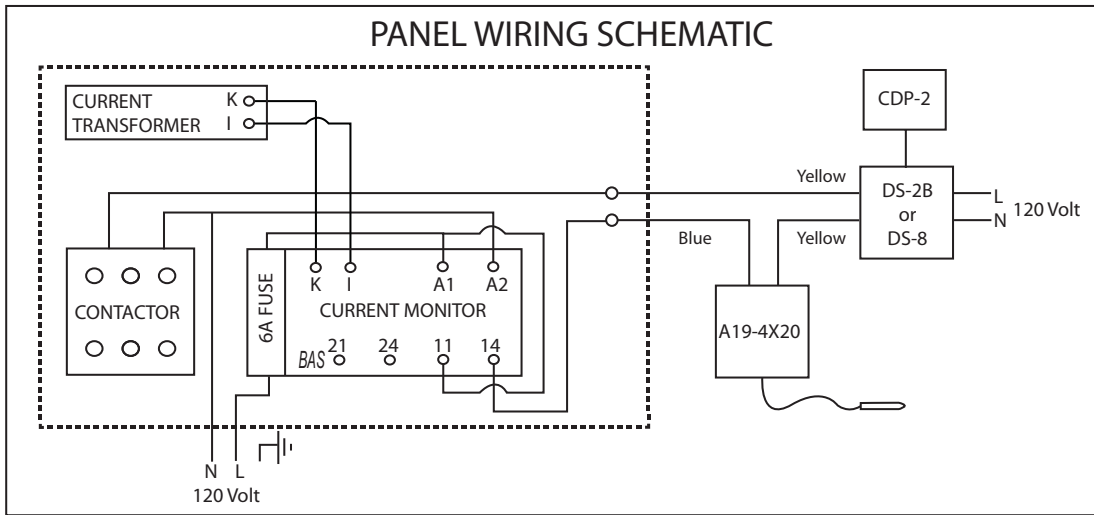
The panel is shipped pre-tested and set for a 30 mA trip at 1 second. It will be necessary to reset the GFI by pressing the test reset button before current will flow to the contactor. Should the GFI trip, inspect and test all wiring for ground faults or incorrect connections / faults and reset. The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

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.

### GFI Panels

### BRI-GFI-75/100/200

### Single or Three-Phase Loads



### CURRENT TRANSFORMER & CONTACTOR WIRING DIAGRAM

