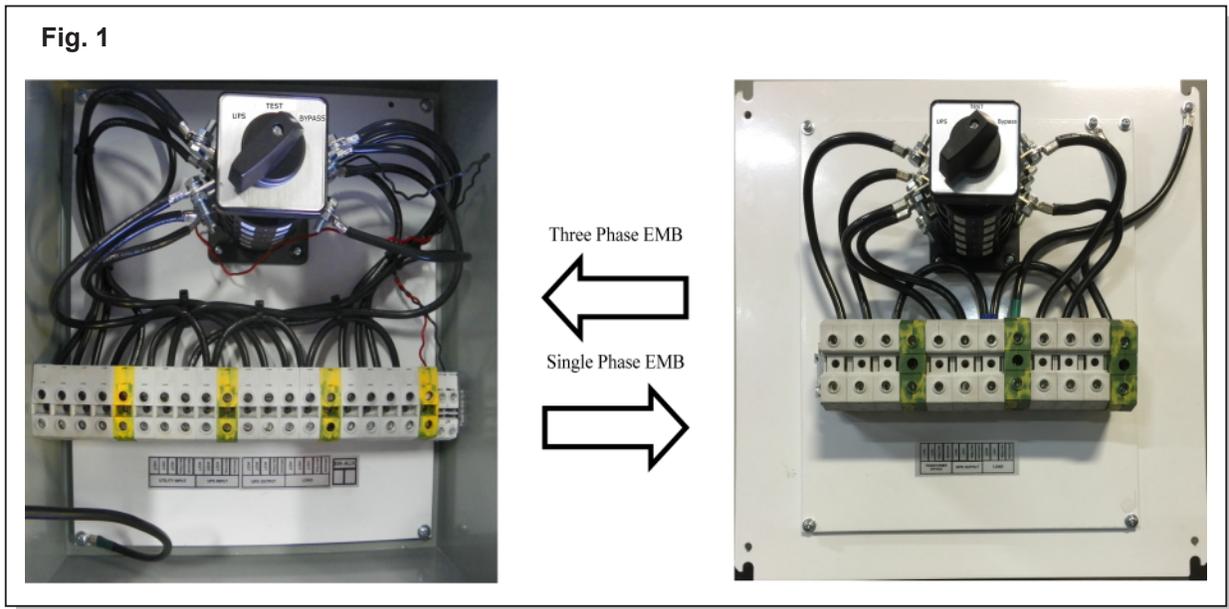


The External Maintenance Bypass Switch Option is designed to allow the user to remove all AC from inside of the UPS, instead of having to reroute the utility feed to the load by hard wiring. In cases such as UPS maintenance and repair, turning of a switch will achieve this task. The instructions in this document are for all inverter configurations that use this option. When this option is installed in the field (Customer's Site), some or all of the wires from the UPS/LCP (Lighting Control Panel's) terminal blocks will need to be redirected. In addition, jumpers will be added to the vacated and open terminal blocks in the UPS/LCP and the EMB.

- All output branches can be connected to this option via an output or load panel box. If your load consists of multiple branches, the connecting of the 3/1-phases from the Load Terminal Block (TB-4) of this EMB to the input of the load panel box will be necessary.



### Mounting the External Maintenance Bypass (EMB) Switch Option

**Note:** Although there are no limitations on the length of the cabling to and from this option, it's recommended that the National Electrical Code be followed.

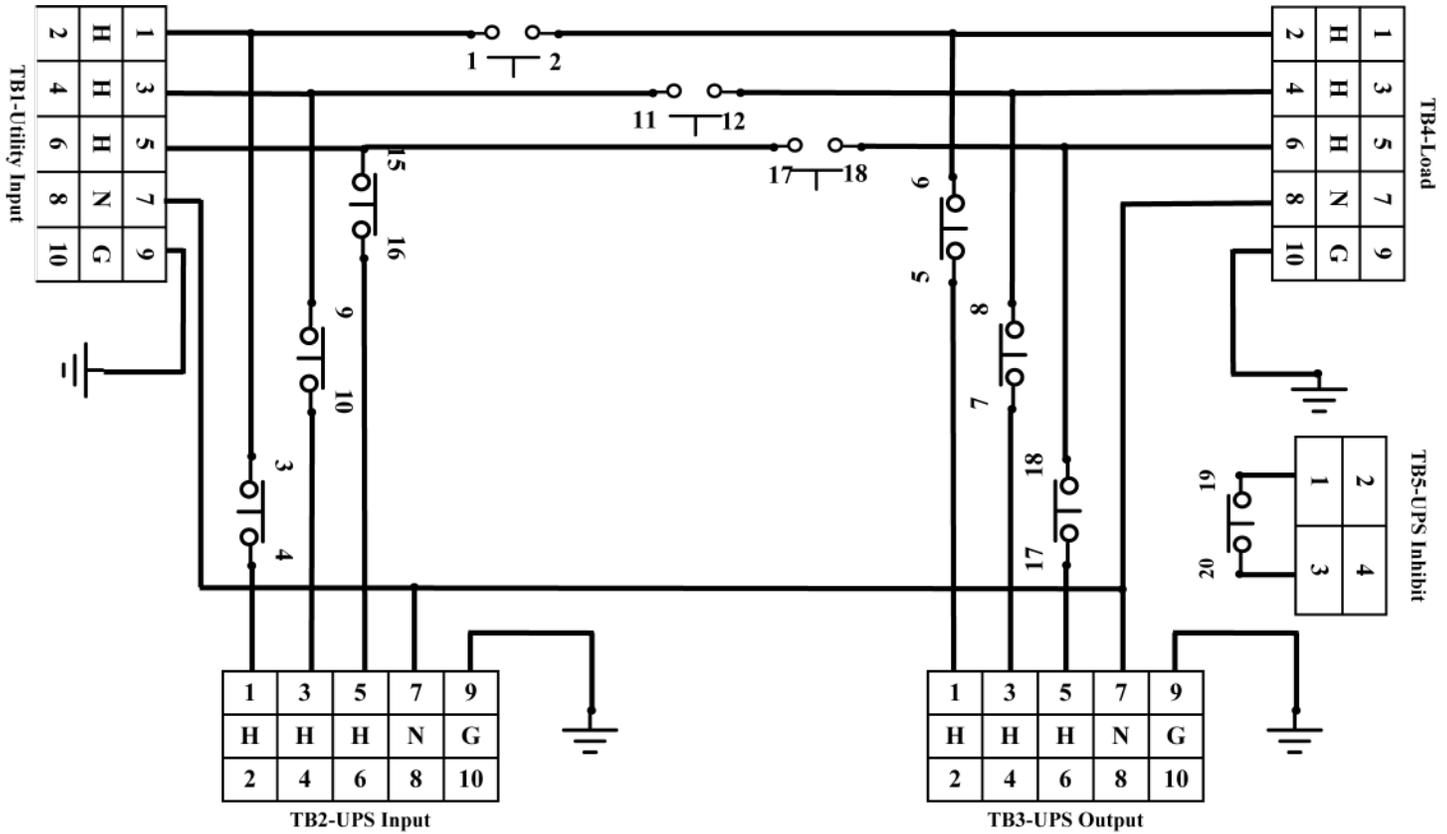
- Find a location and mount the EMB. **Note:** Because existing wires will be redirected from the UPS to the panel box, if possible, select a location that will not require the pulling of the new wires.

### Removal and Installation of EMB

1. Remove the wires that goes to the TB1 of the UPS and install jumpers in their place that run to the TB2-UPS Input of the EMB.
2. The wires that were removed from TB1 of the UPS need to be installed in the EMB's TB1- Utility Input.
3. Install jumpers from TB2 of the UPS (Main Output Terminal Block) TB3 of the EMB.
4. Locate and redirect the wires from the Load to TB4-Load terminal block of the EMB.

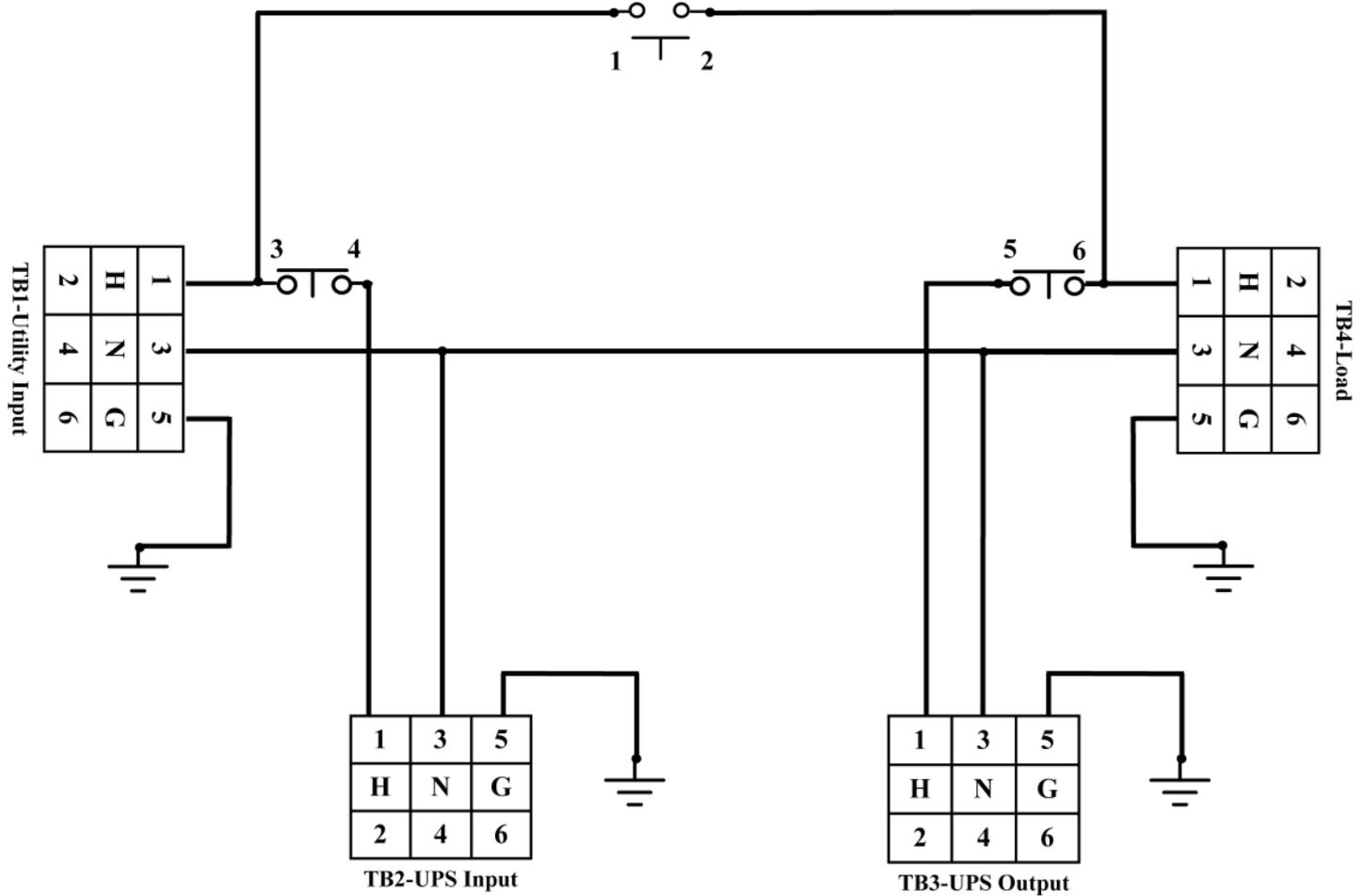
**Note:** If Output Load Breakers (OCB) are installed in the unit, optional terminal blocks may be needed. Contact Exitronix for cost and availability.

### System Level Schematic And Truth Table For Three Phase Systems



Functional Truth Table			
Contacts	UPS	Test	Bypass
1&2, 11&12, and 13&14	Open	Closed	Closed
3&4, 9&10, and 15&16	Closed	Closed	Open
5&6, 7&8, and 17&18	Closed	Open	Open

### System Level Schematic And Truth Table For Single Phase Systems

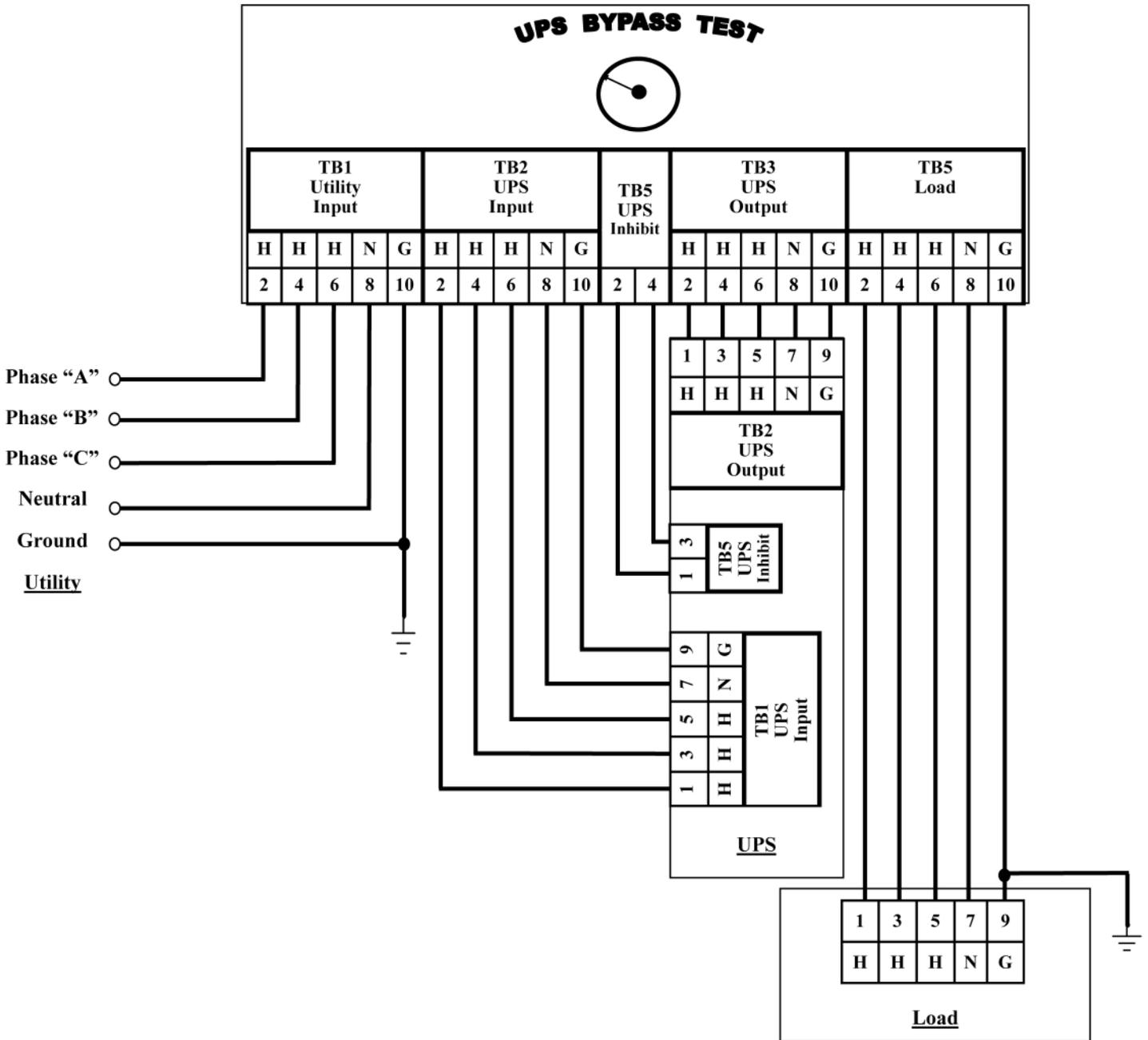


Functional Truth Table			
Contacts	UPS	Test	Bypass
1&2	Open	Closed	Closed
3&4	Closed	Closed	Open
5&6	Closed	Open	Open

# Accessories

External Maintenance ByPass Switch

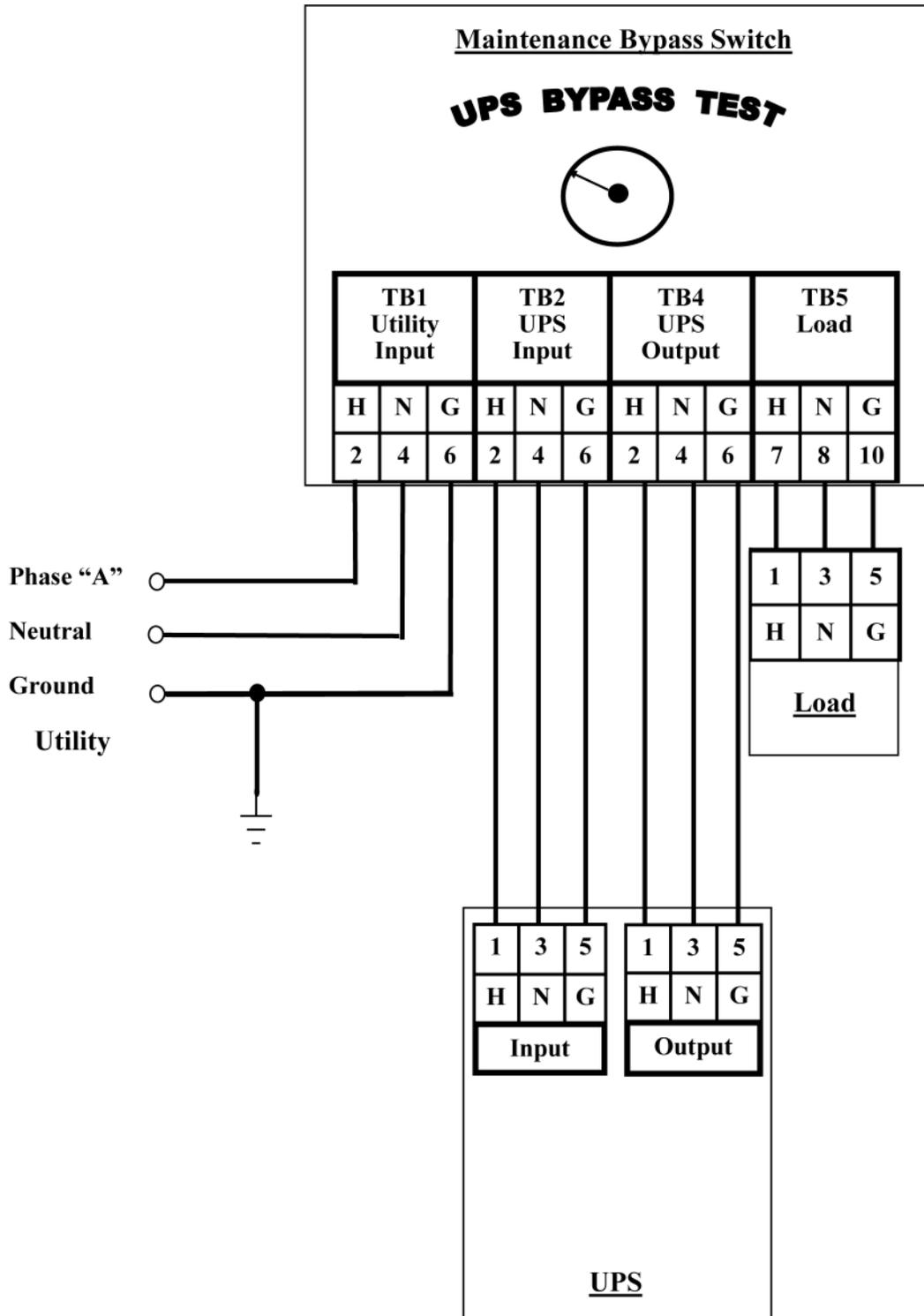
## Functional Drawing For Three-Phase System



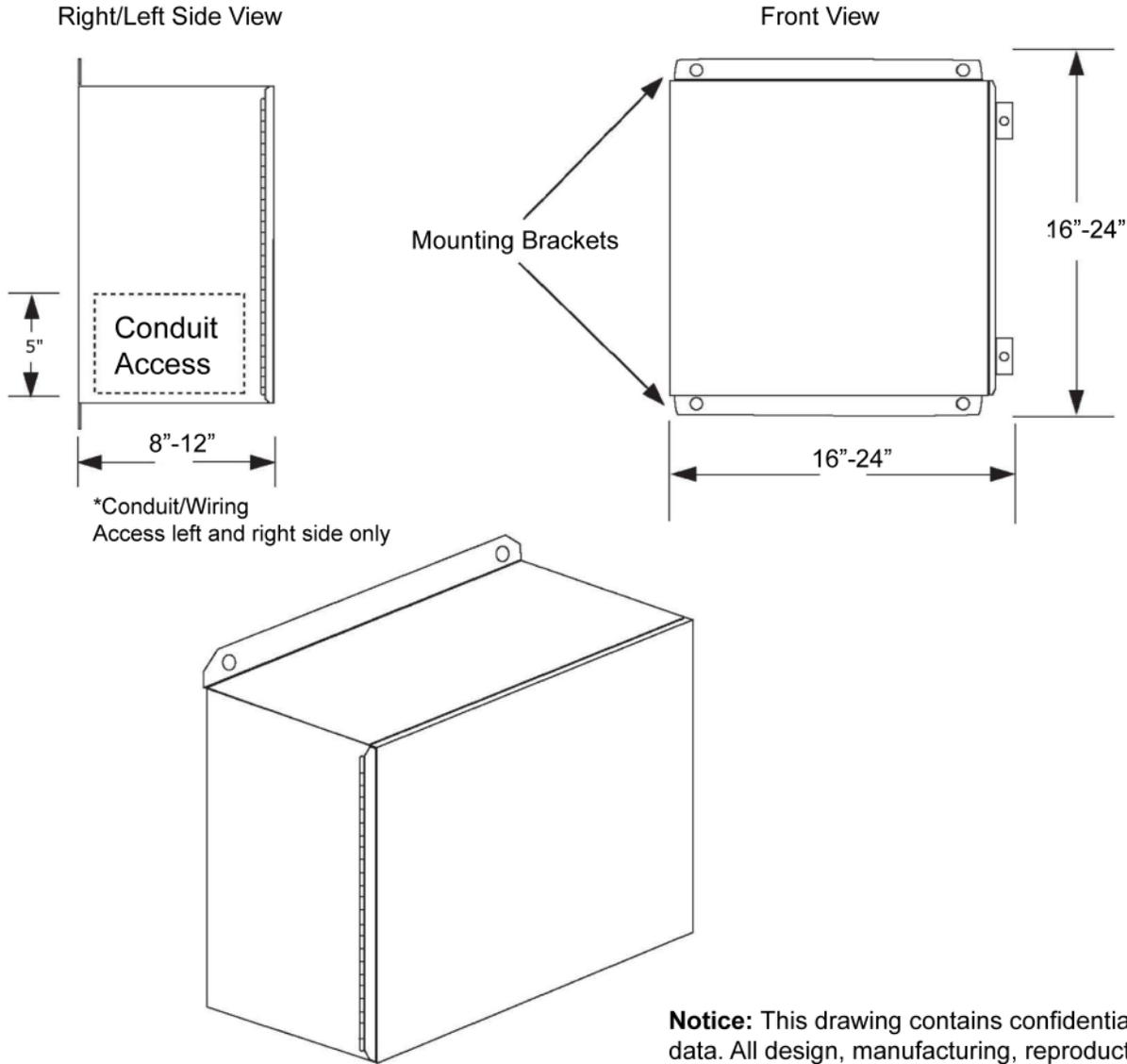
# Accessories

External Maintenance ByPass Switch

## Functional Drawing For Single-Phase System



### Conduit Drawing

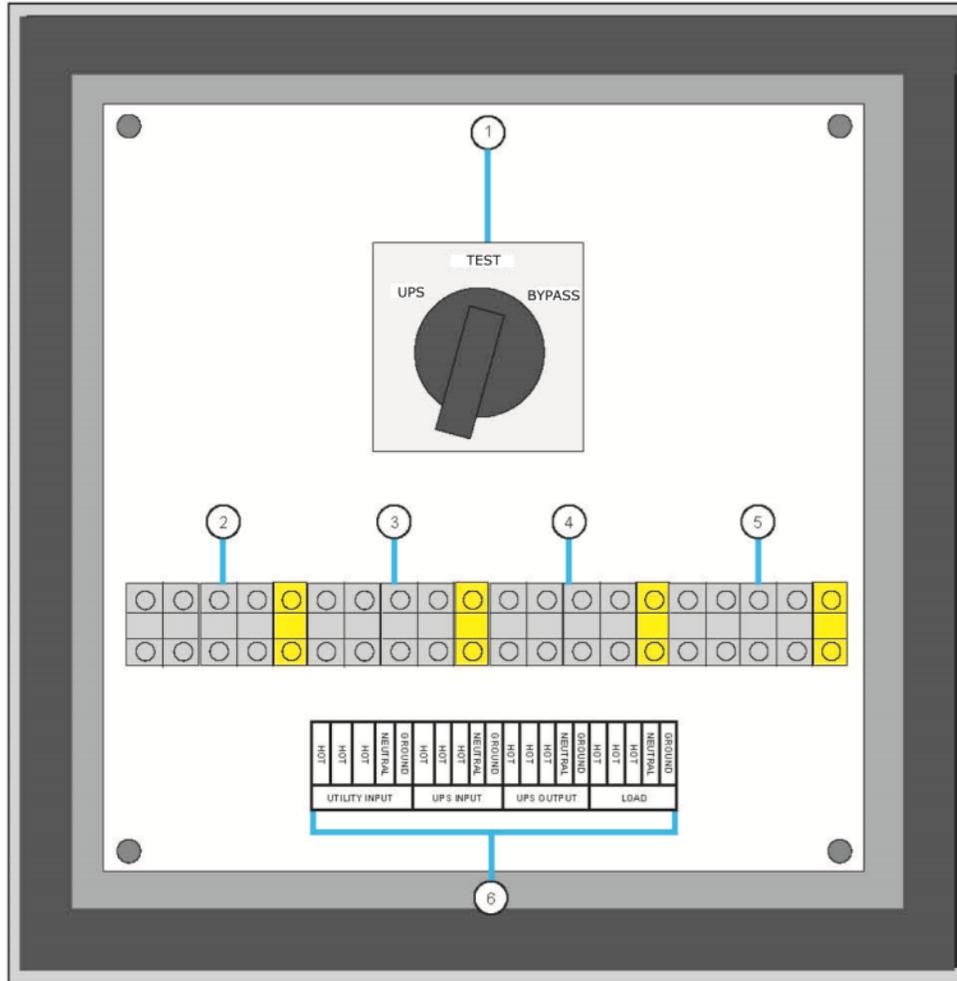


**Notice:** This drawing contains confidential and proprietary data. All design, manufacturing, reproduction, use and sale rights are reserved. The recipient agrees by accepting this document, not to supply or disclose any information regarding it to any unauthorized person, or to incorporate this data into any other design or use thereof. All patent rights are expressly reserved.

Contact factory for special conduit access arrangements.

### Conduit Drawing

The following layout will help find the parts and components in the EMB Option. Do not attempt to service. If you need technical assistance, please contact Exitronix.



### LEGEND

- 1. Switch 1
- 2. TB1: Utility Input
- 3. TB2: UPS Input
- 4. TB3: UPS Output
- 5. TB4: Load
- 6. Label