



# ***ALTV2416UL Series CCTV Power Supplies***

## ***Installation Guide***

### ***Models Include:***

- ***ALTV2416ULX***

- *24VAC @ 7A (170VA)  
or 28VAC @ 6A (170VA).*
- *Sixteen (16) Fuse Protected Outputs.*

- ***ALTV2416300UL***

- *24VAC @ 12.5A (300VA)  
or 28VAC @ 10A (280VA).*
- *Sixteen (16) Fuse Protected Outputs.*

- ***ALTV2416300ULM***

- *24VAC @ 12.5A (300VA)  
or 28VAC @ 10A (280VA).*
- *Sixteen (16) Fuse Protected Outputs.*

- ***ALTV2416600UL***

- *24VAC @ 25A (600VA)  
or 28VAC @ 20A (560VA).*
- *Sixteen (16) Fuse Protected Outputs.*

- ***ALTV2416ULCBX***

- *24VAC @ 7A (170VA)  
or 28VAC @ 6A (170VA).*
- *Sixteen (16) PTC Protected Outputs.*

- ***ALTV2416300ULCB***

- *24VAC @ 12.5A (300VA)  
or 28VAC @ 10A (280VA).*
- *Sixteen (16) PTC Protected Outputs.*

- ***ALTV2416300ULCBM***

- *24VAC @ 12.5A (300VA)  
or 28VAC @ 10A (280VA).*
- *Sixteen (16) PTC Protected Outputs.*


- ***ALTV2416600ULCB***

- *24VAC @ 25A (600VA)  
or 28VAC @ 20A (560VA).*
- *Sixteen (16) PTC Protected Outputs.*

### Overview:

ALTV2416UL Series CCTV Power Supplies provide 24VAC/28VAC distributed via sixteen (16) fuse or PTC protected outputs for powering CCTV cameras, heaters, and other video accessories.

### Sixteen (16) Output ALTV2416UL Reference Chart:

| Altronix Model Number | Output Voltage | Total Output Current (Power) | Number of Outputs | PTC Protected Outputs (Class 2 power-limited for Dry locations), (Class 3 for Wet locations). | Fuse Protected Class 1 Outputs | Individual Output Current (max. per output not to exceed total output current). | Fuse Ratings | Main Fuse Ratings | Primary In-line Fuse Ratings | 115VAC 60Hz Input Current | Agency Listings   |
|-----------------------|----------------|------------------------------|-------------------|---|--------------------------------|---|--------------|-------------------|------------------------------|---------------------------|---|
| ALTV2416ULX           | 24VAC          | 7A                           | 16                | —   | ✓                              | 3.5A  | 3.5A         | 5A/250V           | 3.5A/250V                    | 1.8A                      |  |
|                       | 28VAC          | 6A                           |                   |   |                                |   |              |                   |                              |                           |   |
| ALTV2416ULCBX         | 24VAC          | 7A                           | 16                | ✓   | —                              | 2.5A  | —            | 5A/250V           | 3.5A/250V                    | 1.8A                      |   |
|                       | 28VAC          | 6A                           |                   |   |                                |   |              |                   |                              |                           |   |
| ALTV2416300UL         | 24VAC          | 12.5A                        | 16                | —   | ✓                              | 3.5A  | 3.5A         | 15A/32V           | —                            | 2.7A                      |   |
|                       | 28VAC          | 10A                          |                   |   |                                |   |              |                   |                              |                           |   |
| ALTV2416300ULCB       | 24VAC          | 12.5A                        | 16                | ✓   | —                              | 2.5A  | —            | 15A/32V           | —                            | 2.7A                      |   |
|                       | 28VAC          | 10A                          |                   |   |                                |   |              |                   |                              |                           |   |
| ALTV2416300ULM        | 24VAC          | 12.5A                        | 16                | —   | ✓                              | 3.5A  | 3.5A         | —                 | —                            | 2.7A                      |   |
|                       | 28VAC          | 10A                          |                   |   |                                |   |              |                   |                              |                           |   |
| ALTV2416300ULCBM      | 24VAC          | 12.5A                        | 16                | ✓   | —                              | 2.5A  | —            | —                 | —                            | 2.7A                      |   |
|                       | 28VAC          | 10A                          |                   |   |                                |   |              |                   |                              |                           |   |
| ALTV2416600UL         | 24VAC          | 25A                          | 16                | —   | ✓                              | 3.5A  | 3.5A         | 15A/32V           | —                            | 5.4A                      |   |
|                       | 28VAC          | 20A                          |                   |   |                                |   |              |                   |                              |                           |   |
| ALTV2416600ULCB       | 24VAC          | 25A                          | 16                | ✓   | —                              | 2.5A  | —            | 15A/32V           | —                            | 5.4A                      |   |
|                       | 28VAC          | 20A                          |                   |   |                                |   |              |                   |                              |                           |   |

### Specifications:

#### Agency Listings:

- UL Listed for Commercial CCTV Equipment (UL 2044).  
CUL Listed - CSA Standard C22.2 No.1-98, Audio, Video and Similar Equipment.
- CE - European Conformity.

#### Input:

- 115VAC, 50/60Hz.

#### Output:

- Sixteen (16) fuse or PTC protected outputs.
- 24VAC or 28VAC output.
- Outputs are rated @ 3.5A (fuse) or 2.5A (PTC).
- Surge suppression.

#### Features:

- Secondary fuse rated @ 5A/250V.
- AC power LED.
- Power ON/OFF switch.
- Spare fuses provided.  
(all models w/primary and/or secondary fuses).

#### Enclosure Dimensions:

**ALTV2416300ULM and ALTV2416300ULCBM:**  
8.5" x 7.5" x 3.75" (215.9mm x 190.5mm x 97.9mm).  
**ALTV2416ULX, ALTV2416ULCBX,**  
**ALTV2416300UL, ALTV2416300ULCB,**  
**ALTV2416600UL and ALTV2416600ULCB:**  
13.5" x 13" x 3.25" (342.9mm x 330.2mm x 82.55mm).

## Installation Instructions:

Wiring methods shall be in accordance with the National Electrical Code/NFPA 70/NFPA 72/ANSI, and with all local codes and authorities having jurisdiction. Product is intended for indoor use only.

1. Mount unit in the desired location. Mark and predrill holes in the wall to line up with the top two keyholes in the enclosure. Install two upper fasteners and screws in the wall with the screw heads protruding. Place the enclosure's upper keyholes over the two upper screws, level and secure. Mark the position of the lower two holes. Remove the enclosure. Drill the lower holes and install the three fasteners. Place the enclosure's upper keyholes over the two upper screws. Install the two lower screws and make sure to tighten all screws (*Enclosure Dimensions, pgs. 11 - 12*). Secure enclosure to earth ground.
2. Set power switch on power distribution board marked [PD] to OFF position for models ALTV2416ULX or ALTV2416ULCBX (*Figs. 1, 2, pgs. 4, 5*). Set power disconnect circuit breaker to OFF position for all other models (*Figs. 3a - 8a, pgs. 6 - 10*).
3. All units are factory set for 24VAC operation.  
For 28VAC operation, adjust unit prior to mounting and applying power as follows:  
Change the wire position so that the wire marked [28V] is connected to the terminal marked [P] and the wire marked [24V] is connected to the terminal marked [S].  
**Note: ALTV2416ULCBX set for 28VAC operation is not Class 2 Rated, not power-limited.**
4. Connect AC power to the black and white flying leads of the transformer(s) (*Figs. 1 - 8, pgs. 4 - 10*).  
Use 18 AWG or larger for all power connections.  
**Keep power-limited (PTC protected outputs only) wiring separate from non power-limited wiring. Minimum 0.25" spacing must be provided. Use separate knockouts.**
5. Set power switch on power distribution board marked [PD] to ON position for models ALTV2416ULX or ALTV2416ULCBX (*Figs. 1, 2, pgs. 4, 5*). Set power disconnect circuit breaker to RESET (ON) position for all other models (*Figs. 3a-8a, pgs. 6-10*).
6. Measure output voltage before connecting devices. This helps avoiding potential damage.  
Terminals marked [1P - 16P] are of the same polarity.  
**CAUTION: Determine the maximum operating voltage of the equipment being powered before adjusting the output voltage.**
7. Set power switch on power distribution board marked [PD] to OFF position for models ALTV2416ULX or ALTV2416ULCBX (*Figs. 1, 2, pgs. 4, 5*). Set power disconnect circuit breaker to OFF position for all other models (*Figs. 3a - 8a, pgs. 6-10*).
8. Connect devices to terminals marked [1P - 1N] through [8P - 8N] on PD8 board (*Figs. 1 - 4, pgs. 4 - 7, Figs. 7 - 8, pgs. 9 - 10*), or terminals marked [1P - 1N] through [16P - 16N] on PD16W/PD16WCB board (*Figs. 5 - 6, pg. 8*), carefully observing polarity.
9. Set power switch on power distribution board marked [PD] to ON position for models ALTV2416ULX or ALTV2416ULCBX (*Figs. 1, 2, pgs. 4, 5*). Set power disconnect circuit breaker to RESET (ON) position for all other models (*Figs. 3a - 8a, pgs. 6 - 10*).
10. Green LED will illuminate when power is present.
11. Upon completion of the wiring, secure enclosure door with screws (supplied). Installation of cam lock is optional.  
**CAUTION: Equipment to be installed/serviced by authorized/trained personnel only.  
Shut branch circuit power before installing/servicing equipment.**

**WARNING: To reduce the risk of fire or electric shock, do not expose the unit to rain or moisture. This installation should be made by qualified service personnel and should conform to all local codes and in accordance with the National Electrical Code. Use 75° C or higher rated UL insulated wiring for connecting the unit to the mains. Replace fuses only with the same type and rating (refer to Sixteen (16) Output ALTV2416UL Reference Chart, pg. 2).**

## Terminal Identification:

### PD8 - Power Distribution Module

| Terminal Legend | Function/Description |
|-----------------|----------------------|
| 1P - 8P         | AC output.           |
| 1N - 8N         | AC output.           |

### PD16W - Power Distribution Module

| Terminal Legend | Function/Description |
|-----------------|----------------------|
| 1P - 16P        | AC output.           |
| 1N - 16N        | AC output.           |



The lightning flash with arrow head symbol within an equilateral triangle is intended to alert the user to the presence of an insulated DANGEROUS VOLTAGE within the product's enclosure that may be of sufficient magnitude to constitute an electric shock.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.



**CAUTION**  
RISK OF ELECTRIC SHOCK  
DO NOT OPEN



**CAUTION:** To reduce the risk of electric shock do not open enclosure. There are no user serviceable parts inside. Refer servicing to qualified service personnel.

Fig. 1  
ALTV2416ULX

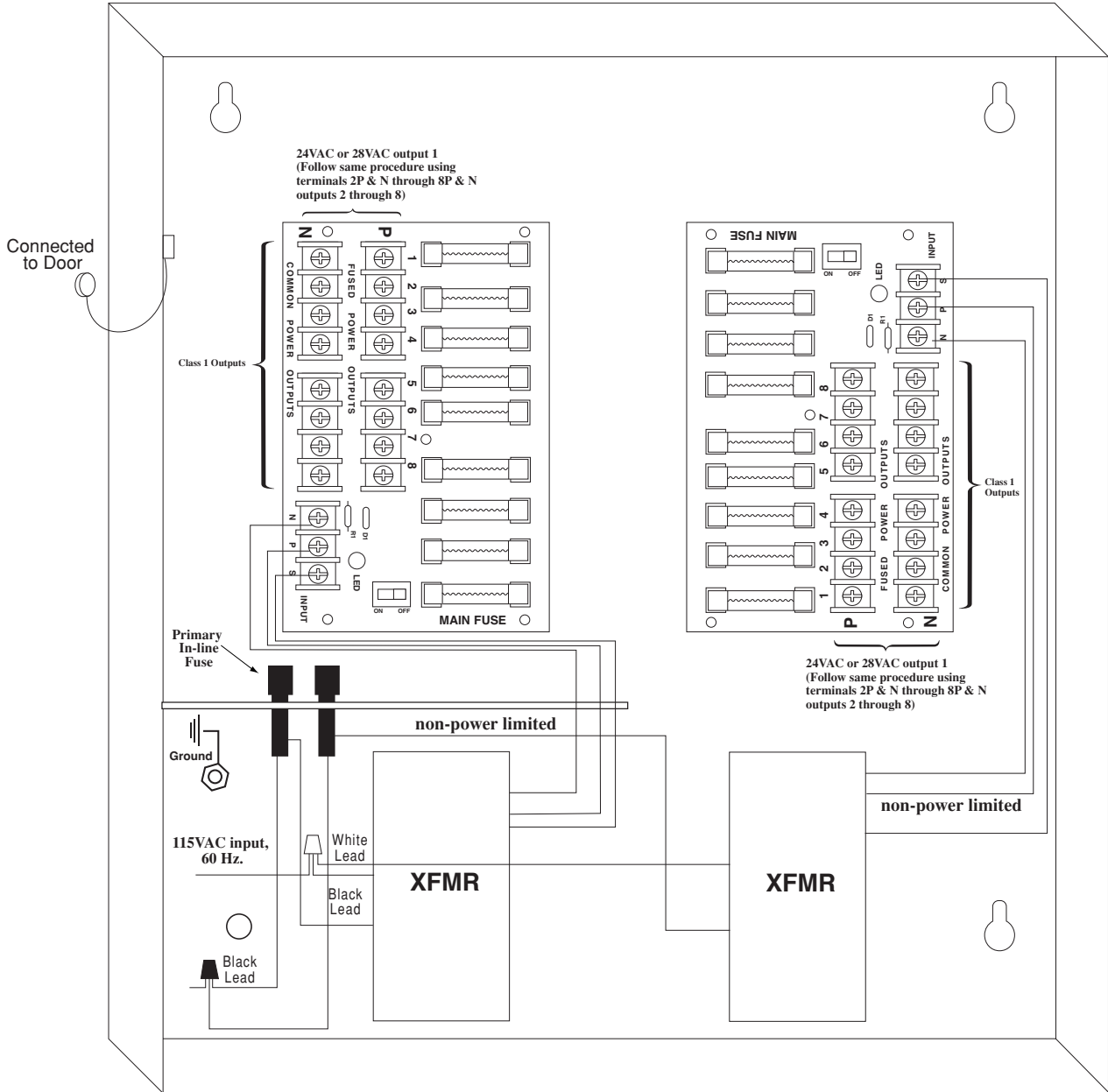


Fig. 2  
ALTV2416ULCBX

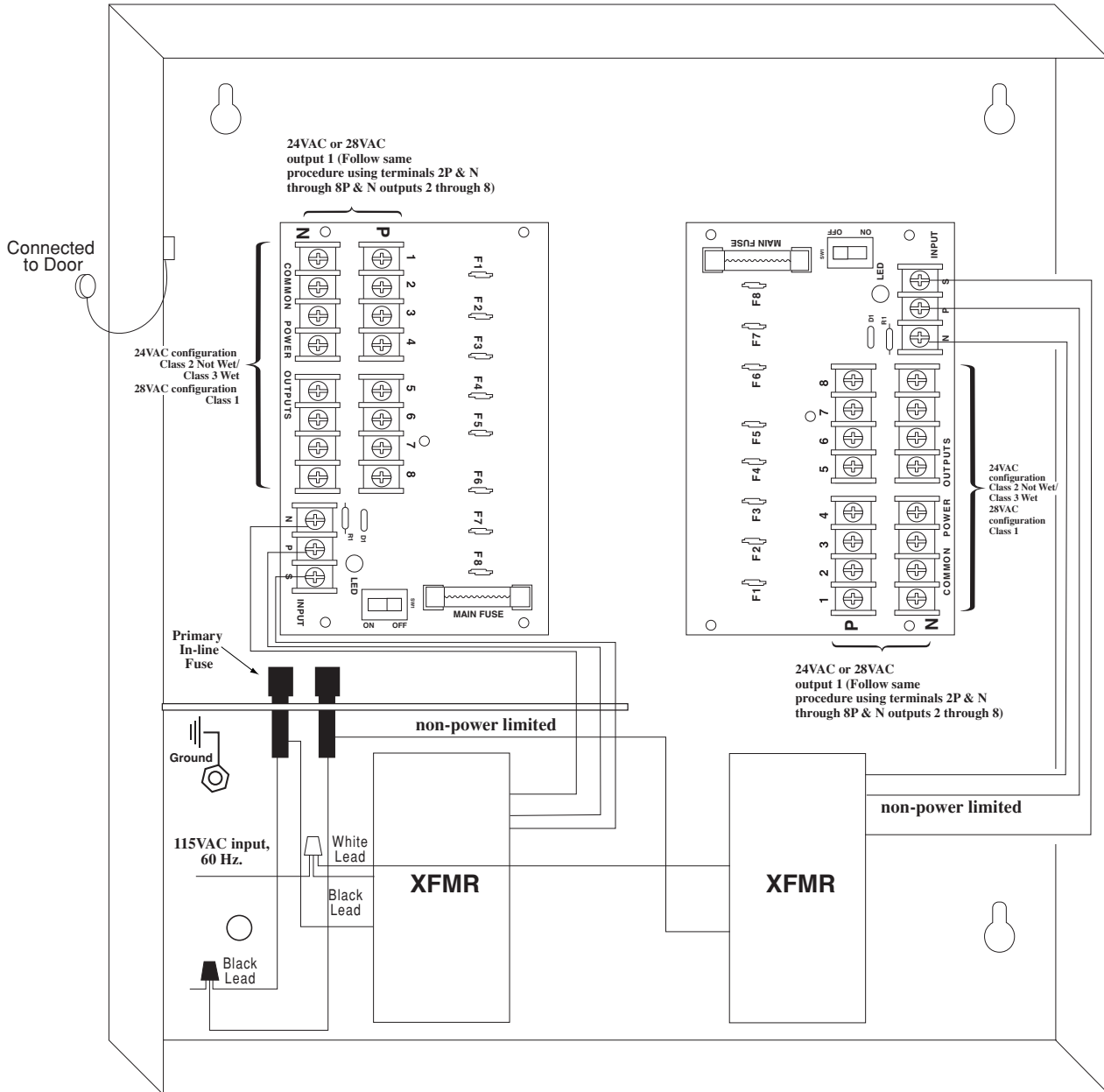


Fig. 3  
ALTV2416300UL

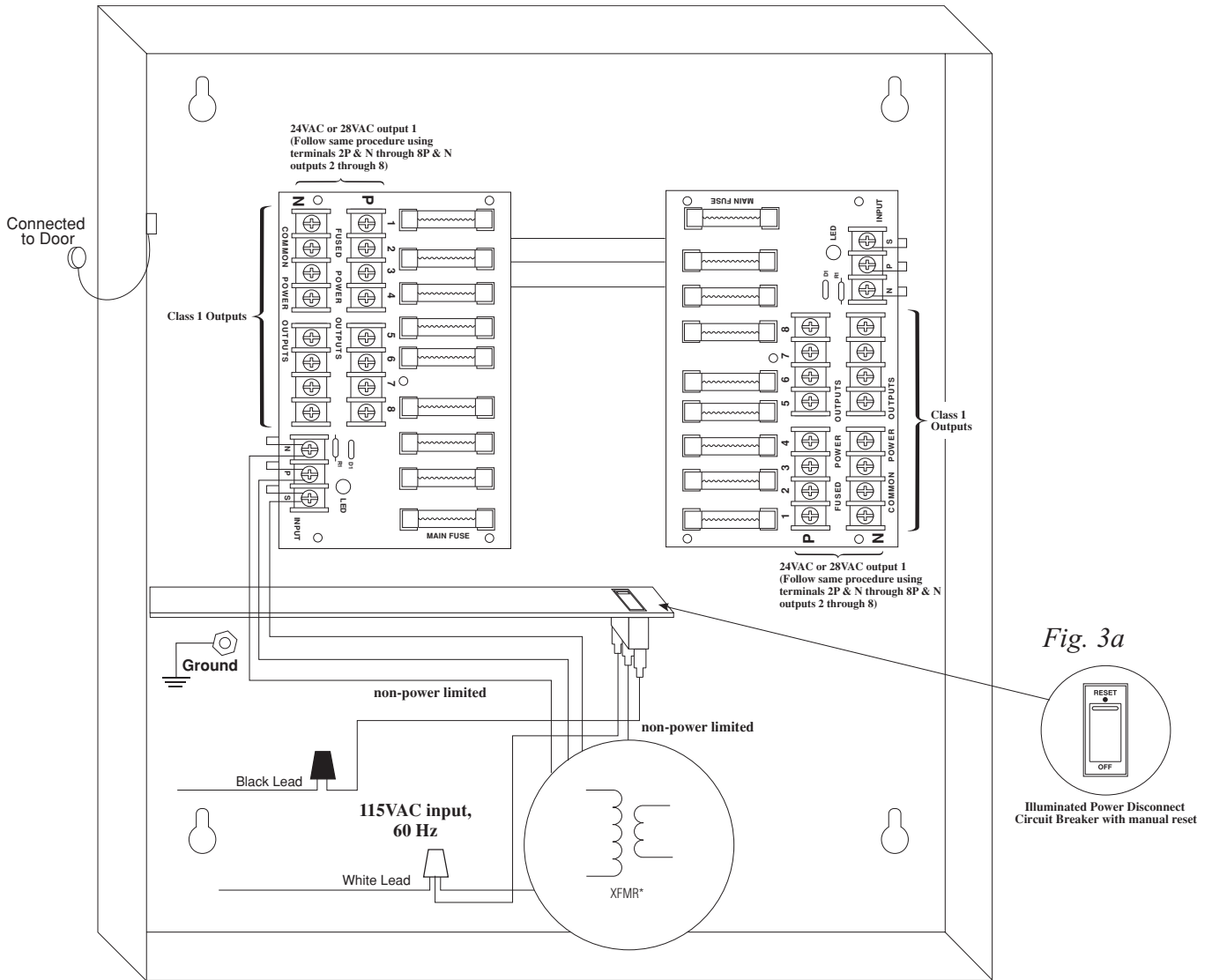


Fig. 3a  
Illuminated Power Disconnect  
Circuit Breaker with manual reset

Fig. 4  
ALTV2416300ULCB

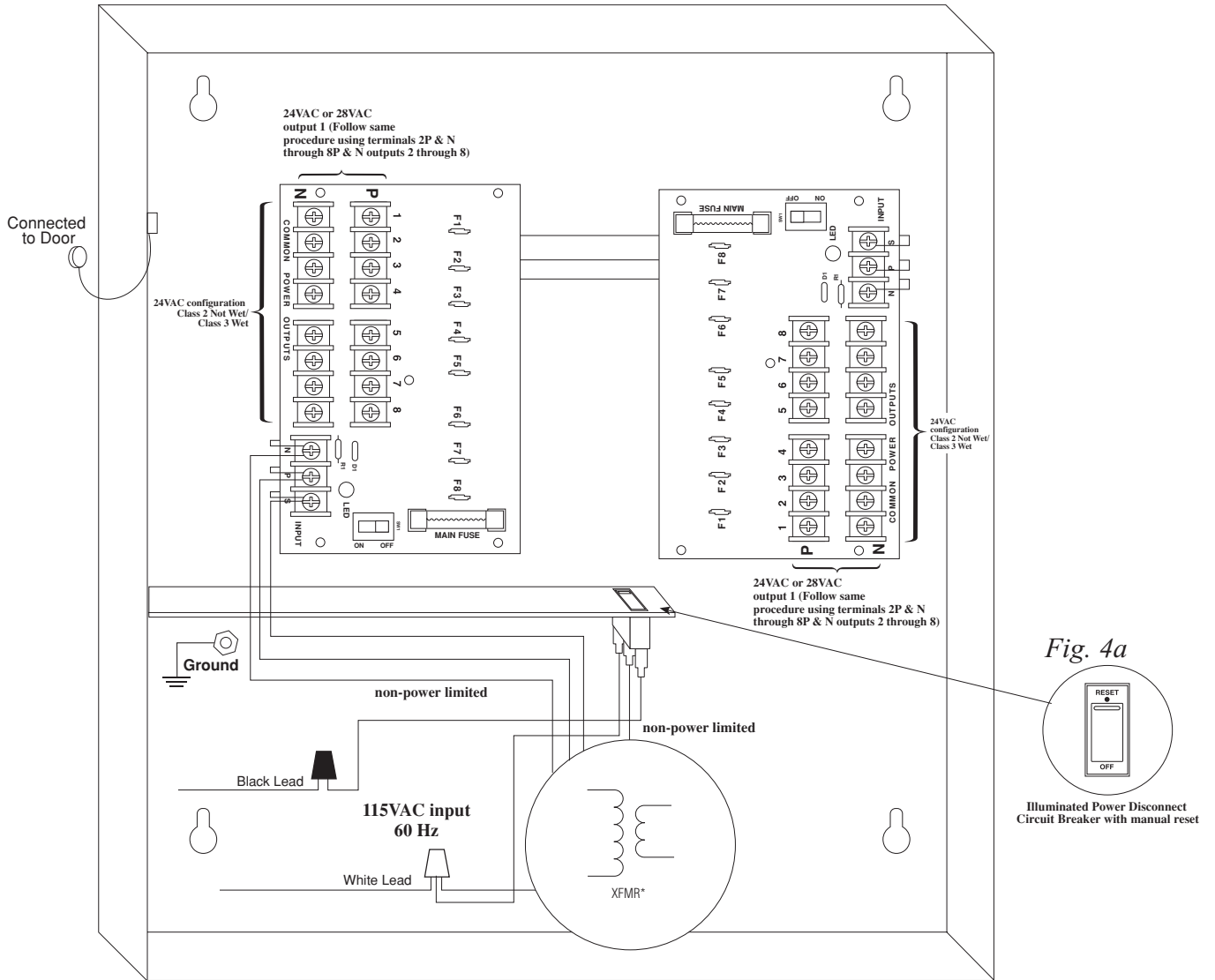


Fig. 5  
ALTV2416300ULM

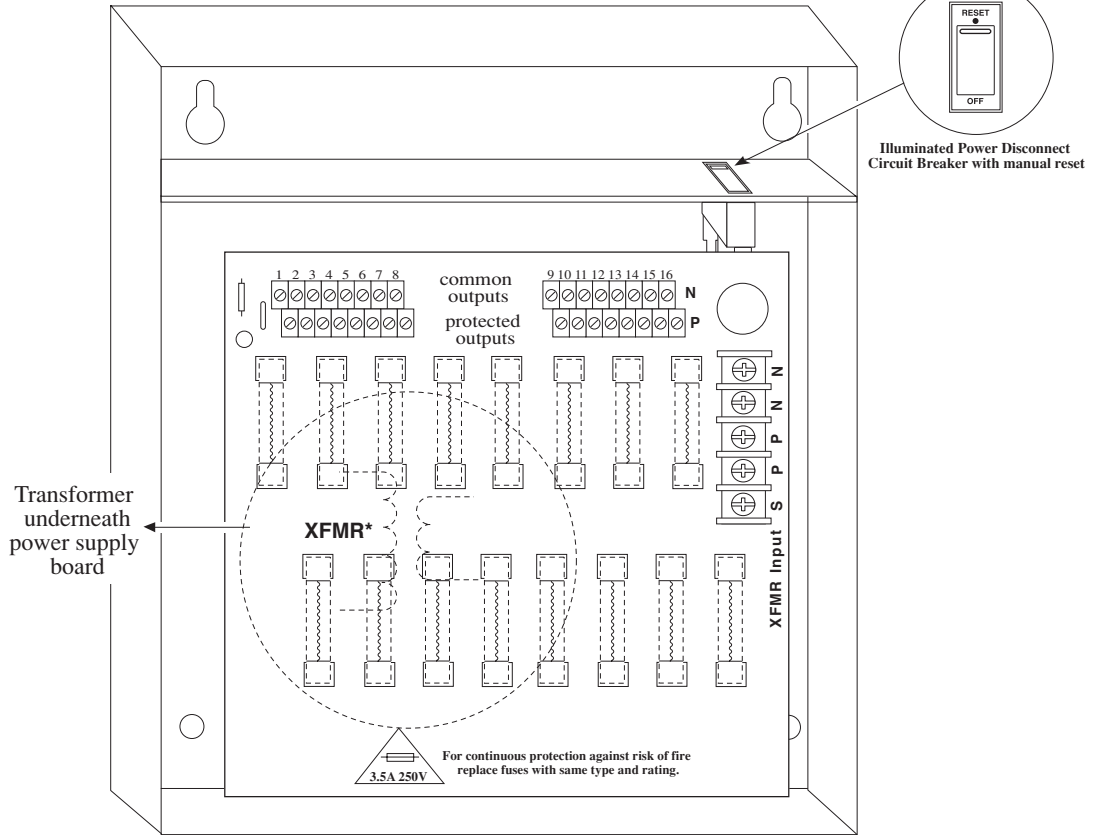


Fig. 6  
ALTV2416300ULCBM

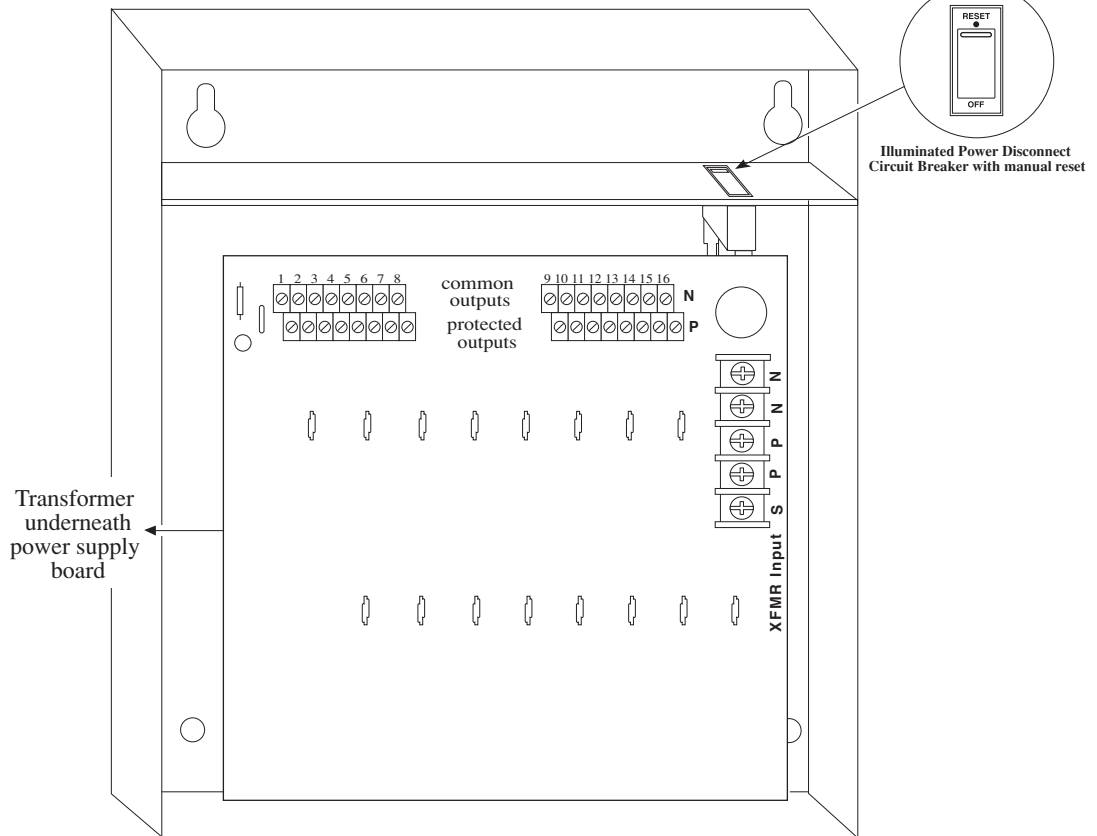


Fig. 7  
ALTV2416600UL

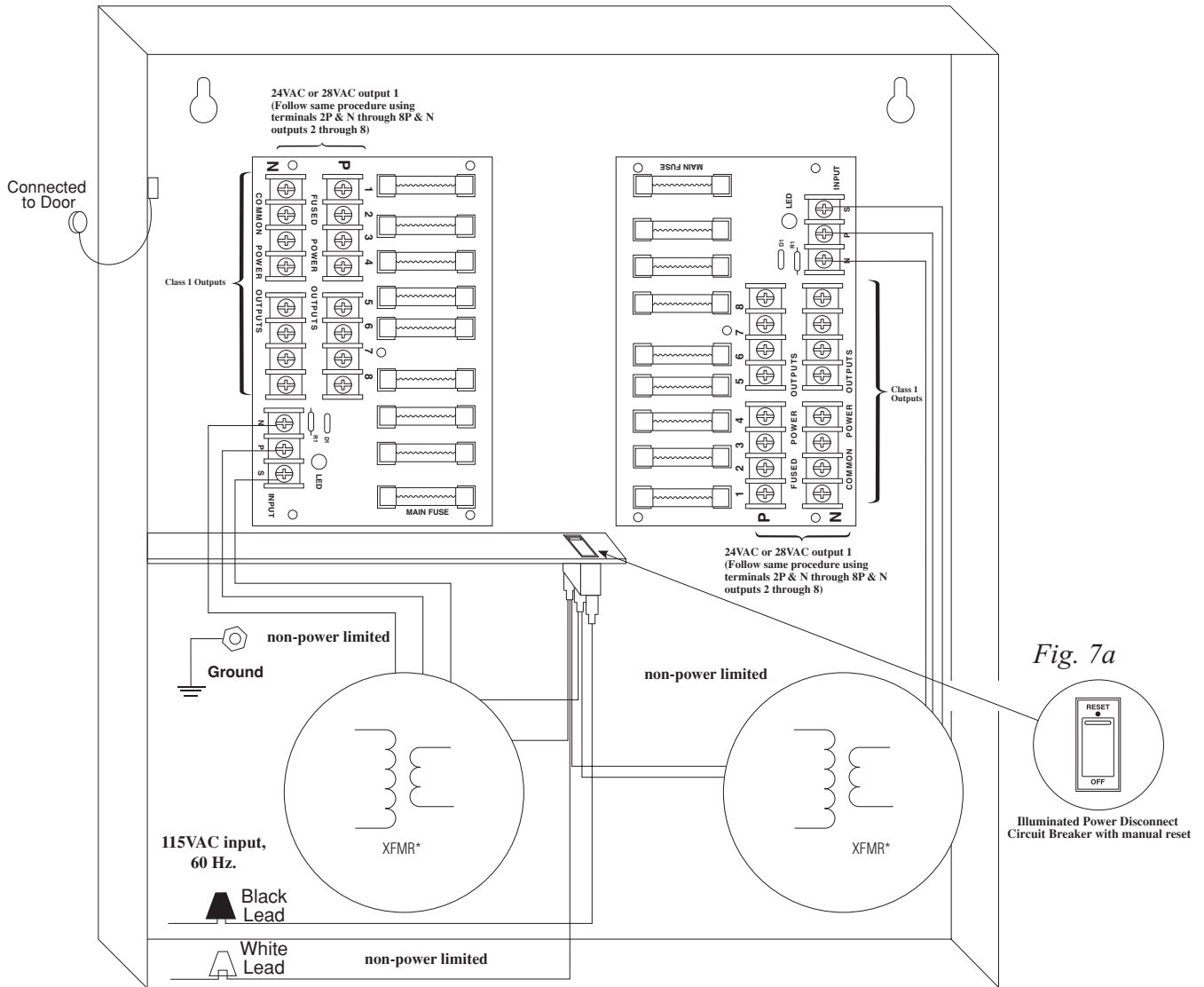
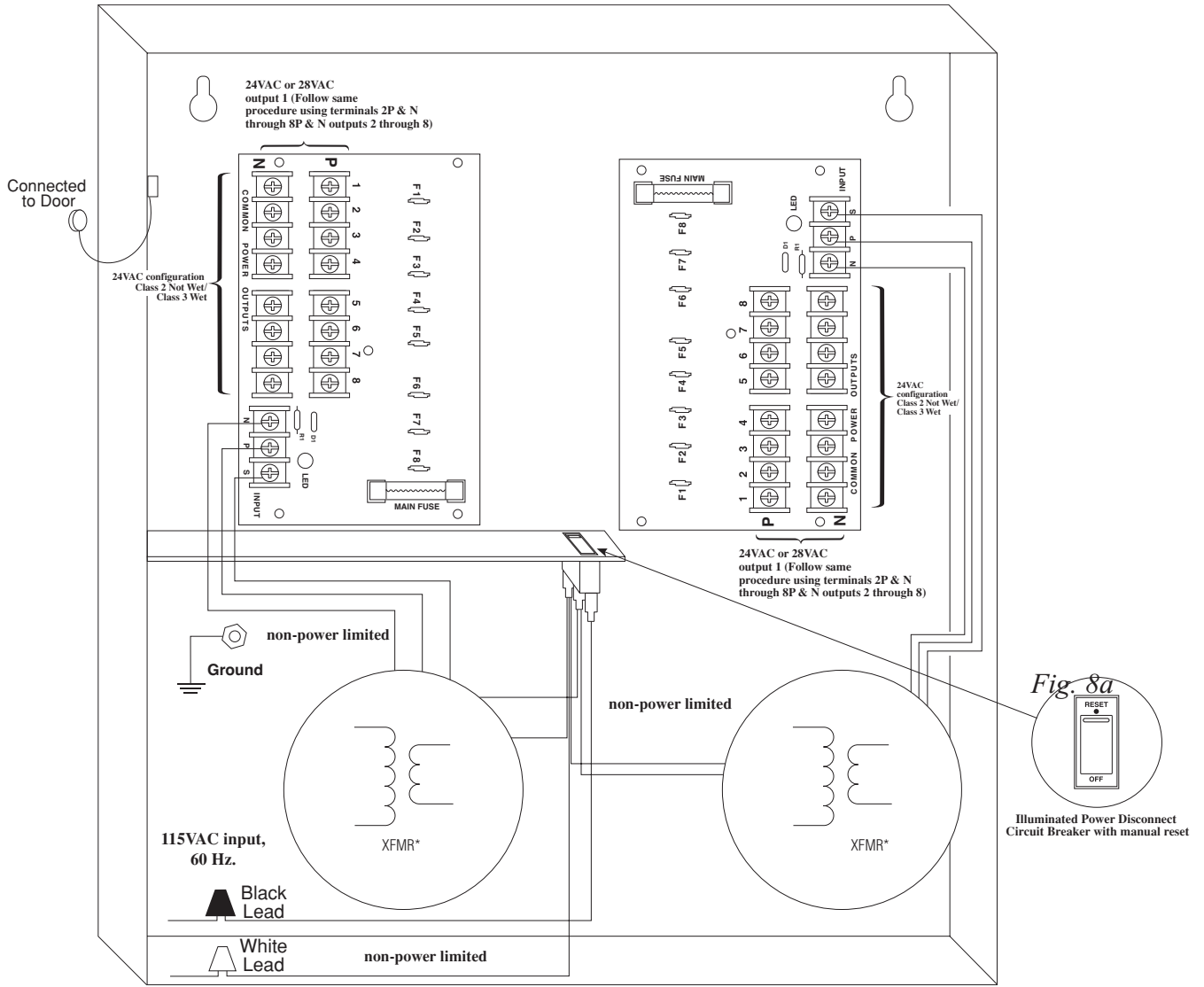


Fig. 8  
ALTV2416600ULCB



**Enclosure Dimensions (H x W x D approximate) for**

• **ALTV2416300ULM**

• **ALTV2416300ULCBM**

8.5" x 7.5" x 3.75" (215.9mm x 190.5mm x 97.9mm)

