INSTRUCTION SHEET

3-Phase Sensing Wire Upgrade Power Zone® 410 Kit

Model G0074110

Intended for 120-240 Volt RTS Switches

⚠DANGER

Automatic start-up. Disconnect utility power and render unit inoperable before working on unit. Failure to do so will result in death or serious injury.

(000191)

⚠WARNING

Consult Manual. Read and understand manual completely before using product. Failure to completely understand manual and product could result in death or serious injury. (000100a)

⚠WARNING

Equipment damage. Only qualified service personnel may install, operate, and maintain this equipment. Failure to follow proper installation requirements could result in death, serious injury, and equipment or property damage.

(000182a)

Table 1 - Applicable Models

RTSI100M3	RTSN600A3
RTSI200M3	RTSN600J3
RTSN100G3	RTSN800G3
RTSN100J3	RTSN800J3
RTSN200G3	RTSW100G3
RTSN200J3	RTSW100J3
RTSN400G3	RTSW200G3
RTSN400J3	RTSW200J3

Table 2 - Contents of Kit G0074110

Part Number	Description	Qty.
A0003280189	WIRE PWRMNTR N1B SPLIT WHT/BLK	1
A0003084227	WIRE N3 TO FUSE WHT/BLK	1
A0003096514	WIRE FUSE TO UTILITY 3 WHT/BLK	1
G073591	FUSEBLOCK 30A 600V 1POS	1
073590A	FUSE 5A X BUSS	1
G028739	TIE WRAP UL 3.9 X .10 NATL	10

Table 2 - Contents of Kit G0074110

0G9294	SCREW HHSD #8-32 X 1/2	1
0D3587	DECAL FUSE REPLACEMENT	1
A0003447297	DECAL N3 UTILITY 3 CONNECTION	1
A0003447300	DECAL CONTAINS PHASE SENSE KIT	3

Preparing for Installation

⚠DANGER

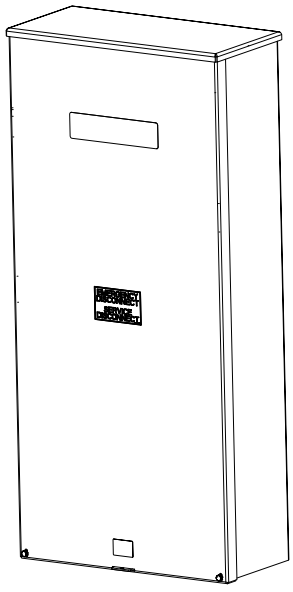
Automatic start-up. Disconnect utility power and render unit inoperable before working on unit. Failure to do so will result in death or serious injury.

(000191)

After de-energizing the unit, open enclosure according to the owner's manual.

Installing 3-Phase Sensing Wire Upgrade Power Zone 410 Kit

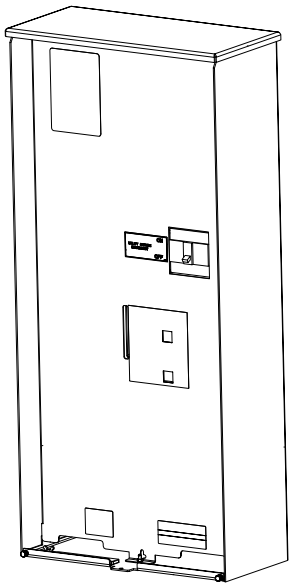
1. Disconnect utility, or turn service circuit breaker OFF, to disconnect all power to transfer switch.



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Figure 1. 3-Phase Automatic Transfer Switch (RTSW200G3 Shown)

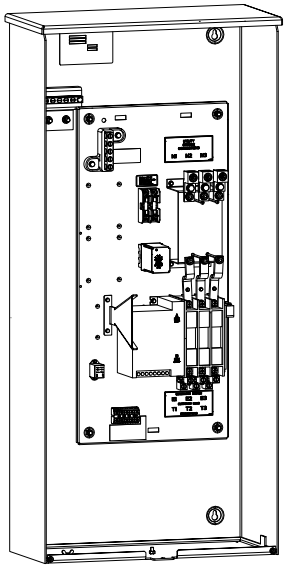
2. Verify all sources of electricity connected to the transfer switch are de-energized.
3. See ***Figure 2***. Remove front cover and dead front.



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Figure 2. Remove Front Cover

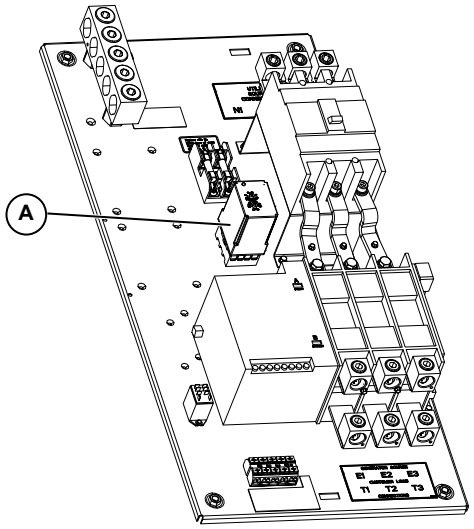
4. Locate fuse block mounting spot close to the existing fuses on the inner subplate.
   a. Verify the provided N3 and N3A wire lengths will reach the terminals of the Power Monitor Base (See ***Figure 5***) and Customer Connection Terminal Block (See ***Step 13***) from the chosen mounting location.
5. Use the provided self-drilling screw (0G9294) to mount provided fuse block (G073591) to the back plate.
6. Apply decal fuse replacement label (0D3587) next to fuse block.



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Figure 3. Locate Fuse Block Mounting Location

7. See ***Figure 4***. Remove power monitoring device (A); it will not be used when the switch is paired with Power Zone 410. Firmly pull toward user until power monitor unseats from the mounting base terminal.



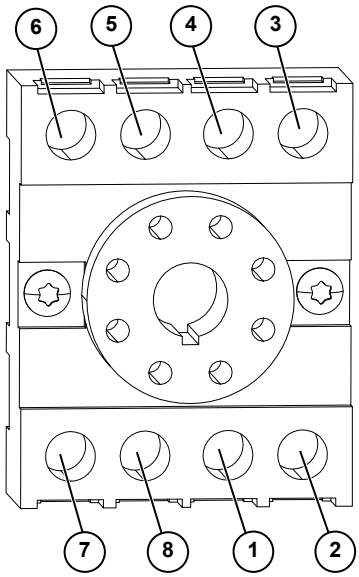
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Figure 4. Power Monitoring Device

8. See ***Wiring Diagram—Original Wiring Diagram***. Loosen and remove wire N1B coming out of Terminal 1 leading to Terminal 3 in the power monitor base.

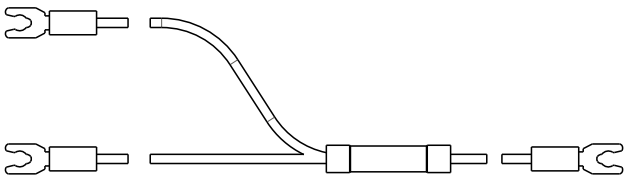
NOTE: Terminal designations are located on the plastic power monitor mounting base. Designations will be visible once the power monitor is removed.

9. See ***Figure 5***. Loosen Terminal 1, 3, and 8 of the power monitor base.



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Figure 5. Power Monitoring Base



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Figure 6. N1B Wire

10. See ***Wiring Diagram—After Installing Phase Sense Kit***. Install provided wire N1B to the terminals as shown.
11. See ***Figure 5***. Tighten all three terminals; Terminals 1, 3, and 8 will have two connections each.
12. Loosen Terminal 5 in the power monitor base.

NOTE: Do NOT remove the existing N3 wire.

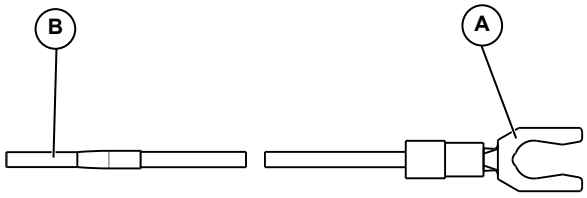
13. See ***Figure 7***. Install the provided wire with N3 printed on the insulation.
    a. Connect the large snap space connector (A) to one side of the newly installed fuse block (F3).
    b. Install the smaller snap spade connector (B) to Terminal 5 of the power monitor base. There will be a total of two wires connected to Terminal 5.



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Figure 7. N3 Wire

14. See ***Figure 8***. Install the wire with N3A printed on the insulation.
    a. Connect the large snap space connector (A) to the remaining open terminal on the fuse block.
    b. Install the pin side (B) to the middle connector in the customer connect terminal block.

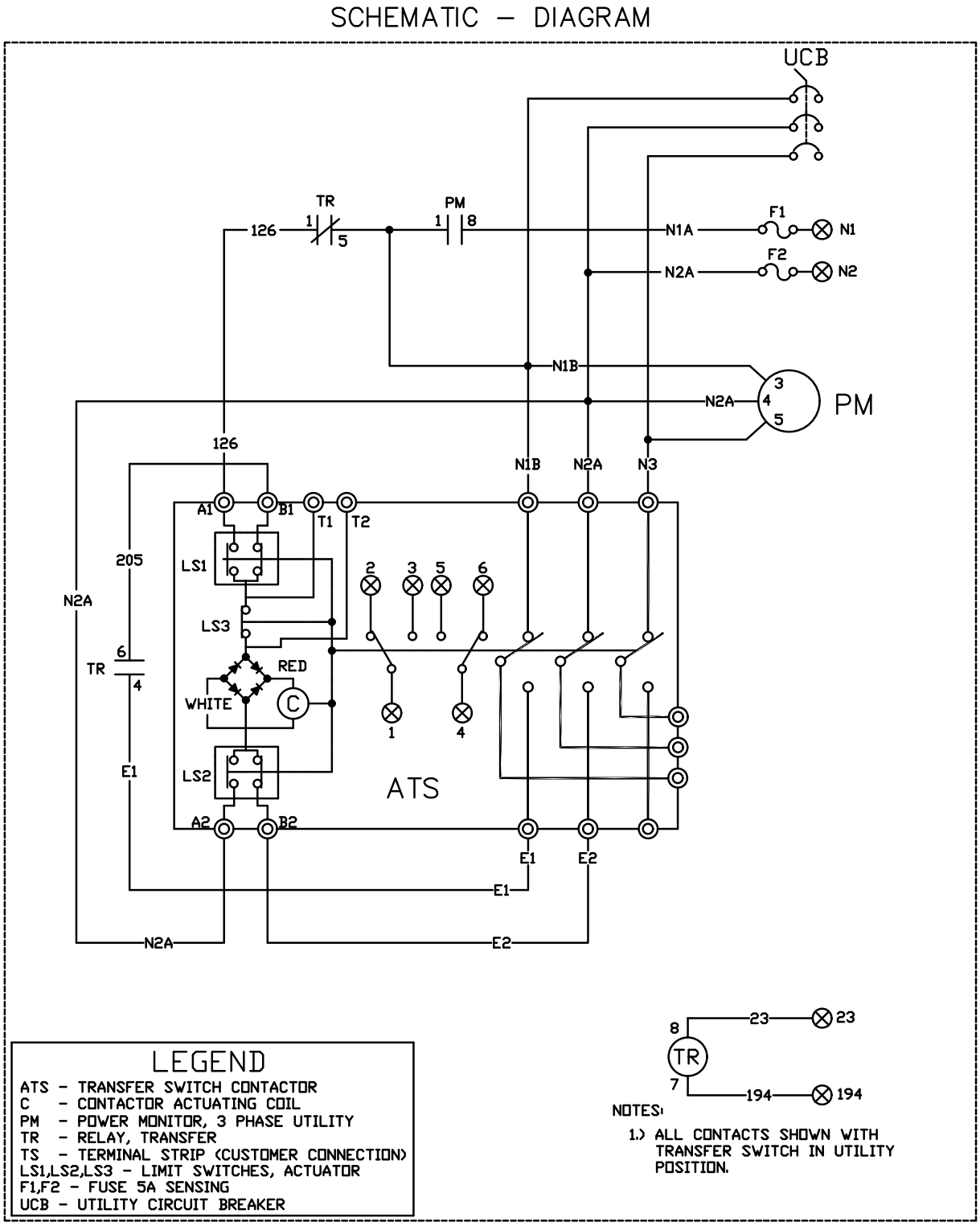


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Figure 8. N3A Wire

15. Apply “Utility 3 Connection” label (A0003447297) next to Terminal 3 of the customer connection terminal block.
16. Install provided 5 amp fuse into new the fuseblock.
17. Apply all three phase sense kit decals (A0003447300) to the front cover, inner panel, and switch mounting plate.
18. Assemble transfer switch panels.
19. Test switch functions per the transfer switch owner's manual.

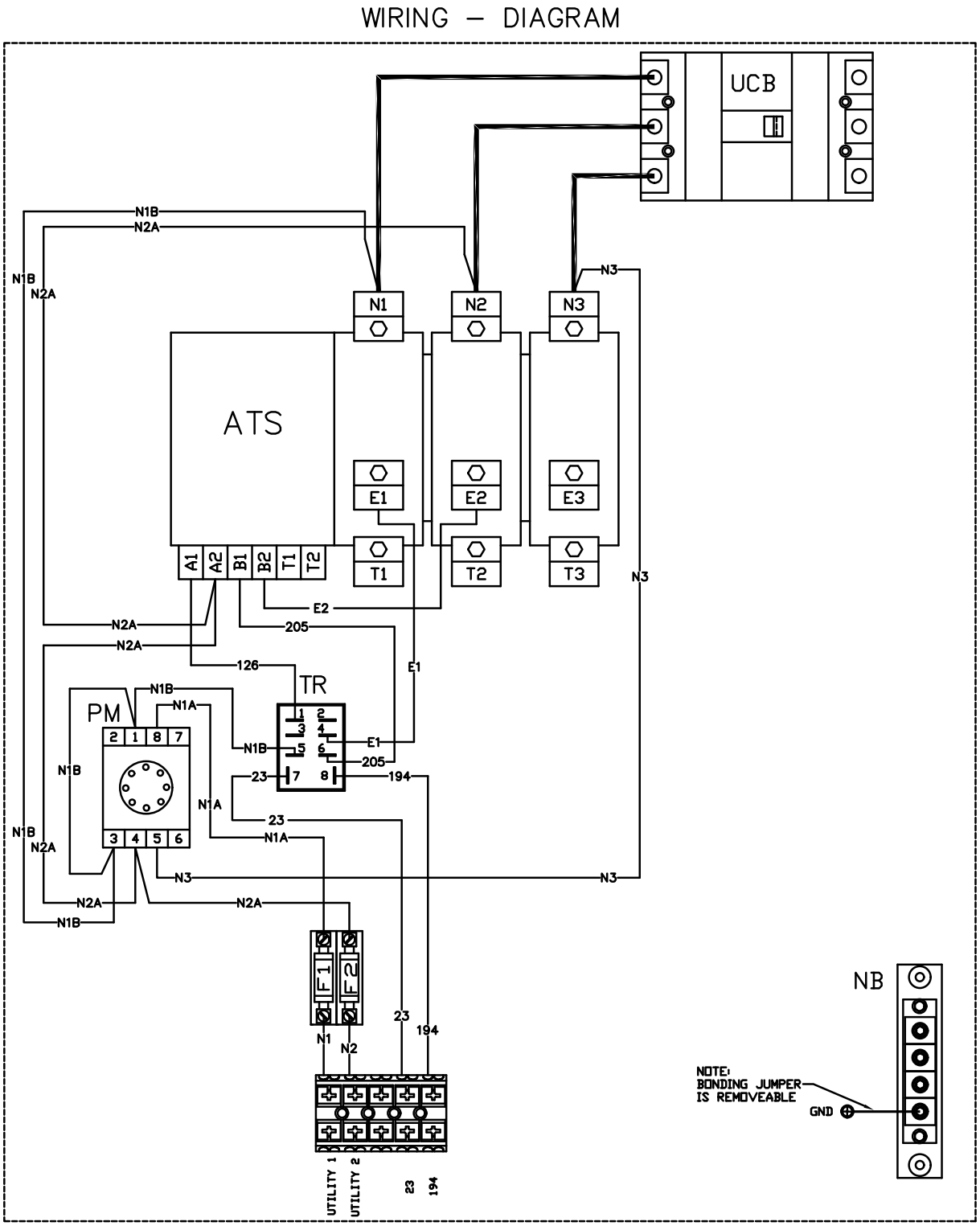
Schematic Diagram—Original Wiring Schematic



REVISION: "A"
DATE: 08/25/15

WIRING - DIAGRAM
100-400 AMP 240-VAC
DRAWING #: 0L2832

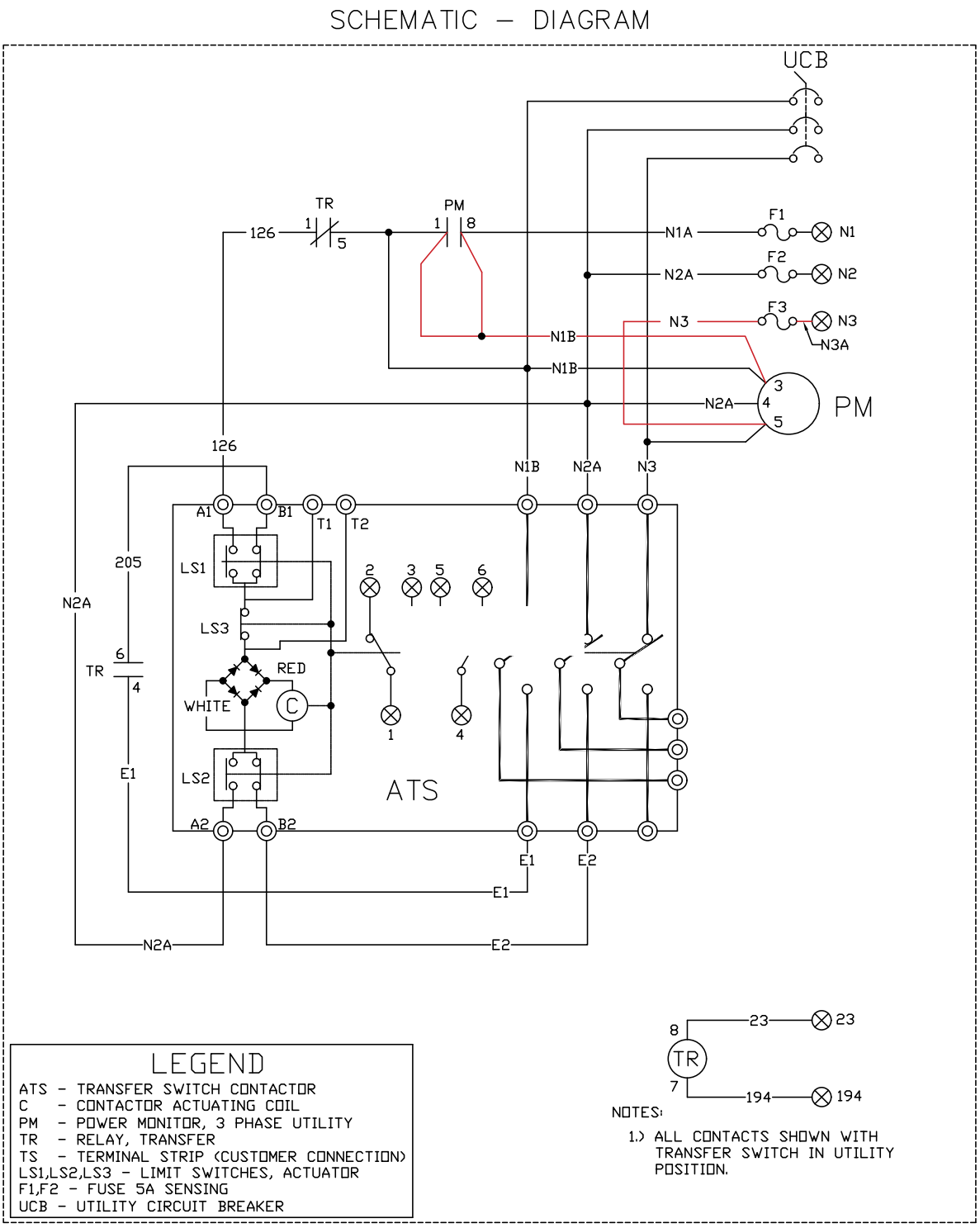
Wiring Diagram—Original Wiring Diagram



REVISION: "A"
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WIRING - DIAGRAM
100-400 AMP 240-VAC
DRAWING #: 0L2832

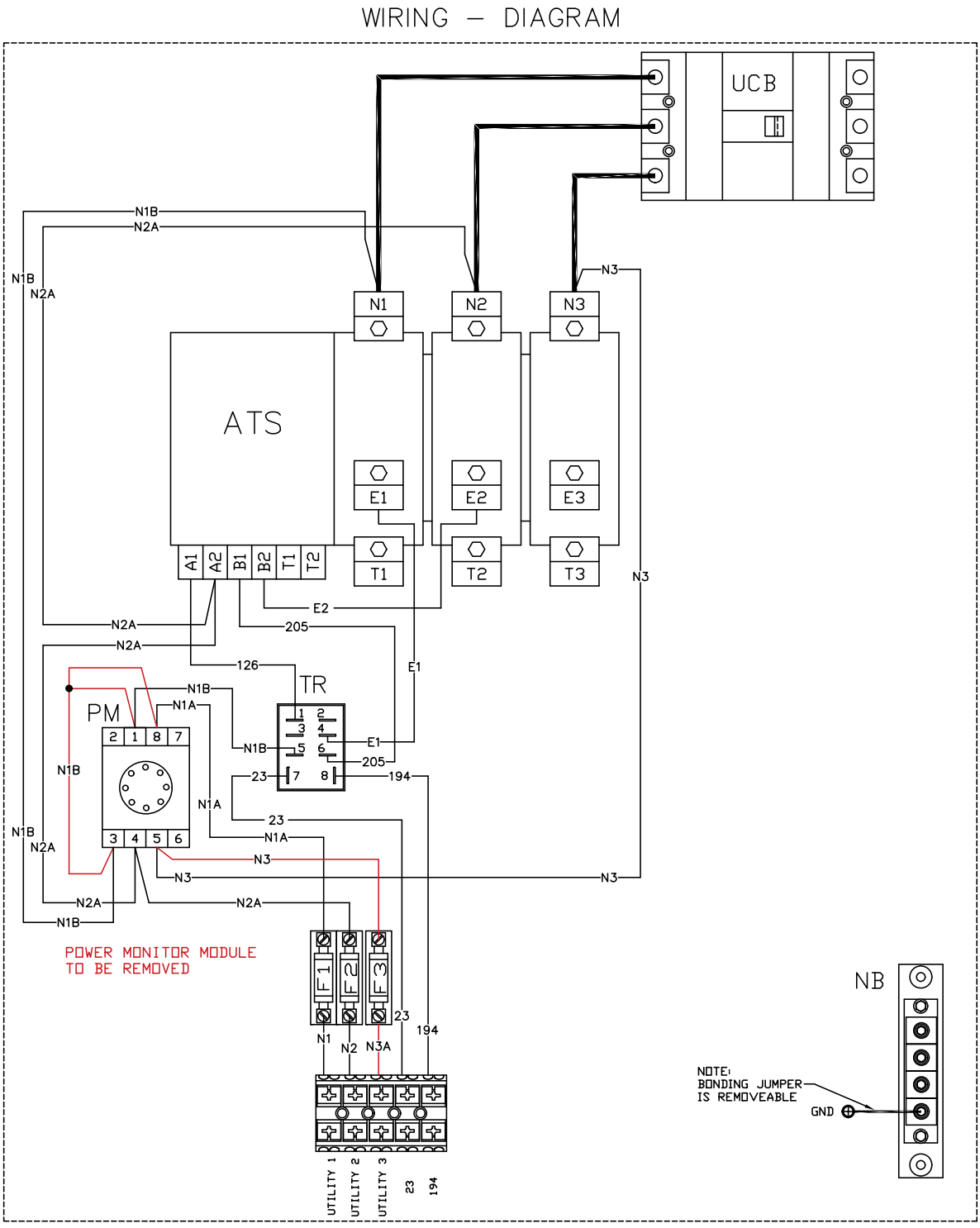
Schematic Diagram—After Installing Phase Sense Kit



REVISION: "A"
DATE: 08/25/15

WIRING - DIAGRAM
100-400 AMP 240-VAC with Phase Sense Kit Installed
DRAWING #: 0L2832

Wiring Diagram—After Installing Phase Sense Kit



REVISION: "A"
DATE: 08/25/15

WIRING - DIAGRAM
100-400 AMP 240-VAC with Phase Sense Kit Installed
DRAWING #: 0L2832

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