

MVVSD0500R_ -84
 MVVSD0600R_ -84
 MVVSD0700R_ -84
 MVVSD0800R_ -84
 MVVSD0900R_ -84

T = YT UNITS
 K = YK UNITS

| NO | DRAWING NO | REV | DRAWING DESCRIPTION |
|----|------------|-----|--------------------------------|
| 00 | 1808JC00 | 2 | MEDIUM VOLTAGE FLOOR MOUNT VFD |
| 01 | --- | -- | ---- |
| 02 | --- | -- | ---- |
| 03 | 1808JC03 | 0 | GROUNDING PROCEDURE |
| 04 | --- | -- | ---- |
| 05 | 1808JC05 | 0 | RATING SHEET |
| 06 | --- | -- | ---- |
| 07 | 1808JC07 | 0 | ONE-LINE DIAGRAM |
| 08 | --- | -- | ---- |
| 09 | --- | -- | ---- |
| 10 | 1808JC10 | 1 | THREE-LINE DIAGRAM |
| 11 | 1808JC11 | 0 | MAIN CIRCUIT |
| 12 | 1808JC12 | 0 | RECTIFIER CIRCUIT |
| 13 | --- | -- | ---- |
| 14 | --- | -- | ---- |
| 15 | 1808JC15 | 0 | CONTROL POWER AND FAN CIRCUITS |

| NO | DRAWING NO | REV | DRAWING DESCRIPTION |
|----|------------|-----|-------------------------------------|
| 16 | 1808JC16 | 1 | PCB INTERCONNECTION (1) |
| 17 | 1808JC17 | 0 | PCB INTERCONNECTION (2) |
| 18 | 1808JC18 | 0 | EXTERNAL I/O (1) |
| 19 | 1808JC19 | 0 | EXTERNAL I/O (2) |
| 20 | 1808JC20 | 0 | CONTROL CIRCUIT |
| 21 | --- | -- | ---- |
| 22 | --- | -- | ---- |
| 23 | --- | -- | ---- |
| 24 | --- | -- | ---- |
| 25 | --- | -- | ---- |
| 26 | --- | -- | ---- |
| 27 | --- | -- | ---- |
| 28 | 1808JC28 | 1 | CHILLER SYSTEM TERMINAL CONNECTIONS |
| 29 | --- | -- | ---- |
| 30 | 1808JC30 | 0 | ENCLOSURE OUTLINE |
| 31 | --- | -- | ---- |

| REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. |
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| 2 | 05/22/08 | REVISED | | | | 9 | | | | | | 16 | | | | | |
| 1 | 02/05/08 | REVISED | | | | 8 | | | | | | 15 | | | | | |
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DIMENSIONS ARE IN INCHES
 DO NOT SCALE
 TOLERANCES PER ENG. STD. M-282
 WELDING PER ENG. STD. M-30
 REF. DWG.

MEDIUM VOLTAGE
 VFD FLOOR MOUNT
 FRAME 0 4160V

MATERIAL
 TYPE _____ ENG. STD. _____
 PART NO. _____
 CUT SIZE _____

DR. _____ DATE _____ SIZE _____ CAGE NO _____ DRAWING NUMBER 1808JC00
 APPR. _____
 SCALE: _____

WT. = _____ LBS. ORIG. NO. _____ SHEET 1 of 15

**STANDARD PANEL GROUNDING PROCEDURES
TO BE FOLLOWED AT INSTALLATION**

SCOPE

THIS DRAWING WILL DOCUMENT PROCEDURES WHICH ARE TO BE FOLLOWED BY CUSTOMER'S CONTRACTOR WHEN INSTALLING INDUSTRIAL DRIVE AND MOTOR SYSTEMS

IN ORDER TO UNDERSTAND THE REASONS FOR MANY OF THE PRACTICES THAT ARE RECOMMENDED, IT IS HELPFUL TO SEGREGATE THESE PRACTICES INTO TWO CATEGORIES AS FOLLOWS:

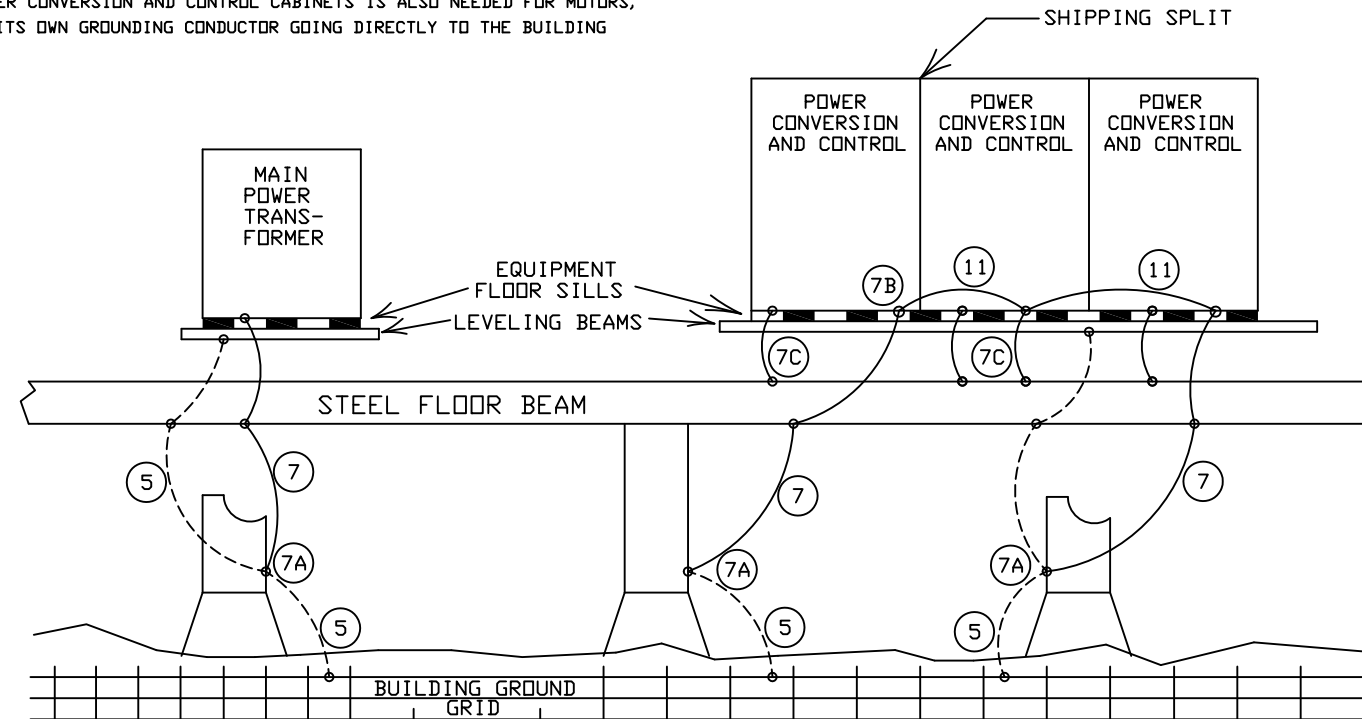
- 1) THOSE GENERALLY REFERRED TO AS EQUIPMENT GROUNDING PRACTICES WHOSE PURPOSES ARE:
 - TO PROTECT AGAINST THE RISK OF ELECTRICAL SHOCK OR BURN.
 - TO PROTECT THE EQUIPMENT FROM FIRE OR OTHER DAMAGE DUE TO GROUND FAULTS OR LIGHTNING STRIKES.
 THESE PRACTICES WOULD TYPICALLY BE FOLLOWED BY THE CONTRACTOR IN COMPLIANCE WITH NEC OR OTHER CODE REQUIREMENTS.
- 2) THOSE PRACTICES WHICH MAKE THE EQUIPMENT IMMUNE TO ELECTRICAL NOISE ORIGINATING WITHIN OR OUTSIDE THE EQUIPMENT. THESE COMPLEMENT THE EQUIPMENT GROUNDING AND LEVEL WIRING PRACTICES IN PROVIDING NOISE IMMUNITY.

EQUIPMENT GROUNDING

- 1) ALL METAL BUILDING STRUCTURES SUCH AS COLUMNS, FLOOR BEAMS, ETC. SHOULD BE GROUNDED BY AN INTERCONNECTING HEAVY GROUND CABLE (5) IN ACCORDANCE WITH RECOMMENDED BUILDING PRACTICES AND LOCAL CODES.
- 2) ALL ELECTRICAL JOINTS AND CONNECTIONS TO THE BUILDING STRUCTURES SHOULD BE BRAZED OR EXOTHERMIC WELDED TO ASSURE THAT THE REQUIRED GOOD ELECTRICAL AND MECHANICAL PROPERTIES DO NOT DETERIORATE WITH THE PASSAGE OF TIME.
- 3) ALL PANELS SHOULD BE GROUNDED AT LEAST ONE POINT USING A HEAVY SAFETY CABLE (7). PANELS GREATER THAN 15 FT LONG SHOULD BE GROUNDED AT BOTH ENDS. THE GROUND CABLE NEEDS TO BE AT LEAST 1/0 AVG FOR MECHANICAL REASONS AND NEED NOT BE GREATER THAN 500 MCM. THIS CABLE IS USUALLY NON-INSULATED.
- 4) THE SAFETY GROUND CABLE (7) SHOULD BE BRAZED OR EXOTHERMIC WELDED (7A) TO A BUILDING STEEL STRUCTURE THAT IS CLOSEST TO THE PANEL, PREFERABLY WITHIN 25 FT.
- 5) THE EQUIPMENT END (7B) SHOULD BE BOLTED OR BRAZED TO A GROUND TERMINATION POINT ON THE PANEL.
- 6) THE EQUIPMENT GROUNDING TERMINAL IS A COPPER GROUND BUS OR STUB BUS BONDED TO THE PANEL ENCLOSURE USING BRAZING OR BOLTING IN SUCH MANNER THAT THE CONDUCTING PATH HAS A RESISTANCE OF 0.1 OHMS OR LESS.
- 7) THE GROUNDING CONDUCTORS MUST BE CAPABLE OF HANDLING ANTICIPATED GROUND FAULT CURRENTS.
- 8) THERE SHOULD BE A JUMPER CABLE (11) ACROSS THE GROUND BUS FLOOR SILL BETWEEN ANY SHIPPING SPLITS AND SIZED THE SAME AS THE SAFETY GROUND UNLESS OTHERWISE SPECIFIED.
- 9) THE PROTECTIVE GROUNDING DESCRIBED ABOVE FOR POWER CONVERSION AND CONTROL CABINETS IS ALSO NEEDED FOR MOTORS, TRANSFORMERS AND REACTORS. EACH OF THESE SHOULD HAVE ITS OWN GROUNDING CONDUCTOR GOING DIRECTLY TO THE BUILDING GROUND GRID.

GROUNDING PROCEDURES NEEDED TO ENSURE ELECTRICAL NOISE IMMUNITY

- 1) LEVELING BEAMS, STEEL MESH, GALVANIZED FLOOR, DECKING, ETC. SHOULD BE INSTALLED PRIOR TO PLACING THE EQUIPMENT. THESE SHOULD BE CONNECTED TO THE BUILDING GROUND SYSTEM USING A BRAZING OR EXOTHERMIC WELDING PROCESS.
- 2) GROUNDING LEVELING BEAMS ARE NOT AN ABSOLUTE NECESSITY FOR SATISFACTORY OPERATION. ON NEW CONSTRUCTION SUCH BEAMS CAN BE PROVIDED WITH LITTLE DIFFICULTY. FOR EXISTING CONSTRUCTION IT USUALLY WILL BE MORE DIFFICULT, IN WHICH CASE THE LEVELING BEAMS MAY BE DISPENSED WITH, PROVIDED OTHER GROUNDED STRUCTURES SUCH AS COLUMNS AND FLOOR BEAMS ARE WITHIN 10 FEET OF THE EQUIPMENT.
- 3) AFTER SETTING THE CONTROL PANELS IN PLACE, THE PERIPHERY OF THE CONTROL PANELS SHOULD BE SPOT WELDED TO THE STEEL CHANNELS APPROXIMATELY EVERY 18 INCHES. THIS CREATES A VERY GOOD HIGH FREQUENCY GROUND PLANE. CARE SHOULD BE TAKEN TO AVOID ELECTRONIC COMPONENT DAMAGE DURING THE WELDING PROCESS BY KEEPING THE WELDED RETURN PATH AS CLOSE AS POSSIBLE TO THE WORK POSITION. THAT IS, THE RETURN PATH SHOULD ALWAYS BE WITHIN 3 FEET OF THE ELECTRODE.
- 4) IF LEVELING BEAMS ARE NOT INSTALLED, A NUMBER OF GROUNDING CABLES (7C) SHOULD BE RUN FROM THE GROUND LUGS PROVIDED ON THE PANEL TO THE NEAREST GROUNDED COLUMN OR FLOOR BEAM, OR WIRE FLOOR MESH, ETC. THIS WILL PROVIDE THE NECESSARY HIGH FREQUENCY GROUND PLANE.



| REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. |
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YORK, PA 17405

GROUNDING PROCEDURE

TYPE _____ ENG. STD. _____
PART NO. _____
CUT SIZE _____

DR. _____ DATE _____ SIZE D CAGE NO. _____ DRAWING NUMBER 1808JC03
APPR. _____
SCALE: _____

WT. = _____ LBS. ORIG. NO. _____ SHEET 2 of 15

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| COMPONENT RATING | | | |
|------------------|----------------------|-----------------------------|-------------|
| SHEET NUMBER | COMPONENT | MVSD0500R_-84 ~ 0900R_-84 | |
| | | RATING | |
| 5 | 10LA | 6kV | |
| | 10ISW1 | 360A, 6.6kV | |
| | 10FU1~3 | SEE TABLE A | |
| | 10M1 | 360A, 6.6kV | |
| | 10M1A | 360A, 6.6kV | |
| | 10ACL | 40mH | |
| | 10F4~7 | 2E, 4.8kV | |
| | 10PT1~2 | 500VA, 4200:120V | |
| | 10CPT | SEE TABLE A | |
| | 10F8~10 | 3E, 4.8kV | |
| | 10F12~14 | SEE TABLE A | |
| | 10F15 | 20A, 600Vac | |
| | 6 | HCTU,HCTW | 200A:100mA |
| | | 11T1 | SEE TABLE A |
| 11R11 | | 100k ohm, 225W | |
| GDI | | --- | |
| 7 | FUSE | SEE TABLE A | |
| | DIODE | 2200V, 160A | |
| | POWER MODULE (U,V,W) | ±1800Vdc, 124A | |
| 8 | 15MCB1 | 15A, 600V | |
| | 15V1 | 480V, 2a2b | |
| | 15MS1~2 | 1.6~2.5A, 480V (set @ 2.3A) | |
| | 15MOV1~3 | 625V, 230J | |
| | 15FN1~2 | 460V, 1.2kW | |
| | 15MCB2 | 240Vac, 20A, 2P | |
| | 15F1~2 | 5A, 600Vac | |
| | PDM | --- | |
| | 15PS1 | 120/240:+5,+/-15,24V,80W | |
| | 15DS1 | 10A, 600V | |
| | VX | 25A, 4a4b/2a2b, 120Vac | |
| 9 | CTR | --- | |
| | GSD | --- | |
| | 16R1,3 | SEE TABLE A | |
| | 16R2,4 | SEE TABLE A | |
| | MODBUS | ETHERNET/RTU (RS485) | |
| 10 | IPAD | --- | |
| | DISP | G7A | |
| | XIO | --- | |
| 11 | BLR | 24Vdc, 4a4b | |
| | FLT,INPC | 24Vdc, 2a2b | |
| 13 | EXT | 115V, 4a4b | |

| MODEL NUMBER | MOTOR HP | DRIVE FLA | OIL PUMP TYPE | 10FU1~3 | 10CPT | 10F12~14 | 11T1 | FUSE | 16R1,3 | 16R2,4 |
|---------------|----------|-----------|---------------|-------------|--------------------------|----------|-----------------------|------------|----------------|----------------|
| | | | | RATING | RATING | RATING | RATING | RATING | RATING | RATING |
| MVSD0500RT-84 | 500 | 62 | YT | 80E, 5.5KV | 4160:460V-2KVA,115V-2KVA | 5A, 600V | 449kVA,4160V:635V(12) | 700V, 100A | 50 ohm, 3W, 1% | 40 ohm, 3W, 1% |
| MVSD0500RK-84 | 500 | 62 | YK | 80E, 5.5KV | 4160:460V-3KVA,115V-2KVA | 7A, 600V | 449kVA,4160V:635V(12) | 700V, 100A | 50 ohm, 3W, 1% | 40 ohm, 3W, 1% |
| MVSD0600RT-84 | 600 | 74 | YT | 100E, 5.5KV | 4160:460V-2KVA,115V-2KVA | 5A, 600V | 534kVA,4160V:635V(12) | 700V, 100A | 50 ohm, 3W, 1% | 25 ohm, 3W, 1% |
| MVSD0600RK-84 | 600 | 74 | YK | 100E, 5.5KV | 4160:460V-3KVA,115V-2KVA | 7A, 600V | 534kVA,4160V:635V(12) | 700V, 100A | 50 ohm, 3W, 1% | 25 ohm, 3W, 1% |
| MVSD0700RT-84 | 700 | 87 | YT | 125E, 5.5KV | 4160:460V-2KVA,115V-2KVA | 5A, 600V | 618kVA,4160V:635V(12) | 700V, 125A | 35 ohm, 3W, 1% | 30 ohm, 3W, 1% |
| MVSD0700RK-84 | 700 | 87 | YK | 125E, 5.5KV | 4160:460V-3KVA,115V-2KVA | 7A, 600V | 618kVA,4160V:635V(12) | 700V, 125A | 35 ohm, 3W, 1% | 30 ohm, 3W, 1% |
| MVSD0800RT-84 | 800 | 99 | YT | 150E, 5.5KV | 4160:460V-2KVA,115V-2KVA | 5A, 600V | 703kVA,4160V:635V(12) | 700V, 125A | 32 ohm, 3W, 1% | 25 ohm, 3W, 1% |
| MVSD0800RK-84 | 800 | 99 | YK | 150E, 5.5KV | 4160:460V-3KVA,115V-2KVA | 7A, 600V | 703kVA,4160V:635V(12) | 700V, 125A | 32 ohm, 3W, 1% | 25 ohm, 3W, 1% |
| MVSD0900RT-84 | 900 | 112 | YT | 150E, 5.5KV | 4160:460V-2KVA,115V-2KVA | 5A, 600V | 788kVA,4160V:635V(12) | 700V, 150A | 25 ohm, 3W, 1% | 25 ohm, 3W, 1% |
| MVSD0900RK-84 | 900 | 112 | YK | 150E, 5.5KV | 4160:460V-3KVA,115V-2KVA | 7A, 600V | 788kVA,4160V:635V(12) | 700V, 150A | 25 ohm, 3W, 1% | 25 ohm, 3W, 1% |

| REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. |
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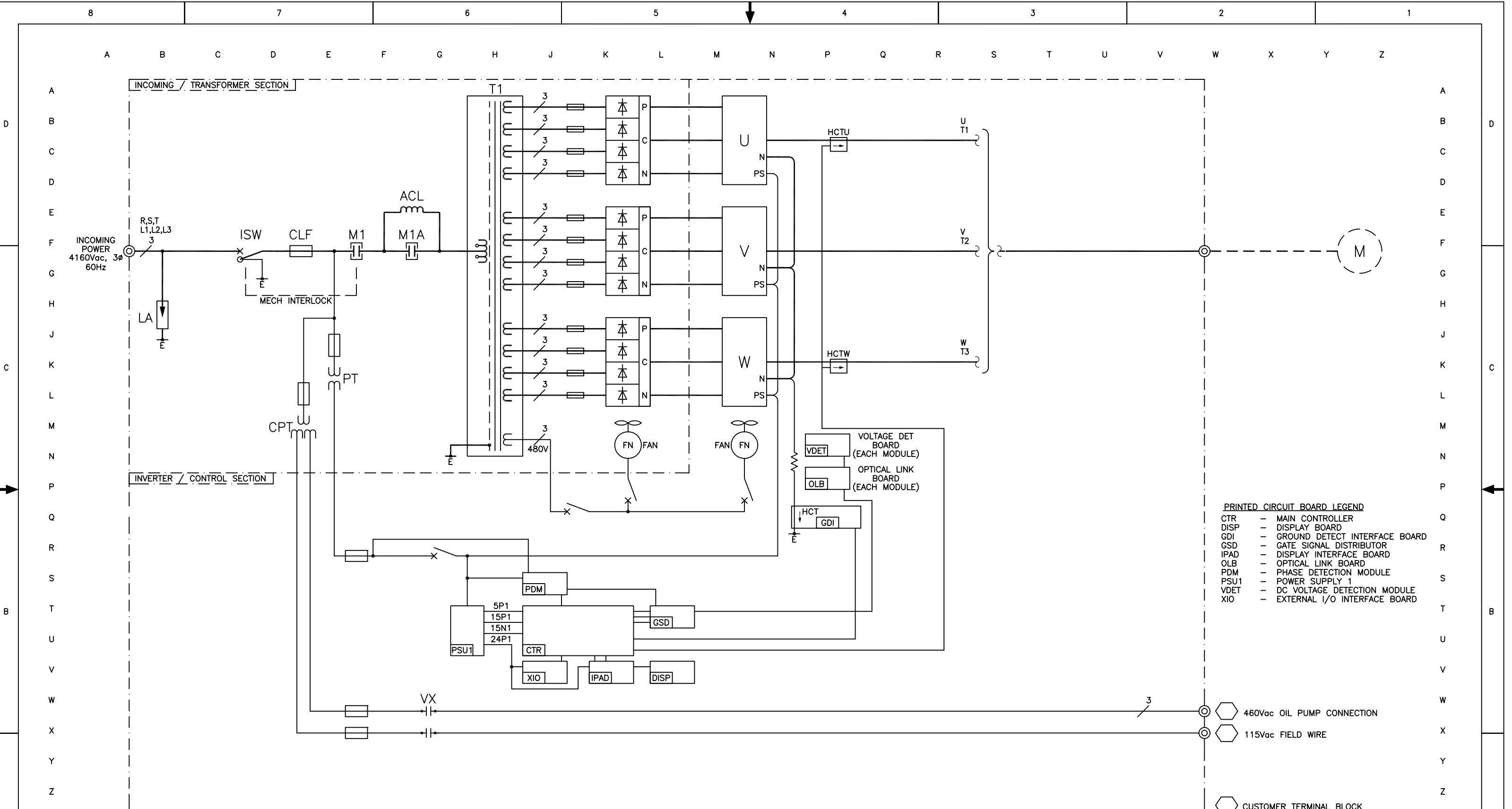
DIMENSIONS ARE IN INCHES
DO NOT SCALE
TOLERANCES PER ENG. STD. M-282
WELDING PER ENG. STD. M-30
REF. DWG.

RATING SHEET, COMPONENTS

MATERIAL
TYPE _____ ENG. STD. _____
PART NO. _____
CUT SIZE _____

DR. _____ DATE _____ SIZE **D** CAGE NO _____ DRAWING NUMBER **1808JC05**

APPR. _____ SCALE _____ WT. = _____ LBS. ORIG. NO. _____ SHEET **3 of 15**



- PRINTED CIRCUIT BOARD LEGEND**
- CTR - MAIN CONTROLLER
 - DISP - DISPLAY BOARD
 - GDI - GROUND DETECT INTERFACE BOARD
 - GSD - GATE SIGNAL DISTRIBUTOR
 - IPAD - DISPLAY INTERFACE BOARD
 - OLB - OPTICAL LINK BOARD
 - PDM - PHASE DETECTION MODULE
 - PSU1 - POWER SUPPLY 1
 - VDET - DC VOLTAGE DETECTION MODULE
 - XIO - EXTERNAL I/O INTERFACE BOARD

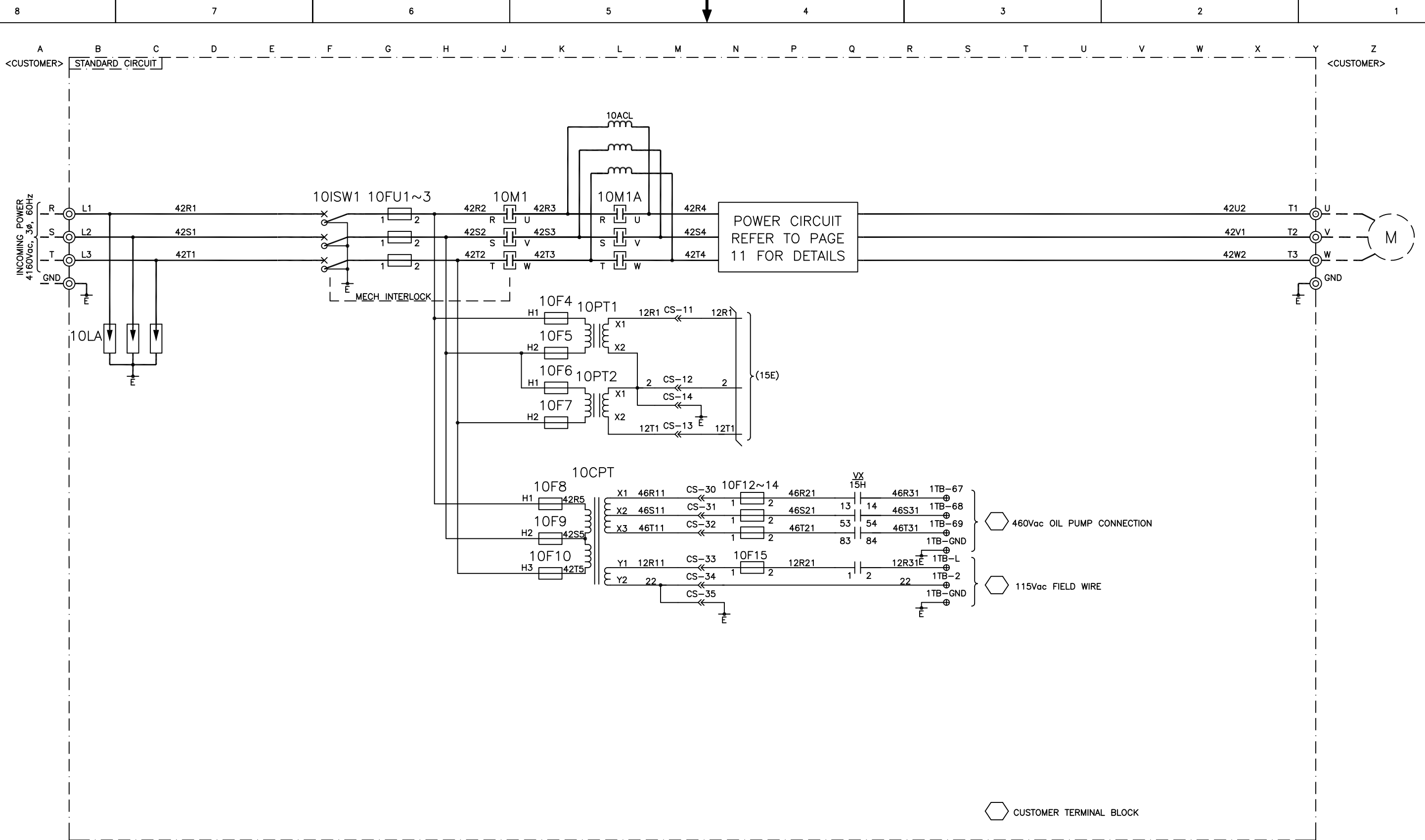
460Vac OIL PUMP CONNECTION
 115Vac FIELD WIRE
 CUSTOMER TERMINAL BLOCK

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| DIMENSIONS ARE IN INCHES DO NOT SCALE TOLERANCES PER ENG. STD. M-282 WELDING PER ENG. STD. M-30 REF. DWG. | | ONE-LINE DIAGRAM | | MATERIAL TYPE _____ ENG. STD. _____ PART NO. _____ CUT SIZE _____ | |
| DR. _____ DATE _____ APPR. _____ | | SIZE D | CAGE NO | DRAWING NUMBER 1808JC07 | |
| SCALE: _____ | | WT. = _____ | LBS. | ORIG. NO. | SHEET 4 of 15 |

| REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. |
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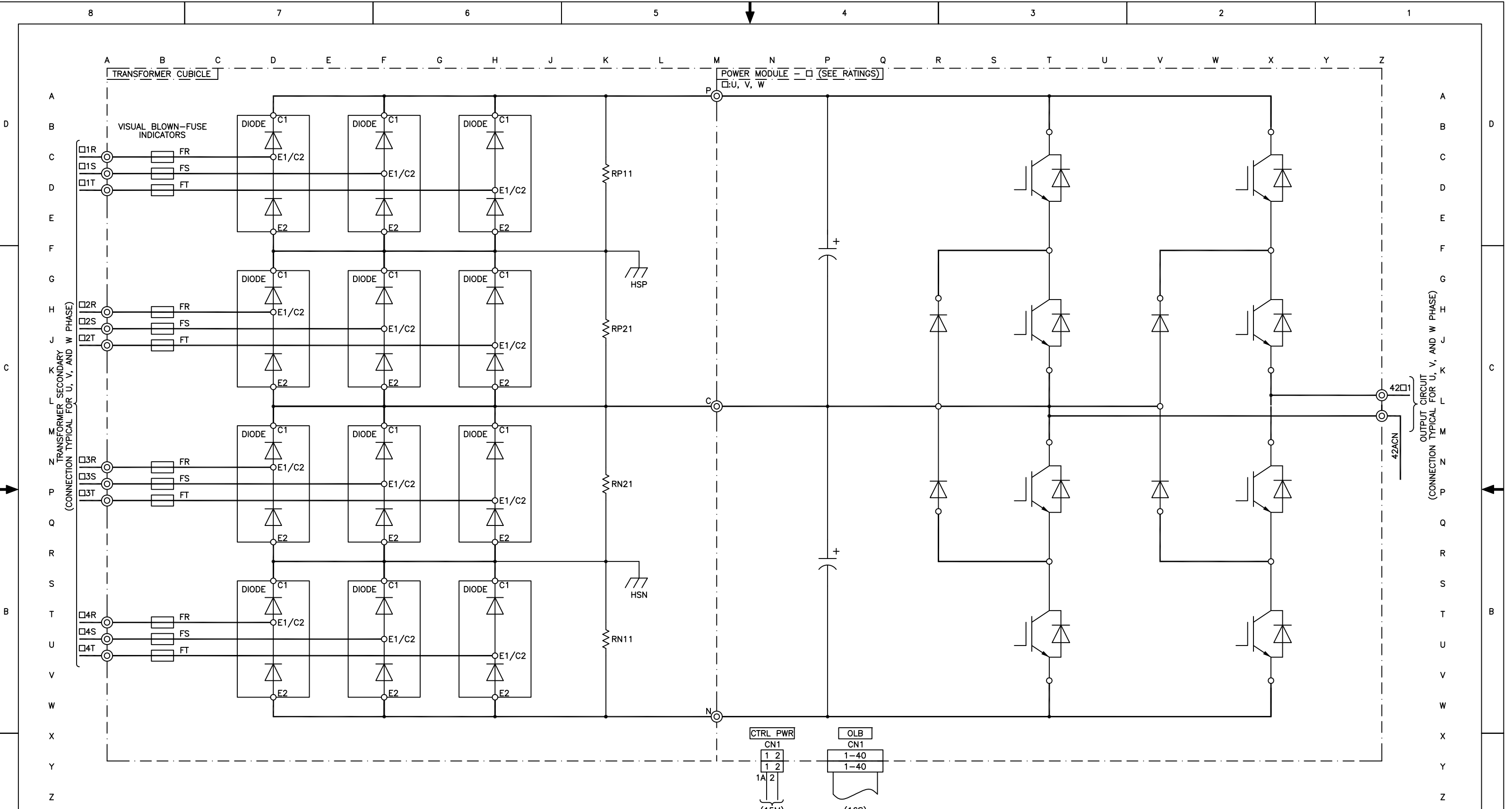


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| DIMENSIONS ARE IN INCHES DO NOT SCALE TOLERANCES PER ENG. STD. M-282 WELDING PER ENG. STD. M-30 REF. DWG. | | THREE-LINE DIAGRAM | | MATERIAL TYPE _____ ENG. STD. _____ PART NO. _____ CUT SIZE _____ | |
| DR. _____ | DATE _____ | SIZE D | CAGE NO _____ | DRAWING NUMBER 1808JC10 | |
| SCALE: _____ | | WT. = _____ | LBS. _____ | ORIG. NO. _____ | SHEET 5 of 15 |

| REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. |
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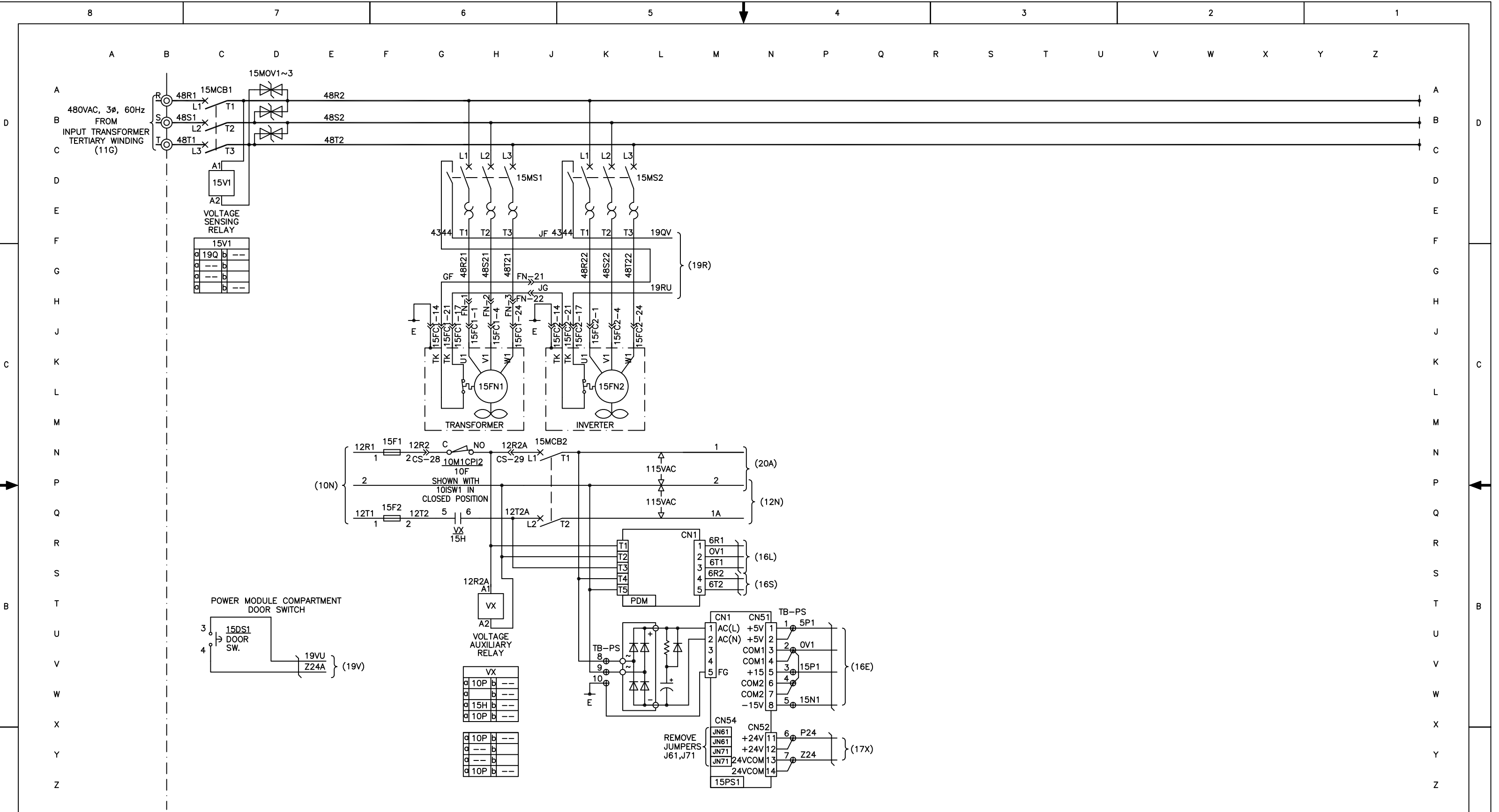
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| RECTIFIER CKT. (ONE PHASE) | | | | | | | | | | | |
| DIMENSIONS ARE IN INCHES DO NOT SCALE TOLERANCES PER ENG. STD. M-282 WELDING PER ENG. STD. M-30 REF. DWG. | | | | | | | | | | | |
| MATERIAL TYPE _____ ENG. STD. _____ PART NO. _____ CUT SIZE _____ | | | | | | | | | | | |
| DR. _____ | | | DATE _____ | | | SIZE D | | | CAGE NO. _____ | | |
| APPR. _____ | | | SCALE _____ | | | DRAWING NUMBER 1808JC12 | | | ORIG. NO. _____ | | |
| WT. = _____ LBS. SHEET 7 of 15 | | | | | | | | | | | |

| REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. |
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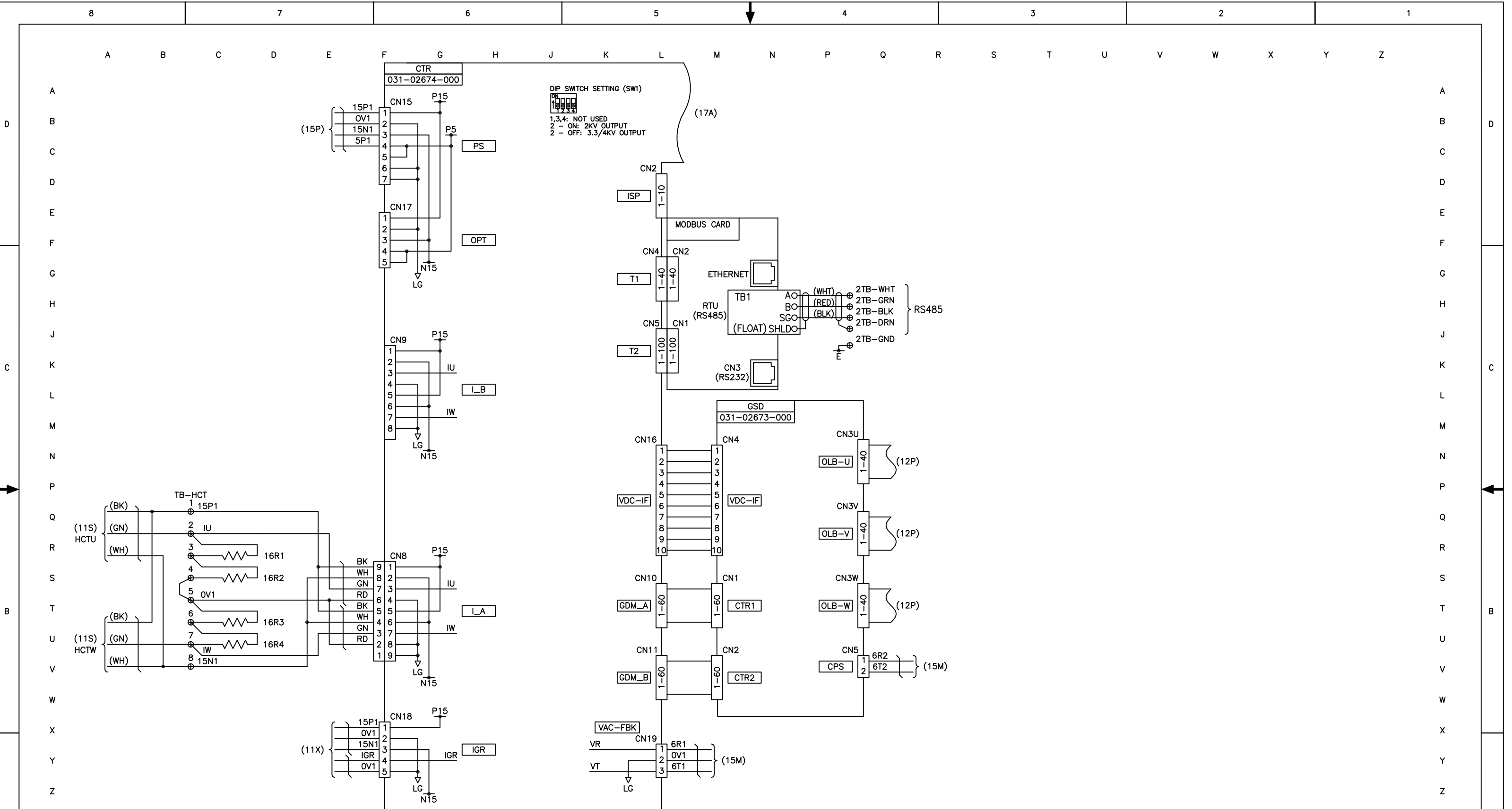
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| YORK INTERNATIONAL CORPORATION YORK, PA . 17405 | | | | | | | | | | | |
| CONTROL POWER AND FANS CIRCUIT | | | | | | | | | | | |
| MATERIAL TYPE _____ ENG. STD. _____ PART NO. _____ CUT SIZE _____ | | | | | | | | | | | |
| DR. _____ APPR. _____ SCALE: _____ | | | NAME _____ DATE _____ | | | SIZE _____ CAGE NO _____ | | | DRAWING NUMBER 1808JC15 | | |
| WT. = _____ | | | LBS. _____ | | | ORIG. NO. _____ | | | SHEET 8 of 15 | | |

| REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. |
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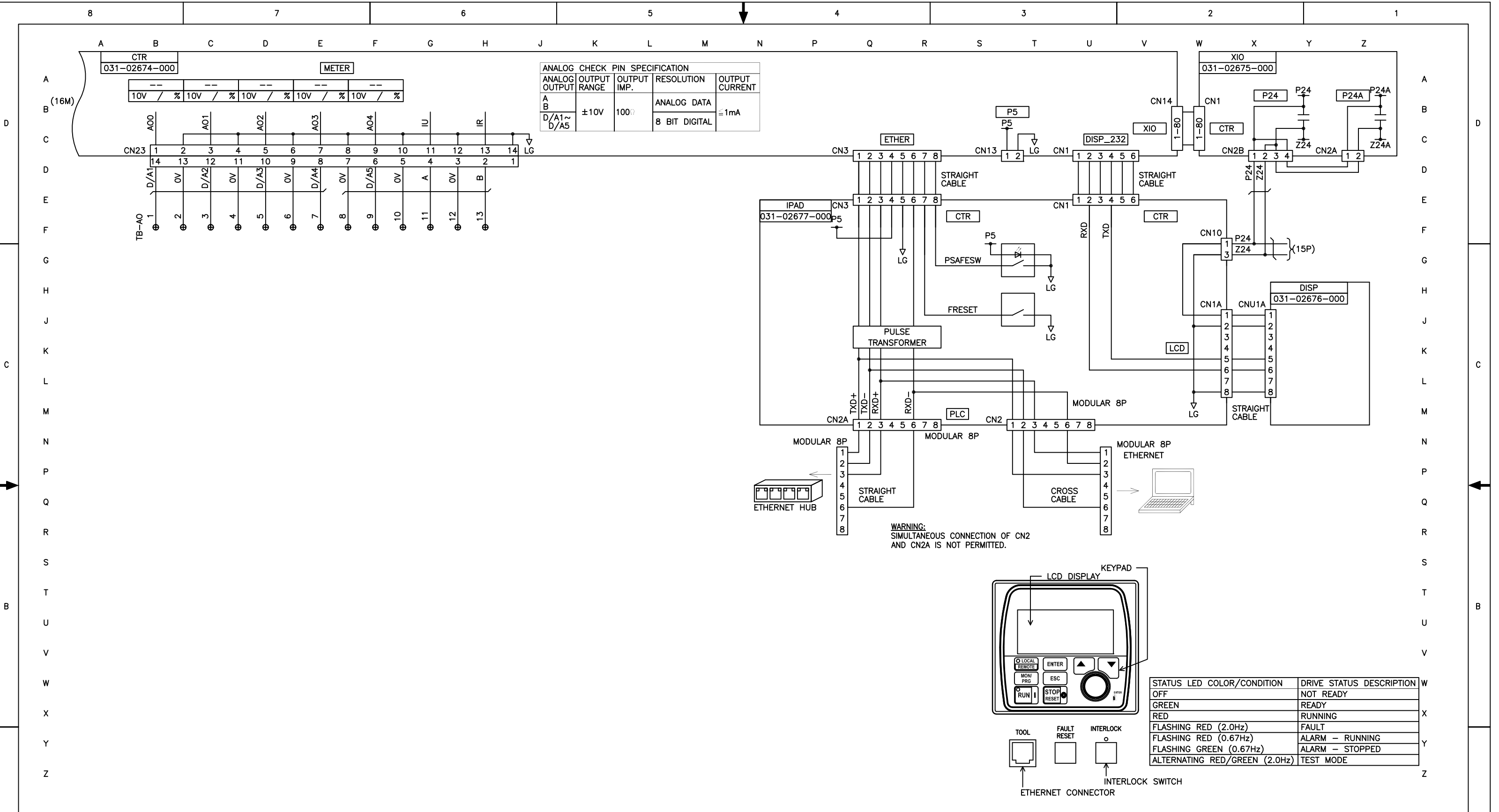


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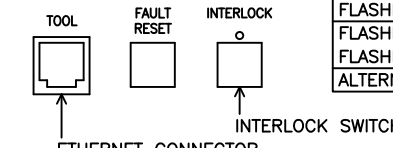
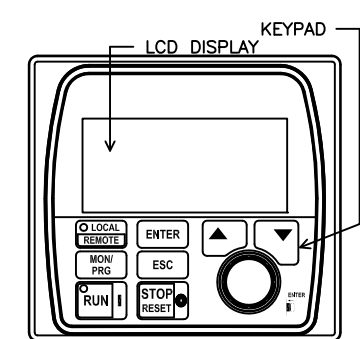
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| DIMENSIONS ARE IN INCHES DO NOT SCALE TOLERANCES PER ENG. STD. M-282 WELDING PER ENG. STD. M-30 REF. DWG. | | PCB (1) INTERCONNECTION | | MATERIAL TYPE _____ ENG. STD. _____ PART NO. _____ CUT SIZE _____ | |
| DR. _____ | DATE _____ | SIZE D | CAGE NO _____ | DRAWING NUMBER 1808JC16 | |
| WT. = _____ | | LBS. _____ | ORIG. NO. _____ | SHEET 9 of 15 | |

| REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. |
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| 1 | 02/05/08 | REMOVED 2TB JUMPER & RES | | | OB AL | 8 | | | | | | 15 | | | | | |
| 0 | 06/17/06 | FIRST ISSUE | | | OB AL | 7 | | | | | | 14 | | | | | |

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| DIMENSIONS ARE IN INCHES DO NOT SCALE TOLERANCES PER ENG. STD. M-282 WELDING PER ENG. STD. M-30 REF. DWG. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| PCB (2) INTERCONNECTION | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MATERIAL TYPE _____ ENG. STD. _____ PART NO. _____ CUT SIZE _____ | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NAME _____ DATE _____ | | | SIZE _____ | | | CAGE NO _____ | | | DRAWING NUMBER 1808JC17 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DR. _____ | | | SCALE: _____ | | | WT. = _____ LBS. | | | ORIG. NO. _____ SHEET 10 of 15 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>REV. LEV.</th> <th>DATE</th> <th>REVISION RECORD</th> <th>CHG. NO.</th> <th>DR.</th> <th>CK.</th> <th>REV. LEV.</th> <th>DATE</th> <th>REVISION RECORD</th> <th>CHG. NO.</th> <th>DR.</th> <th>CK.</th> <th>REV. LEV.</th> <th>DATE</th> <th>REVISION RECORD</th> <th>CHG. NO.</th> <th>DR.</th> <th>CK.</th> </tr> </thead> <tbody> <tr> <td>6</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>13</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>20</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>5</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>12</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>19</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>4</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>11</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>18</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>3</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>10</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>17</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>2</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>16</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>8</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>15</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>0</td> <td>05/17/06</td> <td>FIRST ISSUE</td> <td></td> <td></td> <td></td> <td>7</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>14</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </tbody> </table> | | | | | | | | | | | | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | 6 | | | | | | 13 | | | | | | 20 | | | | | | 5 | | | | | | 12 | | | | | | 19 | | | | | | 4 | | | | | | 11 | | | | | | 18 | | | | | | 3 | | | | | | 10 | | | | | | 17 | | | | | | 2 | | | | | | 9 | | | | | | 16 | | | | | | 1 | | | | | | 8 | | | | | | 15 | | | | | | 0 | 05/17/06 | FIRST ISSUE | | | | 7 | | | | | | 14 | | | | | |
| REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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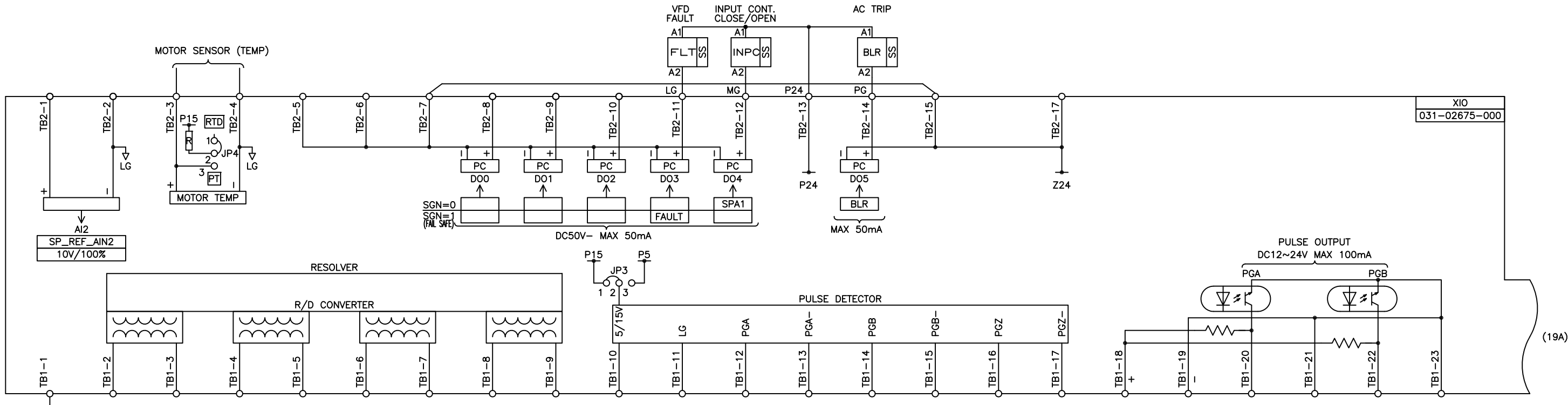
WARNING:
SIMULTANEOUS CONNECTION OF CN2
AND CN2A IS NOT PERMITTED.

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A B C D E F G H J K L M N P Q R S T U V W X Y Z

| XIO JUMPER SETTINGS | | | |
|---------------------|---|------------|---------|
| JUMPER | EXPLANATION | SILKSCREEN | SETTING |
| JP3 | Pulse Generator (PG) power supply level selection. "P15" = +15VDC power supply "P5" = +5VDC power supply | P15 | 1-2 |
| | | P5 | 2-3 |
| JP4 | Motor temperature sensor type selection. External transducer required when using 100 ohm sensor. "PT" = 1k ohm platinum motor temperature sensor "RTD" = 100 ohm platinum motor temperature sensor | PT | 2-3 |
| | | RTD | 1-2 |

| FLT | | INPC | | BLR | | | |
|-----|-----|------|----|-----|-----|---|----|
| a | 20Y | b | -- | a | 20D | b | -- |
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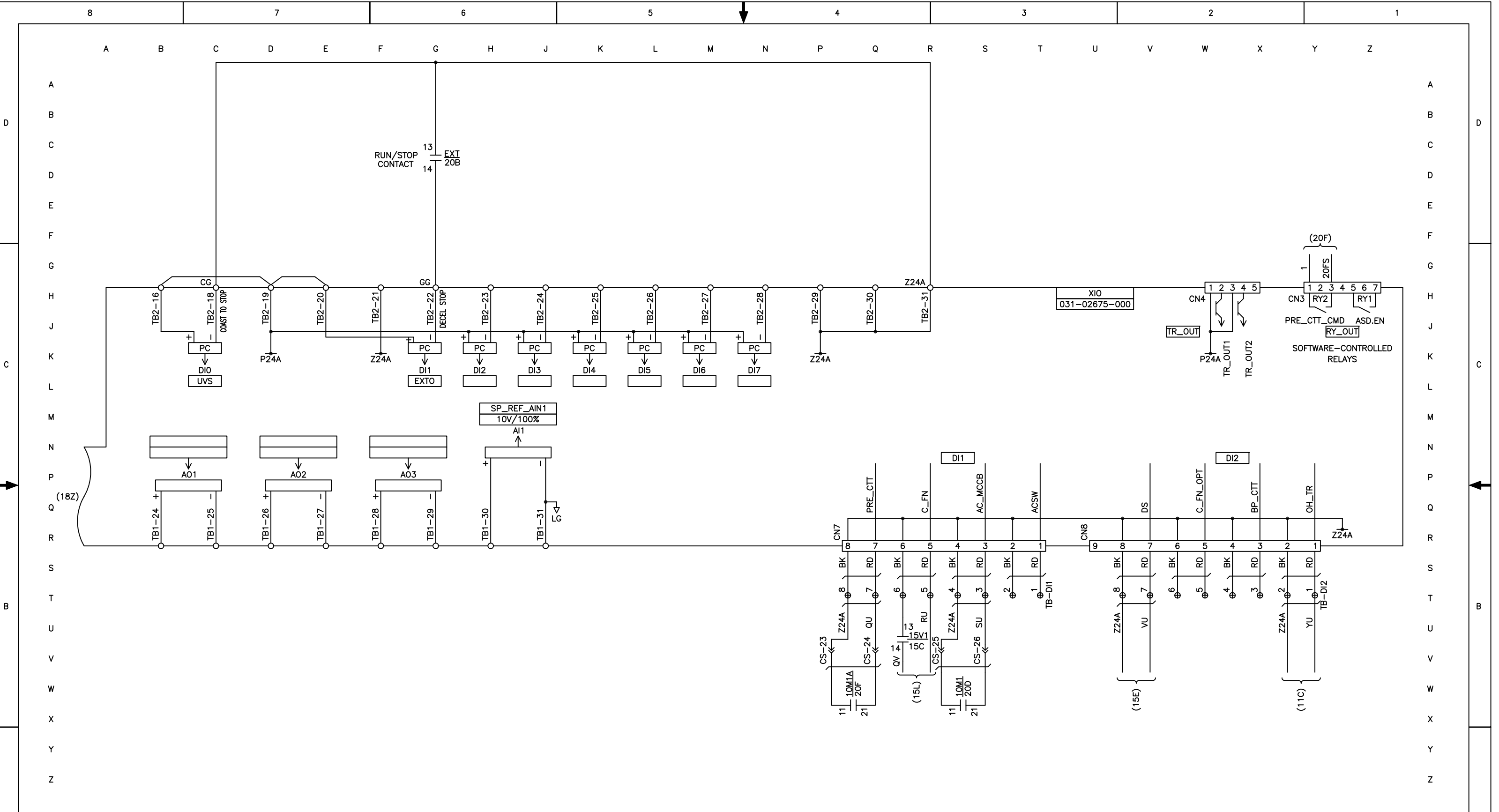
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YORK, PA . 17405

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| DIMENSIONS ARE IN INCHES DO NOT SCALE TOLERANCES PER ENG. STD. M-282 WELDING PER ENG. STD. M-30 REF. DWG. | | EXTERNAL I/O (1) | | MATERIAL TYPE _____ ENG. STD. _____ PART NO. _____ CUT SIZE _____ | |
| DR. _____ | DATE _____ | SIZE D | CAGE NO _____ | DRAWING NUMBER 1808JC18 | |
| APPR. _____ | SCALE _____ | WT. = _____ | LBS. _____ | ORIG. NO. _____ | SHEET 11 of 15 |

| REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. |
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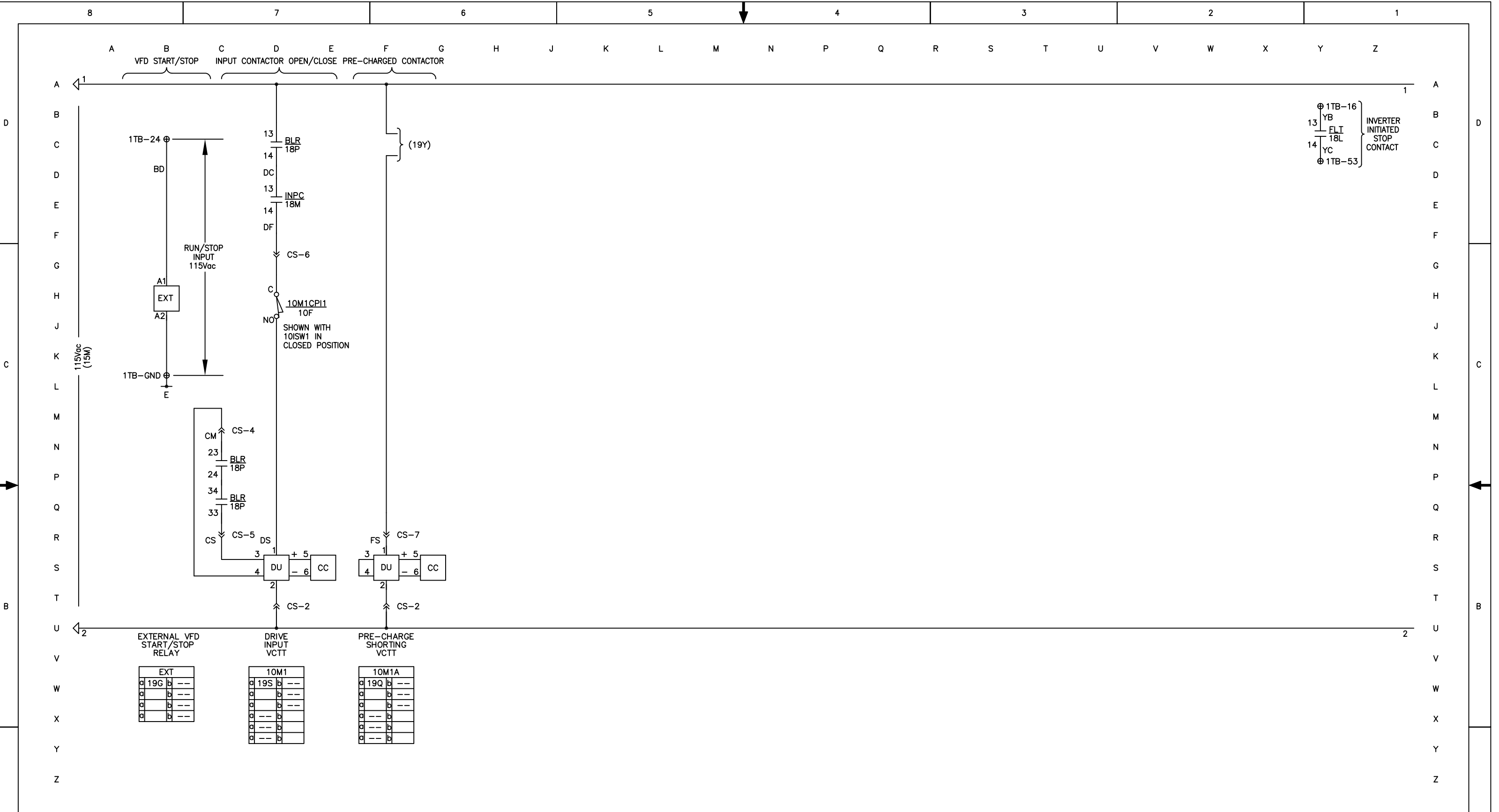
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| YORK INTERNATIONAL CORPORATION YORK, PA . 17405 | | | | | | | | | | | |
| EXTERNAL I/O (2) | | | | | | | | | | | |
| DIMENSIONS ARE IN INCHES DO NOT SCALE TOLERANCES PER ENG. STD. M-282 WELDING PER ENG. STD. M-30 REF. DWG. | | | | | | | | | | | |
| MATERIAL TYPE _____ ENG. STD. _____ PART NO. _____ CUT SIZE _____ | | | | | | | | | | | |
| DR. _____ APPR. _____ SCALE: _____ | | | NAME _____ DATE _____ | | | SIZE D CAGE NO _____ | | | DRAWING NUMBER 1808JC19 | | |
| WT. = _____ LBS. ORIG. NO. _____ SHEET 12 of 15 | | | | | | | | | | | |

| REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. |
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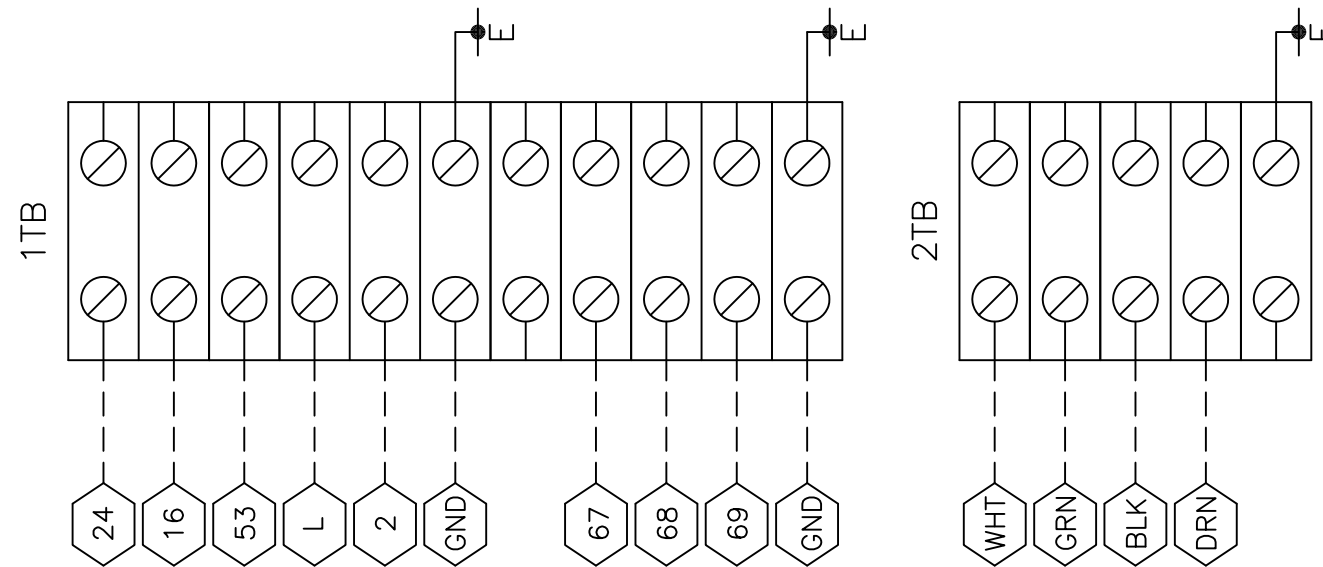
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|---|--|------------------------|-----------------------------|--|--|
| DIMENSIONS ARE IN INCHES DO NOT SCALE TOLERANCES PER ENG. STD. M-282 WELDING PER ENG. STD. M-30 REF. DWG. | | CONTROL CIRCUIT | | MATERIAL TYPE _____ ENG. STD. _____ PART NO. _____ CUT SIZE _____ | |
| DR. _____ DATE _____ APPR. _____ | | D | SIZE _____ CAGE NO _____ | DRAWING NUMBER 1808JC20 | |
| WT. = _____ LBS. | | ORIG. NO. _____ | | SHEET 13 of 15 | |

| REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. |
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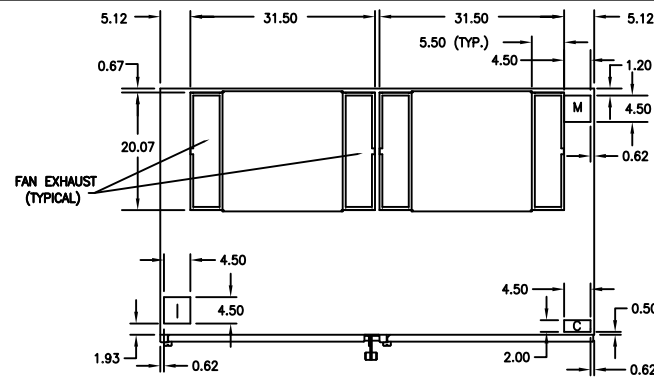
CHILLER SYSTEM INTERFACE



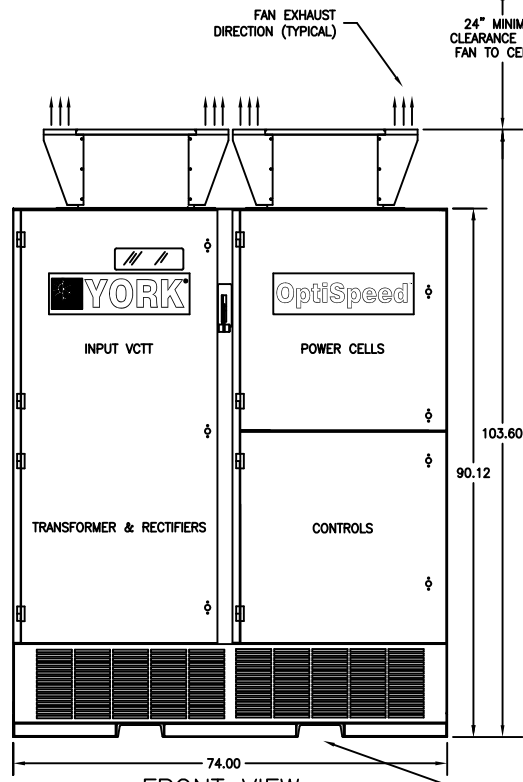
CUSTOMER TERMINAL BLOCK

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| YORK INTERNATIONAL CORPORATION YORK, PA. 17405 | | | |
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| DR. _____ APPR. _____ SCALE: _____ | NAME _____ DATE _____ SIZE D | CAGE NO _____ ORG. NO. _____ | DRAWING NUMBER 1808JC28 SHEET 14 of 15 |
| WT. = _____ LBS. | | | |

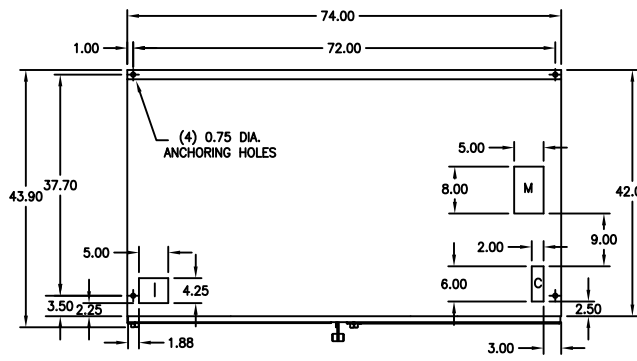
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| 3 | | | | | | 10 | | | | | | 17 | | | | | |
| 2 | | | | | | 9 | | | | | | 16 | | | | | |
| 1 | 02/05/08 | REMOVED 2TB JUMPER | | | OB AL | 8 | | | | | | 15 | | | | | |
| 0 | 05/17/06 | FIRST ISSUE | | | OB AL | 7 | | | | | | 14 | | | | | |



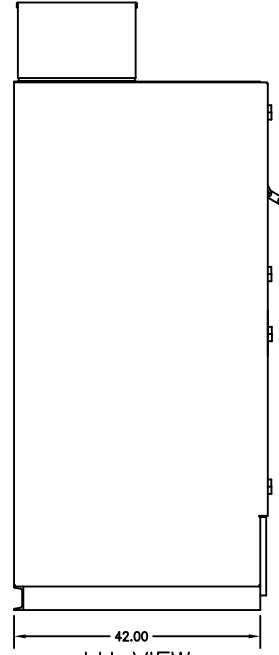
TOP VIEW



FRONT VIEW



FLOOR PLAN VIEW



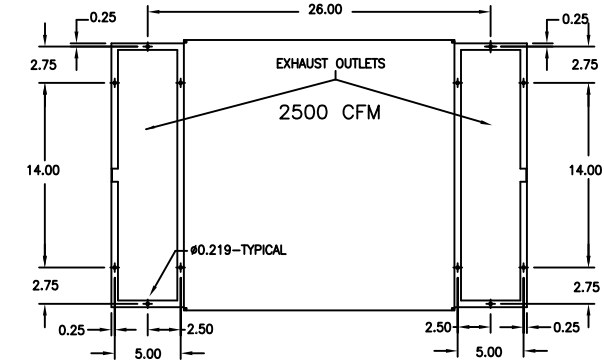
LH VIEW

| CABLE TERMINATIONS | | | |
|--------------------|-----------------|-------------|--------------|
| ENTRY | INCOMING CABLES | MOTOR LEADS | CONTROL WIRE |
| TOP | I | M | C |
| BOTTOM | I | M | C |

INCOMING TERMINATIONS USE NEMA 4-HOLE PATTERN
MOTOR TERMINATIONS USE NEMA 2-HOLE PATTERN

NOTES
 1. ENCLOSURE TYPE: NEMA 1 W/GASKETED DOORS
 2. ALL WEIGHTS ARE APPROXIMATE
 3. ALL DIMS ARE IN INCHES
 4. POWER CELLS NEED TO BE REMOVED FOR ACCESS

| | 500HP | 600HP | 700HP | 800HP | 900HP |
|-----|-----------|-----------|-----------|-----------|-----------|
| VFD | 6,400 lbs | 6,600 lbs | 6,800 lbs | 7,200 lbs | 7,500 lbs |



TYPICAL EXHAUST FAN HOLE PATTERN FOR CUSTOMER DUCTWORK (TOP VIEW)

YORK INTERNATIONAL CORPORATION
YORK, PA . 17405

| | | | | | |
|---|-------------|-------------------|-----------------|--|--|
| DIMENSIONS ARE IN INCHES DO NOT SCALE TOLERANCES PER ENG. STD. M-282 WELDING PER ENG. STD. M-30 REF. DWG. | | OUTLINE ENCLOSURE | | MATERIAL TYPE _____ ENG. STD. _____ PART NO. _____ CUT SIZE _____ | |
| DR. _____ | DATE _____ | SIZE D | CAGE NO _____ | DRAWING NUMBER 1808JC30 | |
| APPR. _____ | SCALE _____ | WT. = _____ LBS. | ORIG. NO. _____ | SHEET 15 of 15 | |

| REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. | REV. LEV. | DATE | REVISION RECORD | CHG. NO. | DR. | CK. |
|-----------|----------|-----------------|----------|-----|-----|-----------|------|-----------------|----------|-----|-----|-----------|------|-----------------|----------|-----|-----|
| 6 | | | | | | 13 | | | | | | 20 | | | | | |
| 5 | | | | | | 12 | | | | | | 19 | | | | | |
| 4 | | | | | | 11 | | | | | | 18 | | | | | |
| 3 | | | | | | 10 | | | | | | 17 | | | | | |
| 2 | | | | | | 9 | | | | | | 16 | | | | | |
| 1 | | | | | | 8 | | | | | | 15 | | | | | |
| 0 | 06/17/06 | FIRST ISSUE | | | | 7 | | | | | | 14 | | | | | |

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