MVVSD1250R_–80
MVVSD1500R_–80
MVVSD1750R_–80

T = YT UNITS
K = YK UNITS

NO	DRAWING NO	REV	DRAWING DESCRIPTION
00	I808JT00	1	MEDIUM VOLTAGE FLOOR MOUNT VFD
01	---	--	----
02	---	--	----
03	I808JT03	0	GROUNDING PROCEDURE
04	---	--	----
05	I808JT05	0	RATING SHEET
06	---	--	----
07	I808JT07	0	ONE–LINE DIAGRAM
08	---	--	----
09	---	--	----
10	I808JT10	0	THREE–LINE DIAGRAM
11	I808JT11	0	MAIN CIRCUIT
12	I808JT12	0	RECTIFIER CIRCUIT
13	---	--	----
14	---	--	----
15	I808JT15	0	CONTROL POWER AND FAN CIRCUITS

NO	DRAWING NO	REV	DRAWING DESCRIPTION
16	I808JT16	1	PCB INTERCONNECTION (1)
17	I808JT17	0	PCB INTERCONNECTION (2)
18	I808JT18	0	EXTERNAL I/O (1)
19	I808JT19	0	EXTERNAL I/O (2)
20	I808JT20	0	CONTROL CIRCUIT
21	---	--	----
22	---	--	----
23	---	--	----
24	---	--	----
25	---	--	----
26	---	--	----
27	---	--	----
28	I808JT28	1	CHILLER SYSTEM TERMINAL CONNECTIONS
29	---	--	----
30	I808JT30	0	ENCLOSURE OUTLINE
31	---	--	----

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
5					
4					
3					
2					
1	02/15/08	REVISED		OB	AL
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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.

MEDIUM VOLTAGE
VFD FLOOR MOUNT
FRAME 3 2300V

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

NAME DATE
DR. _____
APPR. _____
SCALE: _____

SIZE D

CAGE NO

DRAWING NUMBER
I808JT00

WT. = LBS.

ORIG. NO.

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.

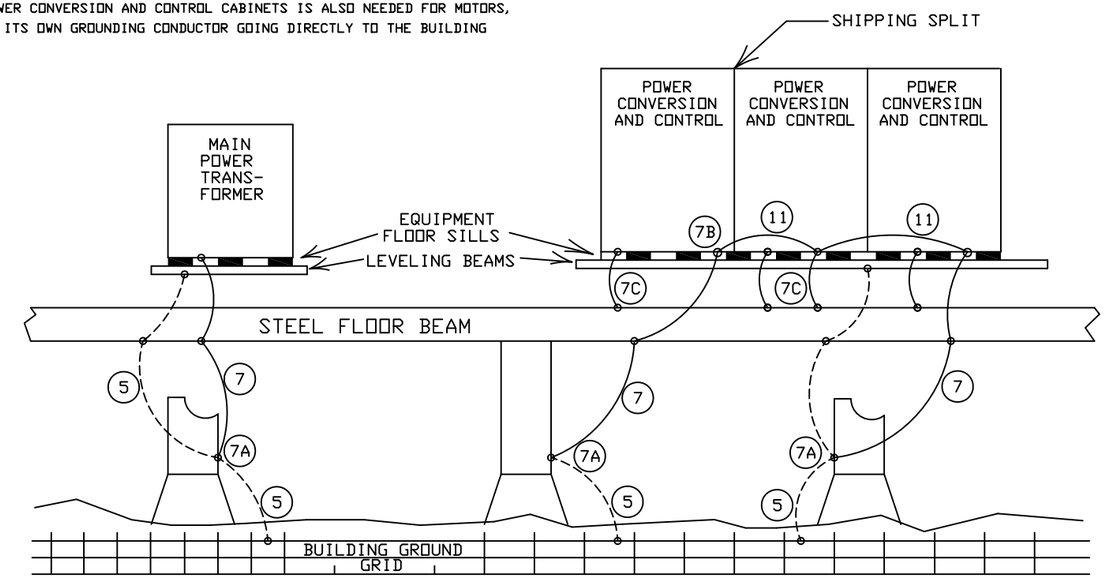
   THESE PRACTICES WOULD TYPICALLY BE FOLLOWED BY THE CONTRACTOR IN COMPLIANCE WITH NEC OR OTHER CODE REQUIREMENTS.
2) THOSE PRACTICES WHICH MAKE THE EQUIPMENT IMMUNE TO ELECTRICAL NOISE ORIGINATING WITHIN OR OUTSIDE THE EQUIPMENT. THESE COMPLEMENT THE EQUIPMENT GROUNDING AND LEVEL WIRING PRACTICES IN PROVIDING 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 AWG 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.
6					
5					
4					
3					
2					
1					
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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.

GROUNDING PROCEDURE

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

NAME DATE
DR.
APPR.
SCALE:

SIZE D | CAGE NO | DRAWING NUMBER 1808JT03

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

COMPONENT RATING		
SHEET NUMBER	COMPONENT	MVVSD1250R_–80 ~ 1750R_–80
		RATING
5	10LA	3kV
	10ISW1	720A, 5.0kV
	10FU1~3	SEE TABLE A
	10M1	720A, 6.6kV
	10M1A	720A, 6.6kV
	10ACL	5.2mH
	10F4~7	2E, 4.8kV
	10PT1~2	500VA, 2400:120V
	10CPT	SEE TABLE A
	10F8~10	5E, 4.8kV
	10F12~14	SEE TABLE A
	10F15	20A, 600Vac
6	HCTU,HCTW	500A:250mA
	11T1	SEE TABLE A
	11R11	50k ohm, 115W
	GDI	---
7	FUSE	SEE TABLE A
	DIODE	2200V, 540A
	POWER MODULE (U,V,W)	±1800Vdc, 444A
8	15MCB1	15A, 600V
	15V1	480V, 2a2b
	15MS1~4	1.6~2.5A, 480V (set @ 2.3A)
	15MOV1~3	625V, 230J
	15FN1~4	460V, 1.2kW
	15MCB2	240Vac, 20A, 2P
	15F1~2	5A, 600Vac
	PDM	---
	15PS1	120/240:+5,+/–15,24V,80W
	15DS1~3	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
	VCCT1,2	115V

TABLE A										
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
MVVSD1250RT–80	1250	280	YT	400E, 5.5KV	2400:460V–2KVA,115V–2KVA	5A, 600V	1090kVA,2400V:635V(4)	700V, 500A	11 ohm, 3W, 1%	10 ohm, 3W, 1%
MVVSD1250RK–80	1250	280	YK	400E, 5.5KV	2400:460V–3KVA,115V–2KVA	7A, 600V	1090kVA,2400V:635V(4)	700V, 500A	11 ohm, 3W, 1%	10 ohm, 3W, 1%
MVVSD1500RT–80	1500	336	YT	450E, 5.5KV	2400:460V–2KVA,115V–2KVA	5A, 600V	1301kVA,2400V:635V(4)	700V, 500A	12 ohm, 3W, 1%	5 ohm, 3W, 1%
MVVSD1500RK–80	1500	336	YK	450E, 5.5KV	2400:460V–3KVA,115V–2KVA	7A, 600V	1301kVA,2400V:635V(4)	700V, 500A	12 ohm, 3W, 1%	5 ohm, 3W, 1%
MVVSD1750RT–80	1750	392	YT	500E, 5.5KV	2400:460V–2KVA,115V–2KVA	5A, 600V	1513kVA,2400V:635V(4)	700V, 600A	12 ohm, 3W, 1%	3 ohm, 3W, 1%
MVVSD1750RK–80	1750	392	YK	500E, 5.5KV	2400:460V–3KVA,115V–2KVA	7A, 600V	1513kVA,2400V:635V(4)	700V, 600A	12 ohm, 3W, 1%	3 ohm, 3W, 1%

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
5					
4					
3					
2					
1					
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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.

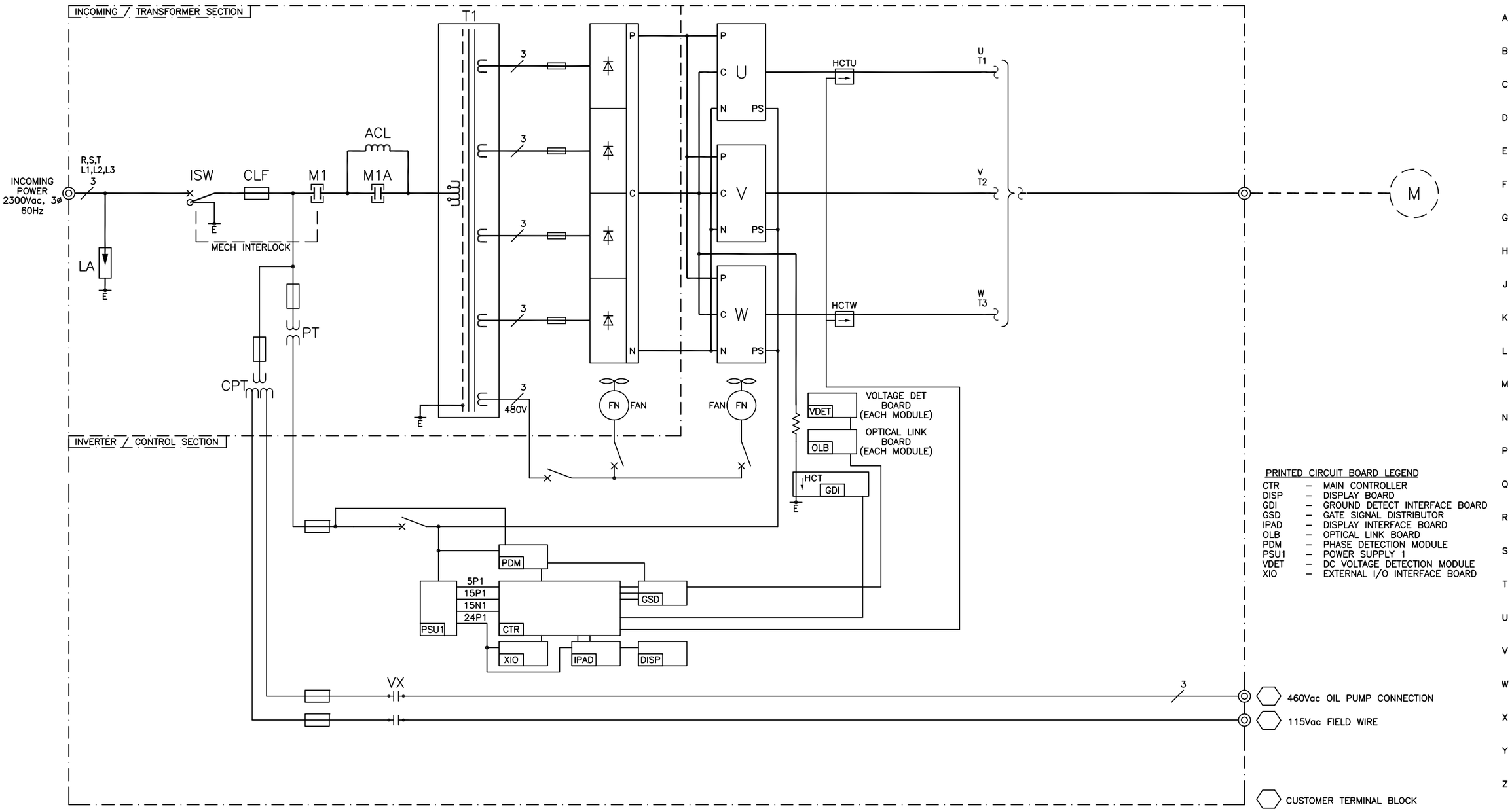
RATING SHEET, COMPONENTS

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

NAME DATE
DR. _____
APPR. _____
SCALE: _____

SIZE D | CAGE NO | DRAWING NUMBER I808JT05

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

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
5					
4					
3					
2					
1					
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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.

ONE-LINE DIAGRAM

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

NAME DATE
DR.
APPR.
SCALE:

SIZE D

CAGE NO

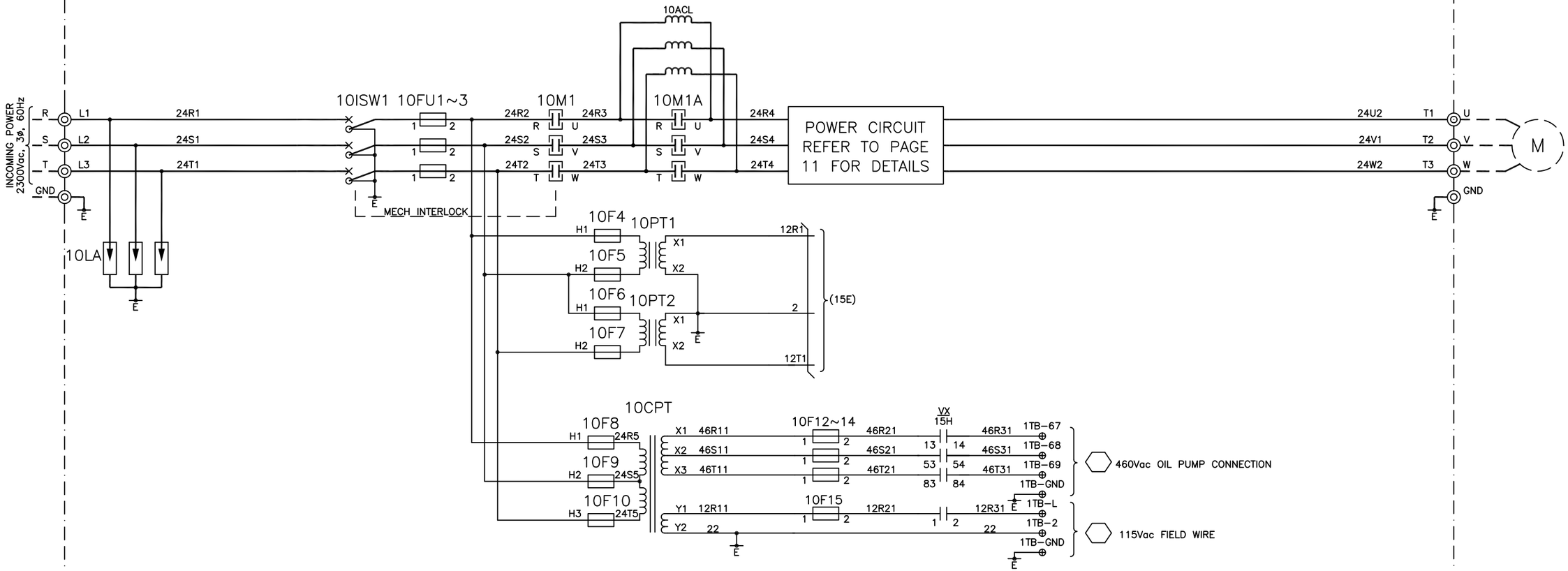
DRAWING NUMBER
I808JT07

WT. = LBS.

ORIG. NO.

SHEET 4 of 15

<CUSTOMER> STANDARD CIRCUIT



<CUSTOMER>

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
5					
4					
3					
2					
1					
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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.

THREE-LINE DIAGRAM

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

NAME DATE
DR.
APPR.
SCALE:

SIZE D

CAGE NO

DRAWING NUMBER
1808JT10

WT. = LBS.

ORIG. NO.

SHEET 5 of 15

INCOMING / TRANSFORMER SECTION

INVERTER SECTION

11T1

RECTIFIER (SEE PAGE 12)

POWER MODULE (SEE PAGE 12)

POWER MODULE (SEE PAGE 12)

POWER MODULE (SEE PAGE 12)

(16A) 15P1 (BK) IU 15N1 (WH) 1 2 3 4

24U1 HCTU 24U2

24V1

OUTPUT (10Q)

(16A) 15P1 (BK) IW 15N1 (WH) 1 2 3 4

24W1 HCTW 24W2

FROM 10M1A (10M)

24R4 H1

24S4 H2

24T4 H3

THERMOSTATS

(19Y) 19YU CS 21 1

Z24A CS 22 2

E

1 TSR RØ PRI COIL 2

1 TSS SØ PRI COIL 2

1 TST TØ PRI COIL 2

R S T (15B)

E

24ACN

1 11R11 2 QW

GDI 031-02678-000

TB1-1 C

TB1-2 E

HCT1 30mA/4V

Fault Det.: I ≥ 9mA

Time Const ≈2.7mS GAIN=1.002

I_GND TP4

I_GND (ASB) TP5

P15 CN1

1 15P1
2 OV1
3 15N1
4 IGR
5 OV1
6
7

(16F)

N15 LG

E

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
5					
4					
3					
2					
1					
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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.

MAIN CIRCUIT

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

NAME DATE
DR.
APPR.
SCALE:

SIZE D

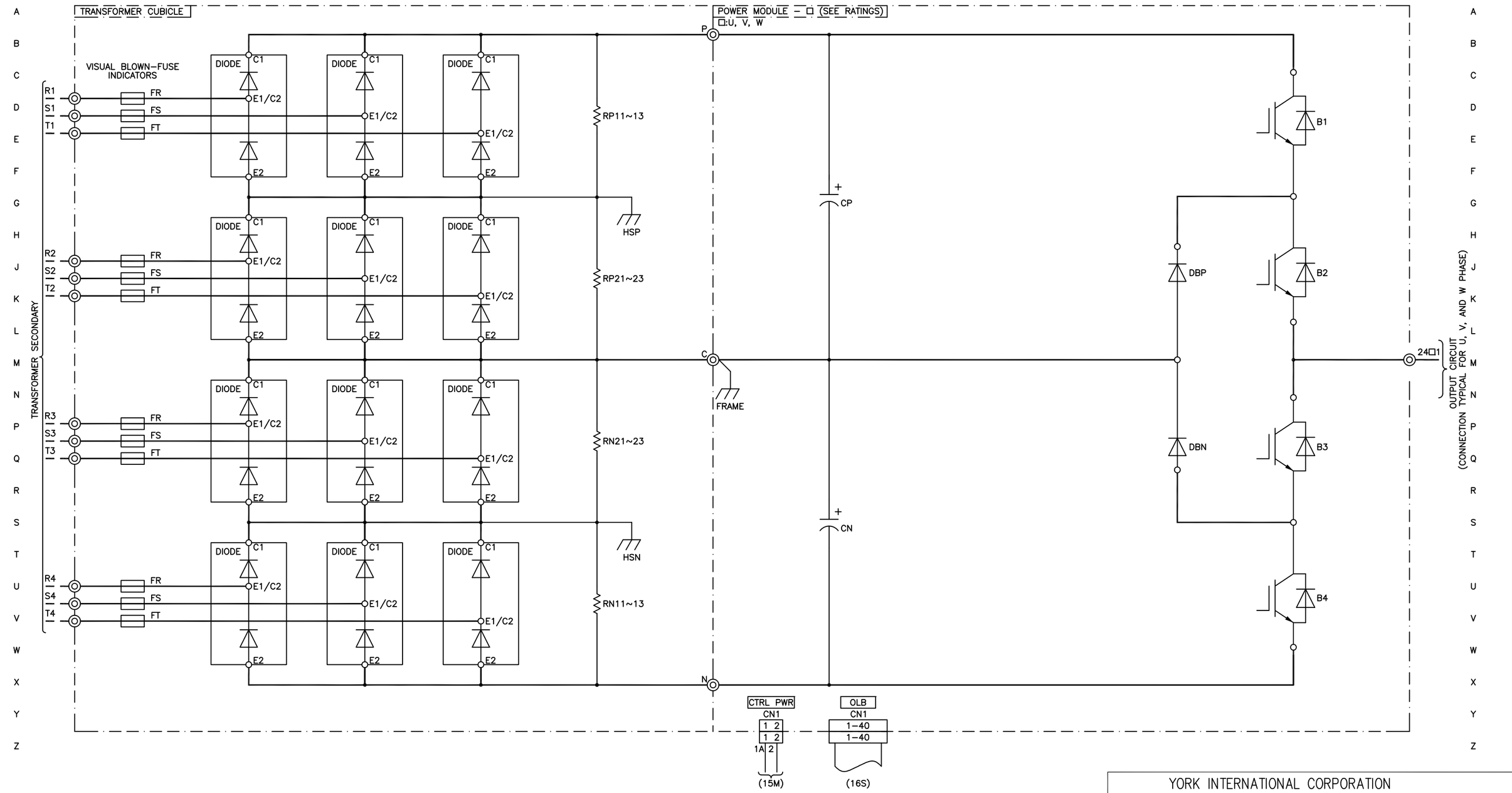
CAGE NO

DRAWING NUMBER 1808JT11

WT. = LBS.

ORIG. NO.

SHEET 6 of 15



REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
5					
4					
3					
2					
1					
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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.

RECTIFIER CKT.

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

NAME DATE
DR.
APPR.
SCALE:

SIZE: D

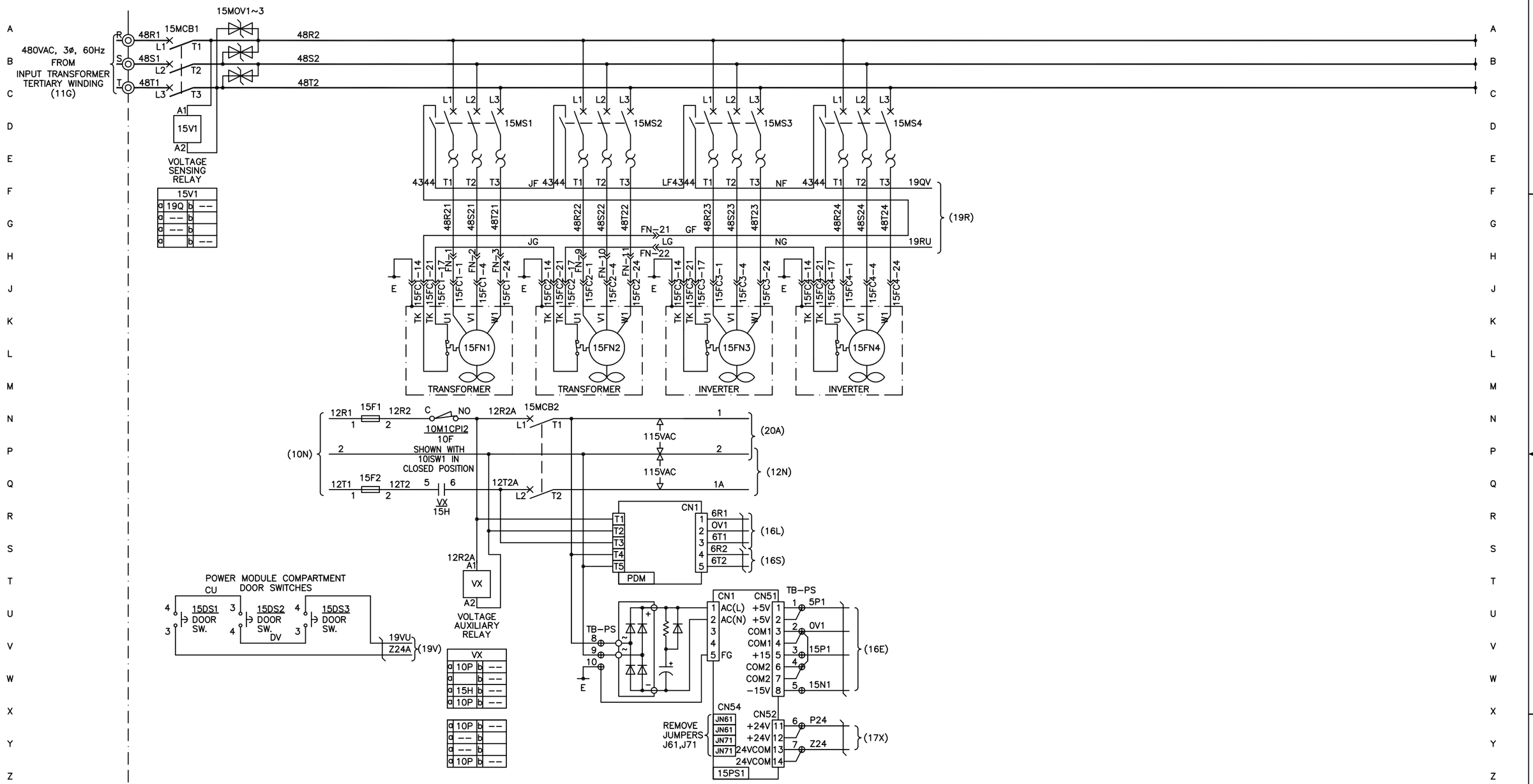
CAGE NO

DRAWING NUMBER: 1808JT12

WT. = LBS.

ORIG. NO.

SHEET 7 of 15



REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
5					
4					
3					
2					
1					
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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.

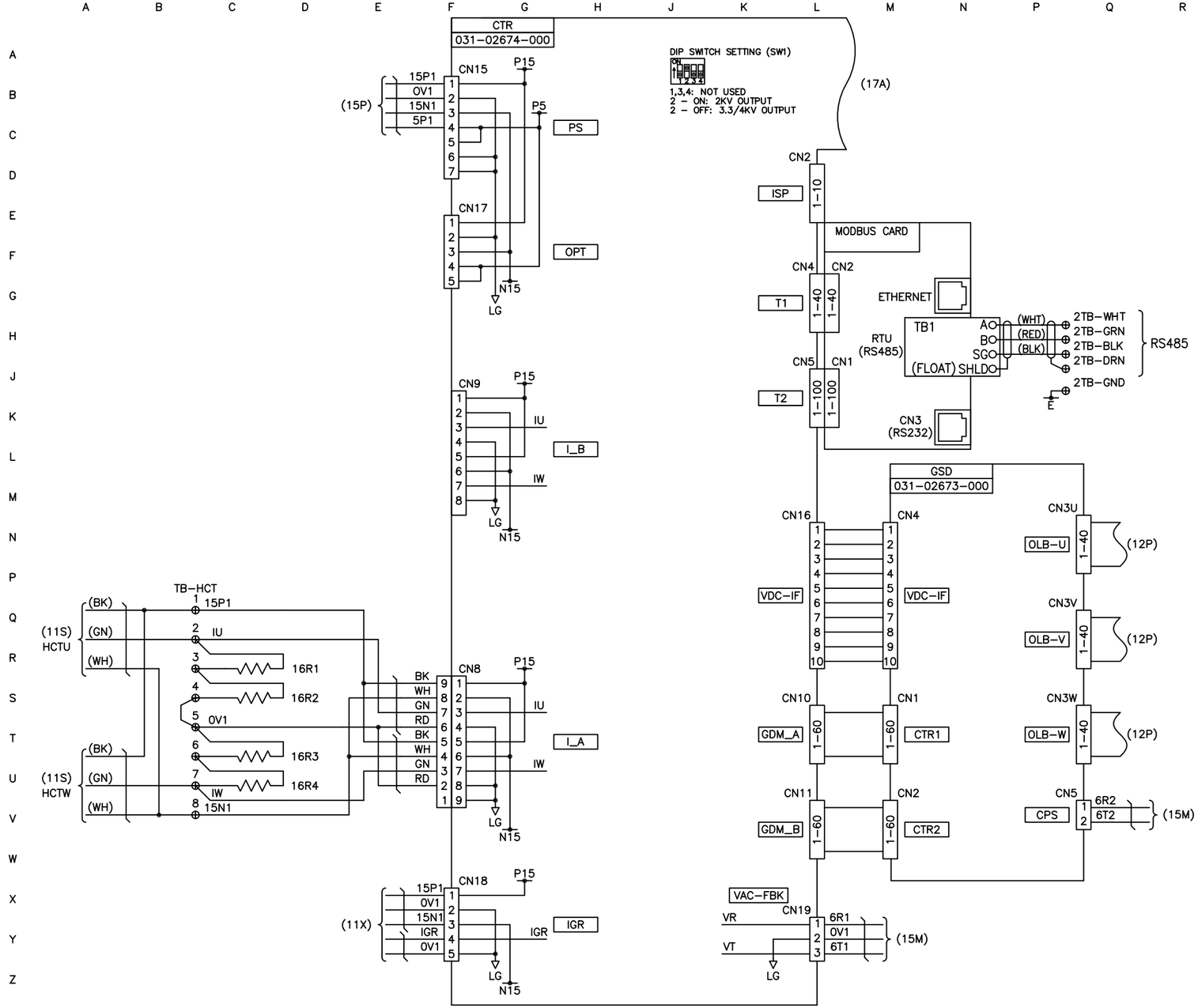
CONTROL POWER AND FANS CIRCUIT

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

NAME DATE
DR.
APPR.
SCALE:

SIZE D | CAGE NO | DRAWING NUMBER 1808JT15

WT. = LBS. | ORIG. NO. | SHEET 8 of 15



REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
5					
4					
3					
2					
1	02/15/08	REMOVED 2TB JUMPER & RES		OB	AL
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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.

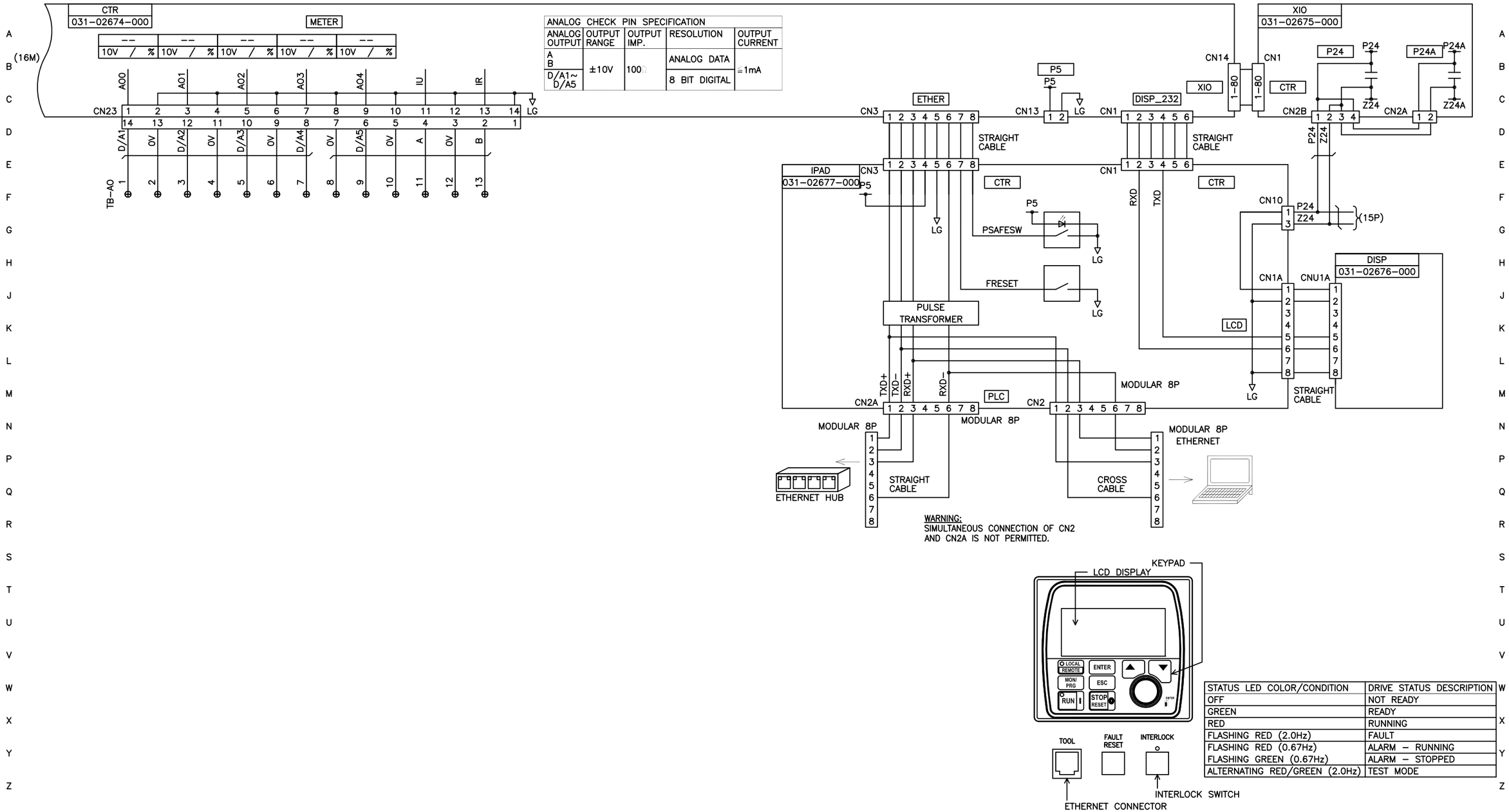
PCB (1)
INTERCONNECTION

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

NAME DATE
DR. _____
APPR. _____
SCALE: _____

SIZE: D
CAGE NO:
DRAWING NUMBER: 1808JT16

WT. = LBS. ORIG. NO. SHEET 9 of 15



STATUS LED COLOR/CONDITION	DRIVE STATUS DESCRIPTION
OFF	NOT READY
GREEN	READY
RED	RUNNING
FLASHING RED (2.0Hz)	FAULT
FLASHING RED (0.67Hz)	ALARM – RUNNING
FLASHING GREEN (0.67Hz)	ALARM – STOPPED
ALTERNATING RED/GREEN (2.0Hz)	TEST MODE

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
5					
4					
3					
2					
1					
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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.

PCB (2)
INTERCONNECTION

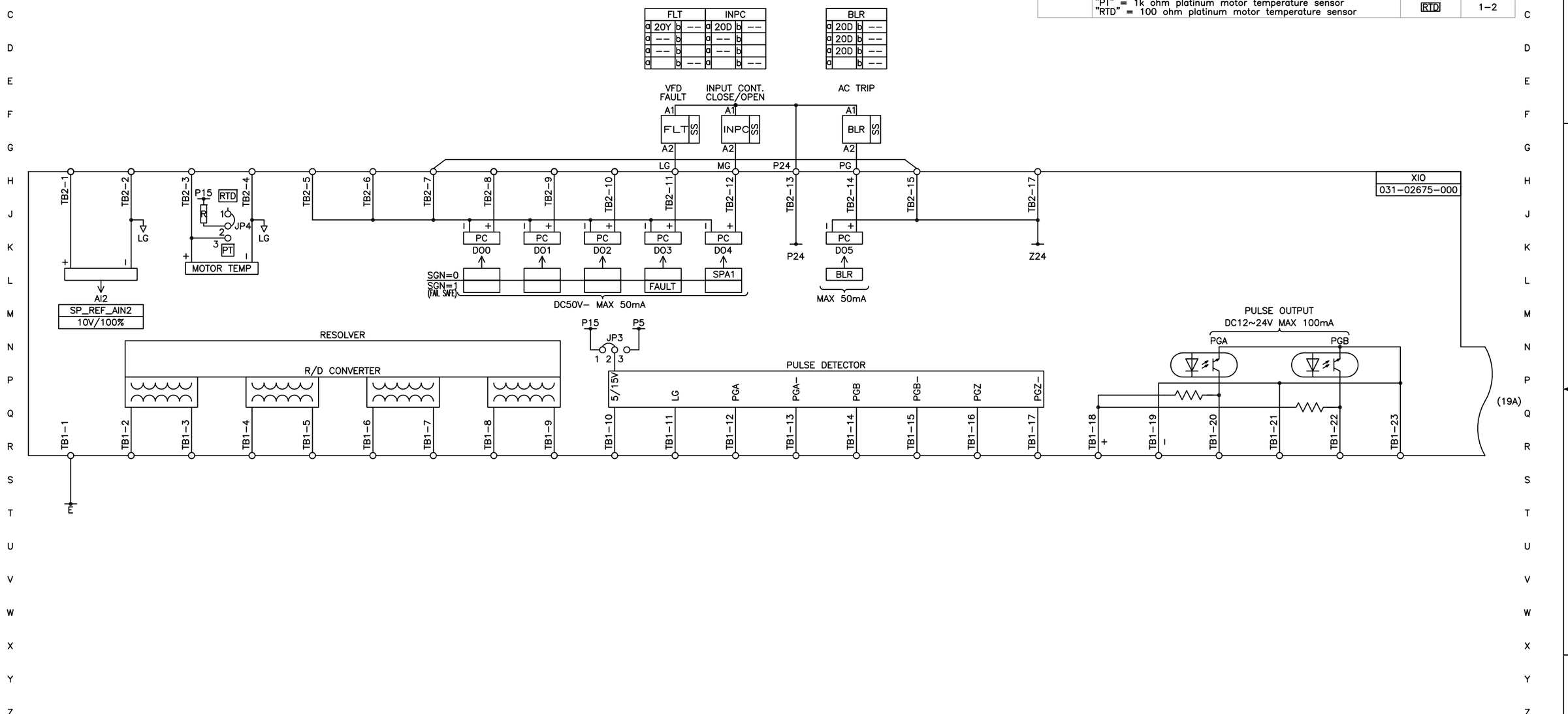
MATERIAL
TYPE _____ ENG. STD. _____
PART NO. _____
CUT SIZE _____

NAME DATE
DR. _____
APPR. _____
SCALE: _____

SIZE: D
CAGE NO:
DRAWING NUMBER: 1808JT17

WT. = LBS.
ORIG. NO.
SHEET 10 of 15

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



REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
5					
4					
3					
2					
1					
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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.

EXTERNAL I/O (1)

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

NAME DATE
DR.
APPR.
SCALE:

SIZE D

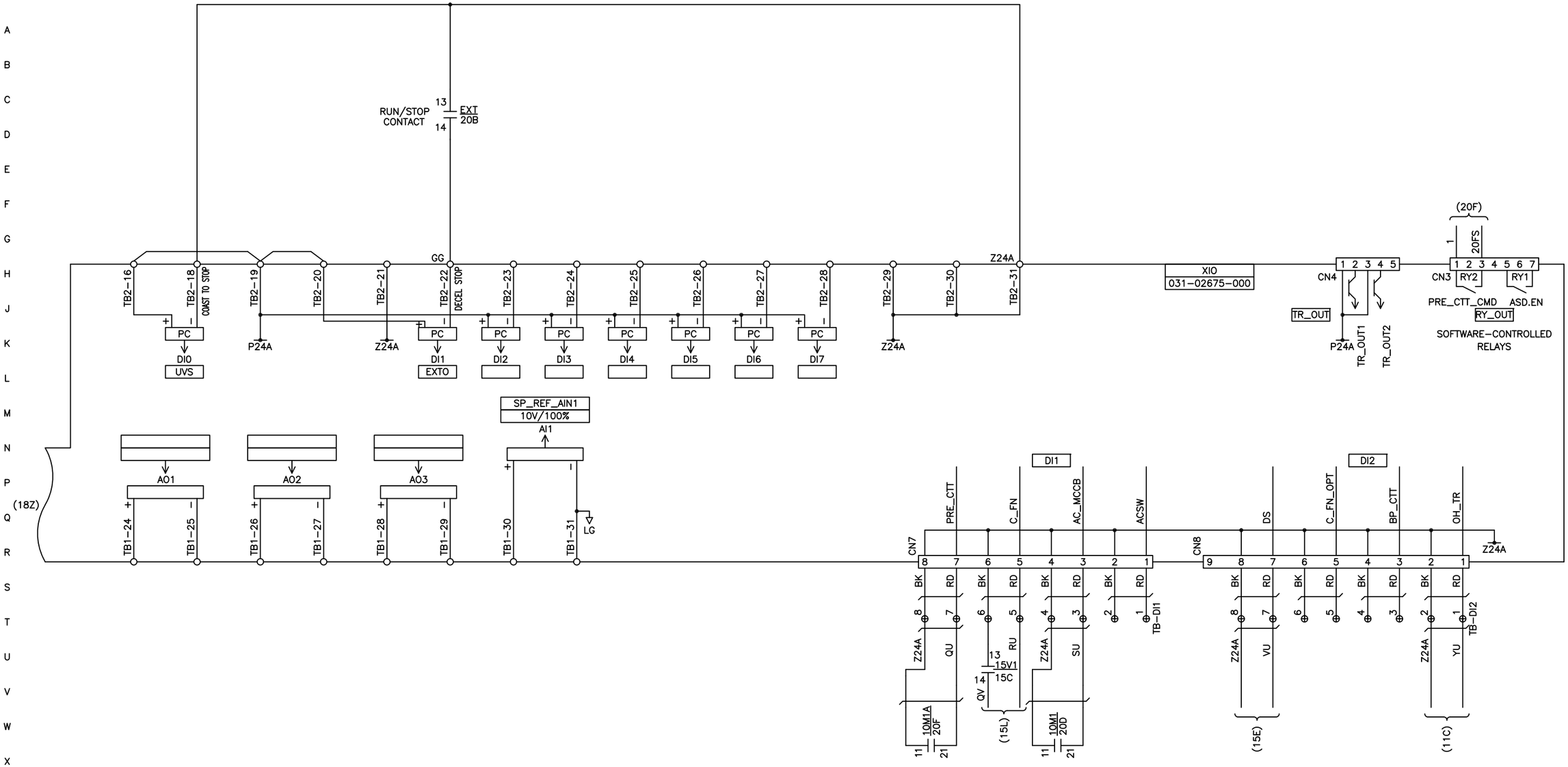
CAGE NO

DRAWING NUMBER
1808JT18

WT. = LBS.

ORIG. NO.

SHEET 11 of 15



REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
5					
4					
3					
2					
1					
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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.

EXTERNAL I/O (2)

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

NAME DATE
DR. _____
APPR. _____
SCALE: _____

SIZE: D
CAGE NO:
DRAWING NUMBER: I808JT19
WT. = LBS.
ORIG. NO.
SHEET 12 of 15

VFD START/STOP

INPUT CONTACTOR OPEN/CLOSE

PRE-CHARGED CONTACTOR

1TB-24

BD

RUN/STOP INPUT 115Vac

A1

EXT

A2

1TB-GND

E

115Vac (15M)

13 BLR 18P

14

DC

13 INPC 18M

14

DF

C

NO 10M1CPI 10F

SHOWN WITH 10ISW1 IN CLOSED POSITION

DH

TB-1 VCCT1

TB-2 TB-3 TB-4

DM

23 BLR 18P

24

34 BLR 18P

33

A1 DS

DU

A2 DT

(19Y)

FH

TB-1 VCCT2

TB-2 TB-3 TB-4

A1 FS

DU

A2 FT

1TB-16 YB

13 FLT 18L

14 YC 1TB-53

INVERTER INITIATED STOP CONTACT

EXTERNAL VFD START/STOP RELAY

EXT			
a	19G	b	--
a		b	--
a		b	--
a		b	--

DRIVE INPUT VCTT

10M1			
a	19S	b	--
a		b	--
a		b	--
a	--	b	
a	--	b	
a	--	b	

PRE-CHARGE SHORTING VCTT

10M1A			
a	19Q	b	--
a		b	--
a		b	--
a	--	b	
a	--	b	
a	--	b	

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
5					
4					
3					
2					
1					
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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.

CONTROL CIRCUIT

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

NAME DATE
DR.
APPR.
SCALE:

SIZE D

CAGE NO

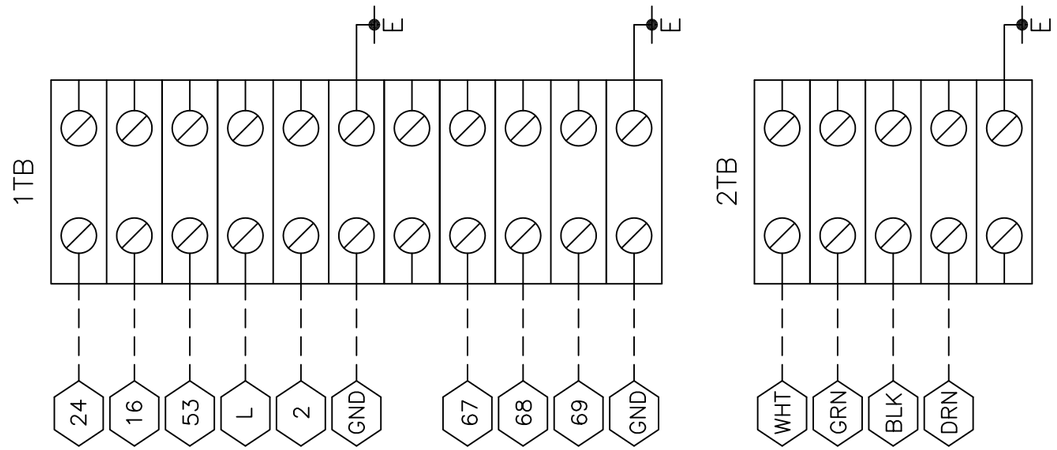
DRAWING NUMBER 1808JT20

WT. = LBS.

ORIG. NO.

SHEET 13 of 15

CHILLER SYSTEM INTERFACE



CUSTOMER TERMINAL BLOCK

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
5					
4					
3					
2					
1	02/15/08	REMOVED 2TB JUMPER		OB	AL
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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.

CHILLER SYSTEM TERMINAL CONNECTIONS

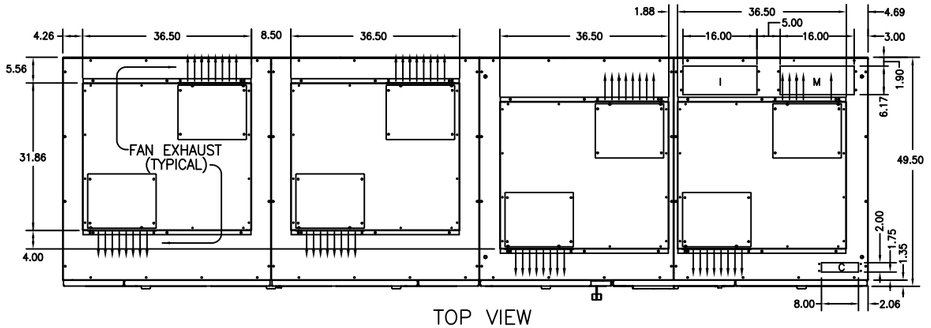
MATERIAL
TYPE _____ ENG. STD. _____
PART NO. _____
CUT SIZE _____

NAME DATE
DR. _____
APPR. _____
SCALE: _____

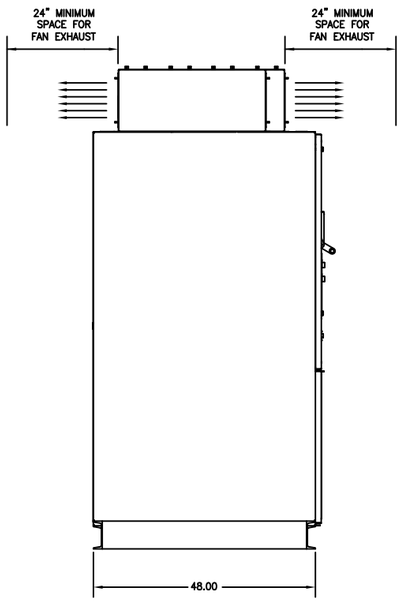
SIZE D | CAGE NO | DRAWING NUMBER 1808JT28

WT. = LBS. | ORIG. NO. | SHEET 14 of 15

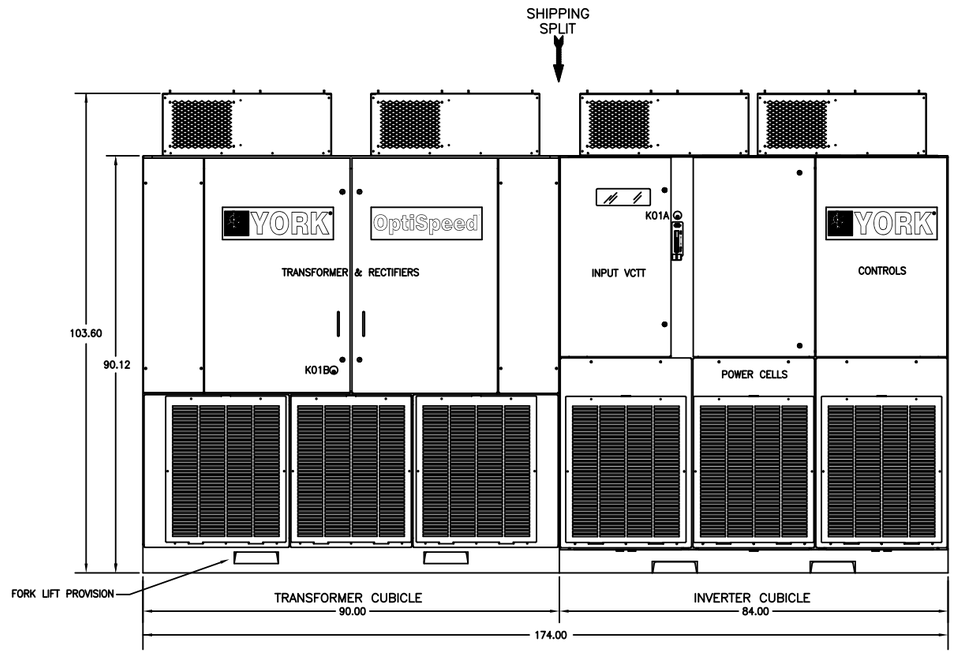
CABLE TERMINATIONS			
ENTRY	INCOMING CABLES	MOTOR LEADS	CONTROL WIRE
TOP	I	M	C
BOTTOM	I	M	C
INCOMING TERMINATIONS USE NEMA 4-HOLE PATTERN MOTOR TERMINATIONS USE NEMA 4-HOLE PATTERN			



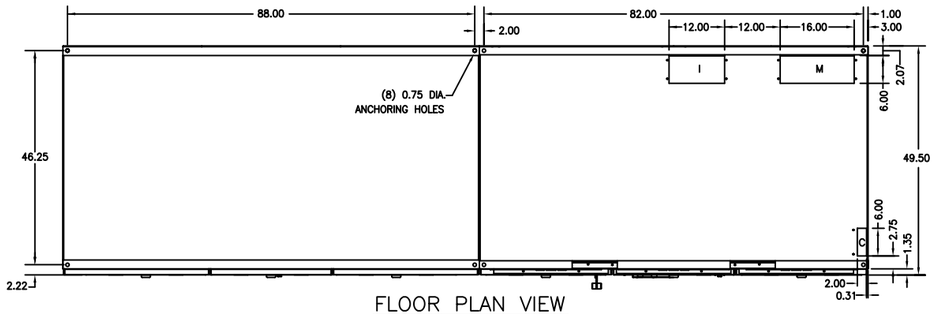
TOP VIEW



LH VIEW



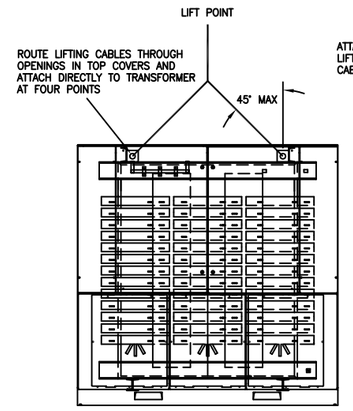
FRONT VIEW



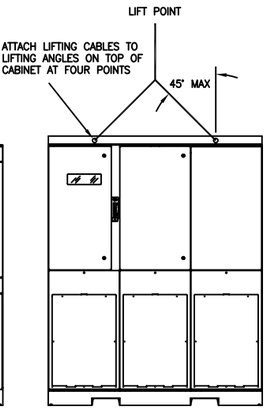
FLOOR PLAN VIEW

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

	1250HP	1500HP	1750HP
TRANSFORMER CUBICLE	8,800 lbs	9,500 lbs	10,000 lbs
INVERTER CUBICLE	4,500 lbs	4,500 lbs	4,500 lbs



ALTERNATE LIFTING METHOD
TRANSFORMER CUBICLE
(FANS REMOVED)



ALTERNATE LIFTING METHOD
INVERTER CUBICLE
(FANS REMOVED)

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
6					
5					
4					
3					
2					
1					
0	07/19/06	FIRST ISSUE		OB	AL

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
13					
12					
11					
10					
9					
8					
7					

REV. LEV.	DATE	REVISION RECORD	CHG. NO.	DR.	CK.
20					
19					
18					
17					
16					
15					
14					

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 _____

NAME DATE
DR. _____
APPR. _____
SCALE: _____

SIZE D

CAGE NO

DRAWING NUMBER
I808JT30

WT. = LBS.

ORIG. NO.

SHEET 15 of 15