

CUST. NAME:

PROJECT NO.:

P.O. NUMBER:

DESCRIPTION: G3+B INVERTER STANDARD

932~1200KVA, SINEWAVE

1200KVA, NON-SINEWAVE

1400~1500KVA, SINEWAVE, 40°C

1400~1500KVA, NON-SINEWAVE, 40°C

FINAL

PRELIMINARY

FOR APPROVAL

Note: Final Engineering and Manufacturing will proceed upon receipt of final approval

NOT APPROVED AS NOTED - RESUBMIT DRAWINGS FOR APPROVAL. DO NOT PROCEED WITH FINAL ENGINEERING OR MANUFACTURING.

APPROVED AS NOTED - PROCEED WITH FINAL ENGINEERING AND MANUFACTURING.

APPROVED AS SUBMITTED - PROCEED WITH FINAL ENGINEERING AND MANUFACTURING.

APPROVAL BY: \_\_\_\_\_

Initial \_\_\_\_\_

Date \_\_\_\_\_

NO	DRAWING NO	REV	DRAWING DESCRIPTION
00	1808HR00	5	DRAWING LIST 1
01	1808HR01	3	DRAWING LIST 2
02	1808HR02	0	DRAWING LEGEND
03	1808HR03	0	MODEL NUMBER CONFIGURATION
04	----	--	-----
05	1808HR05	3	EQUIPMENT RATINGS
06	1808HR06	3	EQUIPMENT RATINGS
07	----	--	-----
08	1808HR08	1	THREE-LINE DIAGRAM
09	1808HR09	0	MAIN CIRCUIT - AC IN/DC BUS
10	1808HR10	0	MAIN CIRCUIT - DC BUS/AC OUT
11	----	--	-----
12	1808HR12	0	MAIN CIRCUIT DETAIL - INVERTER
13	----	--	-----
14	----	--	-----
15	----	--	-----

NO	DRAWING NO	REV	DRAWING DESCRIPTION
16	----	--	-----
17	----	--	-----
18	1808HR18	0	LOGIC INTERFACE CIRCUIT
19	----	--	-----
20	1808HR20	0	CONTROL CIRCUIT
21	1808HR21	1	CONTROL CIRCUIT - TEMPERATURE CONTROL
22	----	--	-----
23	----	--	-----
24	----	--	-----
25	----	--	-----
26	----	--	-----
27	----	--	-----
28	----	--	-----
29	1808HR29	0	PCB INTERCONNECTIONS
30	----	--	-----
31	----	--	-----

REV	DATE	DESCRIPTION	BY	CHK	APPR
5	11/21/08	REV SHTS 00, 01	JT		
4	04/30/08	REV SHTS 00, 05, 06, 08	JT	JT	JBA
3	12/06/07	REV SHTS 00, 05, 06, 21	JMP	JT	JBA
2	11/02/07	ADD REVISION LEVELS	JT	JT	JBA
1	10/08/07	DELETE REVISION LEVELS	JT	JT	JBA

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TITLE: DRAWING LIST 1  
 3 POWER MODULES G3+B 480VAC  
 CUSTOMER: PROJECT NUMBER:

REVISION: 5 SCALE:  
 DRAWING NUMBER: 1808HR00

CUST. NAME:

PROJECT NO.:

P.O. NUMBER:

DESCRIPTION: G3+B INVERTER STANDARD  
 932~1200KVA, SINEWAVE  
 1200KVA, NON-SINEWAVE  
 1400~1500KVA, SINEWAVE, 40°C  
 1400~1500KVA, NON-SINEWAVE, 40°C

FINAL

PRELIMINARY

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APPROVED AS SUBMITTED - PROCEED WITH FINAL ENGINEERING AND MANUFACTURING.

APPROVAL BY: \_\_\_\_\_

Initial \_\_\_\_\_

Date \_\_\_\_\_

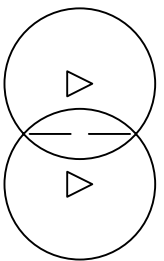
NO	DRAWING NO	REV	DRAWING DESCRIPTION
32	1808HR32	1	ENCLOSURE OUTLINE - N1, SINEWAVE, 6 PULSE
33	1808HR33	1	ENCLOSURE OUTLINE - N1, SINEWAVE, 12 PULSE
34	1808HR34	1	ENCLOSURE OUTLINE - N1, NON-SINEWAVE, 6 PULSE
35	1808HR35	1	ENCLOSURE OUTLINE - N1, NON-SINEWAVE, 12 PULSE
36	1808HR36	1	ENCLOSURE OUTLINE - N3R, SINEWAVE, 6 PULSE
37	1808HR37	1	ENCLOSURE OUTLINE - N3R, SINEWAVE, 12 PULSE
38	1808HR38	1	ENCLOSURE OUTLINE - N3R, NON-SINEWAVE, 6 PULSE
39	1808HR39	1	ENCLOSURE OUTLINE - N3R, NON-SINEWAVE, 12 PULSE
40	----	--	-----
41	----	--	-----
42	----	--	-----
43	----	--	-----
44	----	--	-----
45	----	--	-----
46	----	--	-----
47	----	--	-----

NO	DRAWING NO	REV	DRAWING DESCRIPTION
48	----	--	-----
49	----	--	-----
50	----	--	-----
51	----	--	-----
52	----	--	-----
53	----	--	-----
54	----	--	-----
55	----	--	-----
56	----	--	-----
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61	----	--	-----
62	----	--	-----
63	----	--	-----

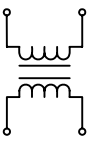
REV	DATE	DESCRIPTION	BY	CHK	APPR
4					
3	11/21/08	REV SHTS 32~39	JT		
2	11/02/07	DEL MECH ASSEMBLIES; ADD REV LEVELS	JT	JT	JBA
1	10/08/07	ADD MECH ASSEMBLIES; DELETE REV LEVELS	JT	JT	JBA
0	10/17/05	FIRST ISSUE	HHP	JT	JBA

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TITLE: DRAWING LIST 2  
 CUSTOMER: 3 POWER MODULES G3+B 480VAC  
 PROJECT NUMBER: \_\_\_\_\_  
 REVISION: 3  
 SCALE: \_\_\_\_\_  
 DRAWING NUMBER: 1808HR01



POWER TRANSFORMER



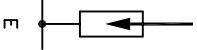
CONTROL POWER OR POTENTIAL TRANSFORMER



CURRENT TRANSFORMER



REACTOR



LIGHTNING ARRESTOR



CIRCUIT BREAKER



FUSED VACUUM DRAWOUT CONTACTOR



AIR CONTACTOR



FUSE



CAPACITOR



RESISTOR



DIODE



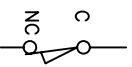
THYRISTOR



SURGE ABSORBER

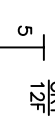


INSULATED GATE BIPOLAR TRANSISTOR (IGBT)



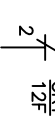
LIMIT SWITCH

DENOTES ACTUAL CONTACT USED

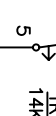


N.O. CONTACT

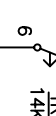
DENOTES RELAY CAN BE FOUND ON PAGE 12, COLUMN F



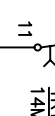
N.C. CONTACT



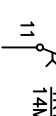
OFF-TIME DELAY CONTACT N.C.



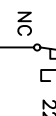
OFF-TIME DELAY CONTACT N.O.



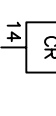
ON-TIME DELAY CONTACT N.C.



ON-TIME DELAY CONTACT N.O.



THERMAL SWITCH N.C.



RELAY COIL

NAME
d   b   11B
d   b   b
d   b   b
d   b   b
MODEL #

--- DENOTES b - CONTACT, USED ON PAGE 11, COLUMN B  
 --- DENOTES CONTACTS UNAVAILABLE  
 a - DENOTES NORMALLY OPEN  
 b - DENOTES NORMALLY CLOSED

DEVICE LEGEND



POTENTIOMETER



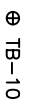
SELECTOR SWITCH



N.C. PUSH BUTTON



N.O. PUSH BUTTON



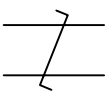
CONTROL TERMINAL BLOCK



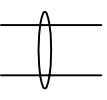
PLUG/CONNECTOR ASSEMBLY



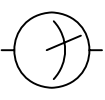
GROUND



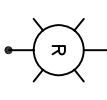
TWISTED WIRE



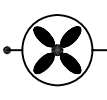
SHIELDED WIRE



METER



ILLUMINATED PUSH BUTTON OR INDICATING LIGHT (LETTER = COLOR)



COOLING FAN

LEGEND

- ACL AC LINE REACTOR
- A/C AIR CONDITIONER
- AM AMMETER
- AS AMMETER SWITCH
- CL CURRENT LIMITER
- CPT CURRENT POWER TRANSFORMER
- CT CURRENT TRANSFORMER
- DBR DYNAMIC BRAKING RESISTOR
- M AIR CONTACTOR
- MCCB MOLDED CASE CIRCUIT BREAKER
- MCP MOTOR CIRCUIT PROTECTOR
- MOT MOTOR
- OL THERMAL OVERLOAD
- RFV RADIO FREQUENCY FILTER
- VFD VARIABLE FREQUENCY DRIVE
- VM VOLTMETER
- VS VOLTMETER SWITCH
- XFMR TRANSFORMER
- ZCT GROUND FAULT CT

SYMBOL LEGEND

- ① JUMPER
- Ⓜ MECHANICAL INTERLOCK

REV	DATE	DESCRIPTION	BY	CHK	APPR
4					
3					
2					
1					
0	10/17/05	FIRST ISSUE	HHP		

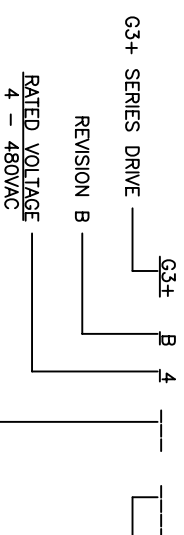
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TITLE: <b>DRAWING LEGEND</b>	CUSTOMER:
PROJECT NUMBER:	

REVISION: 0	SCALE:
DRAWING NUMBER: 1808HR02	

G3+B DRIVE MODEL NUMBER DEVELOPMENT



G3+ SERIES DRIVE \_\_\_\_\_  
 REVISION B \_\_\_\_\_  
 RATED VOLTAGE \_\_\_\_\_  
 4 - 480VAC

\_\_\_\_\_ CONFIGURATION  
 CC1 - NEMA 1, 12 PULSE \_\_\_\_\_  
 CC1S - NEMA 1, 12 PULSE, WITH SINEWAVE FILTER \_\_\_\_\_  
 CB1 - NEMA 1, 6 PULSE \_\_\_\_\_  
 CB1S - NEMA 1, 6 PULSE, WITH SINEWAVE FILTER \_\_\_\_\_  
 CC - NEMA 3R, 12 PULSE \_\_\_\_\_  
 CCS - NEMA 3R, 12 PULSE, WITH SINEWAVE FILTER \_\_\_\_\_  
 CB - NEMA 3R, 6 PULSE \_\_\_\_\_  
 CBS - NEMA 3R, 6 PULSE, WITH SINEWAVE FILTER \_\_\_\_\_

OPTIONS TABLE

	① NEMA 1	② NEMA 3R	③ 6 PULSE	④ 12 PULSE	⑤ SINEWAVE	⑥ NON-SINEWAVE
CC1	X			X		X
CC1S	X			X	X	
CB1	X		X			X
CB1S	X		X		X	
CC		X		X		X
CCS		X		X	X	
CB		X	X			X
CBS		X	X		X	

AMBIENT TEMPERATURE

DRIVE RATINGS	WITH SINEWAVE FILTER		WITHOUT SINEWAVE FILTER	
	40°C	50°C	40°C	50°C
93K - 932kVA	X			
10L - 1000kVA	X			
12L - 1200kVA		X		X
14L40 - 1400kVA	X		X	
15L40 - 1500kVA	X		X	

REV	DATE	DESCRIPTION	BY	CHK	APPR
4					
3					
2					
1					
0	10/17/05	FIRST ISSUE	HHP		

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TITLE: MODEL NUMBER CONFIGURATION  
 3 POWER MODULES G3+B 480VAC  
 CUSTOMER: PROJECT NUMBER:

REVISION: 0  
 SCALE:  
 DRAWING NUMBER: 1808HR03



PAGE No.	DEVICE	DESCRIPTION	TYPE FORM	RATING	PART NUMBER	TYPE FORM	RATING	PART NUMBER
8	③ MCCB1 ④ MCCB1, 2 MCCB3 8FU3	CIRCUIT BREAKER MOULDED CASE SWITCH CPT1 PRIMARY CIRCUIT BRKR CPT1 SECONDARY FUSE	SMS RD63F200 SOD P1J36000S10-RE10 SMS ED62B015 GLD TRM 20	600V, 1800A, 3P, 50KAIC@480V 600V, 1000A, 3P, 65KAIC@480V 600V, 15A, 2P, 25KAIC@480V 20A, 250V, TD, 10KAIC	PC11356P200 PC11001P013 PC11321P015 PC26130P034	SMS RD63F200 SOD P1J36000S10-RE10 SMS ED62B015 GLD TRM 20	600V, 1800A, 3P, 50KAIC@480V 600V, 1000A, 3P, 65KAIC@480V 600V, 15A, 2P, 25KAIC@480V 20A, 250V, TD, 10KAIC	PC11356P200 PC11001P013 PC11321P015 PC26130P034
	③ FRA,B~FTA,B ④ FRA,B~FTA,B BFI CPT1	SEMICONDUCTOR FUSE SEMICONDUCTOR FUSE BLOWN FUSE INDICATOR CNTL. PWR. TRANSFORMER	CRF A060URD32T11250 CRF A060URD32T11250 CRF MS3V1-5BS GTT GT-F852	600V, 1250A (X6) 600V, 1250A (X6) 250V, 3A 380/400/415/460-230V, 3.3kVA	PC15360P120 PC15360P120 PC15360P001 PC33130P331	CRF A060URD32T11250 CRF A060URD32T11250 CRF MS3V1-5BS GTT GT-F852	600V, 1250A (X6) 600V, 1250A (X6) 250V, 3A 380/400/415/460-230V, 3.3kVA	PC15360P120 PC15360P120 PC15360P001 PC33130P331
	③ ACL1~3 ④ ACL1~3 ⑤ CAP1~6 ③ 8FU4~15 ⑤ BFI ⑤ HCTB, HCTC	OUTPUT LINE REACTOR OUTPUT LINE REACTOR FILTER CAPACITOR FILTER CAPACITOR FUSE BLOWN FUSE INDICATOR HALL CT	KLR600BCB TCl KTRSWA500YA SHZ M-N0044-D CRF 6.9qGR SIB NH00 CRF F210156C LEM HAX-1800-S/SP11	480V, 600A, 1.5% 600V, 588A, 0.077mH, 2.2kHz 250UF, 3PH, 460VAC, 75A 125A, 690VAC 250V, 10A 1800A-4V	PC34092P600 PC34097P501 PC14150P020 PC15360P010 PC15360P011 PC30013P059	TCl KLR600BCB TCl KTRSWA500YA SHZ M-N0044-D CRF 6.9qGR SIB NH00 CRF F210156C LEM HAX-1800-S/SP11	480V, 600A, 1.5% 600V, 588A, 0.077mH, 2.2kHz 250UF, 3PH, 460VAC, 75A 125A, 690VAC 250V, 10A 1800A-4V	PC34092P600 PC34097P501 PC14150P020 PC15360P010 PC15360P011 PC30013P059
	MS1 MS2 OH1T~OH3T OH1B~OH3B THR1 R1 R2 REC1A, M, B~6 ③ SA1~SA3 ④ SA4~SA6 IGBT7 D7A, B C7A, B R7 PCB6	SOFT START CONTACTOR CAP DISCHARGE CONTACTOR T-STAT 75°C FIXED N.C. T-STAT 90°C FIXED N.C. HEATSINK THERMISTOR SOFT START RESISTOR CAP DISCHARGE RESISTOR DIODE PACK SURGE SUPPRESSOR SURGE SUPPRESSOR SURGE SUPPRESSOR DYNAMIC BRAKE IGBT DYNAMIC BRAKE DIODE SNUBBER CAPACITOR SGU 564R30GAD47 UPE RBN50/8-25R	TMQ LC1F500U7 CLK 7001-5150-21 TKN OH3-75B TKN OH3-90B FEN 590-32BP01-203 PWO WR33 PWO SXR2-500 EUP D0260N16K SMS B40K550 SMS B40K550 EUP FZ600R12KE3 EUP FZ600R12KE3 SMK SKN60F15 EC 5MP-13086K SGU 564R30GAD47 UPE RBN50/8-25R	500A, 600V, 3P 40A, 500VDC, 1P 75°C 90°C 2KOHM @ 25 DEG C 0.67 OHM, 300W, 2S 500 OHM, 300W, 3S 1600V, 260A (X18) 500V, 3000J 500V, 3000J 1200V, 600A (X2) 75A, 1500V 5.0UF, 1000VDC 4700pF, 3000V 25 OHM, 50W	PC18701P025 PC18720P013 45811 37619 41935 PWO WR33 PWO SXR2-500 EUP D0260N16K EUP D0260N16K SMS B40K550 SMS B40K550 EUP FZ600R12KE3 EUP FZ600R12KE3 SMK SKN60F15 EC 5MP-13086K SGU 564R30GAD47 UPE RBN50/8-25R	TKN OH3-75B TKN OH3-90B FEN 590-32BP01-203 PWO WR33 PWO SXR2-500 EUP D0260N16K EUP D0260N16K SMS B40K550 SMS B40K550 EUP FZ600R12KE3 EUP FZ600R12KE3 SMK SKN60F15 EC 5MP-13086K SGU 564R30GAD47 UPE RBN50/8-25R	75°C 90°C 2KOHM @ 25 DEG C 0.67 OHM, 300W, 2S 500 OHM, 300W, 3S 1600V, 260A (X18) 500V, 3000J 500V, 3000J 1200V, 600A (X2) 75A, 1500V 5.0UF, 1000VDC 4700pF, 3000V 25 OHM, 50W	PC18701P025 PC18720P013 45811 37619 41935 PWO WR33 PWO SXR2-500 EUP D0260N16K EUP D0260N16K SMS B40K550 SMS B40K550 EUP FZ600R12KE3 EUP FZ600R12KE3 SMK SKN60F15 EC 5MP-13086K SGU 564R30GAD47 UPE RBN50/8-25R
10, 12	HCTA CA FA RA FUP, FUN BFI IGBT PCB20~20B RP, RN RS1, 1A	HALL CT CAPACITOR SEMICONDUCTOR FUSE CAP BALANCING RESISTOR SEMICONDUCTOR FUSE BLOWN FUSE INDICATOR IGBT IGBT RESISTOR RESISTOR	NNE HEC-07A(A/MO) HIT HCGF5AS2G123YQ CRF 6.9URB000BS88 DLR RS-10 CRF 6.9URD32T1F1000 CRF MS3V1-5BS EUP FZ600R12KE3 PC61910P117A ITK IRH100N EBG HPP/4-10R	677A-4V 12kUF, 400VDC (4P/2S) 690V, 250A (X4) 50 KOHM, 10W (X8) 690V, 1000A (X6) 250V, 3A 1200V, 600A (X18) 25 OHM, 100W 10 OHM, 60W	PC30013P066 37568 52751 PC41470P052 47244 PC15360P001 PC40200P600 PC61910P117A PC41490P035 44348A	NNE HEC-07A(A/MO) HIT HCGF5AS2G123YQ CRF 6.9URB000BS88 DLR RS-10 CRF 6.9URD32T1F1000 CRF MS3V1-5BS EUP FZ600R12KE3 PC61910P117A ITK IRH100N EBG HPP/4-10R	677A-4V 12kUF, 400VDC (4P/2S) 690V, 250A (X4) 50 KOHM, 10W (X8) 690V, 1000A (X6) 250V, 3A 1200V, 600A (X18) 25 OHM, 100W 10 OHM, 60W	PC30013P066 37568 52751 PC41470P052 47244 PC15360P001 PC40200P600 PC61910P117A PC41490P035 44348A
18	G3 KPD DS1	G3 OPERATOR KEYPAD DOOR SWITCH	IDE TABD311N-R IDE TABD311N-R	10A, 600V 10A, 600V	PC21230P162 48723	IDE TABD311N-R IDE TABD311N-R	10A, 600V 10A, 600V	PC21230P162 48723
20	MST MSX FAN1~3 C1~3	TIMER, ON DELAY CONTROL RELAY HEAT SINK FAN FAN RUN CAPACITOR	IDE G15Y-25N1A200 IDE R2P-U-AC240V ZA RH31M-4/130823 CDE SFA3754K219B-F	240VAC COIL, 0.1S-10M DELAY 240VAC COIL, 7A 230VAC, 1200CFM, 50/60HZ 370V, 4UF	PC20111P180 PC20229P326 PC50050P310 PC42000P412	IDE G15Y-25N1A200 IDE R2P-U-AC240V ZA RH31M-4/130823 CDE SFA3754K219B-F	240VAC COIL, 0.1S-10M DELAY 240VAC COIL, 7A 230VAC, 1200CFM, 50/60HZ 370V, 4UF	PC20111P180 PC20229P326 PC50050P310 PC42000P412
① NEMA 1 OPTION 1 ② NEMA 3R OPTION ③ 6 PULSE OPTION ④ 12 PULSE OPTION ⑤ SINEWAVE FILTER OPTION ⑥ NON- SINEWAVE FILTER ⑦ IGBT7 OPTION	FAN1~13 (⑦FAN7) NK1~3 (⑦NK7) ① FAN21~26 ① NK4, 5 ② HEX1, 2	SURGE SUPPRESSOR ENCLOSURE FAN SURGE SUPPRESSOR HEAT EXCHANGER	ETR 148WK0281030 MCN RFM25M224KD ETR 148WK0281030 MCN RFM25M224KD DAN PS060100B-P2	240VAC, 33W, 50/60HZ, 255CFM 250VAC, 0.22uF, 220 OHM 240VAC, 33W, 50/60HZ, 255CFM 250VAC, 0.22uF, 220 OHM 230VAC, 1.0A, 100W/F	00226 00427 00226 00427 PC67808P153	ETR 148WK0281030 MCN RFM25M224KD ETR 148WK0281030 MCN RFM25M224KD DAN PS060100B-P2	240VAC, 33W, 50/60HZ, 255CFM 250VAC, 0.22uF, 220 OHM 240VAC, 33W, 50/60HZ, 255CFM 250VAC, 0.22uF, 220 OHM 230VAC, 1.0A, 100W/F	00226 00427 00226 00427 PC67808P153
29	PCB1 PCB2~2B PCB3 PCB4~4E PCB5 PCB7	CONTACTOR CONTROL BOARD GATE DRIVE BOARD INTERFACE BOARD G-E PROTECT CIRCUIT BOARD TERMINAL BOARD OPTION ROM	TMQ LC1D09U7 VF5C-1271D 42755P4F PC61910P109A 38383C 41578A 58270	240V COIL, 9A, 600V ---- ---- ---- ---- ---- VER 7008	PC18701P060 03828 42755P4F PC61910P109A 38383C 41578A 58270	TMQ LC1D09U7 VF5C-1271D 42755P4F PC61910P109A 38383C 41578A 58270	240V COIL, 9A, 600V ---- ---- ---- ---- ---- VER 7008	PC18701P060 03828 42755P4F PC61910P109A 38383C 41578A 58270



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TITLE:  
EQUIPMENT RATINGS  
3 POWER MODULES G3+B 480VAC

CUSTOMER:  
PROJECT NUMBER:

REVISION:  
3

DRAWING NUMBER:  
1808HR06

SCALE:

1400kVA, 480V, 1684A

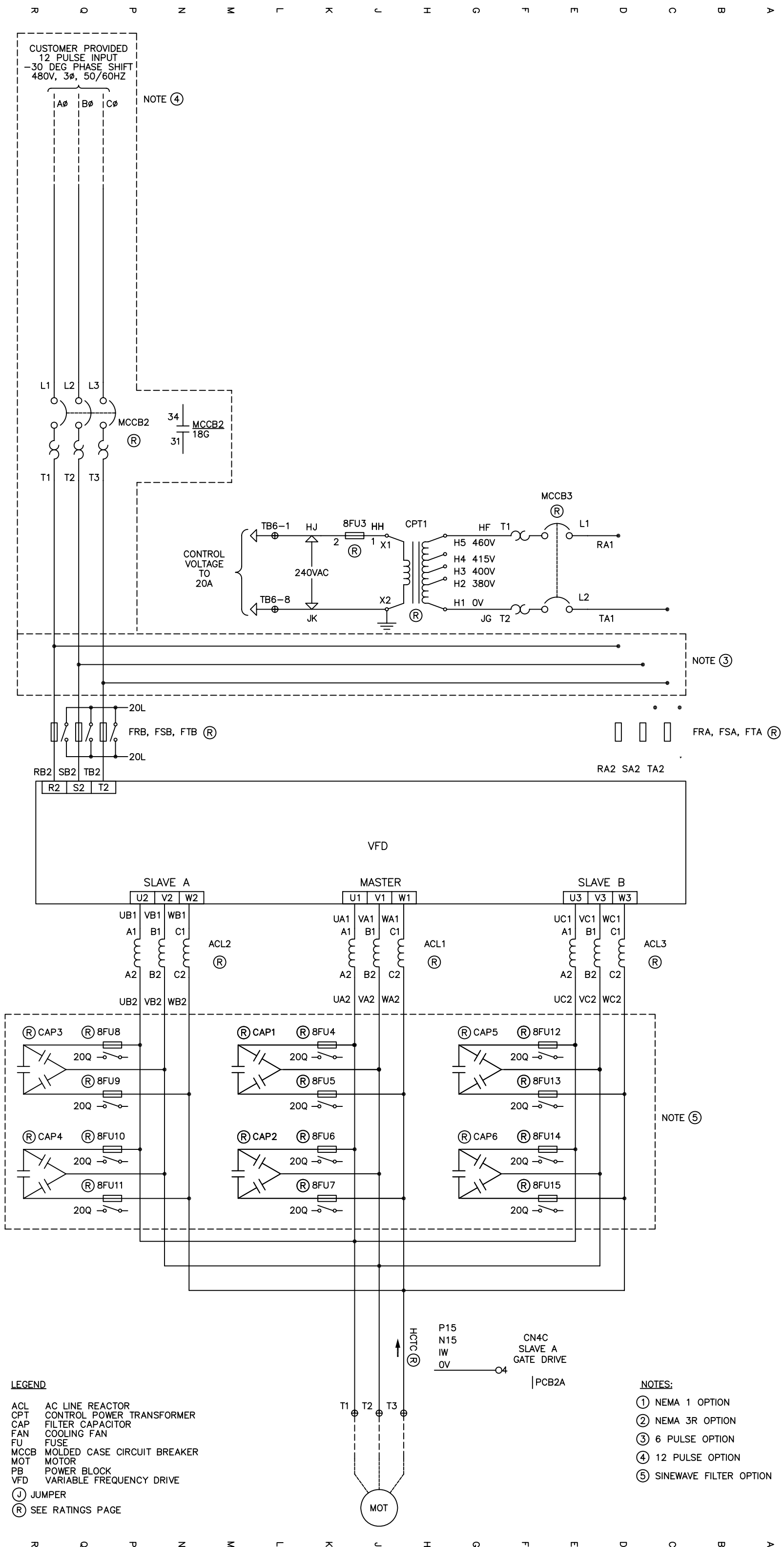
1500kVA, 480V, 1804A

REV	DATE	DESCRIPTION	BY	CHK	APPR
0	12/06/06	FIRST ISSUE	HHP	JT	JBA
1	04/30/08	E00 75305-CPT1 WAS SQD	JT		
2					
3					
4					

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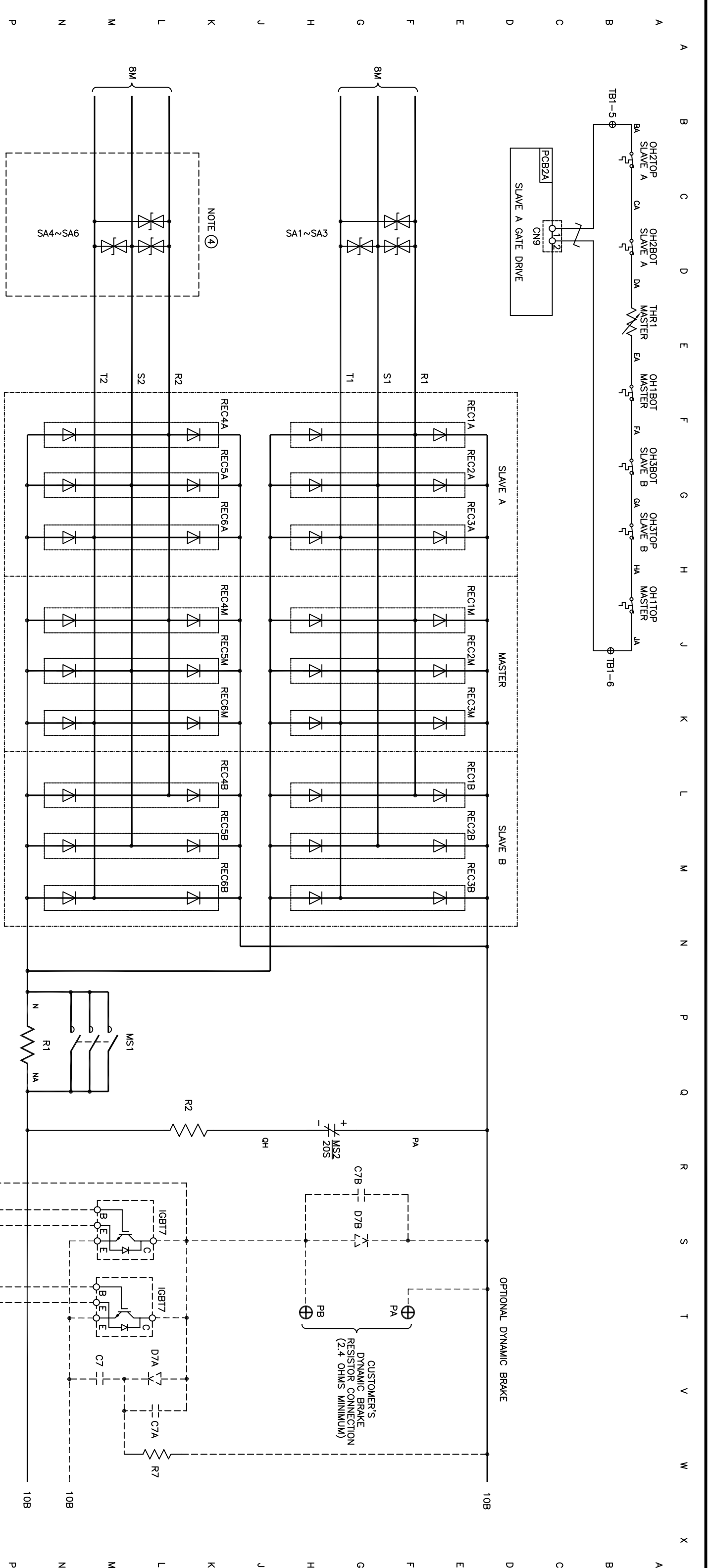
TITLE:  
 CUSTOMER:  
 PROJECT NUMBER:  
**LES G3+B 480VAC**

REVISION: 1  
 SCALE:  
 DRAWING NUMBER:

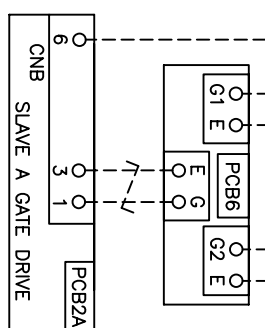


- LEGEND**
- ACL AC LINE REACTOR
  - CPT CONTROL POWER TRANSFORMER
  - CAP FILTER CAPACITOR
  - FAN COOLING FAN
  - FU FUSE
  - MCCB MOLDED CASE CIRCUIT BREAKER
  - MOT MOTOR
  - PB POWER BLOCK
  - VFD VARIABLE FREQUENCY DRIVE
  - (J) JUMPER
  - (R) SEE RATINGS PAGE

- NOTES:**
- ① NEMA 1 OPTION
  - ② NEMA 3R OPTION
  - ③ 6 PULSE OPTION
  - ④ 12 PULSE OPTION
  - ⑤ SINEWAVE FILTER OPTION



- NOTES:
- ① NEMA 1 OPTION
  - ② NEMA 3R OPTION
  - ③ 6 PULSE OPTION
  - ④ 12 PULSE OPTION
  - ⑤ SINEWAVE FILTER OPTION



4					
3					
2					
1					
0	10/17/05	FIRST ISSUE	HHP		
REV	DATE	DESCRIPTION	BY	CHK	APPR

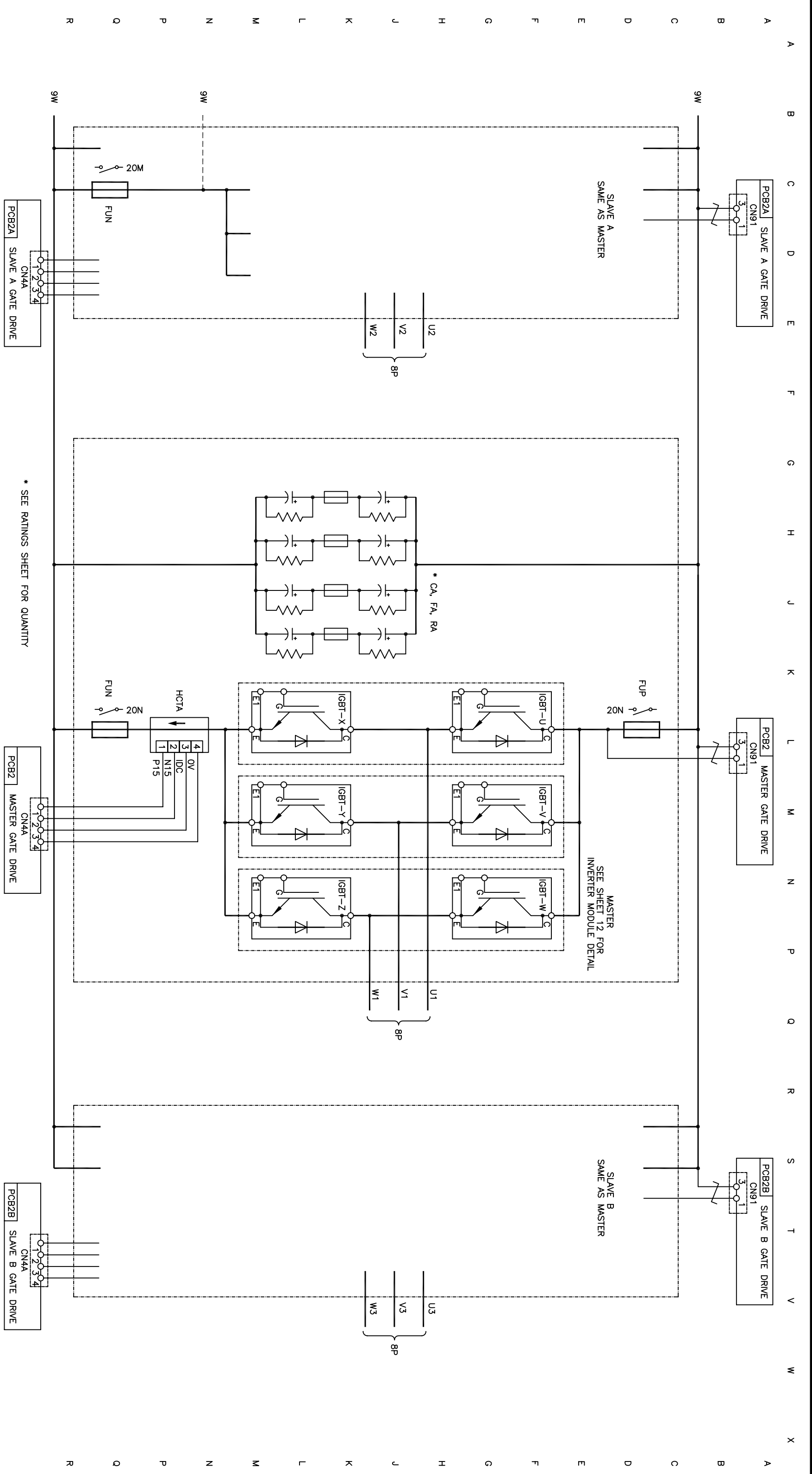
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TITLE:  
**MAIN CIRCUIT - AC IN/DC BUS**  
**3 POWER MODULES G3+B 480VAC**  
 CUSTOMER:

PROJECT NUMBER:  
 DRAWING NUMBER:  
**1808HR09**

REVISION: 0  
 SCALE:





\* SEE RATINGS SHEET FOR QUANTITY

REV	DATE	DESCRIPTION	BY	CHK	APPR
0	10/17/05	FIRST ISSUE	HHP		
1					
2					
3					
4					

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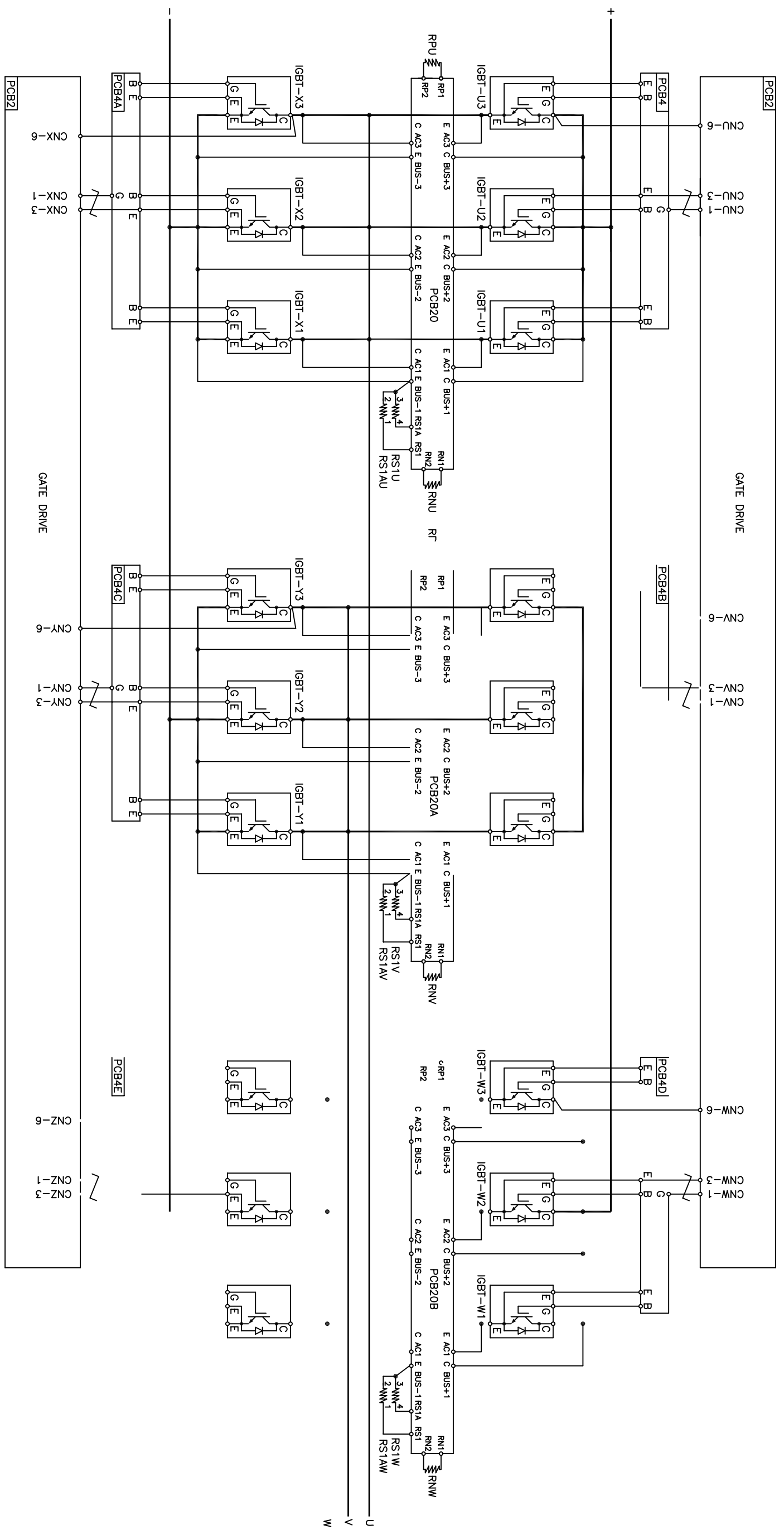
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TITLE:  
**MAIN CIRCUIT - DC BUS/AC OUT**  
**3 POWER MODULES G3+B 480VAC**

CUSTOMER:  
PROJECT NUMBER:

REVISION: 0  
SCALE:

DRAWING NUMBER:  
**1808HR10**



SEE RATINGS SHEET FOR IGBT QUANTITY

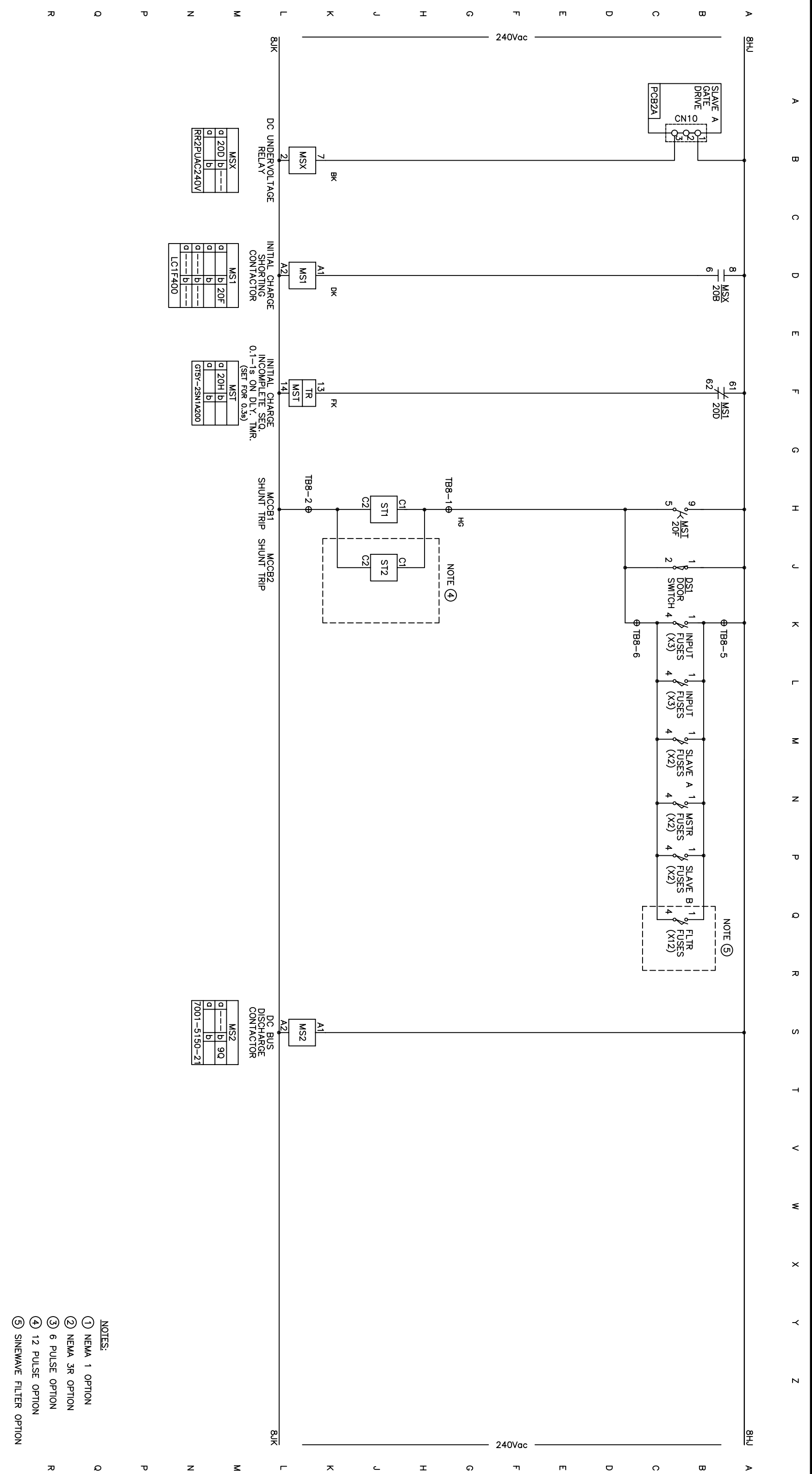
REV	DATE	DESCRIPTION	BY	CHK	APPR
0	10/17/05	FIRST ISSUE	HHP		
1					
2					
3					
4					

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TITLE:  
**MAIN CIRCUIT DETAIL - INVERTER**  
**3 POWER MODULES G3+B 480VAC**  
 CUSTOMER:  
 PROJECT NUMBER:

REVISION: 0  
 SCALE:  
 DRAWING NUMBER:  
**1808HR12**





MSX	d	20D	b	---
	d		b	---
	d		b	---
	d		b	---

MS1	d		b	20F
	d		b	---
	d		b	---
	d		b	---

MST	d	20H	b	
	d		b	---
	d		b	---
	d		b	---

MST	d		b	
	d		b	---
	d		b	---
	d		b	---

MS2	d	---	b	9Q
	d	---	b	---
	d	---	b	---
	d	---	b	---

MS2	d	---	b	9Q
	d	---	b	---
	d	---	b	---
	d	---	b	---

MS2	d	---	b	9Q
	d	---	b	---
	d	---	b	---
	d	---	b	---

MS2	d	---	b	9Q
	d	---	b	---
	d	---	b	---
	d	---	b	---

MS2	d	---	b	9Q
	d	---	b	---
	d	---	b	---
	d	---	b	---

MS2	d	---	b	9Q
	d	---	b	---
	d	---	b	---
	d	---	b	---

MS2	d	---	b	9Q
	d	---	b	---
	d	---	b	---
	d	---	b	---

MS2	d	---	b	9Q
	d	---	b	---
	d	---	b	---
	d	---	b	---

- NOTES:
- ① NEMA 1 OPTION
  - ② NEMA 3R OPTION
  - ③ 6 PULSE OPTION
  - ④ 12 PULSE OPTION
  - ⑤ SINEWAVE FILTER OPTION

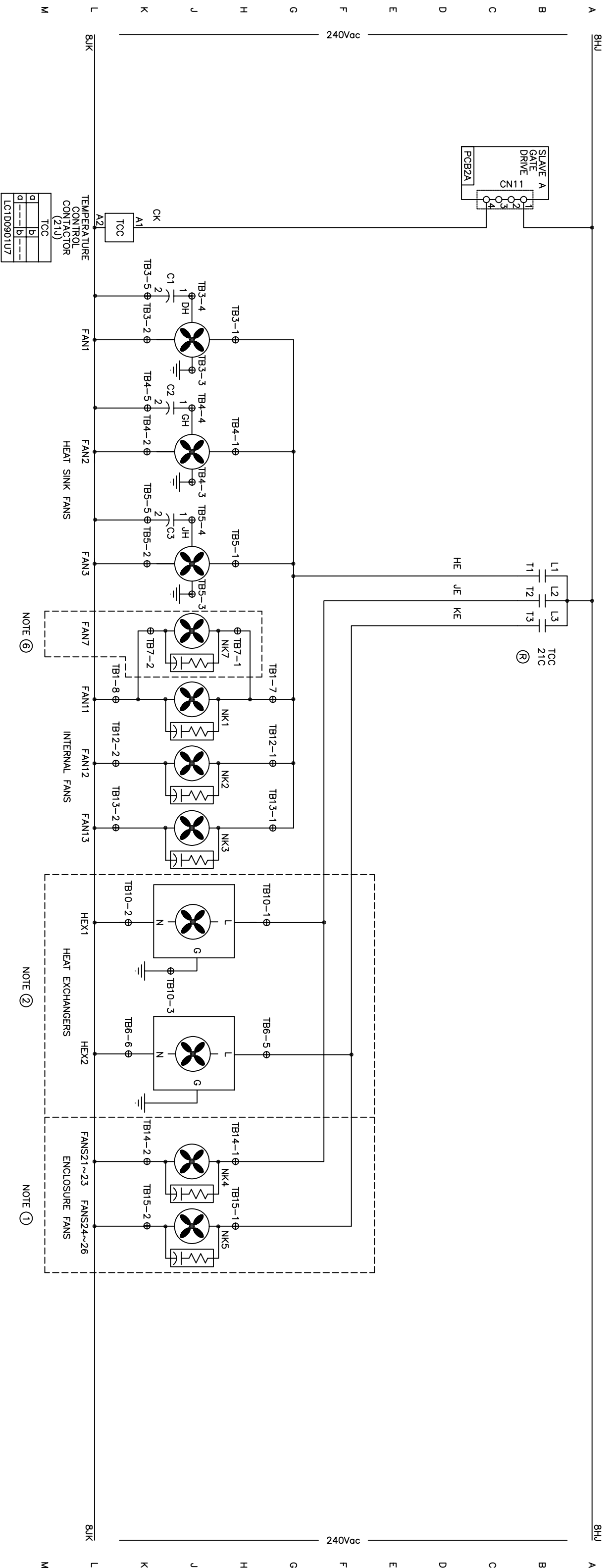
REV	DATE	DESCRIPTION	BY	CHK	APPR
0	10/17/05	FIRST ISSUE	HHP		
1					
2					
3					
4					

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TITLE:  
**CONTROL CIRCUIT**  
 CUSTOMER:  
**3 POWER MODULES G3+B 480VAC**

PROJECT NUMBER:  
 DRAWING NUMBER:  
**1808HR20**

REVISION: 0 SCALE:



TCC	a	b
TCC	a	b
LC1D0901U7		

NOTE ⑥

NOTE ②

NOTE ①

- NOTES:
- ① NEMA 1 OPTION
  - ② NEMA 3R OPTION
  - ③ 6 PULSE OPTION
  - ④ 12 PULSE OPTION
  - ⑤ SINEWAVE FILTER OPTION
  - ⑥ IGBT7 OPTION

REV	DATE	DESCRIPTION	BY	CHK	APPR
0	10/17/05	FIRST ISSUE	HHP	JT	JBA
1	12/06/07	REMOVED "NEMA 1 ONLY" FROM NOTE 6.	JMP		
2					
3					
4					

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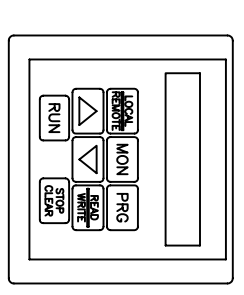
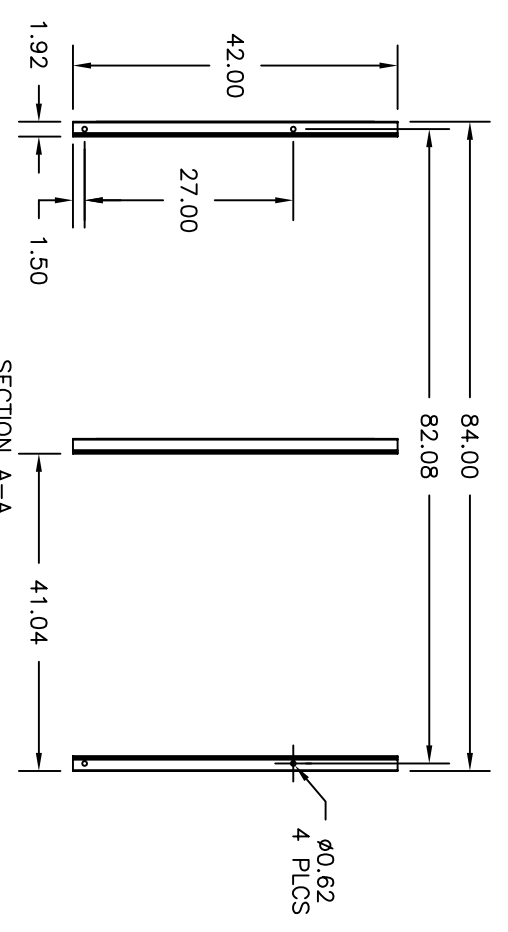
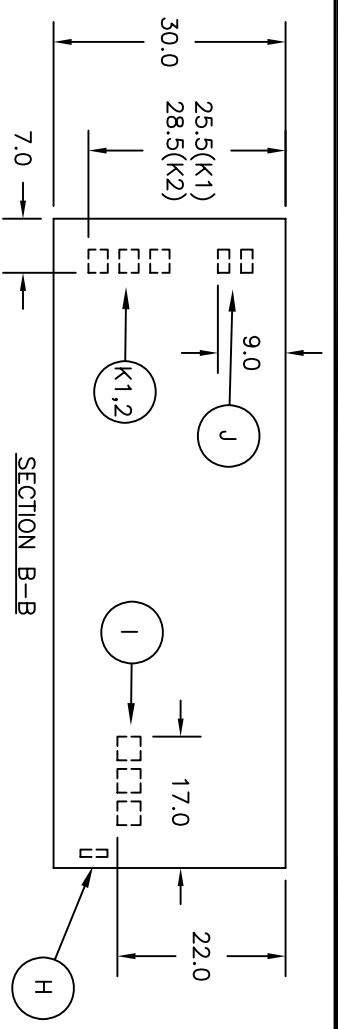
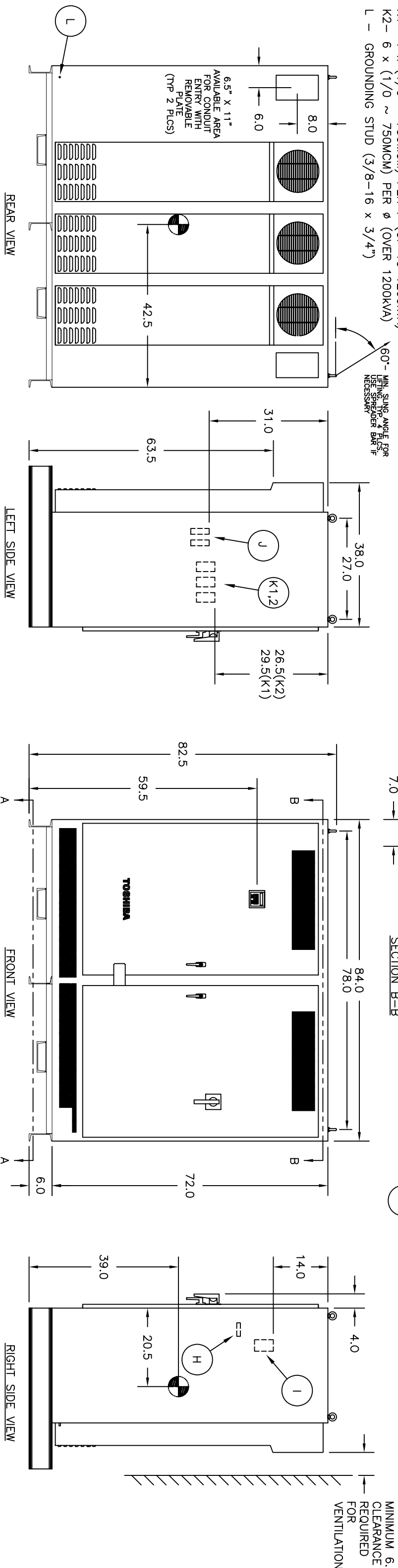
TITLE:  
**CONTROL CIRCUIT-TEMPERATURE CONTROL**  
**3 POWER MODULES G3+B 480VAC**  
 CUSTOMER:  
 PROJECT NUMBER:

REVISION: 1  
 SCALE:  
 DRAWING NUMBER:  
**1808HR21**



**LEGEND**

- H - GROUND LUG (1/0~350MCM)
  - I - INPUT TERMINATIONS (REAR ENTRY)
    - 4 x (1/0 ~ 750MCM) PER Ø (UP TO 1200KVA)
    - 6 x (1/0 ~ 750MCM) PER Ø (OVER 1200KVA)
  - J - DB RESISTOR CONNECTIONS (WHEN INSTALLED)
    - 2 x (4 AWG ~ 350MCM) PER TERMINAL
- OUTPUT TERMINATIONS (REAR ENTRY)
- K1 - 4 x (1/0 ~ 750MCM) PER Ø (UP TO 1200KVA)
  - K2 - 6 x (1/0 ~ 750MCM) PER Ø (OVER 1200KVA)
  - L - GROUNDING STUD (3/8-16 x 3/4")



CENTER OF GRAVITY

**NOTES**

- DIMENSIONS ARE IN INCHES.
- DIMENSIONS FOR REFERENCE ONLY.
- WEIGHT: APPROX. 3500lbs (1600kg)
- COLOR: GRAY
- INPUT/OUTPUT TERMINATION BENDING
- SPACE IN ACCORDANCE WITH NEC TABLE 312-6(b)

REV	DATE	DESCRIPTION	BY	CHK	APPR
4					
3					
2					
1	11/21/08	KPD WAS 57.5; ADD GRD STUD; REV BASE	JT		
0	10/17/05	FIRST ISSUE	HHP	JT	JBA

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TITLE: ENCLOSURE OUTLINE-N1 NON SINEWAVE  
CUSTOMER: 1200~1500KVA G3+B 480VAC 6 PULSE

PROJECT NUMBER: 1808HR34  
DRAWING NUMBER: 1808HR34

REVISION: 1  
SCALE: 1.0=26.0

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