

CUST. NAME: CARRIER CORPORATION

PROJECT NO.: CHILLER CONTROLLER STANDARDS

P.O. NUMBER:

DESCRIPTION: GX9650~80KAAISM
600V, 3ø, 60Hz, 382~713RLA
TYPE 1 ENCLOSURE W/ISM MODULE
UL LISTED

☒ 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:

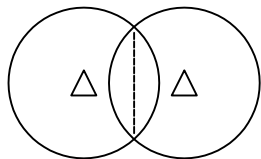
Initial

Date

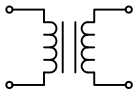
NO	DRAWING NO	REV	DRAWING DESCRIPTION
00	I808R800	0	DRAWING LIST
01	----	--	-----
02	I808R802	0	DRAWING LEGEND
03	----	--	-----
04	----	--	-----
05	I808R805	0	EQUIPMENT RATINGS
06	----	--	-----
07	----	--	-----
08	I808R808	0	THREE–LINE DIAGRAM
09	I808R809	0	MAIN CIRCUIT – AC IN/DC BUS
10	I808R810	0	MAIN CIRCUIT – DC BUS/AC OUT
11	----	--	-----
12	I808R812	0	MAIN CIRCUIT DETAIL – INVERTER
13	----	--	-----
14	----	--	-----
15	----	--	-----

NO	DRAWING NO	REV	DRAWING DESCRIPTION
16	----	--	-----
17	----	--	-----
18	I808R818	0	LOGIC INTERFACE CIRCUIT
19	----	--	-----
20	I808R820	0	CONTROL CIRCUIT
21	I808R821	0	CONTROL CIRCUIT – TEMPERATURE CONTROL
22	----	--	-----
23	----	--	-----
24	I808R824	0	ISM MODULE INTERFACE
25	----	--	-----
26	----	--	-----
27	----	--	-----
28	----	--	-----
29	I808R829	0	PCB INTERCONNECTIONS
30	----	--	-----
31	I808R831	0	ENCLOSURE OUTLINE

4						TOSHIBA TOSHIBA INTERNATIONAL CORPORATION MADE IN HOUSTON, TEXAS U.S.A. THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF TOSHIBA INTERNATIONAL CORPORATION AND SHALL NOT BE REPRODUCED, USED, OR DISCLOSED TO OTHERS UNLESS PRIOR WRITTEN AUTHORIZATION IS OBTAINED.	TITLE: DRAWING LIST – 382~713RLA 500~800kVA, GX9 600VAC		REVISION: 0		SCALE:	
3												
2												
1												
0	04/10/14	FIRST ISSUE	EYANG	SE	RKR							
REV	DATE	DESCRIPTION	BY	CHK	APPR			CUSTOMER:	PROJECT NUMBER:	DRAWING NUMBER: I808R800		



POWER TRANSFORMER



CONTROL POWER OR
POTENTIAL TRANSFORMER



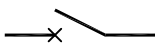
CURRENT TRANSFORMER



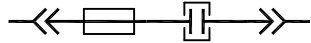
REACTOR



LIGHTNING ARRESTOR



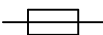
CIRCUIT BREAKER



FUSED VACUUM
DRAWOUT CONTACTOR



AIR CONTACTOR



FUSE



CAPACITOR



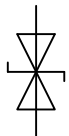
RESISTOR



DIODE



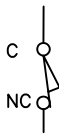
THYRISTOR



SURGE ABSORBER

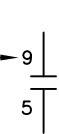


INSULATED GATE
BIPOLAR TRANSISTOR (IGBT)



LIMIT SWITCH

DENOTES ACTUAL
CONTACT USED



CR1
12F

DEVICE NAME

N.O. CONTACT

DENOTES RELAY CAN BE FOUND
ON PAGE 12, COLUMN F



CR1
12F

N.C. CONTACT



IR
14K

OFF-TIME DELAY CONTACT N.C.



IR
14K

OFF-TIME DELAY CONTACT N.O.



IR1
14M

ON-TIME DELAY CONTACT N.C.



IR1
14M

ON-TIME DELAY CONTACT N.O.



IS
22S

THERMAL SWITCH N.C.



CR

RELAY COIL

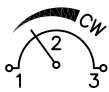
NAME	
a	b 11B
a	b
a	b
a	b
a	b
MODEL #	

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

TB-10

CONTROL TERMINAL BLOCK



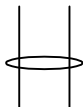
PLUG/CONNECTOR ASSEMBLY



GROUND



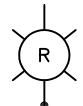
TWISTED WIRE



SHIELDED WIRE



METER



ILLUMINATED PUSH BUTTON
OR INDICATING LIGHT
(LETTER = COLOR)



COOLING FAN

LEGEND

ACL AC LINE REACTOR
A/C AIR CONDITIONER
AM AMMETER
AMVM AMMETER SWITCH
AS AMMETER OR VOLTMETER
ASD ADJUSTABLE SPEED DRIVE
CL CURRENT LIMITER
CPT CONTROL 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
RFF RADIO FREQUENCY FILTER
VM VOLTMETER
VS VOLTMETER SWITCH
XFMR TRANSFORMER
ZCT GROUND FAULT CT

SYMBOL LEGEND

J JUMPER
M MECHANICAL INTERLOCK

DU - CONTACTOR DRIVE UNIT
LS1 - DRAWOUT UNIT INTERLOCK, CLOSED IN EITHER
"TEST" OR "RUN" POSITION
LS2 - RACKING HANDLE INTERLOCK, NORMALLY CLOSED,
OPENS DURING RACKING OPERATION
TOC - TRUCK OPERATED CONTACT, NORMALLY OPEN,
CLOSED IN CONTACTOR RUN POSITION

DRIVE MODEL NUMBER DEVELOPMENT

DRIVE SERIES GX9
RATED VOLTAGE 6 - 600V
DRIVE RATING 50K - 500kVA
60K - 625kVA
70K - 725kVA
80K - 800kVA
ISM ISM MODULE TYPE
CONFIGURATION AA - INPUT DISCONNECT

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TITLE:

DRAWING LEGEND - 382~713RLA
500~800kVA, GX9 600VAC

CUSTOMER:

PROJECT NUMBER:

REVISION:

0

SCALE:

DRAWING NUMBER:

1808R802

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1					
0	04/10/14	FIRST ISSUE	EY	SE	RKR
REV	DATE	DESCRIPTION	BY	CHK	APPR

PAGE	DEVICE	DESCRIPTION	500kVA, 600V, 481A, 445RLA		625kVA, 600V, 601A, 556RLA		725kVA, 600V, 698A, 646RLA		800kVA, 600V, 770A, 713RLA	
			TYPE FORM	RATING	TYPE FORM	RATING	TYPE FORM	RATING	TYPE FORM	RATING
8	MCCB1	CIRCUIT BREAKER	CMD63B600	600V, 600A, 65KAIC@600V	CMD63B800	600V, 800A, 65KAIC@600V	CND63B100	600V, 1000A, 65KAIC@600V	CND63B100	600V, 1000A, 65KAIC@600V
	8FU1, 2	CPT1 PRIMARY FUSE	CRF ATQR 3	3A, 600V, CC, 200KAIC	CRF ATQR 3	3A, 600V, CC, 200KAIC	CRF ATQR 3	3A, 600V, CC, 200KAIC	CRF ATQR 3	3A, 600V, CC, 200KAIC
	8FU3	CPT1 SECONDARY FUSE	GLD TRM 5	5A, 250V, TD, 10KAIC	GLD TRM 5	5A, 250V, TD, 10KAIC	GLD TRM 5	5A, 250V, TD, 10KAIC	GLD TRM 5	5A, 250V, TD, 10KAIC
	FR, FS, FT	SEMICONDUCTOR FUSE	CRF 6.9URD32TTF1000	690V, 1000A (X3)	CRF 6.9URD32TTF1000	690V, 1000A (X3)	CRF 6.9URD32TTF1000	690V, 1000A (X3)	CRF 6.9URD32TTF1000	690V, 1000A (X3)
	BFI	BLOWN FUSE INDICATOR	CRF MS3V1-5BS	250V, 3A	CRF MS3V1-5BS	250V, 3A	CRF MS3V1-5BS	250V, 3A	CRF MS3V1-5BS	250V, 3A
	CPT1	CNTL. PWR. TRANSFORMER	SQD 9070T750D37	600:120/240V, 750VA, 50/60HZ	SQD 9070T750D37	600:120/240V, 750VA, 50/60HZ	SQD 9070T750D37	600:120/240V, 750VA, 50/60HZ	SQD 9070T750D37	600:120/240V, 750VA, 50/60HZ
	ACL1, 2	OUTPUT LINE REACTOR	TCI KDRG1C	360A, 1%, 600V	TCI KDRG1C	360A, 1%, 600V	TCI KDRJ2C	480A, 1%, 600V	TCI KDRJ2C	480A, 1%, 600V
	HCTU, V, W	HALL CT	LEM HAX500-S	500A:4V	LEM HAX500-S/SP11B	625A:4V	LEM HAX500-S/SP11C	725A:4V	LEM HAX500-S/SP11C	725A:4V
	1CB	OIL PUMP CIRCUIT BREAKER	HLL36015	600V, 15A	HLL36015	600V, 15A	HLL36015	600V, 15A	HLL36015	600V, 15A
	2CB	CONTROL CIRCUIT BREAKER	HLL36015	600V, 15A	HLL36015	600V, 15A	HLL36015	600V, 15A	HLL36015	600V, 15A
	3CB	PUMPOUT UNIT CIRCUIT BREAKER	HLL36015	600V, 15A	HLL36015	600V, 15A	HLL36015	600V, 15A	HLL36015	600V, 15A
	CPT2	CHILLER CNTL. PWR. TRANSFORMER	9070T3000D5	600:120V, 3kVA	9070T3000D5	600:120V, 3kVA	9070T3000D5	600:120V, 3kVA	9070T3000D5	600:120V, 3kVA
	1~3FU	CNTL. PWR. FUSE	ATM-5	600V, 5A	ATM-5	600V, 5A	ATM-5	600V, 5A	ATM-5	600V, 5A
	4,5FU	CNTL. PWR. FUSE	ATMR-12	600V, 12A	ATMR-12	600V, 12A	ATMR-12	600V, 12A	ATMR-12	600V, 12A
	6FU	CNTL. PWR. FUSE	OTM-30	250V, 30A	OTM-30	250V, 30A	OTM-30	250V, 30A	OTM-30	250V, 30A
	7FU	CNTL. PWR. FUSE	OTM-10	250V, 10A	OTM-10	250V, 10A	OTM-10	250V, 10A	OTM-10	250V, 10A
	CT1~3	LINE CURRENT TRANSFORMER	3P82-501	500:5	3P93-XXX	SEE TABLE	3P93-XXX	SEE TABLE	3P93-XXX	SEE TABLE
9	ACL3	INPUT LINE REACTOR	KDRULL42L	576A, "LOW-Z"(~1.5-3%Z)@600V	KDRULL43L	672A, "LOW-Z"(~1.5-3%Z)@600V	KDRULL44L	768A, "LOW-Z"(~1.5-3%Z)@600V	KDRULX41L	864A, "LOW-Z"(~1.5-3%Z)@600V
	MS1	SOFT START CONTACTOR	TMQ LC1F400U7	400A, 600V, 3P	TMQ LC1F400U7	400A, 600V, 3P	TMQ LC1F400U7	400A, 600V, 3P	TMQ LC1F400U7	400A, 600V, 3P
	MS2	CAP DISCHARGE CONTACTOR	CLK 7001-5150-21	40A, 500VDC, 1P	CLK 7001-5150-21	40A, 500VDC, 1P	CLK 7001-5150-21	40A, 500VDC, 1P	CLK 7001-5150-21	40A, 500VDC, 1P
	OH1T, 2T	T-STAT 75°C FIXED N.C.	TKN OHD3-75B	75°C	TKN OHD3-75B	75°C	TKN OHD3-75B	75°C	TKN OHD3-75B	75°C
	OH1B, 2B	T-STAT 90°C FIXED N.C.	TKN OHD3-90B	90°C	TKN OHD3-90B	90°C	TKN OHD3-90B	90°C	TKN OHD3-90B	90°C
	THR1	HEATSINK THERMISTOR	FEN 590-32BP01-203	2KOHM @ 25 DEG C	FEN 590-32BP01-203	2KOHM @ 25 DEG C	FEN 590-32BP01-203	2KOHM @ 25 DEG C	FEN 590-32BP01-203	2KOHM @ 25 DEG C
	R1	SOFT START RESISTOR	PWO WR33	0.67 OHM, 300W, 2S	PWO WR33	0.67 OHM, 300W, 2S	PWO WR33	0.67 OHM, 300W, 2S	PWO WR33	0.67 OHM, 300W, 2S
	R2	CAP DISCHARGE RESISTOR	PWO SXR2-500	500 OHM, 300W, 3S	PWO SXR2-500	500 OHM, 300W, 3S	PWO SXR2-500	500 OHM, 300W, 3S	PWO SXR2-500	500 OHM, 300W, 3S
	REC1A~6A, 1M~6M	DIODE PACK	EUP DD600N16K	1600V, 600A	EUP DD600N16K	1600V, 600A	EUP DD600N16K	1600V, 600A	EUP DD600N16K	1600V, 600A
	SA1~3	SURGE SUPPRESSOR	EPC B40K750	750V	EPC B40K750	750V	EPC B40K750	750V	EPC B40K750	750V
	9R1~9R4	RESISTOR	RS-10	40KOHM, 10W	RS-10	40KOHM, 10W	RS-10	40KOHM, 10W	RS-10	40KOHM, 10W
	9C1	CAPACITOR	26F7502	4uF, 1500V	26F7502	4uF, 1500V	26F7502	4uF, 1500V	26F7502	4uF, 1500V
10, 12	HCTDC	HALL CT	NNE HEC-01A(AMO)	160A:4V	NNE HEC-01A(AMO)	160A:4V	NNE HEC-01A(AMO)	160A:4V	NNE HEC-01A(AMO)	160A:4V
	CA	CAPACITOR	HIT HCGF5AS2G123YQ	12kUF, 400VDC (3P/3S)	HIT HCGF5AS2G123YQ	12kUF, 400VDC (3P/3S)	HIT HCGF5AS2G123YQ	12kUF, 400VDC (3P/3S)	HIT HCGF5AS2G123YQ	12kUF, 400VDC (3P/3S)
	RA	CAP BALANCING RESISTOR	DLR RS-10	50 KOHM, 10W (X9)	DLR RS-10	50 KOHM, 10W (X9)	DLR RS-10	50 KOHM, 10W (X9)	DLR RS-10	50 KOHM, 10W (X9)
	IGBT	IGBT	EUP FZ400R17KE3	1700V, 400A (X18)	EUP FZ400R17KE3	1700V, 400A (X18)	EUP FZ400R17KE3	1700V, 400A (X18)	EUP FZ400R17KE3	1700V, 400A (X18)
	C10~C10H	SNUBBER CAPACITOR	ASC TOS39-5.0-10-1200	5.0UF, 1200VDC	ASC TOS39-5.0-10-1200	5.0UF, 1200VDC	ASC TOS39-5.0-10-1200	5.0UF, 1200VDC	ASC TOS39-5.0-10-1200	5.0UF, 1200VDC
18	LL, RCH, FLX	CONTROL RELAY	RH4BUAC120V	120VAC, 10A	RH4BUAC120V	120VAC, 10A	RH4BUAC120V	120VAC, 10A	RH4BUAC120V	120VAC, 10A
	20	MST	TIMER, ON DELAY	IDE GT5Y-2SN1A200	240VAC COIL, 0.1S-10M DELAY	IDE GT5Y-2SN1A200	240VAC COIL, 0.1S-10M DELAY	IDE GT5Y-2SN1A200	240VAC COIL, 0.1S-10M DELAY	IDE GT5Y-2SN1A200
	MSX	CONTROL RELAY	IDE RR2P-U-AC240V	240VAC COIL, 7A	IDE RR2P-U-AC240V	240VAC COIL, 7A	IDE RR2P-U-AC240V	240VAC COIL, 7A	IDE RR2P-U-AC240V	240VAC COIL, 7A
	DS1	DOOR SWITCH	IDE TABD311N-R	10A, 600V	IDE TABD311N-R	10A, 600V	IDE TABD311N-R	10A, 600V	IDE TABD311N-R	10A, 600V
	PS1	POWER SUPPLY	RS-25-15	5, +15, -15V, 25W	RS-25-15	5, +15, -15V, 25W	RS-25-15	5, +15, -15V, 25W	RS-25-15	5, +15, -15V, 25W
	20R1	RESISTOR	MR25R-5K11-F50	5.11KOHM, .25W	MR25R-5K11-F50	5.11KOHM, .25W	MR25R-5K11-F50	5.11KOHM, .25W	MR25R-5K11-F50	5.11KOHM, .25W
	21	TCC	CONTACTOR	TMQ LC1D09U7	240VAC COIL, 9A, 600V	TMQ LC1D09U7	240VAC COIL, 9A, 600V	TMQ LC1D09U7	240VAC COIL, 9A, 600V	TMQ LC1D09U7
	FAN1, 2	HEAT SINK FAN	ZA RH31M-4EK.2F.1R	230VAC, 50/60HZ	ZA RH31M-4EK.2F.1R	230VAC, 50/60HZ	ZA RH31M-4EK.2F.1R	230VAC, 50/60HZ	ZA RH31M-4EK.2F.1R	230VAC, 50/60HZ
	C1, 2	FAN RUN CAPACITOR	SHZ CMPS/X349U	350V, 4uF	SHZ CMPS/X349U	350V, 4uF	SHZ CMPS/X349U	350V, 4uF	SHZ CMPS/X349U	350V, 4uF
	FAN11, 12	INTERNAL FAN	ETR 129XR0281010	240VAC, 15W, 50/60HZ	ETR 129XR0281010	240VAC, 15W, 50/60HZ	ETR 129XR0281010	240VAC, 15W, 50/60HZ	ETR 129XR0281010	240VAC, 15W, 50/60HZ
	FAN21, 22	ENCLOSURE FAN	ETR 148VK0281030	240VAC, 33W, 50/60HZ	ETR 148VK0281030	240VAC, 33W, 50/60HZ	ETR 148VK0281030	240VAC, 33W, 50/60HZ	ETR 148VK0281030	240VAC, 33W, 50/60HZ
	NK1, 2	SURGE SUPPRESSOR	MCN RFM25M224KD	250VAC, 0.22uF, 220 OHM	MCN RFM25M224KD	250VAC, 0.22uF, 220 OHM	MCN RFM25M224KD	250VAC, 0.22uF, 220 OHM	MCN RFM25M224KD	250VAC, 0.22uF, 220 OHM
24	VSR, STR	CONTROL RELAY	RH4BUAC120V	120VAC, 10A	RH4BUAC120V	120VAC, 10A	RH4BUAC120V	120VAC, 10A	RH4BUAC120V	120VAC, 10A
	HPR	CONTROL RELAY	RH4BUAC24V	24VAC, 10A	RH4BUAC24V	24VAC, 10A	RH4BUAC24V	24VAC, 10A	RH4BUAC24V	24VAC, 10A
	24PL1~3	PILOT LIGHT	ZB5-AV3	120V:6V	ZB5-AV3	120V:6V	ZB5-AV3	120V:6V	ZB5-AV3	120V:6V
29	PCB1	CONTROL BOARD	56000G	---	56000G	---	56000G	---	56000G	---
	PCB2, 2A	GATE DRIVE BOARD	42755P6X	---	42755P6X	---	42755P6X	---	42755P6X	---
	PCB3	INTERFACE BOARD	PC61910P120C	---	PC61910P120C	---	PC61910P120C	---	PC61910P120C	---
	PCB4~4E	GATE-EMITTER BOARD	38383C	---	38383C	---	38383C	---	38383C	---
	PCB5	TERMINAL BLOCK BOARD	48570A	---	48570A	---	48570A	---	48570A	---
	PCB5A	JUMPER BOARD	50611A	---	50611A	---	50611A	---	50611A	---
	PCB11	SPEED SEARCH BOARD	55594A	---	55594A	---	55594A	---	55594A	---
	EOI	OPERATOR INTERFACE	58363-X	---	58363-X	---	58363-X	---	58363-X	---

RLA/kVA	RANGE
RLA	kVA
382~445	500
446~556	625
557~646	725
647~713	800

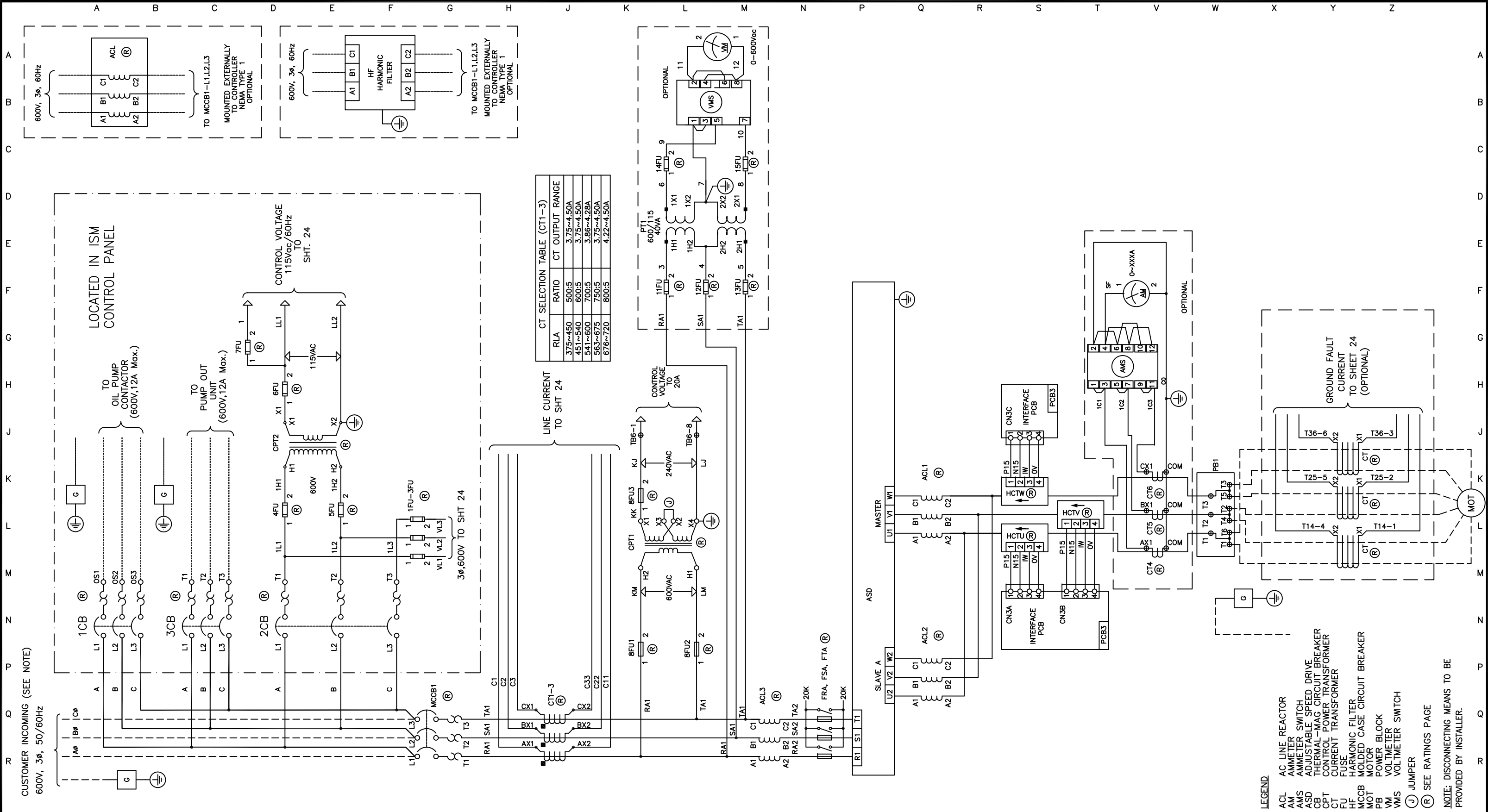
CT SELECTION TABLE (CT1-3)		
RLA	RATIO	CT OUTPUT RANGE
375~450	500:5	3.75~4.50A
451~540	600:5	3.75~4.50A
541~600	700:5	3.86~4.28A
563~675	750:5	3.75~4.50A
676~720	800:5	4.22~4.50A

	04/10/14	FIRST ISSUE	EY	SE	RKR
V	DATE	DESCRIPTION	BY	CHK	APPR

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TITLE: EQUIPMENT RATINGS – 382~713RLA 500~800kVA, GX9 600VAC		REVISION: 0	SCALE:
CUSTOMER:		PROJECT NUMBER:	DRAWING NUMBER: 1808R805

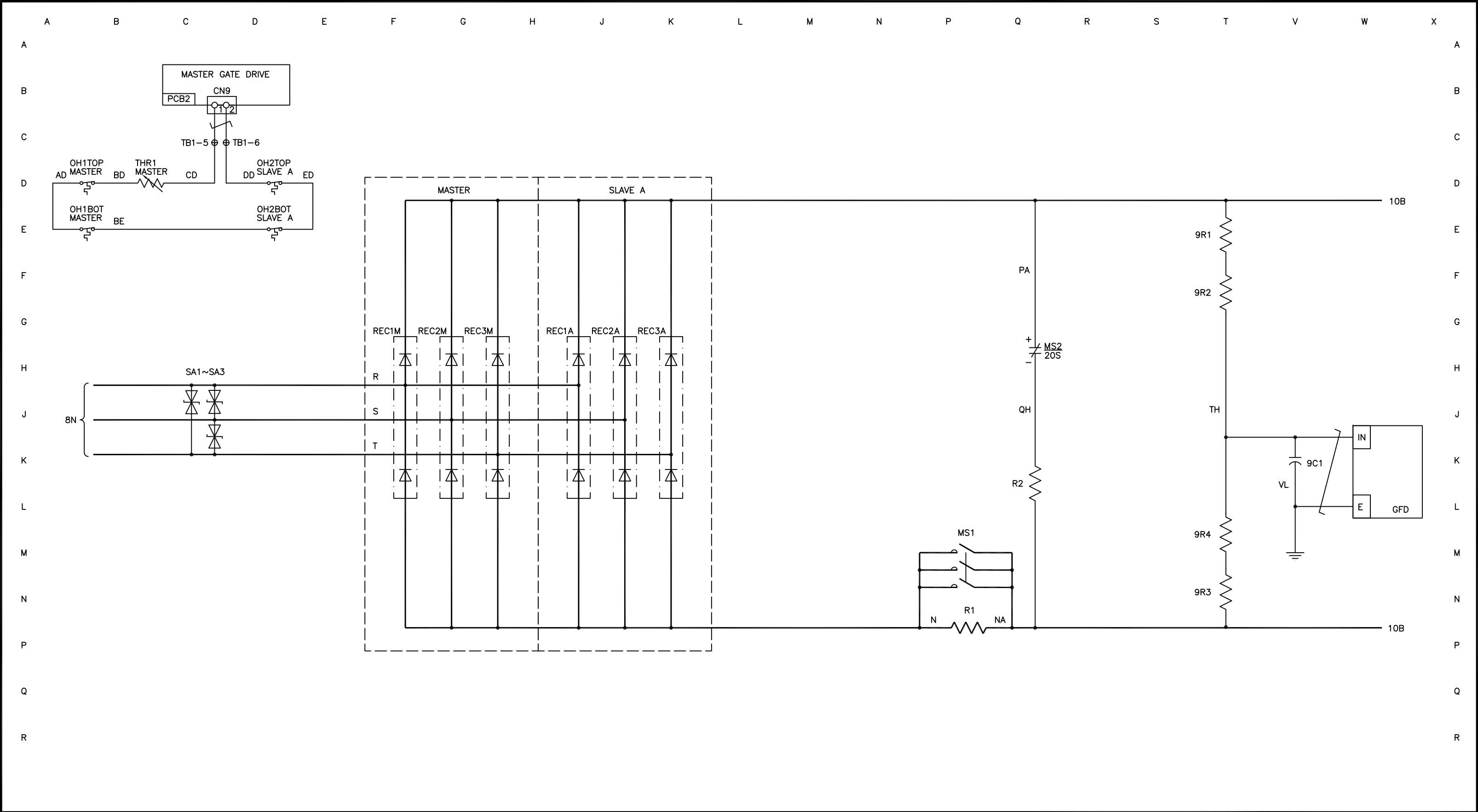


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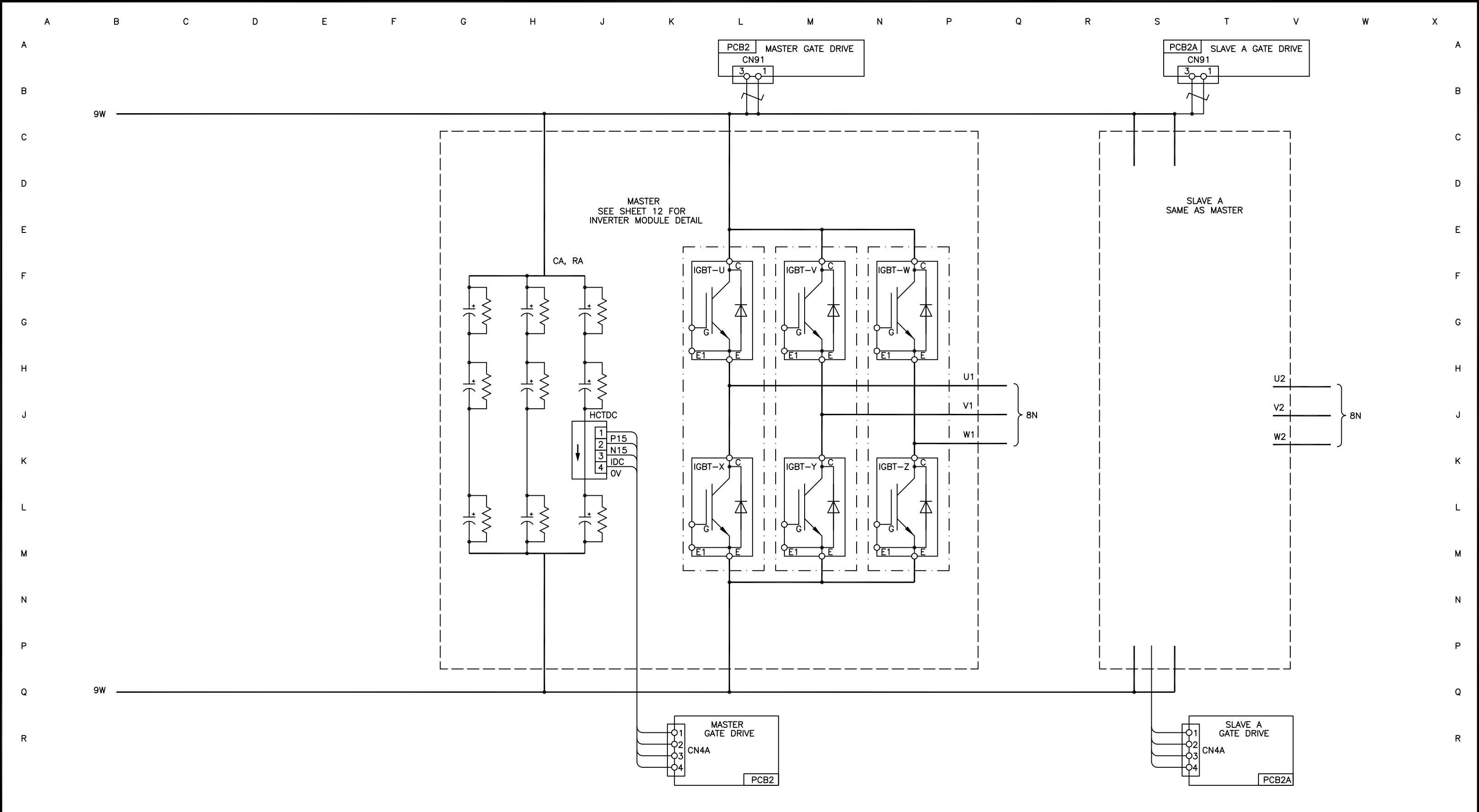
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MADE IN HOUSTON, TEXAS U.S.A.

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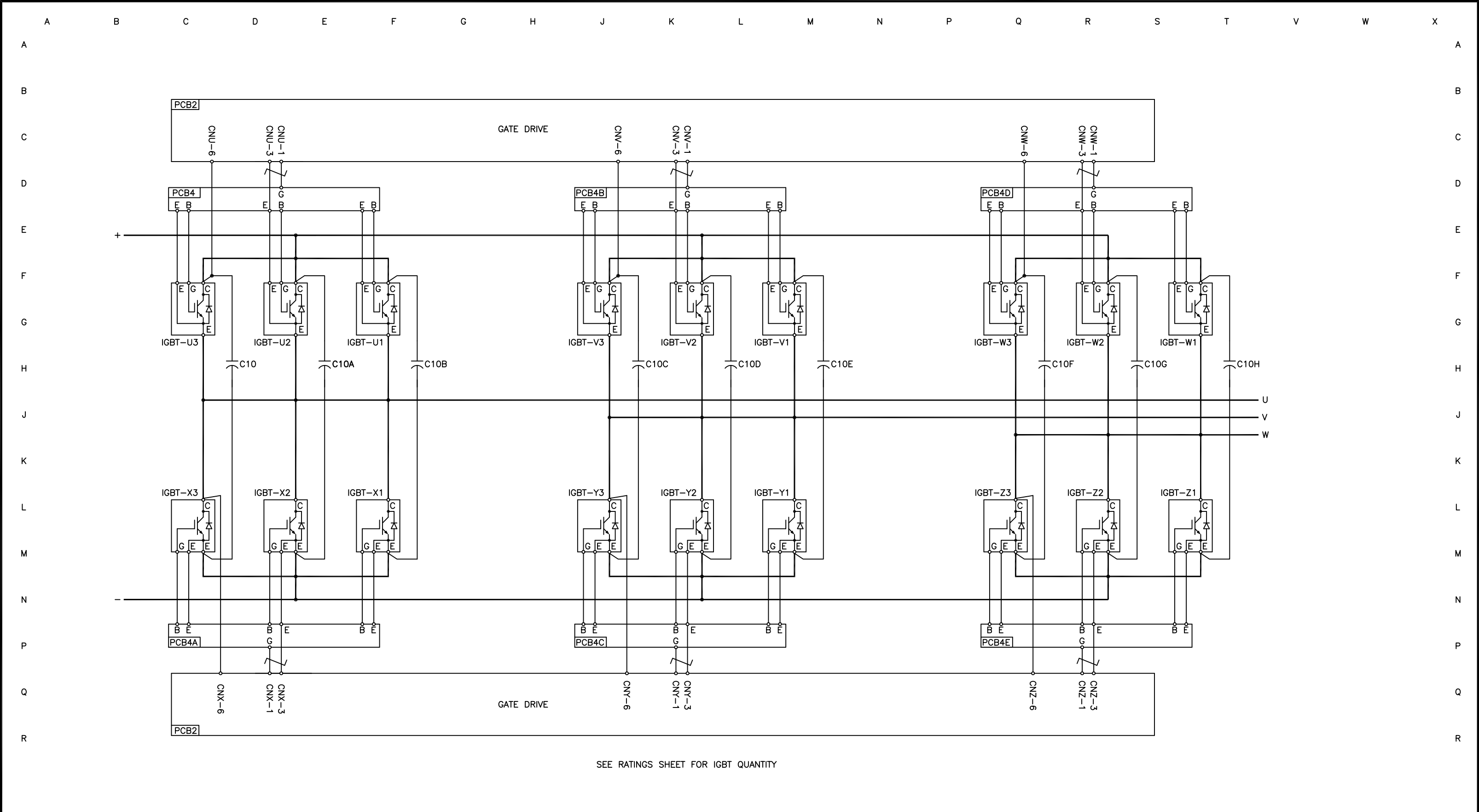
TITLE: THREE-LINE DIAGRAM - 382~713RLA 500~800kVA, GX9 600VAC		REVISION: 0	SCALE:
CUSTOMER:	PROJECT NUMBER:	DRAWING NUMBER: 1808R808	



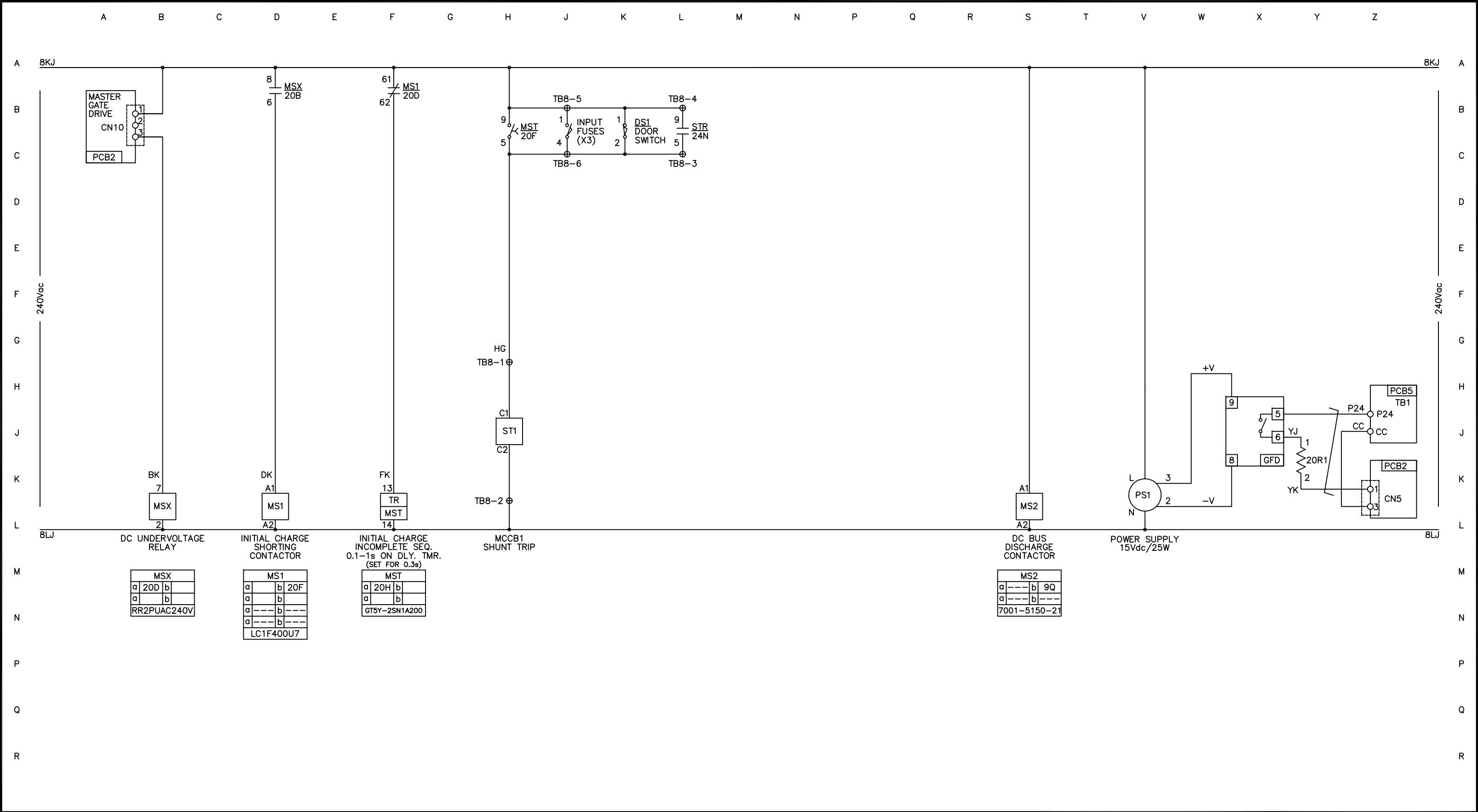
4						TOSHIBA TOSHIBA INTERNATIONAL CORPORATION MADE IN HOUSTON, TEXAS U.S.A. THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF TOSHIBA INTERNATIONAL CORPORATION AND SHALL NOT BE REPRODUCED, USED, OR DISCLOSED TO OTHERS UNLESS PRIOR WRITTEN AUTHORIZATION IS OBTAINED.	TITLE: AC IN/DC BUS CIRCUIT – 382~713RLA 500~800kVA, GX9 600VAC		REVISION:	SCALE:
3					0					
2										
1										
0	04/10/14	FIRST ISSUE	EY	SE	RKR		CUSTOMER:	PROJECT NUMBER:	DRAWING NUMBER:	
REV	DATE	DESCRIPTION	BY	CHK	APPR			1808R809		



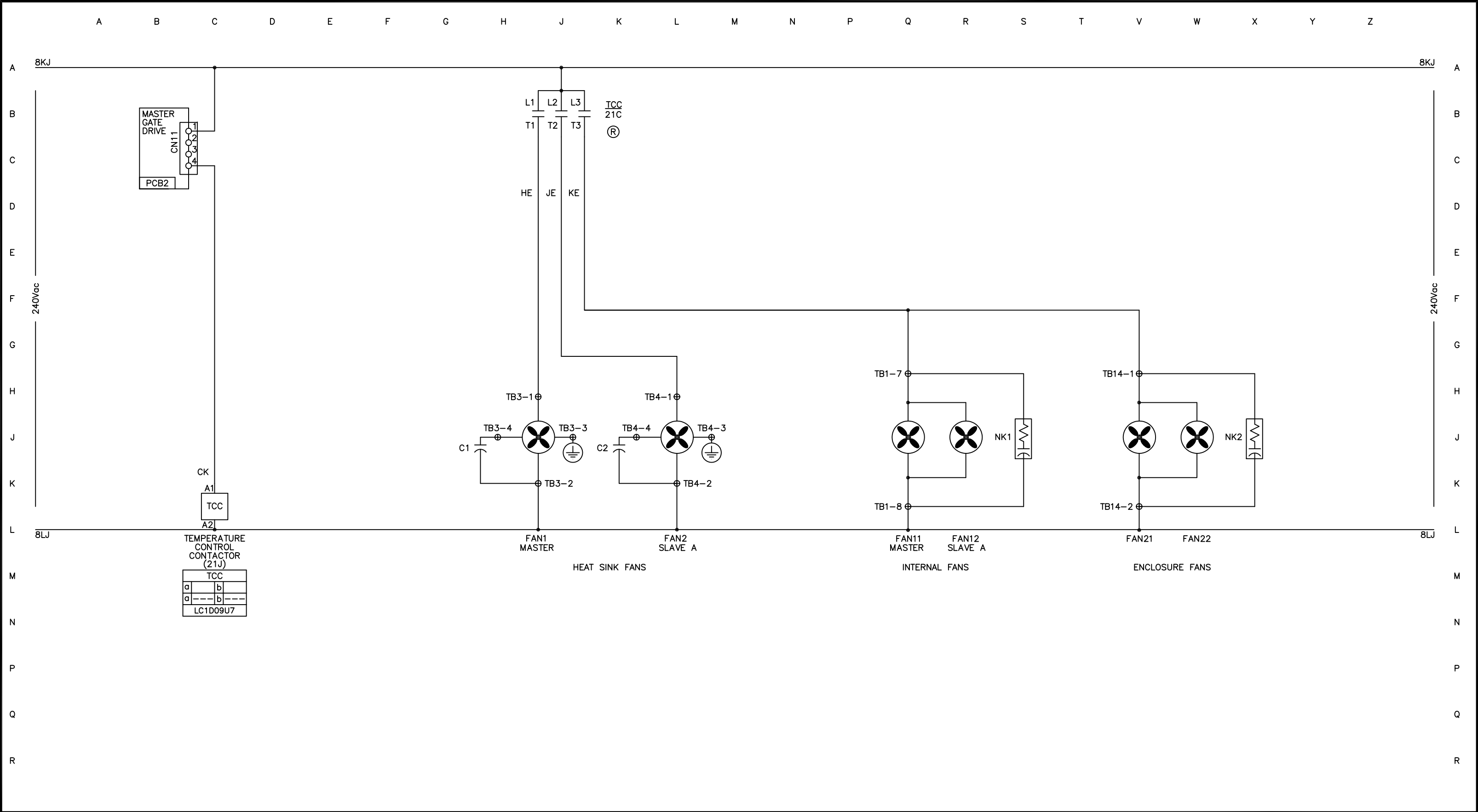
4						TOSHIBA TOSHIBA INTERNATIONAL CORPORATION MADE IN HOUSTON, TEXAS U.S.A. THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF TOSHIBA INTERNATIONAL CORPORATION AND SHALL NOT BE REPRODUCED, USED, OR DISCLOSED TO OTHERS UNLESS PRIOR WRITTEN AUTHORIZATION IS OBTAINED.	TITLE: DC BUS/AC OUT CIRCUIT – 382~713RLA 500~800kVA, GX9 600VAC		REVISION:	SCALE:
3					0					
2										
1										
0	04/10/14	FIRST ISSUE	EY	SE	RKR		CUSTOMER:		PROJECT NUMBER:	DRAWING NUMBER:
REV	DATE	DESCRIPTION	BY	CHK	APPR				1808R810	



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3					0					
2										
1										
0	04/10/14	FIRST ISSUE		EY	SE		RKR	CUSTOMER:	PROJECT NUMBER:	DRAWING NUMBER:
REV	DATE	DESCRIPTION		BY	CHK	APPR			1808R812	



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3					0					
2										
1										
0	04/10/14	FIRST ISSUE	EY	SE	RKR		CUSTOMER:	PROJECT NUMBER:	DRAWING NUMBER:	
REV	DATE	DESCRIPTION	BY	CHK	APPR			1808R820		



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3					0					
2										
1										
0	04/10/14	FIRST ISSUE	EY	SE	RKR		CUSTOMER:	PROJECT NUMBER:	DRAWING NUMBER:	
REV	DATE	DESCRIPTION	BY	CHK	APPR			1808R821		

LEGEND

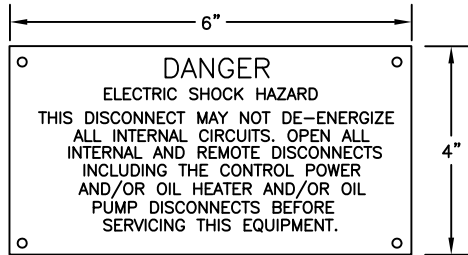
- A - GROUND LUG, TOP/BOTTOM ENTRY (1/0 ~ 350MCM)
B - INPUT TERMINATIONS, TOP ENTRY
2 x (3/0 ~ 500MCM) PER Ø
(75°C TYPES RHW, THHW, THW, THWN, XHHW)
C - OUTPUT TERMINATIONS, BOTTOM ENTRY
4 x (1/0 ~ 500MCM) PER Ø
(75°C TYPES RHW, THHW, THW, THWN, XHHW)
D - GREEN PILOT LIGHT - "POWER ON"
E - RED PILOT LIGHT - "RUN"
F - AMBER PILOT LIGHT - "FAULT"
G - PUSHBUTTON - "EMERGENCY STOP"
H - START COUNTER
I - ELAPSED TIME METER (OPTIONAL)
J - AMMETER - 0~XXXXA (OPTIONAL)
K - 3Ø AMMETER SWITCH (OPTIONAL)
L - VOLTMETER - 0~600V (OPTIONAL)
M - 3Ø VOLTMETER SWITCH (OPTIONAL)

VFD SPEC		CIRCUIT BREAKER RATING	
kVA	RLA RANGE	CB AMPS	AIC@600V
500	382~445	600	65kA
625	446~556	800	65kA
725	557~646	1000	65kA
800	647~713	1000	65kA

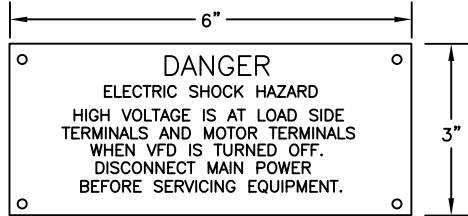
8.0" X 12.0"
TOP OPENING
(TYP. - 3) 5.50

TOP VIEW

SECTION A-A

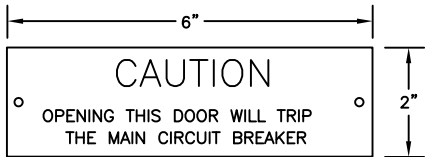


NAMEPLATE 1



NAMEPLATE 2

NAMEPLATE 1', 2' = FRENCH EQUIVALENT



NAMEPLATE 3

NOTES

- DIMENSIONS ARE IN INCHES.
- DIMENSIONS FOR REFERENCE ONLY.
- WEIGHT: APPROX. 2000lbs (909kg)
- COLOR: GRAY
- INPUT/OUTPUT TERMINATION BENDING SPACE IN ACCORDANCE WITH NEC TABLE 312-6(b)
- BOTTOM ENTRY IS OPTIONAL, CONSULT FACTORY FOR DETAILS.

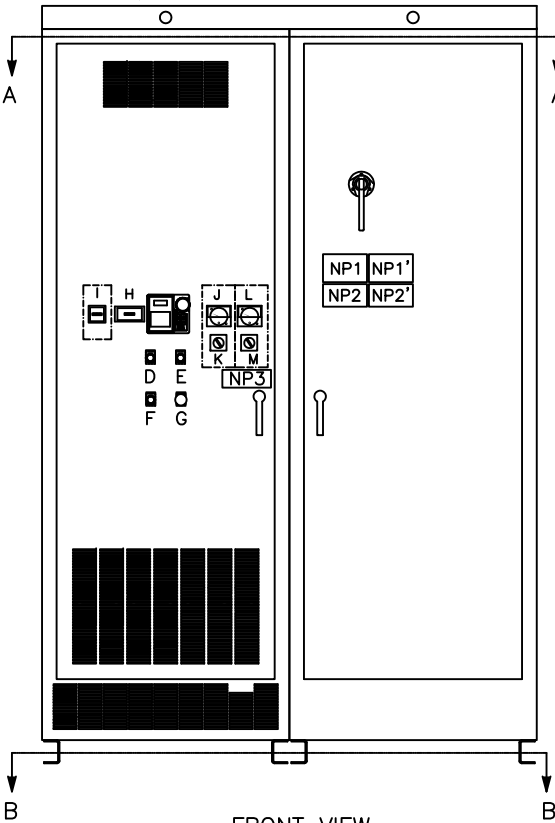
MINIMUM 12" CLEARANCE
REQUIRED FOR VENTILATION

MINIMUM 6" CLEARANCE
REQUIRED FOR VENTILATION
(10" RECOMMENDED)

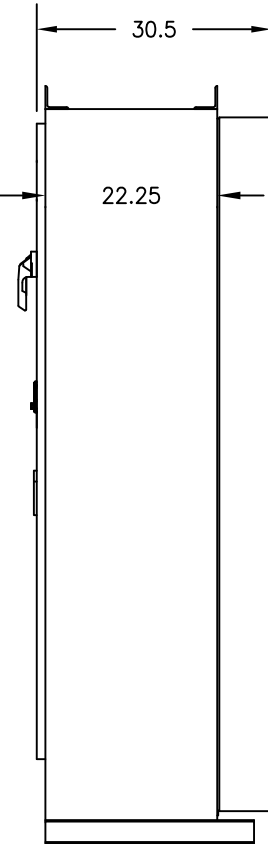
LIFTING ANGLE

10.0

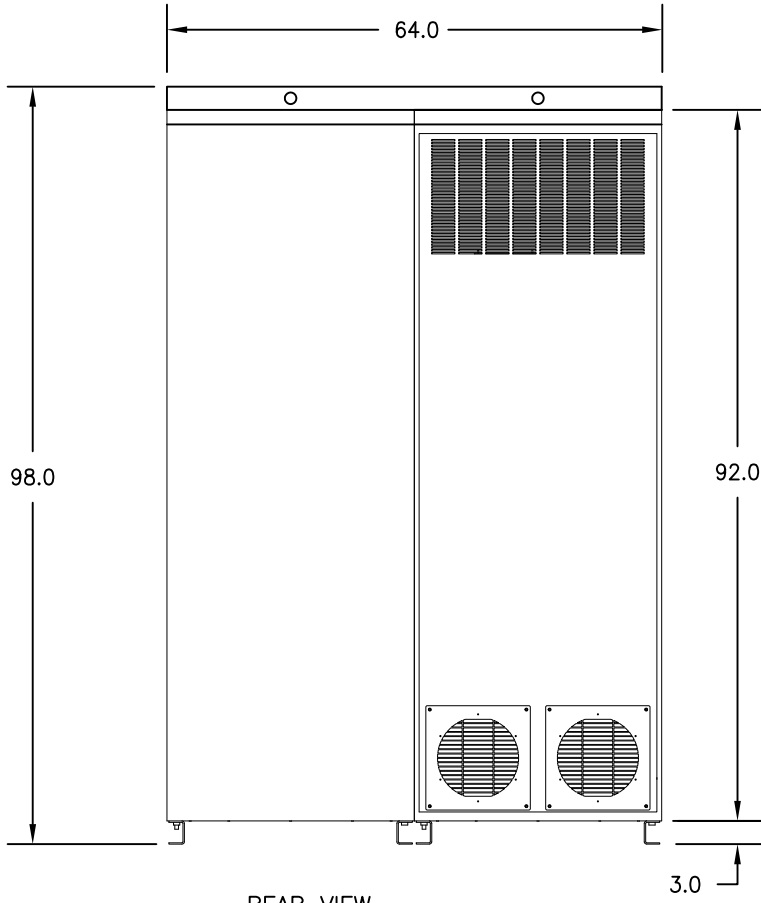
LEFT SIDE VIEW



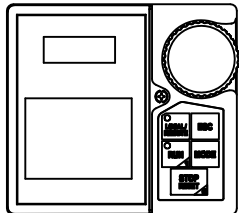
FRONT VIEW



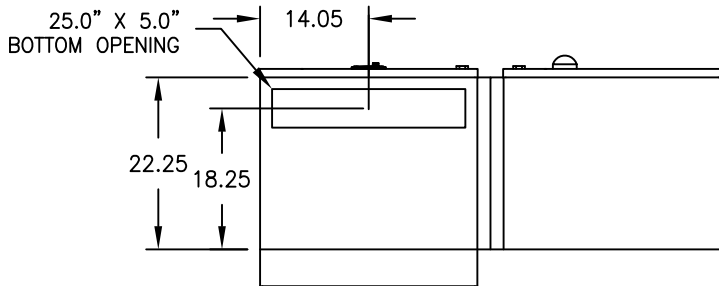
RIGHT SIDE VIEW



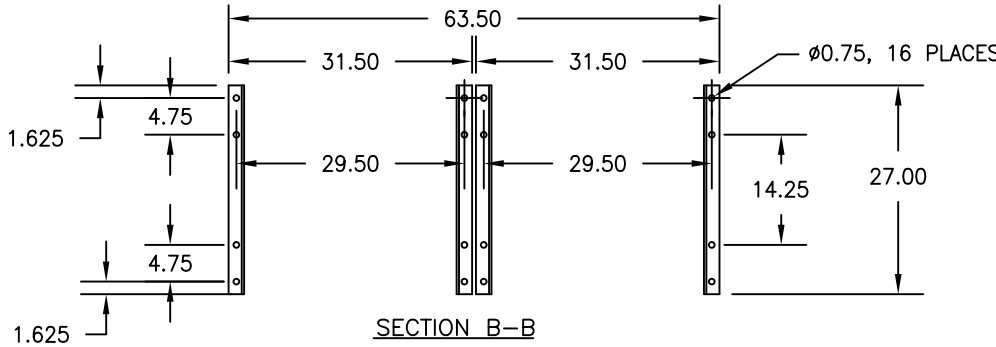
REAR VIEW



KEYPAD DETAILED VIEW



BOTTOM VIEW



SECTION B-B

4					
3					
2					
1					
0	04/10/14	FIRST ISSUE	EY	SE	RKR
REV	DATE	DESCRIPTION	BY	CHK	APPR

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TITLE:
ENCLOSURE OUTLINE - 382~713RLA
500~800kVA, GX9 600VAC

CUSTOMER:

PROJECT NUMBER:

REVISION:

0

SCALE:

1.0=26.0

DRAWING NUMBER:

1808R831