

CUST. NAME: CARRIER CORPORATION
PROJECT NO.: CHILLER CONTROLLER STANDARDS
P.O. NUMBER:
DESCRIPTION: HX7+D426~51KCB1ISM 224~577RLA
460V, 3ø, 60Hz, 260~518kVA
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:

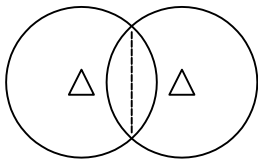
Initial

Date

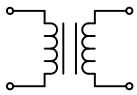
NO	DRAWING NO	REV	DRAWING DESCRIPTION
00	I808R500	0	DRAWING LIST
01	----	---	-----
02	I808R502	0	DRAWING LEGEND
03	----	---	-----
04	----	---	-----
05	----	---	-----
06	I808R506	0	EQUIPMENT RATINGS
07	----	---	-----
08	I808R508	0	THREE–LINE DIAGRAM
09	----	---	-----
10	----	---	-----
11	----	---	-----
12	----	---	-----
13	----	---	-----
14	----	---	-----
15	----	---	-----

NO	DRAWING NO	REV	DRAWING DESCRIPTION
16	----	---	-----
17	----	---	-----
18	I808R518	0	LOGIC INTERFACE CIRCUIT
19	----	---	-----
20	----	---	-----
21	I808R521	0	CONTROL CIRCUIT – TEMPERATURE CONTROL
22	----	---	-----
23	----	---	-----
24	I808R524	0	ISM MODULE INTERFACE
25	----	---	-----
26	----	---	-----
27	----	---	-----
28	----	---	-----
29	----	---	-----
30	I808R530	0	ENCLOSURE OUTLINE W/ZCT OPTION
31	I808R531	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 – 224~577RLA 260~518kVA, HX7+D 460VAC		REVISION: 0	SCALE:
3										
2										
1										
0	03/21/14	FIRST ISSUE	EYANG	SE	RKR		CUSTOMER:	PROJECT NUMBER:	DRAWING NUMBER: 1808R500	
REV	DATE	DESCRIPTION	BY	CHK	APPR					



POWER TRANSFORMER



CONTROL POWER OR
POTENTIAL TRANSFORMER



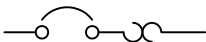
CURRENT TRANSFORMER



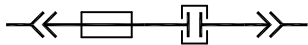
REACTOR



LIGHTNING ARRESTOR



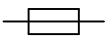
CIRCUIT BREAKER



FUSED VACUUM
DRAWOUT CONTACTOR



AIR CONTACTOR



FUSE



CAPACITOR



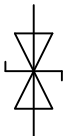
RESISTOR OR SPACE HEATER



DIODE



THYRISTOR



SURGE ABSORBER

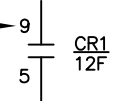


INSULATED GATE
BIPOLAR TRANSISTOR (IGBT)



LIMIT SWITCH

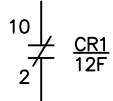
DENOTES ACTUAL
CONTACT USED



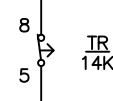
DEVICE NAME

N.O. CONTACT

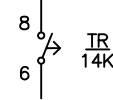
DENOTES RELAY CAN BE FOUND
ON PAGE 12, COLUMN F



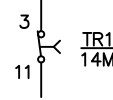
N.C. CONTACT



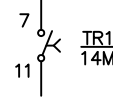
OFF-TIME DELAY CONTACT N.C.



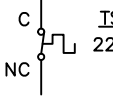
OFF-TIME DELAY CONTACT N.O.



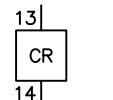
ON-TIME DELAY CONTACT N.C.



ON-TIME DELAY CONTACT N.O.



THERMAL SWITCH N.C.



RELAY/CONTACTOR COIL

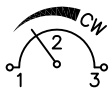
DEVICE LEGEND

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



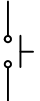
POTENTIOMETER



SELECTOR SWITCH



N.C. PUSH BUTTON



N.O. PUSH BUTTON



CONTROL TERMINAL BLOCK



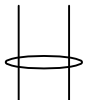
PLUG/CONNECTOR ASSEMBLY



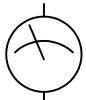
GROUND



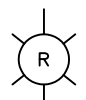
TWISTED WIRE



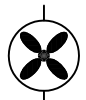
SHIELDED WIRE



METER



ILLUMINATED PUSH BUTTON
OR INDICATING LIGHT
(LETTER = COLOR)



COOLING FAN

LEGEND

ACL AC LINE REACTOR
A/C AIR CONDITIONER
AM AMMETER
AMVM AMMETER OR VOLTMETER
AS AMMETER SWITCH
ASD ADJUSTABLE SPEED DRIVE
CL CURRENT LIMITER
CPT CONTROL POWER TRANSFORMER
CT CURRENT TRANSFORMER
DBR DYNAMIC BRAKING RESISTOR
GFCI GROUND FAULT CIRCUIT INTERRUPTER
GFR GROUND FAULT RECEPTACLE
M AIR CONTACTOR
MCCB MOLDED CASE CIRCUIT BREAKER
MCP MOTOR CIRCUIT PROTECTOR
MOT MOTOR
OL THERMAL OVERLOAD
PCB PRINTED CIRCUIT BOARD
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

HX7+ DRIVE MODEL NUMBER DEVELOPMENT

HX7+ D 4 26K CB1 ISM		ISM MODULE TYPE			
HX7+ SERIES DRIVE		CONFIGURATION			
REVISION D		CB1 - NEMA 1, 6 PULSE			
RATED VOLTAGE		AMBIENT TEMPERATURE			
4 - 460VAC					
DRIVE RATING					
26K	- 260kVA (313A)	WITH SINEWAVE FILTER	WITHOUT SINEWAVE FILTER		
39K	- 390kVA (469A)	40°C	50°C	40°C	50°C
45K	- 454kVA (546A)		X		X
51K	- 518kVA (623A)		X		X

4					
3					
2					
1					
0	03/21/14	FIRST ISSUE	EY	SE	RKR
REV	DATE	DESCRIPTION	BY	CHK	APPR

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TITLE: DRAWING LEGEND - 224~577RLA 260~518kVA, HX7+D 460VAC		REVISION: 0	SCALE:
CUSTOMER:	PROJECT NUMBER:	DRAWING NUMBER: 1808R502	

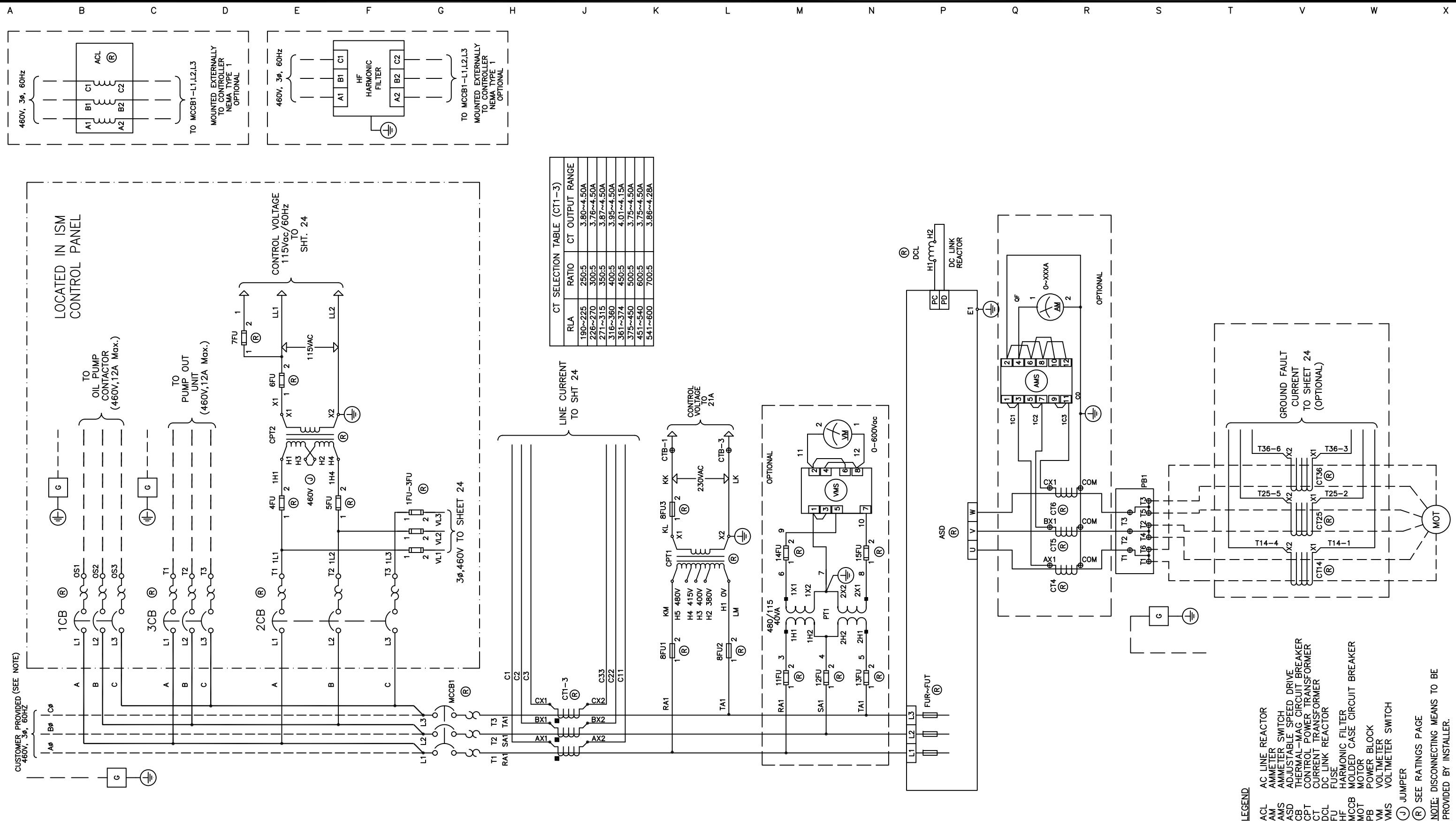
PAGE	DEVICE	DESCRIPTION	260kVA, 460V, 313A, 290RLA		390kVA, 460V, 469A, 434RLA		454kVA, 460V, 546A, 506RLA		518kVA, 460V, 623A, 577RLA	
			TYPE FORM	RATING	TYPE FORM	RATING	TYPE FORM	RATING	TYPE FORM	RATING
8	ASD	ADJUSTABLE SPEED DRIVE	VT130S7D426K	480V, 260kVA	VT130S7D439K	480V, 390kVA	TIC VT130S7D445K	480V, 454kVA	TIC VT130S7D451K	480V, 518kVA
	FUR~FUT	SEMICONDUCTOR FUSE	6,9URD32TTF0550	690V, 550A	6,9URD32TTF0700	690V, 700A	CRF 6,9URD32TTF0800	690V, 800A	CRF 6,9URD32TTF0800	690V, 800A
	MCCB1	CIRCUIT BREAKER	MJL36400	600V, 400A, 65KAIC@480V	MJL36600	600V, 600A, 65KAIC@480V	MJL36600	600V, 600A, 65KAIC@480V	MJL36800	600V, 800A, 65KAIC@480V
	1CB	OIL PUMP CIRCUIT BREAKER	HJL36015	600V, 15A	HJL36015	600V, 15A	HJL36015	600V, 15A	HJL36015	600V, 15A
	2CB	CONTROL CIRCUIT BREAKER	HJL36015	600V, 15A	HJL36015	600V, 15A	HJL36015	600V, 15A	HJL36015	600V, 15A
	3CB	PUMPOUT UNIT CIRCUIT BREAKER	HJL36015	600V, 15A	HJL36015	600V, 15A	HJL36015	600V, 15A	HJL36015	600V, 15A
	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-15	600V, 15A	ATMR-15	600V, 15A	ATMR-15	600V, 15A	ATMR-15	600V, 15A
	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
	(*) 11~13FU	PT PRIMARY FUSE	ATQR 2/10	600V, 0.2A	ATQR 2/10	600V, 0.2A	ATQR 2/10	600V, 0.2A	ATQR 2/10	600V, 0.2A
	(*) 14,15FU	PT SECONDARY FUSE	TRM 1/2	250V, 0.5A	TRM 1/2	250V, 0.5A	TRM 1/2	250V, 0.5A	TRM 1/2	250V, 0.5A
	8FU1, 2	CPT1 PRIMARY FUSE	ATQR 8	8A, 600V, CC, 200KAIC	ATQR 8	8A, 600V, CC, 200KAIC	CRF ATQR 8	8A, 600V, CC, 200KAIC	CRF ATQR 8	8A, 600V, CC, 200KAIC
	8FU3	CPT1 SECONDARY FUSE	TRM 10	10A, 250V, TD, 10KAIC	TRM 10	10A, 250V, TD, 10KAIC	GLD TRM 10	10A, 250V ,TD, 10KAIC	GLD TRM 10	10A, 250V, TD, 10KAIC
	CPT1	CNTL. PWR. TRANSFORMER	GT-F850	380/400/415/460:230V, 1.5kVA	GT-F850	380/400/415/460:230V, 1.5kVA	GTI GT-F850	380/400/415/460:230V, 1.5kVA	GTI GT-F850	380/400/415/460:230V, 1.5kVA
	CPT2	CHILLER CNTL. PWR.TRANSFORMER	9070T3000D1	480:120V 3kVA	9070T3000D1	480:120V 3kVA	9070T3000D1	480:120V 3kVA	9070T3000D1	480:120V 3kVA
	CT1~3	LINE CURRENT TRANSFORMER	3P82-XXX	SEE TABLE	3P82-XXX	SEE TABLE	3P82-XXX	SEE TABLE	3P93-XXX	SEE TABLE
	(*) CT4~6	AMMETER CT	3P82-XXX	---	3P82-XXX	---	3P82-XXX	---	3P93-XXX	---
	DCL	DC LINK REACTOR	PC34170P250	406A, .12mH	PC34180P351	648A, .074mH	PC34180P401	741A, .065mH	PC34180P401	741A, .065mH
18	EOI	OPERATOR INTERFACE	-	-	-	-	-	-	-	-
	LL, RCH, FLX	CONTROL RELAY	RH4BUAC120V	120VAC, 10A	RH4BUAC120V	120VAC, 10A	RH4BUAC120V	120VAC, 10A	RH4BUAC120V	120VAC, 10A
21	FAN1	HEAT SINK FAN	RH31M-4EK.2F.1R	230VAC, 50/60HZ	RH31M-4EK.2F.1R	230VAC, 50/60HZ	ZA RH31M-4EK.2F.1R	230VAC, 50/60HZ	ZA RH31M-4EK.2F.1R	230VAC, 50/60HZ
	C1	FAN RUN CAPACITOR	CMPS/X349U	350V, 4uF	CMPS/X349U	350V, 4uF	SHX CMPS/X349U	350V, 4uF	SHX CMPS/X349U	350V, 4uF
	FAN2	INTERNAL FAN	148VK-0281030	230VAC, 50/60HZ, 33W	148VK-0281030	230VAC, 50/60HZ, 33W	ETR 148VK-0281030	230VAC, 50/60HZ, 33W	ETR 148VK-0281030	230VAC, 50/60HZ, 33W
	FAN5, 6	ENCLOSURE FAN	148VK-0281030	230VAC, 50/60HZ, 33W	148VK-0281030	230VAC, 50/60HZ, 33W	ETR 148VK-0281030	230VAC, 50/60HZ, 33W	ETR 148VK-0281030	230VAC, 50/60HZ, 33W
	TCR	CONTROL RELAY	CA2KN22U7	240V COIL, 10A	CA2KN22U7	240V COIL, 10A	TMQ CA2KN22U7	240V COIL, 10A	TMQ CA2KN22U7	240V COIL, 10A
	OHAMB	T-STAT 90°C FIXED NC	OHD3-90B	90°C	OHD3-90B	90°C	TKN OHD3-90B	90°C	TKN OHD3-90B	90°C
	NK8~10	SURGE SUPPRESSOR	MCN RFM25M224KD	250VAC, 0.22uF, 2200HM	MCN RFM25M224KD	250VAC, 0.22uF, 2200HM	MCN RFM25M224KD	250VAC, 0.22uF, 2200HM	MCN RFM25M224KD	250VAC, 0.22uF, 2200HM
24	VSR	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

(*) – OPTIONAL

CT SELECTION TABLE (CT1-3)		
RLA	RATIO	CT OUTPUT RANGE
190~225	250:5	3.80~4.50A
226~270	300:5	3.76~4.50A
271~315	350:5	3.87~4.50A
316~360	400:5	3.95~4.50A
361~374	450:5	4.01~4.15A
375~450	500:5	3.75~4.50A
451~540	600:5	3.75~4.50A
541~600	700:5	3.86~4.28A

RLA/kVA RANGE	
RLA	kVA
224~290	260
291~434	390
435~506	454
507~577	518

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3					0					
2										
1										
0	03/21/14	FIRST ISSUE	EY	SE	RKR		CUSTOMER:	PROJECT NUMBER:	DRAWING NUMBER:	
REV	DATE	DESCRIPTION	BY	CHK	APPR				1808R506	



CT SELECTION TABLE (CT1-3)		
RLA	RATIO	CT OUTPUT RANGE
190~225	250:5	3.80~4.50A
226~270	300:5	3.76~4.50A
271~315	350:5	3.87~4.50A
316~360	400:5	3.95~4.50A
361~374	450:5	4.01~4.15A
375~450	500:5	3.75~4.50A
451~540	600:5	3.75~4.50A
541~600	700:5	3.86~4.28A

ACL	AC LINE REACTOR
AM	AMMETER
AMS	AMMETER SWITCH
ASD	ADJUSTABLE SPEED DRIVE
CB	THERMAL-MAG CIRCUIT BREAKER
CPCT	CONTROL POWER TRANSFORMER
CT	CURRENT TRANSFORMER
DLCL	DC LINK REACTOR
FU	FUSE
HF	HARMONIC FILTER
MCMCB	MOLDED CASE CIRCUIT BREAKER
MOT	MOTOR
PB	POWER BLOCK
VMI	VOLTMETER
VMS	VOLTMETER SWITCH
①	JUMPER
⑥	SEE RATINGS PAGE

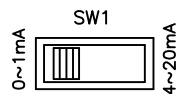
NOTE: DISCONNECTING MEANS TO BE PROVIDED BY INSTALLER.

LOCATED IN ISM
CONTROL PANEL

PCB6/PCB1

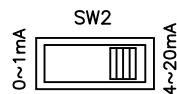
(2A/250Vac CONTACTS)

NOTE: SEE HX7+D INVERTER MANUAL FOR TERMINAL FUNCTIONS.

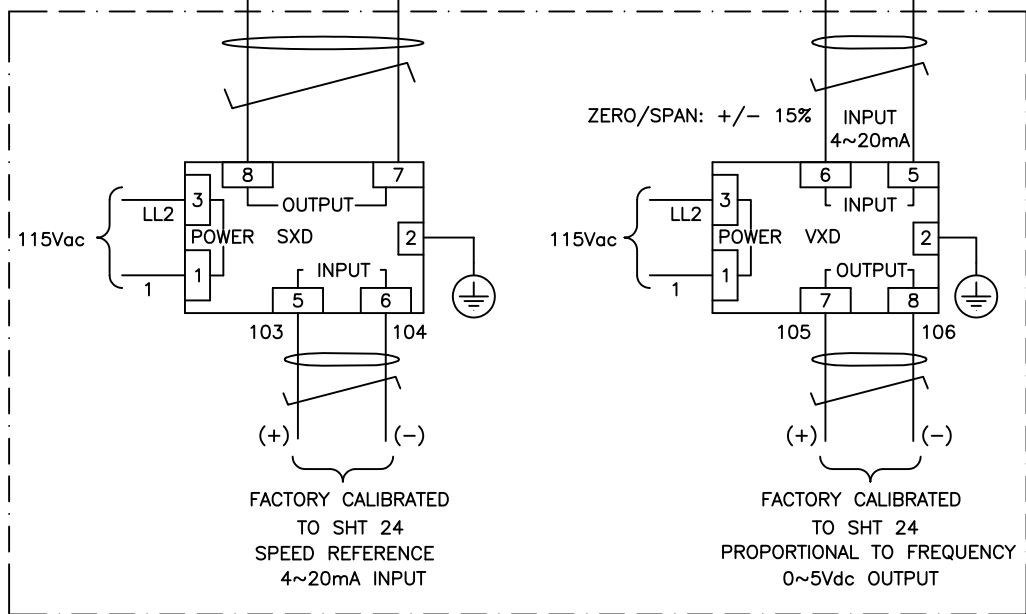


TB3
AM

TB4
II



TB2
FM



SXD		CALIBRATION				
INPUT	OUTPUT	INPUT SELECT	OUTPUT SELECT	SWITCHES A B C		
4~20mA	4~20mA	I	I	5	3	1

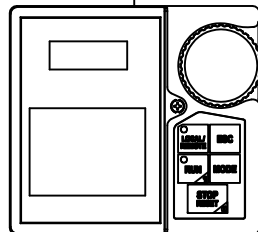
VXD		CALIBRATION				
INPUT	OUTPUT	INPUT SELECT	OUTPUT SELECT	SWITCHES A B C		
4~20mA	0~5Vdc	I	V	3	3	F

LL	
a	24G b
a	24C b
a	24B b
a	24R b

* - OPTIONAL

RCH	
a	24G b
a	24R b
a	b
a	b

FLX	
a	b 24G
a	24R b
a	b
a	b



FACTORY PARAMETER SETTINGS FROM DEFAULT		
60Hz		
ITEM #	PARAMETER DESCRIPTION	SETTING
F011	MAXIMUM FREQUENCY	60
F012	UPPER LIMIT FREQUENCY	60
F013	LOWER LIMIT FREQUENCY	36
F009	ACCELERATION TIME #1	15
F010	DECELERATION TIME #1	15
F130	LL CONTACT FUNCTION	4
F131	RCH CONTACT FUNCTION	8
F100	LOW SPEED SIGNAL	.5
F101	SPEED REACH FREQUENCY	48.5
F102	SPEED REACH TOLERANCE	12.5
F600	ELECTRONIC OVERLOAD LVL 1	SEE TABLE

50Hz		
F101	SPEED REACH FREQUENCY	40.5
F102	SPEED REACH TOLERANCE	10.5

ELECTRONIC OVERLOAD LVL 1 SETTINGS		
ITEM #	RATED LOAD AMPS (RLA)	SETTING
F600	RLA SPECIFIED PER PROJECT	108%RLA

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TITLE:

LOGIC INTERFACE CIRCUIT - 224~577RLA
260~518kVA, HX7+D 460VAC

CUSTOMER:

PROJECT NUMBER:

REVISION:

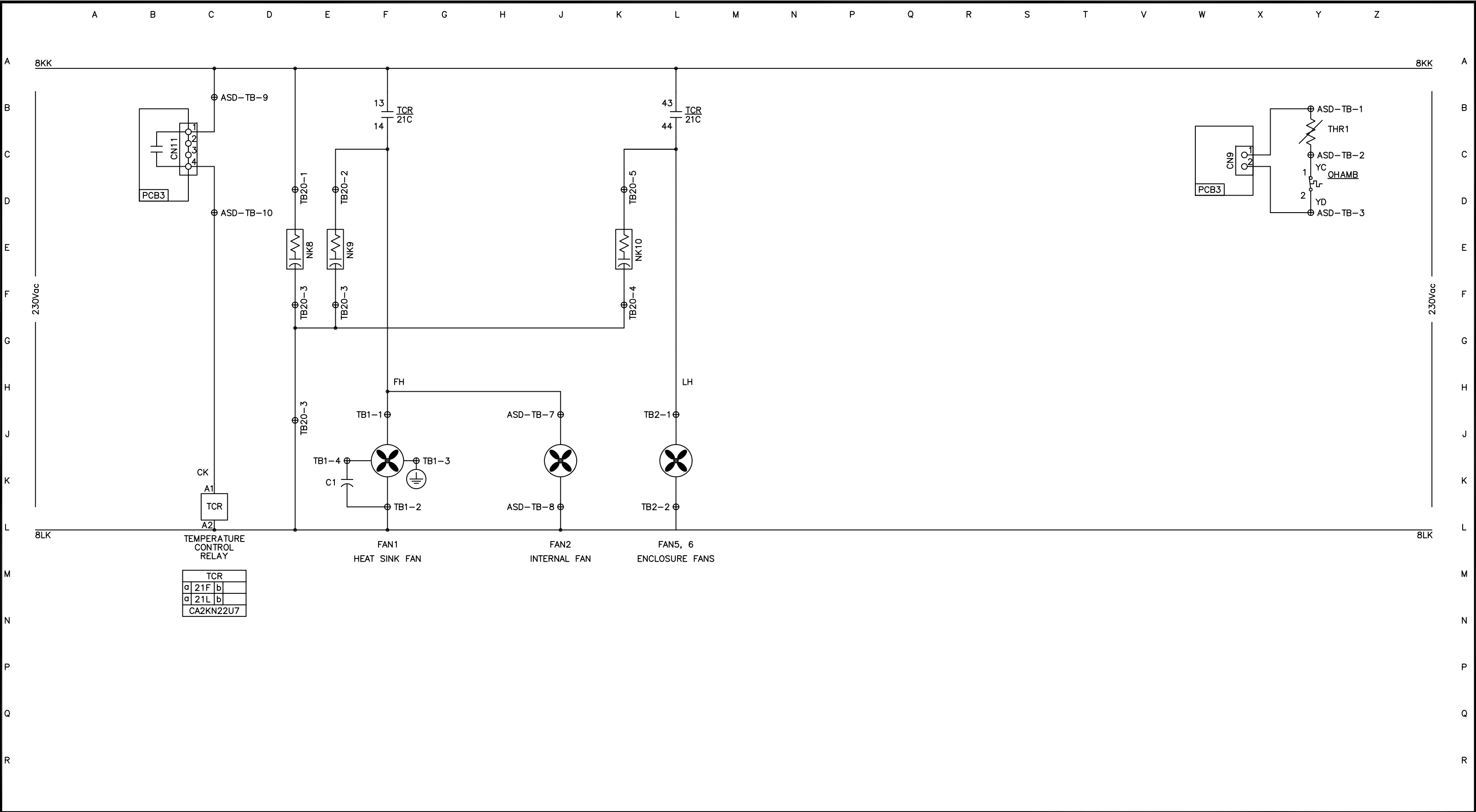
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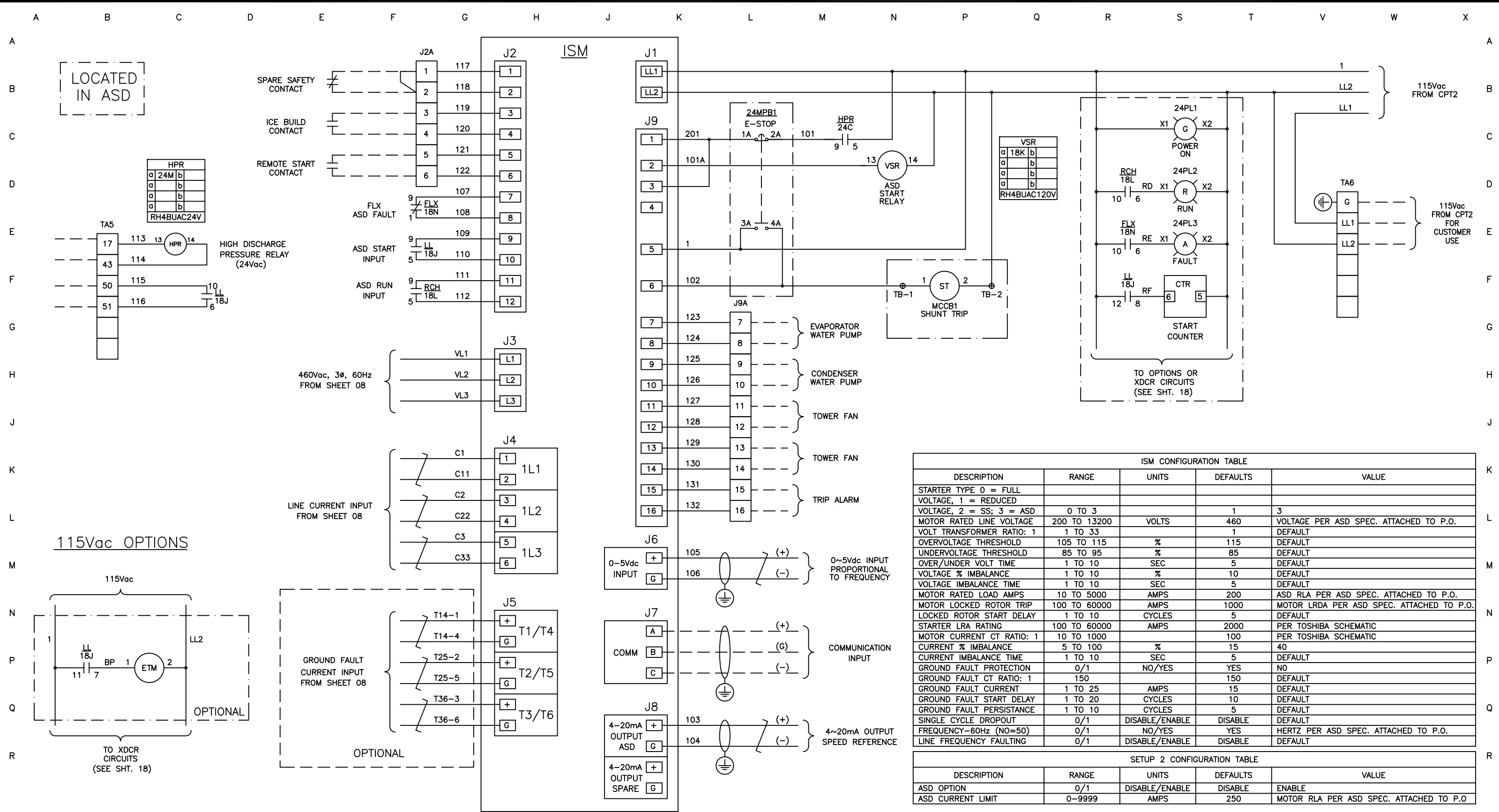
DRAWING NUMBER:

1808R518

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3					
2					
1					
0	03/21/14	FIRST ISSUE	EY	SE	RKR
REV	DATE	DESCRIPTION	BY	CHK	APPR

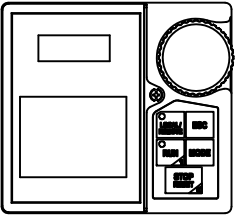


4						TOSHIBA TOSHIBA INTERNATIONAL CORPORATION MADE IN HOUSTON, TEXAS U.S.A. THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF TOSHIBA INTERNATIONAL CORPORATION AND SHALL NOT BE REPRODUCED, USED, OR DISCLOSED TO OTHERS UNLESS PRIOR WRITTEN AUTHORIZATION IS OBTAINED.	TITLE: TEMP CONTROL CIRCUIT – 224~577RLA 260~518kVA, HX7+D 460VAC		REVISION: 0	SCALE:
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2										
1										
0	03/21/14	FIRST ISSUE	EY	SE	RKR		CUSTOMER:	PROJECT NUMBER:	DRAWING NUMBER: I808R521	
REV	DATE	DESCRIPTION	BY	CHK	APPR					

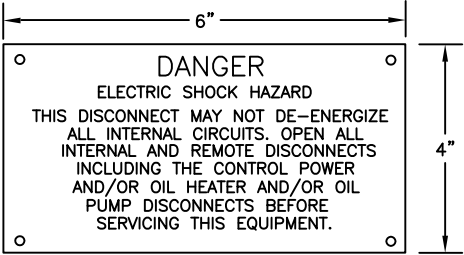


LEGEND

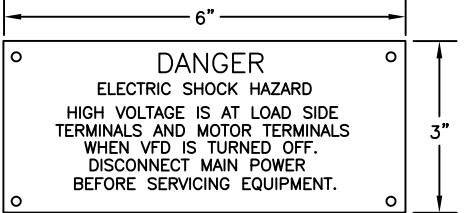
- A – GROUND LUG (2 AWG ~ 4/0)
B – INPUT TERMINATIONS PER PHASE
260kVA: 1 x (1AWG~600MCM) OR 2 x (1AWG~250MCM)
390~518kVA: 3 x (3/0~500MCM)
(75° C TYPES RHW, THHW, THW, THWN, XHHW)
C – OUTPUT TERMINATIONS PER PHASE
260kVA: 2 x (6AWG~350MCM)
390~518kVA: 2 x (4AWG~500MCM)
(75° C TYPES RHW, THHW, THW, THWN, XHHW)
D – GREEN PILOT LIGHT – "POWER ON"
E – RED PILOT LIGHT – "RUN"
F – AMBER PILOT LIGHT – "FAULT"
G – PUSHBUTTON – "EMERGENCY STOP"
H – GROUNDING STUD TERMINATIONS (3/8–16 x 3/4")
I – START COUNTER
J – ELAPSED TIME METER (OPTIONAL)
K – AMMETER – 0~XXxA (OPTIONAL)
L – 3Ø AMMETER SWITCH (OPTIONAL)
M – VOLTMETER – 0~600V (OPTIONAL)
N – 3Ø VOLTMETER SWITCH (OPTIONAL)
P – GROUND FAULT CT



KEYPAD DETAILED VIEW



NAMEPLATE 1



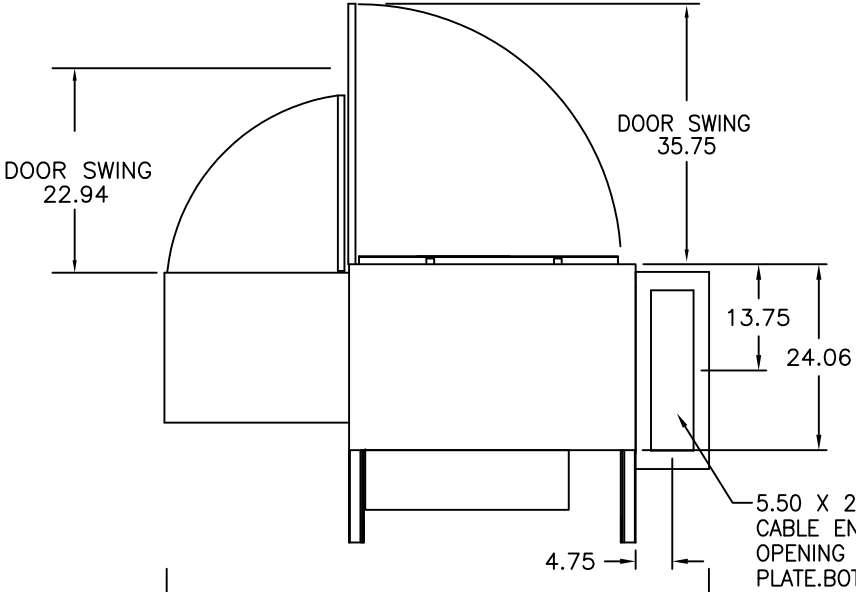
NAMEPLATE 2

NOTE: NAMEPLATES TO BE RED WITH WHITE LETTERS. FIRST LINE TO BE 3/8". ALL OTHER LINES TO BE 3/16".

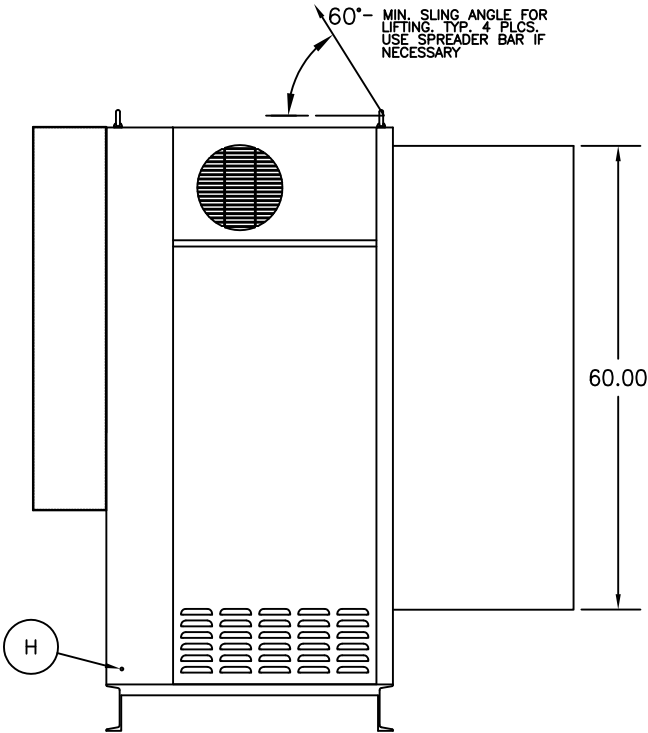
NOTES

- DIMENSIONS ARE IN INCHES.
- DIMENSIONS FOR REFERENCE ONLY.
- WEIGHT: APPROX. 1720lbs (782kg)
- COLOR: GRAY
- INPUT/OUTPUT TERMINATION BENDING SPACE IN ACCORDANCE WITH NEC TABLE 312.6(B)

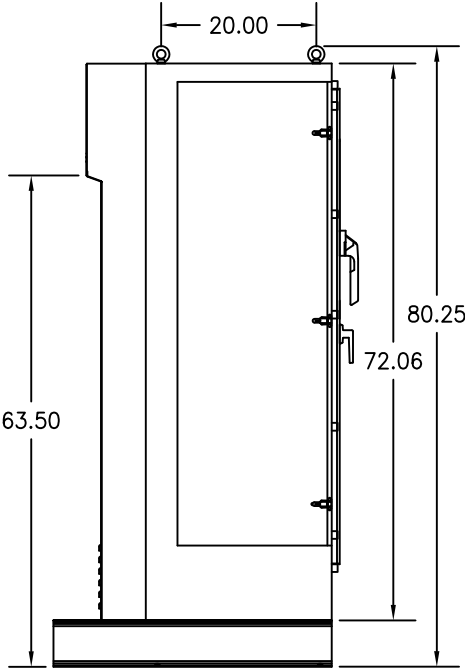
SECTION B-B



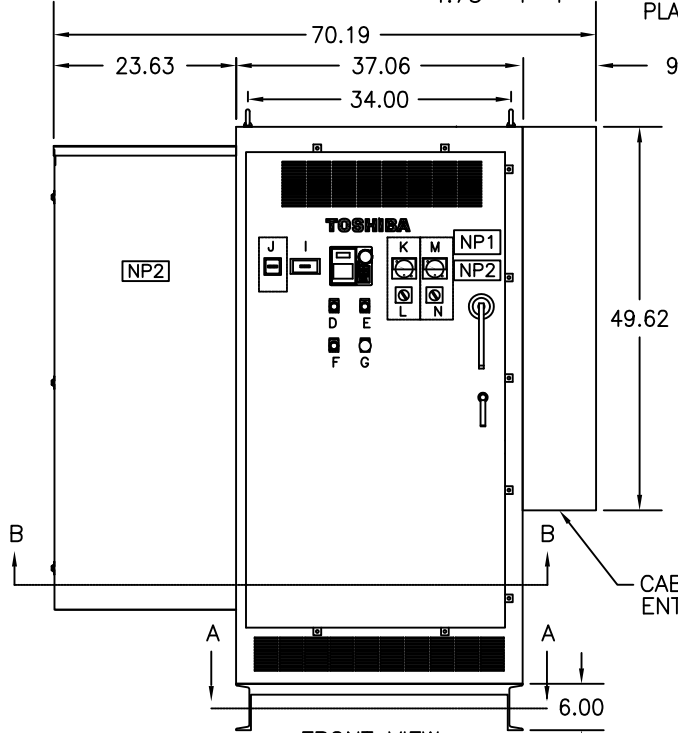
ASD SPEC			CIRCUIT BREAKER RATING	
kVA	RLA RANGE	CB AMPS	AIC@480V	
260	224~290	400	65kA	
390	291~434	600	65kA	
454	435~506	600	65kA	
518	507~577	800	65kA	



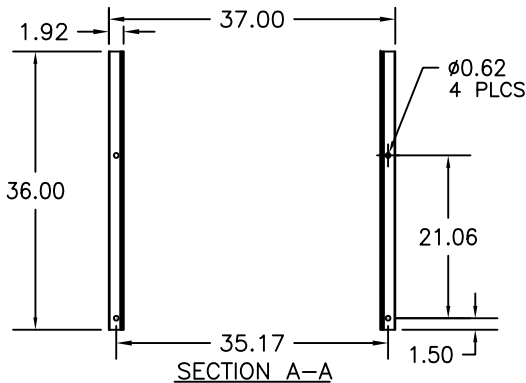
REAR VIEW



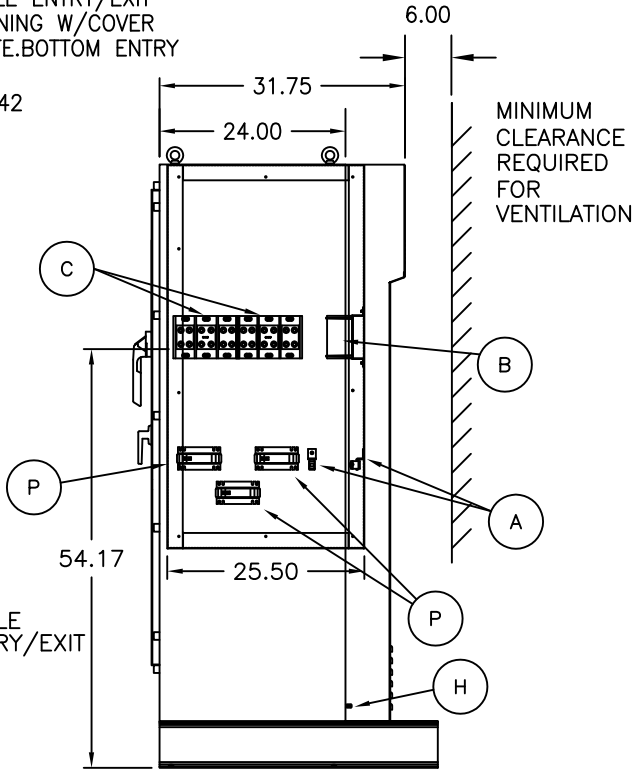
LEFT SIDE VIEW



FRONT VIEW



SECTION A-A



RIGHT SIDE VIEW

MINIMUM CLEARANCE REQUIRED FOR VENTILATION

4					
3					
2					
1					
0	03/21/14	FIRST ISSUE	EY	SE	RKR
REV	DATE	DESCRIPTION	BY	CHK	APPR

TOSHIBA

TOSHIBA INTERNATIONAL CORPORATION
MADE IN HOUSTON, TEXAS U.S.A.

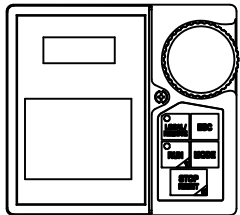
THIS MATERIAL IS THE EXCLUSIVE PROPERTY OF TOSHIBA INTERNATIONAL CORPORATION AND SHALL NOT BE REPRODUCED, USED, OR DISCLOSED TO OTHERS UNLESS PRIOR WRITTEN AUTHORIZATION IS OBTAINED.

TITLE: ENCL OUTLINE, ZCT OPTION – 224~577RLA 260~518kVA, HX7+D 460VAC	
CUSTOMER:	PROJECT NUMBER:

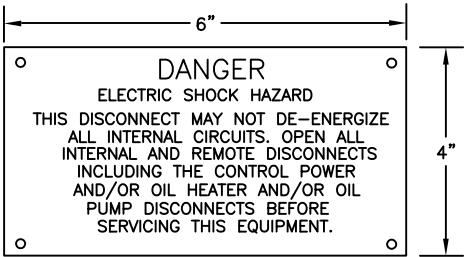
REVISION: 0	SCALE: 1.0=26.0
DRAWING NUMBER: 1808R530	

LEGEND

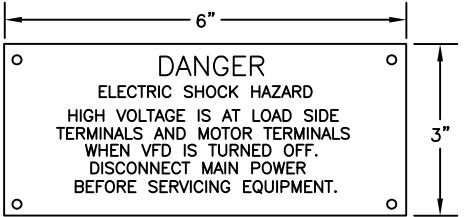
- A – GROUND LUG (2 AWG ~ 4/0)
B – INPUT TERMINATIONS PER PHASE
260kVA: 1 x (1AWG~600MCM) OR 2 x (1AWG~250MCM)
390~518kVA: 3 x (3/0~500MCM)
(75°C TYPES RHW, THHW, THW, THWN, XHHW)
C – OUTPUT TERMINATIONS PER PHASE
260kVA: 2 x (6AWG~350MCM)
390~518kVA: 2 x (4AWG~500MCM)
(75°C TYPES RHW, THHW, THW, THWN, XHHW)
D – GREEN PILOT LIGHT – "POWER ON"
E – RED PILOT LIGHT – "RUN"
F – AMBER PILOT LIGHT – "FAULT"
G – PUSHBUTTON – "EMERGENCY STOP"
H – GROUNDING STUD TERMINATIONS (3/8–16 x 3/4")
I – START COUNTER
J – ELAPSED TIME METER (OPTIONAL)
K – AMMETER – 0~XXXXA (OPTIONAL)
L – 3Ø AMMETER SWITCH (OPTIONAL)
M – VOLTMETER – 0~600V (OPTIONAL)
N – 3Ø VOLTMETER SWITCH (OPTIONAL)



KEYPAD DETAILED VIEW



NAMEPLATE 1

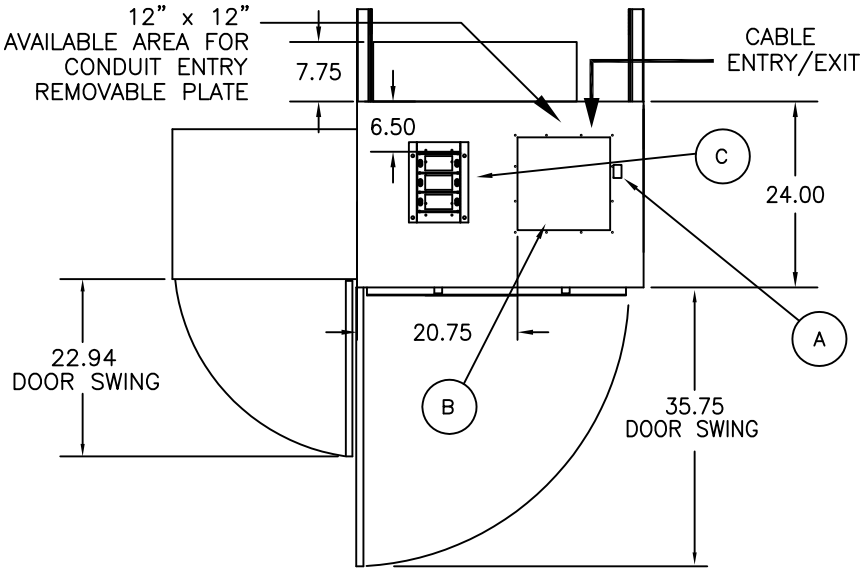


NAMEPLATE 2

NOTE: NAMEPLATES TO BE RED WITH WHITE LETTERS. FIRST LINE TO BE 3/8". ALL OTHER LINES TO BE 3/16".

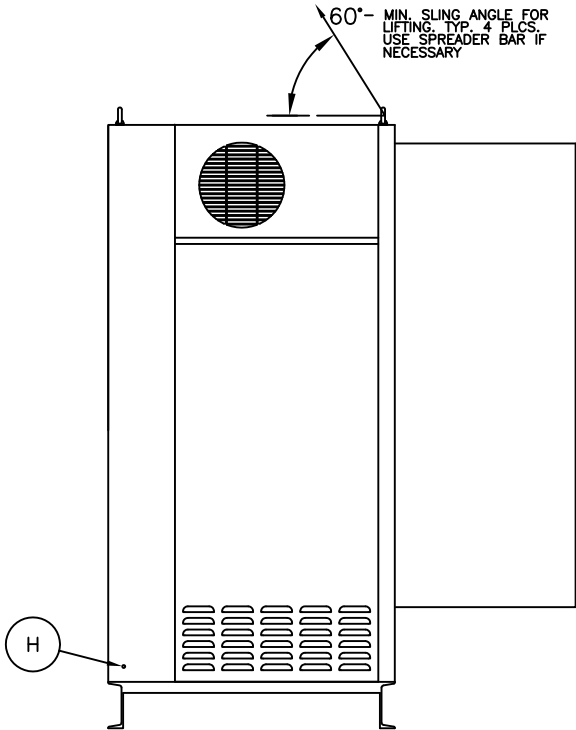
NOTES

- DIMENSIONS ARE IN INCHES.
- DIMENSIONS FOR REFERENCE ONLY.
- WEIGHT: APPROX. 1550lbs (705kg)
- COLOR: GRAY
- INPUT/OUTPUT TERMINATION BENDING SPACE IN ACCORDANCE WITH NEC TABLE 312.6(B)

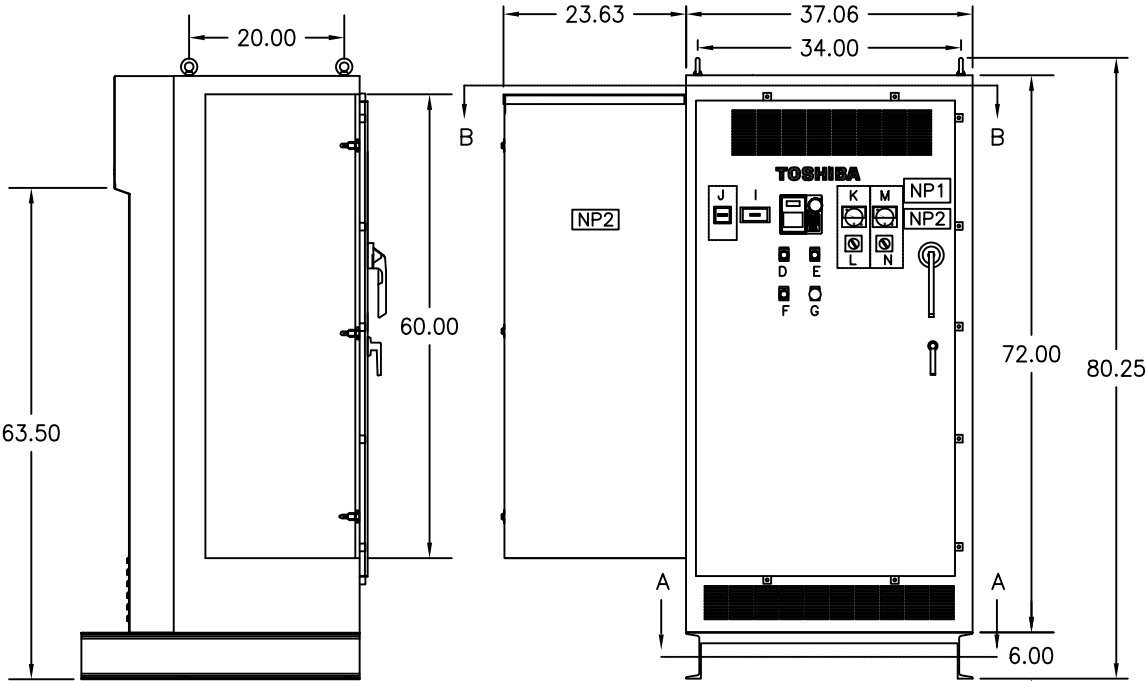


SECTION B-B

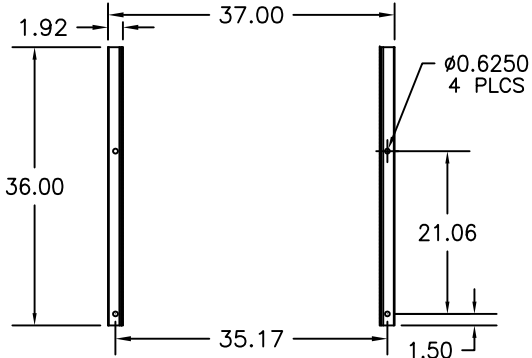
ASD SPEC			CIRCUIT BREAKER RATING	
kVA	RLA RANGE	CB AMPS	AIC@480V	
260	224~290	400	65kA	
390	291~434	600	65kA	
454	435~506	600	65kA	
518	507~577	800	65kA	



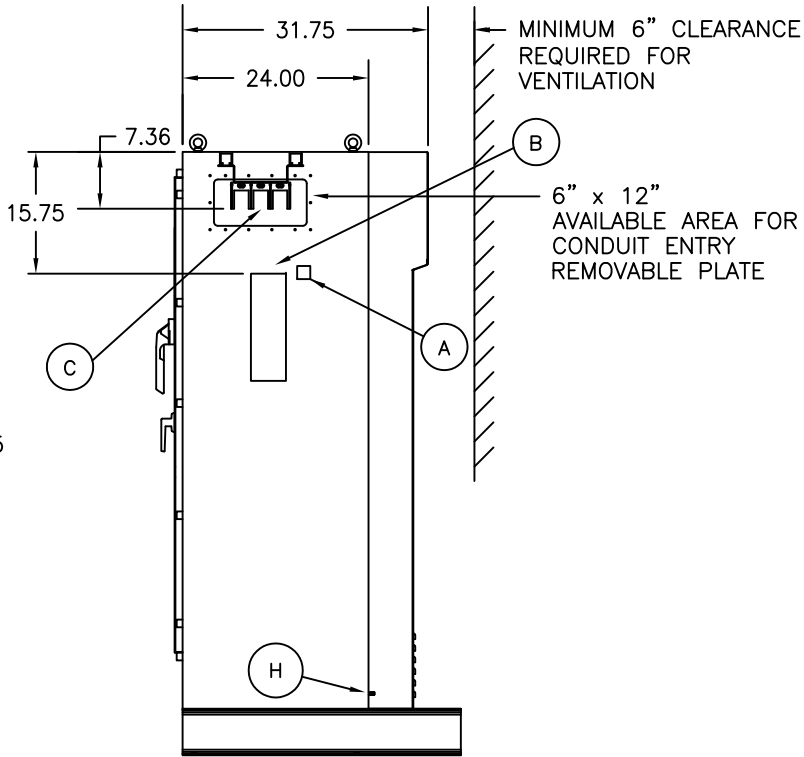
REAR VIEW



FRONT VIEW



SECTION A-A



RIGHT SIDE VIEW

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: ENCLOSURE OUTLINE – 224~577RLA 260~518kVA, HX7+D 460VAC		REVISION: 0	SCALE: 1.0=26.0
3										
2							DRAWING NUMBER: 1808R531			
1										
0	03/21/14	FIRST ISSUE	EY	SE	RKR		CUSTOMER:	PROJECT NUMBER:		
REV	DATE	DESCRIPTION	BY	CHK	APPR					