# /!\WARNING

HAZARDOUS VOLTAGE!
DISCONNECT ALL ELECTRIC POWER INCLUDING
REMOTE DISCONNECTS AND FOLLOW LOCK OUT
AND TAG PROCEDURES BEFORE SERVICING.
INSURE THAT ALL MOTOR CAPACITORS HAVE
DISCHARGED STORED VOLTAGE. UNITS WITH
VARIABLE SPEED DRIVE, REFER TO DRIVE
INSTRUCTIONS FOR CAPACITOR DISCHARGE. FAILURE TO DO THE ABOVE COULD RESULT IN DEATH OR SERIOUS INJURY.

# **AVERTISSEMENT**

TENSION DANGEREUSE!

TENSION DANGEREUSEI

COUPER TOUTES LES TENSIONS ET OUVRIR
LES SECTIONNEURS À DISTANCE, PUIS SUIVRE
LES PROCÉDURES DE VERROUILLAGE ET DES
ÉTIQUETTES AVANT TOUTE INTERVENTION.
VÉRIFIER QUE TOUS LES CONDENSATEURS
DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS
D'UNITÉS COMPORTANT DES ENTRAÎNEMENTS
À VITESSE VARIABLE, SE REPORTER AUX
INSTRUCTIONS DE L'ENTRAÎNEMENT POUR
DÉCHARGER LES CONDENSATEURS.
UN MANQUEMENT À LA PROCÉDURE
CHDESSUS PEUT ENTRAÎNER DES
BLESSURES GRAVES, VOIRE LA MORT.

# **ADVERTENCIA**

IVOLTAJE PELIGROSO!

IVOLTAJE PELIGROSOI

DESCONECTE TODA LA ENERGÍA ELÉCTRICA,
INCLUSO LAS DESCONECTE TODA LA ENERGÍA ELÉCTRICA,
INCLUSO LAS DESCONEXIONES REMOTAS Y SIGA
LOS PROCEDIMIENTOS DE CIERRE Y ETIQUETADO
ANTES DE PROCEDER AL SERVICIO. ASEGÚRESE
DE QUE TODOS LOS CAPACITORES DEL MOTOR
HAYAN DESCARGADO EL VOLTAJE ALMACENADO.
PARA LAS UNIDADES CON TRANSMISIÓN
DE VELOCIDAD VARIABLE, CONSULTE LAS
INSTRUCCIONES PARA LA DESCARGA
DEL CONDENSADOR.
NO REALIZAR LO ANTEDICHO PUEDE PROVOCAR
LA MUERTE O LESIONES GRAVES.

#### NOTICE

#### **AVIS**

USE COPPER CONDUCTORS ONLY!

UNIT TERMINALS ARE NOT
DESIGNED TO ACCEPT OTHER
TYPES OF CONDUCTORS.

FAILURE TO DO THE ABOVE COULD
RESULT IN EQUIPMENT DAMAGE.

IJILICE ÚNICAMENTE
CONDUCTORES DE CONDUCTORS

LES BORNIES DE L'UNITÉ NE SONT
PAS CONCUES POUR RECEVOIR
D'AUTRES TYPES DE CONDUCTEURS.

UN MANQUEMENT À LA PROCÉDURE
CH-DESSUS PEUT ENTRÂÎNER
DES DOMMAGES À L'ÉQUIPEMENT.

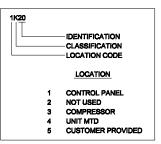
IJILICE ÚNICAMENTE
CONDUCTORES DE CONDUCTORES DE ACTIVATOR OTROS TIPOS DE CONDUCTORES.

OTROS TIPOS DE CONDUCTORES.

NO REALIZAR LO ANTEDICHO PUEDE
PROVOCAR DAÑOS EN EL EQUIPO.

## **AVISO**

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1.1416   (OPTIONAL) EXTERNAL CURRENT LIMIT AND EXTERNAL CHILLED WATER SETPOINT   4.116.   (OPTIONAL) ICREMETERIAL BASE LOAD   4.116.   (OPTIONAL) ICREMETERIAL BASE LOAD   4.211.   (OPTIONAL) REPRIGERANT MONITOR INPUT & EXTERNAL BASELOAD SETPOINT INPUT   1.12   (OPTIONAL) REPRIGERANT MONITOR INPUT & EXTERNAL BASELOAD SETPOINT INPUT   1.12   (OPTIONAL) REPRIGERANT MONITOR INPUT & EXTERNAL BASELOAD SETPOINT INPUT   1.12   (OPTIONAL) REPRIGERANT MONITOR INPUT & EXTERNAL BASELOAD SETPOINT INPUT   1.12   (OPTIONAL) REPRIGERANT MONITOR INPUT & EXTERNAL BASELOAD SETPOINT INPUT   1.12   (OPTIONAL) REPRIGERANT MONITOR INPUT & EXTERNAL BASELOAD SETPOINT INPUT   1.12   (OPTIONAL) REPRISED CURRENT   1.12   (OPTIONAL			4-102
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5K7         UNIT STATUS RELAYS         4-2*           5K8         UNIT STATUS RELAYS         4-2*           5K9         UNIT STATUS RELAYS         4-2*           5S1         CHILLED WATER         3-1*			4-208
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5K9         UNIT STATUS RELAYS         4-2*           581         CHILLED WATER         3-14			4-213
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COL	OR CODE
BK	BLACK
BN	BROWN
BŲ	BLUE
GY	GRAY
RD	RED
WH	WHITE
GN	GREEN
OG	ORANGE
ΥE	YELLOW

CPT FUSE REPLACEMENT TABLE					
FUSE-VOLTAGE	200V	230V	380-415V	460-575V	
1F1	10	8	5	4	
1F2	10	8	5	4	
1F3	3	3	3	3	
1F4	10	10	10	10	
1F5	6	6	6	6	
1F6	6	6	6	6	

TRANE WIRING
CUSTOMER WIRING
OPTIONS

RESISTOR CONFIGURATION				
3WW WIRE WOUND	6WW WIRE WOUND	3EW EDGE WOUND		
1R3 ————————————————————————————————————	1R3	1R3 		
1R2 	1R2	1R2 		
1R1 □.	1R1	1R1 ——□□□		

	TABLE	1	
TRANSITIO	N RESISTOR	CONFIGURATION	
VOLTS	RLA	CONFIGURATION	
200	477-606	6WW	
	607-779	6WW	
	399-476	6WW	
230	477-606	6WW	
	607-779	3EW	
	0-277	6WW	
	278-364	6WW	
346-480	365-398	6WW	
	399-476	3EW	
	477-606	3EW	
	0-277	6WW	
550-600	278-364	3EW	
	399-476	3EW	

### NOTES:

- 1 CLASS 1 FIELD WIRED MODULE
- 2 CLASS 1 FIELD WIRING INSULATION RATING IS REQUIRED TO BE EQUAL TO OR GREATER THAN THE EQUIPMENT SUPPLY VOLTAGE RATING CLASS 2 FIELD WIRE INSULATION TO BE RATED AT 300V MINIMUM.
- 3 OPTIONAL MODULES. REFER TO FIELD WIRING DIAGRAM FOR SUGGESTED WIRING.
- 4 TRANSITION RESISTORS SHOWN MAY BE COMPRISED OF ONE OR TWO RESISTORS, DEPENDING ON RLA RATING OF COMPRESSOR. REFER TO TABLE 1 FOR RESISTOR CONFIGURATION.
- 5 FIELD ASSIGNED PROGRAMMABLE RELAYS.
- ${\Large \bigcirc}$  AUTO/STOP, EMERGENCY STOP THE CONTACTS ARE JUMPED AT THE FACTORY BY JUMPERS W1 & W2 TO ENABLE UNIT OPERATION. IF REMOTE CONTROL IS DESIRED REMOVE THE JUMPERS AND CONNECT TO THE DESIRED CONTROL CIRCUIT.
- T RELAY AT 120VAC: 7.2 AMPS RESISTIVE, 2.88 AMPS PILOT DUTY, 1/3 HP, 7.2 FLA AT 240VAC: 5 AMPS GENERAL PURPOSE.
- [8] IF SHIELD IS PRESENT, DO NOT WIRE SHIELD TO GROUND IN CONTROL PANEL. IF USED, SHIELD IS TO BE GROUNDED EXTERNALLY TO CONTROL PANEL.
  REFERENCE FIELD WIRING DIAGRAM FOR RECOMMENDED WIRE TYPE.
- RELAY ENERGIZED WHILE M.
- (10) CONTACT CLOSURE ENABLES ICE MAKING.
- (11) CLOSED CONTACT COMMANDS BASE LOADING OPERATION.
- 42 ACTUAL BASE LOADING SETPOINT USED IS SETABLE AT FRONT PANEL. REFER TO IOM
- (13) WIRES 1C, 1D, 2C, 2D, 3C, 3D, 7D, 8D, 9D, 10D, 11D, 12D ARE ONLY PRESENT WHERE PARALLEL WIRE SETS ARE USED.



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CAD: CREO SCHEMATICS

2309-7555

SCHEMATIC RTHD WYE DELTA STARTER