CHILLER

2311-0512

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UNIT

DEVICES LISTED MAY NOT APPEAR ON SCHEMATIC WIRING DIAGRAM

OUT, CARBON TANK HEATER, REGENERATION VALVE AND ALARM RELAYS

D. LEVEL SWITCH INPUT

ENSING UNIT MOTOR CAPACITOR

ON TANK HEATER

ON TANK HEATER

JET VALVE

OUT VALVE

2W1 2X1,2 2X3 2X3 2X4 3A1 3A2	2T10,11,12 2T15 2T17,18,19 2T20,21 2V1,2,3	2S2 2S3 2S4,5 2T1,2,3 2T8.9	2M1,2,3,4 2Q1 2Q1 2Q2 2Q2K1 2R1,2,3 2R4,5 2S1	2K6 2K7 2K9 2K10 2K11 2K12	2K1 2K1 2K2 2K2 2K3 2K4 2K4 2K4A,B	2F7,8,9 2F10,11 2F13 2F14,15 2F16-2F21 2F22		2A11 2A12 2A32 2A33 2A33 2A34 2A35	2A6 2A7 (4) 2A7 (5) 2A8 2A9 2A10	2A4 – K1 2A4 – K2 2A5 (1) 2A5 (4)	2A1 2A2	1T2,3,4 1T5,6,7 1W1 1W2,3,4,5,6,7 1X1,2	104 105 106 111	1K9 1K9 1K26 1K27 1Q1 1Q2	1A31 1F1 1K1 1K2	1A25 1A26 1A30	1A20 1A21 1A22 1A22 1A23	1A17 1A18 1A19	1A13 1A14 1A15	1A9 (1) 1A9(2)(3) 1A10 1A11 1A12	1A6 1A7 1A8 (1) 1A8 (2)	1A4 1A5(1)(2) 1A5 (3)	DEVICE 1A1 1A2)))
JUMPER WIRE STARTER PAREL TERMINAL BLOCKS LINE POTENTIAL TERMINAL BLOCK SHUNT TRIP TERMINAL BLOCK PURGE PUMPOUT AND EXHAUST VALVE CONTROL PURGE CONDENSING UNIT CONTROL RELAY	SECONDARY LUNE CURRENT TRANSFORMERS GROUND FAULT TORROID LINE POTENTIAL TRANSFORMERS 12-PULSE AUTO-TRANSFORMER METAL OXIDE VARISTORS	CONTROL POWER DISCONNECT SWITCH COOLING FAN TEMPERATURE CONTROL TRANSFORMER THERMAL SWITCHES LINE CURRENT TRANSFORMERS CONTROL POWER TRANSFORMERS LINE POTENTIAL TRANSFORMERS	COOLING FAN MOTORS LINE POTENTIAL MAIN CIRCUIT BREAKER CONTROL POWER SECONDARY CIRCUIT BREAKER TEST RUN CONTROL RELAY TRANSITION RESISTORS PRECHARGE RESISTORS	TRANSITION TIME DELAY RELAY CONDENSER HIGH PRESSURE CUTOUT CONTROL RELAY GROUND FAULT RELAY POWER FACTOR CORRECTION CAPACITOR ISOLATION CONTACTOR OIL PUMP INTERLOCK RELAY SAFETY STOP RELAY	START CONTACTOR RUN CONTACTOR SHORTING CONTACTOR TRANSITION CONTACTOR PRECHARGE CONTACTOR PRECHARGE CONTACTOR CONTROL POWER INTERPOSING RELAY	PRIMARY LINE SYNC FUSING PRIMARY PRECHARGE RESISTOR FUSING CONTROL POWER SECONDARY FUSE FIRST STAGE POTENTIAL TRANSFORMER SECONDARY FUSING SECOND STAGE POTENTIAL TRANSFORMER SECONDARY FUSING SECOND STAGE POTENTIAL TRANSFORMER SECONDARY FUSING ADAPTINE FREQUENCY DRIVE SUPPLEMENTAL FUSE	POWER FACIOR CORRECTION CAPACITORS CONTROL POWER PRIMARY FUSING PRIMARY TRANSFORMER FUSING CONTROL POWER SECONDARY FUSE CONTROL POWER SECONDARY FUSE PRIMARY FILTER CAPACITOR FUSING	ADAPTIVE FREQUENCY DRIVE AC LINE I/O ADAPTIVE FREQUENCY DRIVE COMMUNICATION CARD ADAPTIVE FREQUENCY DRIVE GATE-KILL ADAPTIVE FREQUENCY DRIVE MODBUS COMMUNICATION CARD ADAPTIVE FREQUENCY DRIVE MODBUS COMMUNICATION CARD	ILINE SYNC PCB ENGINE—GENERATOR START/STOP CONTROL RELAY ENGINE—GENERATOR UP-TO-SPEED/FREQUENCY AND STARTER DRIVE FAULT INPUTS ENGINE—GENERATOR SPEED SIGNAL OUTPUT STARTER DRIVE FAULT INPUT	SOLID STATE STATER STARTER FAULT OR SCR FAULT CONTROL RELAY AT-SPEED CONTROL RELAY STARTER FAULT INPUT INPUT INDUCTOR	STARTER MODULE ADAPTIVE FREQUENCY DRIVE POWER MODULE STARTER S	LINE POTENTIAL TRANSFORMERS SECONDARY LINE CURRENT TRANSFORMERS JUMPER BAR JUMPER WIRES MAIN CONTROL PANEL TERMINAL BLOCKS	OIL/REFRIGERANT CONTROL CIRCUIT BREAKER OIL/REFRIGERANT PUMP MOTOR CIRCUIT BREAKER OIL/REFRIGERANT PUMP MOTOR CIRCUIT BREAKER SERVICE PORT CIRCUIT BREAKER POTENTIAL TRANSFORMER DISCONNECT SWITCH CONTROL TRANSFORMER	OIL/KEHRIGERANI HOMP MOTOR CONTROL RELAY OIL TANK HEATER RELAY PRIMARY EVAPORATION WATER FLOW DETECTION CONTROLLER PRIMARY CONDENSER WATER FLOW DETECTION CONTROLLER STARTER CONTROL CIRCUIT BREAKER PURGE CONTROL CIRCUIT BREAKER		CIRCUIT 1 AND 2 EXTERNAL LOCKOUT INPUTS MOTOR WINDING TEMPERATURE 1, 2 AND 3 INPUTS EVAPORATOR LOW WATER TEMPERATURE CUTOUT CONTROL	EXTERNAL FREE COOLING COMMAND AND FREE COOLING VALVES CLOSED INPUTS EXAPORATOR AND CONDENSER WATER DIFFERENTIAL PRESSURE INPUTS UC800 UNIT CONTROLLER STARTER MODULE STARTER FAULT INPUT	EXTERNAL BASE LOADING SEIPOINT AND REFRIGERANT MONITOR EXTERNAL BASE LOADING AND EXTERNAL HOT WATER CONTROL EXTERNAL ICE BUILDING COMMAND INPUT	EXTERNAL AUTO-STOP AND EMERGENCY STOP INPUTS COMMA OR COMMS MODULE % RIA COMPRESSOR AND CONDENSER REFRIGERANT PRESS FXTERNAL CHERENT LIMIT AND CHILLED WATER SETPOINT IN	HEAD RELIEF REQUEST, MAXIMU- OPERATING STATUS PROGRAMMAT TRACER SC MODULE FREE COOLING RELAY OUTPUTS HOT GAS BYPASS VALVE CONTE	EVAPORATOR AND CONDENSER WATER FLOW SWITCH/INTERLOCK OIL/REFRIGERANT PUMP MOTOR CONTROL RELAY NON-LATCHING AND LATCHING ALARM, LIMIT MODE AND RUNNIN OPERATING STATUS PROGRAMMABLE RELAYS	CONDENSER HIGH PRESSURE CUTOUT SWITCH EVAPORATOR AND CONDENSER WATER PUMP, INDICATOR RELAYS OIL TANK HEATER CONTROL RELAY	DESCRIPTION 24VDC POWER SUPPLY NO 1 24VDC POWER SUPPLY NO 2	מסים לייסים ואיים
444												1,2,3	2 - 2 2 2	2 2 2 2 2 2 2	1 1 2 2	2 2	1 1 2 3	J W W W	J (J (J N	W W W W W	5 5 8	N W N	PAGE 2 2	

SURGE CAPACITORS
CONTROL POWER INDICATOR
GROUND FAULT RELAY
GROUND FAULT RELAY
COMPRESSOR MOTOR
INLET GUIDE VANE ACTUATOR - FIRST STAGE
INLET GUIDE VANE ACTUATOR - SECOND OR THIRD STAGE
INLET GUIDE VANE ACTUATOR - SECOND OR THIRD STAGE
INLET GUIDE VANE ACTUATOR - SECOND OR THIRD STAGE
HOT GAS BYPASS VALVE
FREE COOLING LIQUID LINE VALVE
HOT GAS BYPASS VALVE
HOT GAS BYPASS VALVE
HOT GAS BYPASS VALVE
FREE COOLING CAS LINE VALVE
MOTOR WINDING TEMPERATURE SENSOR
OUL POWER DISCHARGE PRESSURE TRANSDUCER
OIL TANK PRESSURE TRANSDUCER
OIL TANK TEMPERATURE SENSOR
OIL TANK TEMPERATURE SENSOR
OIL TANK TEMPERATURE SENSOR
OIL TANK TEMPERATURE WATER TEMPERATURE SENSOR
CONDENSER ENTERING WATER TEMPERATURE SENSOR
CONDENSER ENTERING WATER TEMPERATURE SENSOR
CONDENSER SATURATED REFRIGERANT TEMPERATURE SENSOR
CONDENSER SATURATED REFRIGERANT TEMPERATURE SENSOR
CONDENSER SATURATED REFRICERANT TEMPERATURE SENSOR
CONDENSER SATURATED REFRICERANT TEMPERATURE SENSOR
CONDENSER WATER FLOW DETECTION SENSOR
EVAPORATOR WATER FLOW DETECTION SENSOR
CONDENSER WATER FLOW DETECTION SENSOR
EVAPORATOR LOW WATER TEMPERATURE SENSOR
CONTROL POWER TRANSFORMER
CONTROL POWER TRANSFORMER
CONTROL POWER TRANSFORMER
CONTROL POWER TRANSFORMER
DIFFERENTIAL MOTOR PROTECTION TERMINAL BLOCK
SOLD STATE STAFTER
STATER FAULT CONTROL RELAY
STARTER FAULT CONTROL RELAY

PUMPOUT VALVE

REGENERATION VALVE

CONDENSING UNIT MOTOR

CONDENSING UNIT MOTOR

CONDENSING UNIT FAN MOTOR

CONDENSING UNIT FAN MOTOR

COMPRESSOR MOTOR

COMPOUT COMPRESSOR

ENSER REFRICERANT PRESSURE TRANSDUCER

NOTOR PROTECTION RELAY

TOTOR PROTECTION RELAY

TOTOR PROTECTION RELAY

TOTOR PROTECTION RELAY

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SOLID STAFE STARTER

STARTER FAULT CONTROL RELAY

AT-SPEED CONITROL RELAY

AT-SPEED CONITROL RELAY

CONTROL POWER SECONDARY FUSE
CONITROL POWER SECONDARY FUSE
CHILLER NON-LATCHING ALARM INDICATOR
CHILLER COOLING INDICATOR
CHILLER LIMIT MODE INDICATOR
CHILLER MAXIMUM CAPACITY INDICATOR
CIRCUIT 1 PURGE ALARM INDICATOR
CIRCUIT 1 PURGE ALARM INDICATOR
CIRCUIT 1 RUNNING INDICATOR
CIRCUIT 1 ALARM INDICATOR
CIRCUIT 2 ALARM INDICATOR
CIRCUIT 3 ALARM INDICATOR
CIRCUIT 1 ALARM INDICATOR
CIRCUIT 1 ALARM INDICATOR
CIRCUIT 1 ALARM INDICATOR
CIRCUIT 1 ALARM INDICATOR
CIRCUIT 2 ALARM INDICATOR
CIRCUIT 1 ALARM INDICATOR
CIRCUIT 1

EXTERNAL BASE LOADING ENABLE/DISABLE SWITCH
EXTERNAL HOT WATER CONTROL ENABLE/DISABLE SWITCH
EXTERNAL ICE BUILDING COMMAND SWITCH
EXTERNAL ICE BUILDING COMMAND SWITCH
EXTERNAL ICE BUILDING SWITCH
EXTERNAL ICE COOLING SWITCH
CIRCUIT 1 EXTERNAL LOCKOUT SWITCH
CIRCUIT 2 EXTERNAL LOCKOUT SWITCH
UNE POTENTIAL FUSED DISCONNECT SWITCH
VACUUM CIRCUIT BREAKER AUXILLARY SWITCH
SECONDARY CONDENSER WATER PROOF OF FLOW DEVICE
SECONDARY CONDENSER WATER PROOF OF FLOW DEVICE
LINE CURRENT TRANSFORMER
SCONDARY LINE CURRENT TRANSFORMER
SCONDARY LINE CURRENT TRANSFORMER
SCONDARY LINE CURRENT TRANSFORMER
SCONDARY LINE CURRENT TRANSFORMER
SULINE POTENTIAL TRANSFORMER
SULINE POTENTIAL TRANSFORMER
SILINE POTENTIAL TRANSFORMERS
STERMING RICCK

CHILLER RUNNING RELAY

CHILLER RUNNING RELAY

EVAPORATOR WATER PROOF OF FLOW DEVICE

VAL AUTO-STOP SWITCH

ENCY STOP SWITCH

OOTENTIAL TRANSFORMERS

OOTENTIAL TRANSFORMERS

VAL BLOCK

E-GENERATOR START-STOP CONTROL

E-GENERATOR UP-TO-SPEED/FREQUENCY CONTROL

E-GENERATOR CIRCUIT BREAKER

E-GENERATOR TERMINAL BLOCKS

DESCONECTE TODA LA ENERCIA ELÉCTRICA,
NOLLOS LAS DESCONEXONES REMOTAS Y SIGA
LOS PROCEDIMENTOS DE CIERRE Y ETIQUETIADO
ANTES DE PROCEDER AL SERVICIO. ASECGRESE
DE QUE TODOS LOS CAPACITORES DEL MOTOR
HAYAN DESCARÇADO EL VOLTALE ALMACENADO.
PARA LAS UNIDADES CON ELED ED IRECCIÓN
DE VELOCIDAD VARIABLE. CONSULTE LAS
INSTRUCCIONES PARA LA DESCARRA
DEL CONDENSADOR. **ADVERTENCIA**

SCONNECT ALL ELECTRIC POWER INCLUDING MOTE DISCONNECTS AND POLLOW LOOK OUT WID TAG PROCEDURES BEFORE SERVICING. ISJARE THAT ALL MOTOR CAA-CITORS HAVE INCHARGED STORED VOLTAGE. UNITS WITH VARNABLE SPEED DRIVE, REFER TO DRIVE NETROLOTIONS FOR CAFACTIOR DISCHARGE. UNE TO DO THE ABOVE BEFORE SERVICING UND RESULT IN DEATH OR SERIOUS INJURY.

COUPER TOUTES LEST INSIGNATE OF OWNER

LES SECTIONNEURS À DISTANCE, PUIS SUVRE

LES PROCEDIRES DE VIERROUILLAGE ET DES

FINQUETTES ANANT TOUTE INTERVENTION.

VERIFIER QUE TOUS LES CONDENSAFILERS

DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS

D'UNITÉS COMPOPRANT DES ENTRANEMENTS

À VITESSE VARIABLE, SE REPORTER AUX

NOTRUCTIONS DE L'ETRIPANEMENT POUR

DÉCHARGER LES CONDENSAFEURS.

NE PAS RESPECTER CES MESURES DE

PRÉCAUTION DEUT ENTRANEME DES DESSURES

GRAVES POUVANT ETRE MORTELLES.

WARNING

AVERTISSEMENT

NOTE: (1) = (2) = (3) = (4) = (5) =

 $\begin{smallmatrix} AS & AS & AS \\ AS & S & AS \end{smallmatrix}$

USED ON CYHE, CYHF AND CYHG UNITS.
USED ON LH CIRCUIT OF COHF AND COHG UNITS.
USED ON RH CIRCUIT OF COHF AND COHG UNITS.
USED WITH UNIT MOUNTED LF2 ADAPTIVE FREQUENCY
USED WITH ENGINE—GENERATOR SET.

CAUTION

OPPER CONDUCTOR

RMINALS ARE NOT DESIGNED TO OTHER TYPES OF CONDUCTORS. FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT.

DEL CONDENSADOR.
EL NO REALIZAR LO ANTERIORMENTE INDICADO,
EDODRÍA OCASIONAR LA MUERTE O SERIAS
LESIONES PERSONALES.

ONLY!

ATTENTION

N'UTILISER QUE DES CONDUC

LES BORNES DE L'UNITÉ NE SONT PAS CONQUES POUR RECEVOIR D'AUTRES TYPES DE CONDUCTEURS. L'UTILISATION DE TOUT AUTRE CONDUCTEUR PEUT ENDOMMAGER L'ÉQUIPEMENT.

DEVICE PREFIX CODE

1 MAIN UNIT CONTROL PANEL DEVICE
2 STAFTER PANEL DEVICE
2 PURGE DEVICE
4 UNIT MOUNTED DEVICE
5 EUGITOMER PROVIDED DEVICE
6 ENGINE DEVICE DEVICE
7 REDUCED VOLTAGE PANEL DEVICE

DASHED LINES INDICATE WRING BY OTHERS
THIS DRAWING IS PROPRIETARY AND SHALL NOT BE
COPIED OR ITS CONTENTS DISCLOSED TO OUTSIDE
PARTIES WITHOUT THE WRITTEN CONSENT OF TRAVE

LAS TERMINALES DE LA UNIDAD NO ESTÁN DISEÑADAS PARA ACEPTAR OTROS TIPOS DE CONDUCTORRES.

SI NO LO HAGE, PUEDE OCASIONAR DAÑO AL EQUIPO.