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|  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. |  AVERTISSEMENT
TENSION DANGEREUSE!
COUPER TOUTES LES TENSIONS ET REMPLIR LES GRIVES À DISTANCE. PUIS SUIVRE LES PROCÉDÉS DE VERROUILLAGE ET DES ÉTIQUETTES AVANT TOUTE INTERVENTION. VÉRIFIER QUE TOUTS LES CONDENSATEURS DES MOTEURS SONT DÉCHARGÉS. DANS LE CAS D'UNITÉS COMPORTANT DES ENTRAÎNEMENTS À VITESSE VARIABLE, SE RÉFÉRER AUX INSTRUCTIONS DE L'ENTRAÎNEMENT POUR DÉCHARGER LES CONDENSATEURS. |  ADVERTENCIA
¡VOLTAJE PELIGROSO!
DESCONECTE TODA LA ENERGÍA ELÉCTRICA, INCLUIDO LAS DESCONECCIONES 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 EJE DE QUE GIRA A VELOCIDAD VARIABLE, CONSULTE LAS INSTRUCCIONES PARA LA DESCARGA DEL CONDENSADOR. |
| FAILURE TO TAKE THE ABOVE BEFORE SERVICING COULD RESULT IN DEATH OR SERIOUS INJURY. | NE PAS RESPECTER CES MESURES DE PRÉCAUTION PEUT ENTRAÎNER DES BLESSURES GRAVES POUVANT ÊTRE MORTELLES. | EL NO REALIZAR LO ANTERIORMENTE INDICADO, PODRÍA OCASIONAR LA MUERTE O SERIAS LESIONES PERSONALES. |

DO NOT ENERGIZE UNIT UNTIL
CHECK-OUT AND START-UP
PROCEDURE HAS BEEN COMPLETED.

WIRE NUMBER	SPOOL
3A	14_BLK_2
3N	14_BLK_2
17A	14_BLU_2
2A	14_BLU_2
2L	14_BLU_2
6C	14_BLU_2
16A	14_RED_2
1D	14_RED_2
1T	14_RED_2
4A	14_RED_2
W 6	14_VIO_2
3C	18_BLK_2
CCH-BLK1	18_BLK_2
CCH-BLK2	18_BLK_2
IND-BLK	18_BLK_2
ODM-BLK	18_BLK_2
W 031	18_BLK_2
101AR	18_BLU_2
2C	18_BLU_2
W 4	18_BLU_2
W 030	18_BLU_2
ODM-BRN	18_BRN_2
100AF	18_RED_2
100AG	18_RED_2
1B	18_RED_2
1E	18_RED_2
1S	18_RED_2
4E	18_RED_2
8A	18_RED_2
IND-RED	18_RED_2
ODM-RED	18_RED_2
W 029	18_RED_2
21A	18_VIO_2
IND-VIO	18_VIO_2
ODM-VIO	18_VIO_2

FROM				WIRE NUMBER		TO			
COMPONENT	PART NUMBER	PIN	TERMINATOR			COMPONENT	PART NUMBER	PIN	TERMINATOR
CC1	TBD	L1		1T	14_RED_2		PHM		
CC1	TBD	L1		1B	18_RED_2	TNS1	X1355_0228_01		
CC1	TBD	L1		1S	18_RED_2	ODF2	ODF2	1	
CC1	TBD	L2		2L	14_BLU_2		PHM		
CC1	TBD	L3		3N	14_BLK_2		PHM		
CC1	TBD	T1		4A	14_RED_2	CPR1	TBD		
CC1	TBD	T2		6C	14_BLU_2	CPR1	TBD		
CF1	TBD	LT		W 6	14_VIO_2	CC1	TBD	T3	
CPR1	TBD			3C	18_BLK_2	CC1	TBD	L3	
CTL	X1310_0055_03	LT		4E	18_RED_2	CC1	TBD	T1	
F	TBD	L1		1D	14_RED_2	CC1	TBD	L1	
F	TBD	L2		2A	14_BLU_2	CC1	TBD	L2	
IDM	TBD			3A	14_BLK_2	CC1	TBD	L3	
IDM	TBD			17A	14_BLU_2	F	TBD	T2	
IDM	TBD			16A	14_RED_2	F	TBD	T1	
IGN	TBD	IND_L2		1E	18_RED_2	CC1	TBD	L1	
IGN	TBD	IND_SINGLE/HI		8A	18_RED_2	PPF1	AMP_770078_1	2	
PPF1	AMP_770078_1	1		2C	18_BLU_2	CC1	TBD	L2	
PPF1	AMP_770078_1	3		21A	18_VIO_2	IGN	TBD	IND_LO	
TNS1	X1355_0228_01			W 4	18_BLU_2	CC1	TBD	L2	
	PHM			101AR	18_BLU_2				
	PHM			100AF	18_RED_2				
	PHM			100AG	18_RED_2				

KAREN AND CASSANDRA'S DIAGNOSTIC CHECK LIST 8/7/00									
FROM				WIRE NUMBER		TO			
COMPONENT	PART NUMBER	PIN	ENTRY			COMPONENT	PART NUMBER	PIN	ENTRY
	PHM			100AF	18_RED_2				
	PHM			100AG	18_RED_2				
	PHM			101AR	18_BLU_2				
IDM	TBD			16A	14_RED_2	F	TBD	T1	T1
IDM	TBD			17A	14_BLU_2	F	TBD	T2	T2
CC1	TBD	L1	L1	1B	18_RED_2	TNS1	X1355_0228_01		
F	TBD	L1	L1	1D	14_RED_2	CC1	TBD	L1	L1
IGN	TBD	IND_L2	IND_L2	1E	18_RED_2	CC1	TBD	L1	L1
CC1	TBD	L1	L1	1S	18_RED_2	ODF2	ODF2	1	
CC1	TBD	L1	L1	1T	14_RED_2		PHM		
PPF1	AMP_770078_1	3	3	21A	18_VIO_2	IGN	TBD	IND_LO	IND_LO
F	TBD	L2	L2	2A	14_BLU_2	CC1	TBD	L2	L2
PPF1	AMP_770078_1	1	1	2C	18_BLU_2	CC1	TBD	L2	L2
CC1	TBD	L2	L2	2L	14_BLU_2		PHM		
IDM	TBD			3A	14_BLK_2	CC1	TBD	L3	L3
CPR1	TBD			3C	18_BLK_2	CC1	TBD	L3	L3
CC1	TBD	L3	L3	3N	14_BLK_2		PHM		
	TBD			4A	14_RED_2	CPR1	TBD		
	TBD			4E	18_RED_2	CPR1	TBD		
	TBD			6C	14_BLU_2	CPR1	TBD		
	TBD			W 6	14_VIO_2	CC1	TBD	T3	
	TBD			3C	18_BLK_2	CC1	TBD	L3	
	TBD			17A	14_BLU_2	F	TBD	T2	
	TBD			16A	14_RED_2	F	TBD	T1	
	TBD			1E	18_RED_2	CC1	TBD	L1	
	TBD			8A	18_RED_2	PPF1	AMP_770078_1	2	
	TBD			2C	18_BLU_2	CC1	TBD	L2	
	TBD			21A	18_VIO_2	IGN	TBD	IND_LO	
	TBD			W 4	18_BLU_2	CC1	TBD	L2	
	TBD			101AR	18_BLU_2				
	TBD			100AF	18_RED_2				
	TBD			100AG	18_RED_2				

1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AS NORMALLY OPEN (77° F) AT ATMOSPHERIC PRESSURE. AT 50% RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
4. THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
5. CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W 4 (BLU) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
6. CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS OPERATION. WHEN SINGLE-STAGE OPERATION IS REQUIRED, WIRE 21A (VIO) IS NOT CONNECTED TO IGN, AND WIRE (IND VIO) IS NOT PRESENT.
7. CONNECTIONS SHOWN ARE FOR 5-TON AND SMALLER UNITS. FOR UNITS GREATER THAN 5-TON, CTL AND WIRE 4E (RED) ARE NOT PRESENT, AND CCH WIRES ARE CONNECTED TO CC1-L1 AND CC1-T1.
8. CONNECTIONS SHOWN ARE FOR DEHUMIDIFICATION OPTION (2-SPEED ODM). FOR 1-SPEED ODM, WIRES 1S (RED), (ODM RED) AND COMPONENT ODF2 ARE NOT PRESENT AND (ODM BLK) IS CONNECTED TO CC1-L1.
9. OPTIONAL PHASE MONITOR CONNECTIONS SHOWN ARE FOR ELECTRO-MECHANICAL CONTROLS. FOR RELIATEL CONTROLS, SEE INSET AA.
10. OPTIONAL PHASE MONITOR CONNECTIONS FOR RELIATEL CONTROLS, MOVE 100L FROM LTB1-6 TO PHM Y-OUT. CONNECT 100AF TO LTB1-6. CONNECT WIRE 101AR TO TNS1 SECONDARY COM AND WIRE 100AG IS NOT USED.
11. CUT JUMPER FOR 50 HZ.

PRO/E	TRANE COMPANY	4366-1016	M
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DATE DO NOT SCALE PRINT 05-01-01	SCALE PRINT THIRD ANGLE PROJECTION	DATE DO NOT SCALE PRINT 05-01-01	SCALE PRINT THIRD ANGLE PROJECTION

REF DES	ENTRY_PORT	PIN NAME	MODEL NAME
CC1	L1	L1	TBD
CC1	L2	L2	TBD
CC1	L3	L3	TBD
CC1	T1	T1	TBD
CC1	T2	T2	TBD
CC1	T3	T3	TBD
CCH	LT	LT	TBD
CCH	RT	RT	TBD
CF1	LT	1	TBD
CF1	LT	LT	TBD
CF1	RT	RT	TBD
CPR1		T1	TBD
CPR1		T2	TBD
CPR1		T3	TBD
CTL	LT	LT	X1310...0055...03
CTL	RT	RT	X1310...0055...03
F	L1	L1	TBD
F	L2	L2	TBD
F	T1	T1	TBD
F	T2	T2	TBD
IDM		T1	TBD
IDM		T2	TBD
IDM		T3	TBD
IGN	IND_L2	1	TBD
IGN	IND_LO	3	TBD
IGN	IND_SINGLE	4	TBD
IND		1	TBD
IND		2	TBD
IND		3	TBD
IND	1	TBD	1. UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25° C (77° F) AT ATMOSPHERIC PRESSURE, AND 50% RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
IND		TBD	
IND		TBD	
IND		6	
ODF2	2	TBD	2. DASHED LINES INDICATE RECOMMENDED FIELD WIRING BY OTHERS. DASHED LINE ENCLOSURES AND/OR DASHED DEVICE OUTLINES INDICATE COMPONENTS PROVIDED BY THE FIELD. PHANTOM LINE ENCLOSURES INDICATE ALTERNATE CIRCUITRY OR AVAILABLE SALES OPTIONS.
ODF2		TBD	
ODF2		TBD	
ODF2	3	ODF2	
ODM	3	TBD	3. NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
ODM	2	TBD	
ODM	3	TBD	4. THREE-PHASE MOTORS ARE PROTECTED UNDER PRIMARY SINGLE PHASING CONDITIONS. ALL MOTORS HAVE INTERNAL OVERLOAD PROTECTION AND COMPRESSORS HAVE INTERNAL THERMAL PROTECTION.
ODM	4	TBD	
ODM	5	TBD	
ODM	5	TBD	5. CONNECTIONS SHOWN ARE FOR 230V/60HZ/3PH UNITS. WHEN 208V/60HZ/3PH OPERATION IS REQUIRED, MOVE WIRE W4 (BLU) FROM THE 230V TERMINAL ON TNS1 TO THE 208V TERMINAL.
PHM	3	PHM	
PHM	6	TBD	6. CONNECTIONS SHOWN ARE FOR DUAL-STAGE GAS OPERATION. WHEN SINGLE-STAGE OPERATION IS REQUIRED, WIRE 21A (VIO) IS NOT CONNECTED TO IGN, AND WIRE (IND VIO) IS NOT PRESENT.
PHM	4	TBD	
PHM	7	TBD	7. CONNECTIONS SHOWN ARE FOR 5-TON AND SMALLER UNITS. FOR UNITS GREATER THAN 5-TON, CTL AND WIRE 4E (RED) ARE NOT PRESENT, AND CCH WIRES ARE CONNECTED TO CC1-L1 AND CC1-T1.
PHM	5	TBD	
PPF1	8	TBD	8. CONNECTIONS SHOWN ARE FOR DEHUMIDIFICATION OPTION (2-SPEED ODM). FOR 1-SPEED ODM, WIRES 1S (RED), (ODM RED) AND COMPONENT ODF2 ARE NOT PRESENT AND (ODM BLK) IS CONNECTED TO CC1-L1.
PPF1	2	TBD	
PPF1	3	TBD	
PPM1	9	TBD	9. OPTIONAL PHASE MONITOR CONNECTIONS SHOWN ARE FOR ELECTRO-MECHANICAL CONTROLS. FOR RELIATEL CONTROLS, SEE INSET AA.
PPM1	2	TBD	
PPM1	3	TBD	10. OPTIONAL PHASE MONITOR CONNECTIONS FOR RELIATEL CONTROLS, MOVE 100L FROM LTB1-6 TO PHM Y-OUT. CONNECT 100AF TO LTB1-6. CONNECT WIRE 101AR TO TNS1 SECONDARY COM AND WIRE 100AB IS NOT USED.
TNS1	3	TBD	
TNS1		TBD	
TNS1	H1	X1355...0228...01	11. CUT JUMPER FOR 50-50 HZ.
TNS1	H2	X1355...0228...01	
TNS1		H3	X1355...0228...01

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PRO/E		DIAGRAM	M
DATE DO NOT SCALE PRINT		POWER - GAS HEAT, 3-7.5 TON, 230V-3PH PWR, BD IDM	