



- NOTES:
- UNLESS OTHERWISE NOTED, ALL SWITCHES ARE SHOWN AT 25°C (77°F), AT ATMOSPHERIC PRESSURE, AT 50% RELATIVE HUMIDITY WITH ALL UTILITIES TURNED OFF AND AFTER A NORMAL SHUTDOWN HAS OCCURRED.
  - 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.
  - NUMBERS ALONG THE RIGHT SIDE OF THE SCHEMATIC DESIGNATE THE LOCATION OF CONTACTS BY LINE NUMBER. AN UNDERLINED NUMBER INDICATES A NORMALLY CLOSED CONTACT.
  - WHEN INSTALLING OPTIONAL ECONOMIZER, REMOVE CONFIG PLUG PPM2, AND CONNECT ECONOMIZER PLUG PPM2A TO PPF2, AND CONNECT MAS TO WIRES 180A AND 181A.
  - CONNECTIONS SHOWN INCLUDE FOS, TOL1, AND HPC1. IF NONE OF THESE OPTIONS ARE INSTALLED, CONNECT WIRE LPC1-BLU TO WIRE W92. IF ANY OR ALL OF THESE OPTIONS ARE INSTALLED, CONNECT THEM IN SERIES AS SHOWN.
  - FOR MOTORIZED OUTSIDE AIR DAMPER, OPTIONAL MAS AND OAS (AND ASSOCIATED WIRING) ARE NOT USED.
  - CONNECTIONS SHOWN INCLUDE OPTIONAL SMOKE DETECTORS AND OPTIONAL CONDENSATE OVERFLOW.
    - IF ONLY THE PHASE MONITOR IS INSTALLED, CONNECT WIRE W80 TO TNS1-24VAC AND WIRE W81 TO WIRE W83/W85.
    - IF ONLY THE SMOKE DETECTORS ARE INSTALLED, CONNECT WIRE W81 TO WIRE W83/W85.
    - IF ONLY THE PHASE MONITOR AND CONDENSATE OVERFLOW ARE INSTALLED, CONNECT WIRE W80 TO TNS1-24VAC.
  - CONNECTIONS SHOWN INCLUDE OPTIONAL SMOKE DETECTORS. THE FOLLOWING COMBINATIONS ARE ALLOWED: RASD ONLY, SASD ONLY, RASD & SASD, AND PLSD ONLY. IF RASD OR PLSD IS NOT INSTALLED, CONNECT WIRE 510B TO WIRE W78. IF SASD IS NOT INSTALLED, CONNECT WIRE 100CN TO WIRE W77.
  - STANDARD ECONOMIZER ECA IS ATTACHED TO THE BACK OF THE RTEM-EM.
  - INDOOR MOTOR LOW VOLTAGE SPEED TAPS 1-5.

DEVICE DESIGNATION	DESCRIPTION	LINE NUMBER
CC1	CONTACTOR - COMPRESSOR	92
COF	CONDENSATE OVERFLOW	67
COFR	COF RELAY	66,69
COFTD	COF TIME DELAY	66
ECA	ECONOMIZER ACTUATOR	112
F	FAN CONTACTOR	71,81,85
FOS	FROSTAT	92
FTD	FAN, TIME DELAY	85,88
GV	GAS VALVE, SINGLE STAGE	77
HPC1	HIGH PRESSURE CUTOFF	92
IDM	ID FAN MOTOR	71
LPC1	SWITCH - LOW PRESSURE	92
MAS	MIXED AIR SENSOR	95
OAS	OD AIR SENSOR	110
PHM	MODULE - PHASE MONITOR	69
PLSD	PLENUM SMOKE DETECTOR	63
RASD	RTN AIR SMOKE DETECTOR	63
RTEM-EM	ECONOMIZER MODULE - EM	98
SASD	SUPPLY AIR SMOKE DETECT	68
TOL1	THERMOSTAT DISCHARGE LIMIT	92
TNS1	TRANSFORMER - 24V CONTROLS	61

TRANE  
 12/13/64-2  
 12/13/64-3  
 PRECEDENT  
 CONTROL, COOLING ONLY, 3-5 TON  
 ELECTRMECHANICAL CONTROL  
 SHEET: 1 OF 1  
 REV: B