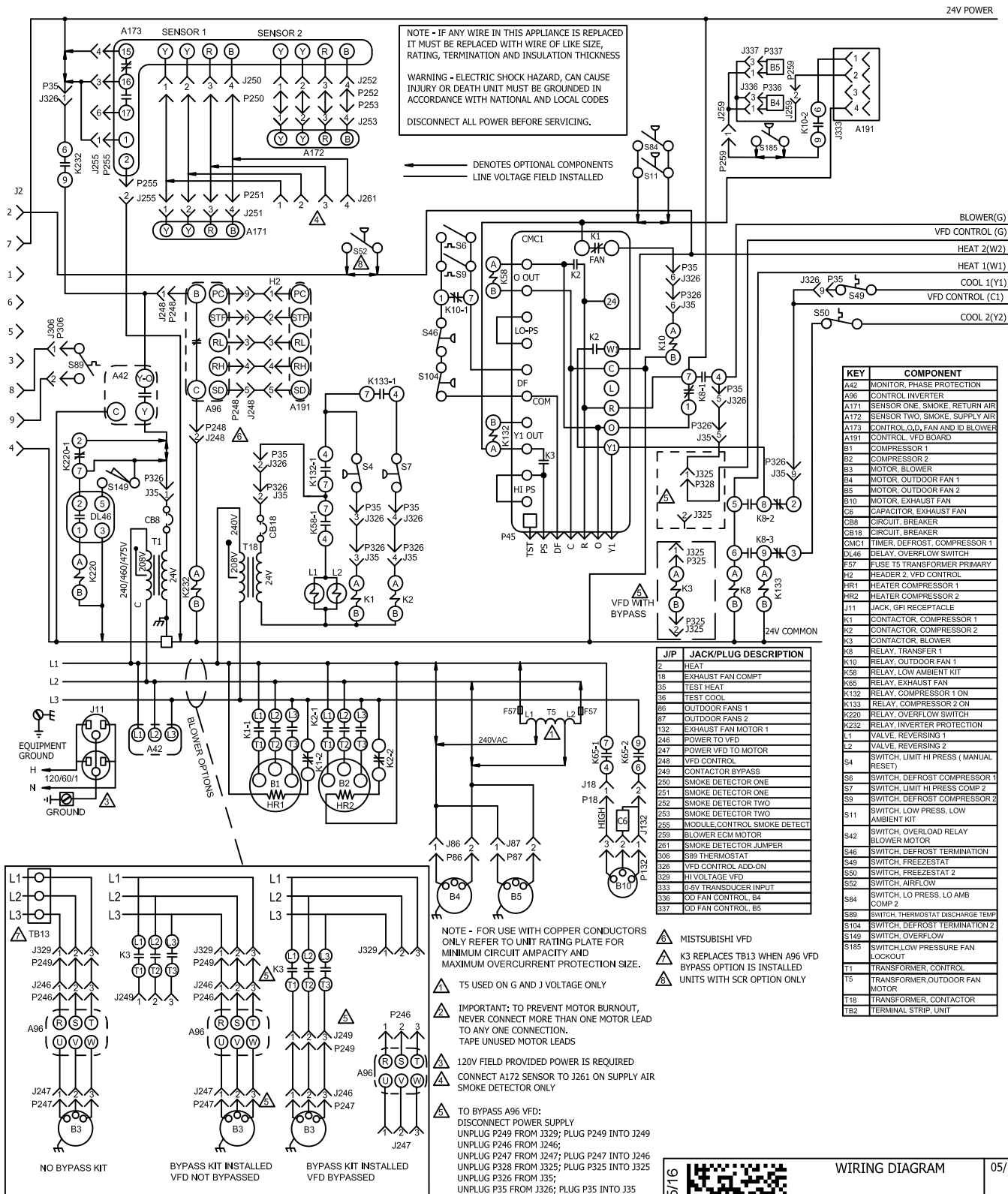




KEY	COMPONENT
A42	MONITOR: PHASE PROTECTION
A86	CONTROL: INVERTER
A171	SENSOR ONE: SMOKE, RETURN AIR
A172	SENSOR TWO: SMOKE, SUPPLY AIR
A173	CONTROL: O.D., FAN AND ID BLOWER
A191	CONTROL: VFD BOARD
B1	COMPRESSOR 1
B2	COMPRESSOR 2
B3	MOTOR: BLOWER
B4	MOTOR: OUTDOOR FAN 1
B5	MOTOR: OUTDOOR FAN 2
B10	MOTOR: EXHAUST FAN
C6	CAPACITOR: EXHAUST FAN
CB8	CIRCUIT: BREAKER
CB18	CIRCUIT: BREAKER
CMC1	TIMER: DEFROST, COMPRESSOR 1
DL46	DELAY: OVERFLOW SWITCH
F57	FUSE: T5 TRANSFORMER PRIMARY
H2	HEADER: 2: VFD CONTROL
HR1	HEATER COMPRESSOR 1
HR2	HEATER COMPRESSOR 2
J11	JACK: GFI RECEPTACLE
K1	CONTACTOR: COMPRESSOR 1
K2	CONTACTOR: COMPRESSOR 2
K3	CONTACTOR: BLOWER
K8	RELAY: TRANSFER 1
K10	RELAY: OUTDOOR FAN 1
K58	RELAY: LOW AMBIENT KIT
K65	RELAY: EXHAUST FAN
K132	RELAY: COMPRESSOR 1 ON
K133	RELAY: COMPRESSOR 2 ON
K220	RELAY: OVERFLOW SWITCH
K232	RELAY: INVERTER PROTECTION
L1	VALVE: REVERSING 1
L2	VALVE: REVERSING 2
S4	SWITCH: LIMIT HI PRESS (MANUAL RESET)
S6	SWITCH: DEFROST COMPRESSOR 1
S7	SWITCH: LIMIT HI PRESS COMP 2
S9	SWITCH: DEFROST COMPRESSOR 2
S11	SWITCH: LOW PRESS, LOW AMBIENT KIT
S42	SWITCH: OVERLOAD RELAY BLOWER MOTOR
S46	SWITCH: DEFROST TERMINATION
S49	SWITCH: FREEZE/STAT
S50	SWITCH: FREEZE/STAT 2
S52	SWITCH: AIRFLOW
S84	SWITCH: LO PRESS, LO AMB COMP 2
S89	SWITCH: THERMOSTAT DISCHARGE TEMP
S104	SWITCH: DEFROST TERMINATION 2
S149	SWITCH: OVERFLOW
S185	SWITCH: LOW PRESSURE FAN LOCKOUT
T1	TRANSFORMER: CONTROL
T5	TRANSFORMER: OUTDOOR FAN MOTOR
T18	TRANSFORMER: CONTACTOR
TB2	TERMINAL STRIP: UNIT

J/P	JACK/PLUG DESCRIPTION
2	HEAT
18	EXHAUST FAN COMPT
35	TEST HEAT
36	TEST COOL
86	OUTDOOR FANS 1
87	OUTDOOR FANS 2
132	EXHAUST FAN MOTOR 1
246	POWER TO VFD
247	POWER VFD TO MOTOR
248	VFD CONTROL
249	CONTACTOR BYPASS
250	SMOKE DETECTOR ONE
251	SMOKE DETECTOR ONE
252	SMOKE DETECTOR TWO
253	SMOKE DETECTOR TWO
255	MODULE: CONTROL SMOKE DETECT
259	BLOWER ECM MOTOR
261	SMOKE DETECTOR JUMPER
306	S89 THERMOSTAT
326	VFD CONTROL ADD-ON
329	HI VOLTAGE VFD
333	0-5V TRANSDUCER INPUT
336	OD FAN CONTROL: B4
337	OD FAN CONTROL: B5

▲ MITSUBISHI VFD
▲ K3 REPLACES TB13 WHEN A96 VFD BYPASS OPTION IS INSTALLED
▲ UNITS WITH SCR OPTION ONLY

NOTE - FOR USE WITH COPPER CONDUCTORS ONLY REFER TO UNIT RATING PLATE FOR MINIMUM CIRCUIT AMPACITY AND MAXIMUM OVERCURRENT PROTECTION SIZE.

▲ T5 USED ON G AND J VOLTAGE ONLY

▲ IMPORTANT: TO PREVENT MOTOR BURNOUT, NEVER CONNECT MORE THAN ONE MOTOR LEAD TO ANY ONE CONNECTION. TAPE UNUSED MOTOR LEADS

▲ 120V FIELD PROVIDED POWER IS REQUIRED CONNECT A172 SENSOR TO J261 ON SUPPLY AIR SMOKE DETECTOR ONLY

▲ TO BYPASS A96 VFD: DISCONNECT POWER SUPPLY UNPLUG P249 FROM J329; PLUG P249 INTO J249 UNPLUG P246 FROM J246; UNPLUG P247 FROM J247; PLUG P247 INTO J246 UNPLUG P328 FROM J325; PLUG P325 INTO J325 UNPLUG P326 FROM J35; UNPLUG P35 FROM J326; PLUG P35 INTO J35

05/16

WIRING DIAGRAM

05/16

537850-01

COOLING

KHB- 092,102 - G,J,Y - VFD UNITS

SECTION B

Supersedes

New Form No.

REV. 0

537850-01