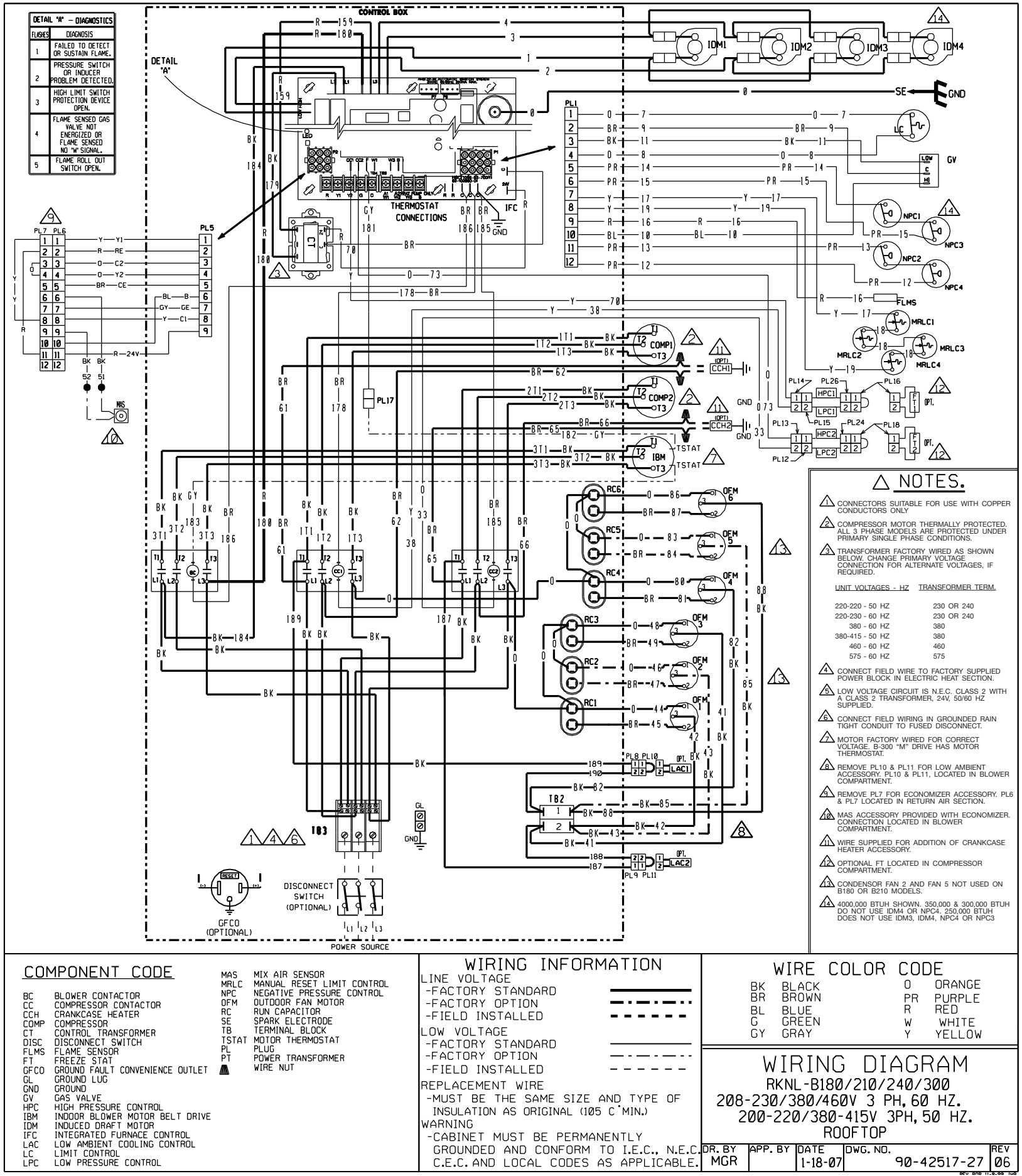

DETAIL "A" – DIAGNOSTICS
FLASHES
DIAGNOSIS
1
FAILED TO DETECT OR SUSTAIN FLAME.
2
PRESSURE SWITCH OR INDUCER PROBLEM DETECTED.
3
HIGH LIMIT SWITCH PROTECTION DEVICE OPEN.
4
FLAME SENSED GAS VALVE NOT ENERGIZED OR FLAME SENSED NO "W" SIGNAL.
5
FLAME ROLL OUT SWITCH OPEN.
CONTROL BOX
DETAIL "A"
THERMOSTAT CONNECTIONS
IDM1
IDM2
IDM3
IDM4
SE
GND
LC
GV
NPC1
NPC3
NPC2
NPC4
FLMS
MRLC1
MRLC2
MRLC3
MRLC4
COMP1
COMP2
IBM
CCH1
CCH2
HPC1
LPC1
HPC2
LPC2
RC6
RC5
RC4
RC3
RC2
RC1
OFM 6
OFM 5
OFM 4
OFM 3
OFM 2
OFM 1
PL17
MAS
GFCO (OPTIONAL)
DISCONNECT SWITCH (OPTIONAL)
POWER SOURCE
LAC1
LAC2
TB2
GL
GND
NOTES.
1 CONNECTORS SUITABLE FOR USE WITH COPPER CONDUCTORS ONLY
2 COMPRESSOR MOTOR THERMALLY PROTECTED. ALL 3 PHASE MODELS ARE PROTECTED UNDER PRIMARY SINGLE PHASE CONDITIONS.
3 TRANSFORMER FACTORY WIRED AS SHOWN BELOW. CHANGE PRIMARY VOLTAGE CONNECTION FOR ALTERNATE VOLTAGES, IF REQUIRED.
UNIT VOLTAGES - HZ
TRANSFORMER TERM.
220-220 - 50 HZ
230 OR 240
220-230 - 60 HZ
230 OR 240
380 - 60 HZ
380
380-415 - 50 HZ
380
460 - 60 HZ
460
575 - 60 HZ
575
4 CONNECT FIELD WIRE TO FACTORY SUPPLIED POWER BLOCK IN ELECTRIC HEAT SECTION.
5 LOW VOLTAGE CIRCUIT IS N.E.C. CLASS 2 WITH A CLASS 2 TRANSFORMER, 24V, 50/60 HZ SUPPLIED.
6 CONNECT FIELD WIRING IN GROUNDED RAIN TIGHT CONDUIT TO FUSED DISCONNECT.
7 MOTOR FACTORY WIRED FOR CORRECT VOLTAGE. B-300 "M" DRIVE HAS MOTOR THERMOSTAT.
8 REMOVE PL10 & PL11 FOR LOW AMBIENT ACCESSORY. PL10 & PL11, LOCATED IN BLOWER COMPARTMENT.
9 REMOVE PL7 FOR ECONOMIZER ACCESSORY. PL6 & PL7 LOCATED IN RETURN AIR SECTION.
10 MAS ACCESSORY PROVIDED WITH ECONOMIZER. CONNECTION LOCATED IN BLOWER COMPARTMENT.
11 WIRE SUPPLIED FOR ADDITION OF CRANKCASE HEATER ACCESSORY.
12 OPTIONAL FT LOCATED IN COMPRESSOR COMPARTMENT.
13 CONDENSOR FAN 2 AND FAN 5 NOT USED ON B180 OR B210 MODELS.
14 4000,000 BTUH SHOWN. 350,000 & 300,000 BTUH DO NOT USE IDM4 OR NPC4. 250,000 BTUH DOES NOT USE IDM3, IDM4, NPC4 OR NPC3
COMPONENT CODE
BC BLOWER CONTACTOR
CC COMPRESSOR CONTACTOR
CCH CRANKCASE HEATER
COMP COMPRESSOR
CT CONTROL TRANSFORMER
DISC DISCONNECT SWITCH
FLMS FLAME SENSOR
FT FREEZE STAT
GFCO GROUND FAULT CONVENIENCE OUTLET
GL GROUND LUG
GND GROUND
GV GAS VALVE
HPC HIGH PRESSURE CONTROL
IBM INDOOR BLOWER MOTOR BELT DRIVE
IDM INDUCED DRAFT MOTOR
IFC INTEGRATED FURNACE CONTROL
LAC LOW AMBIENT COOLING CONTROL
LC LIMIT CONTROL
LPC LOW PRESSURE CONTROL
MAS MIX AIR SENSOR
MRLC MANUAL RESET LIMIT CONTROL
NPC NEGATIVE PRESSURE CONTROL
OFM OUTDOOR FAN MOTOR
RC RUN CAPACITOR
SE SPARK ELECTRODE
TB TERMINAL BLOCK
TSTAT MOTOR THERMOSTAT
PL PLUG
PT POWER TRANSFORMER
WIRE NUT
WIRING INFORMATION
LINE VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED
LOW VOLTAGE
-FACTORY STANDARD
-FACTORY OPTION
-FIELD INSTALLED
REPLACEMENT WIRE
-MUST BE THE SAME SIZE AND TYPE OF INSULATION AS ORIGINAL (105 C MIN.)
WARNING
-CABINET MUST BE PERMANENTLY GROUNDED AND CONFORM TO I.E.C., N.E.C. C.E.C. AND LOCAL CODES AS APPLICABLE.
WIRE COLOR CODE
BK BLACK
BR BROWN
BL BLUE
G GREEN
GY GRAY
O ORANGE
PR PURPLE
R RED
W WHITE
Y YELLOW
WIRING DIAGRAM
RKNL-B180/210/240/300
208-230/380/460V 3 PH, 60 HZ.
200-220/380-415V 3PH, 50 HZ.
ROOFTOP
DR. BY MGR
APP. BY
DATE 1-18-07
DWG. NO. 90-42517-27
REV 06