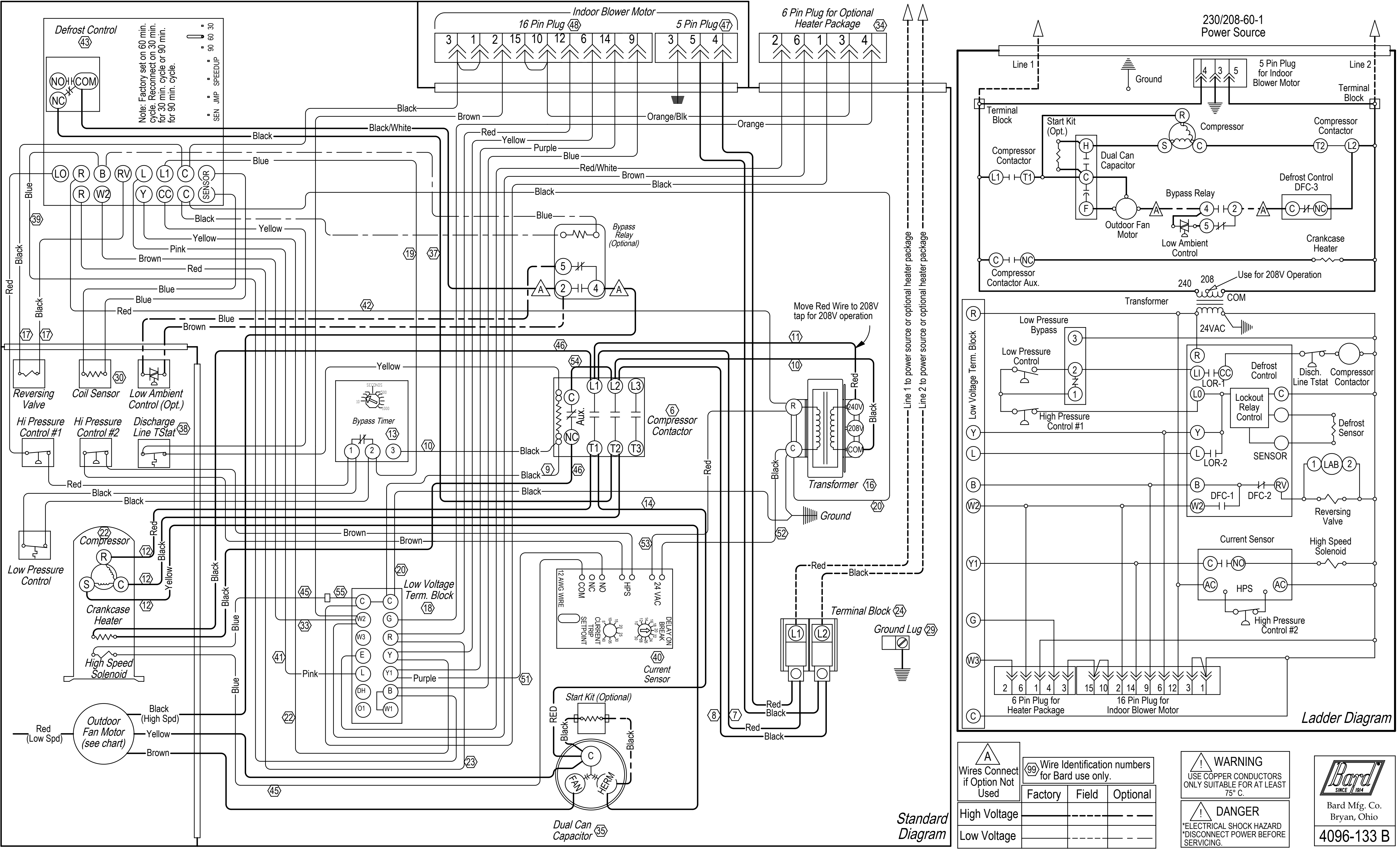

Defrost Control 43
Note: Factory set on 60 min. cycle. Reconnect on 30 min. for 30 min. cycle or 90 min. for 90 min. cycle.
SEN JMP SPEEDUP
30 60 90
NO COM NC
LO R B RV L L1 C SENSOR
R W2 Y CC C
Indoor Blower Motor
16 Pin Plug 48
5 Pin Plug 47
6 Pin Plug for Optional Heater Package 34
Black
Brown
Black/White
Black
Orange/Blk
Orange
Red
Yellow
Purple
Blue
Red/White
Brown
Black
Black
Blue
Blue
Black
Yellow
Yellow
Pink
Brown
Red
Blue
Blue
Red
Blue
Brown
Bypass Relay (Optional)
Red
Black
Black
Blue
39
17 17
19 37
42
46
54
11
10
Reversing Valve
Coil Sensor 30
Low Ambient Control (Opt.)
Hi Pressure Control #1
Hi Pressure Control #2
Discharge Line TStat 38
Yellow
Bypass Timer 13
SECONDS
Black
Black 9
46
Black
Compressor Contactor 6
Aux.
L1 L2 L3 T1 T2 T3
Move Red Wire to 208V tap for 208V operation
Red
Black
240V 208V COM
Transformer 16
Ground
20
Red
Black
14
Red
Black
Black
Low Pressure Control
Compressor 22
R S C
12 12 12 12
Crankcase Heater
High Speed Solenoid
Brown
Brown
52
53
20
Low Voltage Term. Block 18
45 55
33
41
22
23
Pink
Purple
51
Blue
Blue
C W2 W3 E L DH O1 C G R Y Y1 B W1
12 AWG WIRE COM NC NO HPS 24 VAC
CURRENT TRIP SETPOINT
DELAY ON BREAK
Current Sensor 40
Start Kit (Optional)
RED
Black
Black
C FAN HERM
Dual Can Capacitor 35
45
8 7
Red
Black
Red
Black
Terminal Block 24
Ground Lug 29
L1 L2
Line 1 to power source or optional heater package
Line 2 to power source or optional heater package
Red (Low Spd)
Outdoor Fan Motor (see chart)
Black (High Spd)
Yellow
Brown
Standard Diagram
230/208-60-1 Power Source
Line 1
Ground
5 Pin Plug for Indoor Blower Motor
Line 2
Terminal Block
Terminal Block
Start Kit (Opt.)
Compressor
Compressor Contactor
Compressor Contactor
Dual Can Capacitor
Bypass Relay
Defrost Control DFC-3
Outdoor Fan Motor
Low Ambient Control
Crankcase Heater
Compressor Contactor Aux.
240 208
Use for 208V Operation
Transformer
COM
24VAC
Low Voltage Term. Block
Low Pressure Bypass
Low Pressure Control
High Pressure Control #1
Defrost Control
LOR-1
Lockout Relay Control
Disch. Line Tstat
Compressor Contactor
Defrost Sensor
SENSOR
LOR-2
LAB
DFC-1 DFC-2
Reversing Valve
Current Sensor
HPS
High Speed Solenoid
High Pressure Control #2
6 Pin Plug for Heater Package
16 Pin Plug for Indoor Blower Motor
Ladder Diagram
A Wires Connect if Option Not Used
99 Wire Identification numbers for Bard use only.
Factory Field Optional
High Voltage
Low Voltage
WARNING
USE COPPER CONDUCTORS ONLY SUITABLE FOR AT LEAST 75° C.
DANGER
*ELECTRICAL SHOCK HAZARD
*DISCONNECT POWER BEFORE SERVICING.
Bard Mfg. Co. Bryan, Ohio
4096-133 B