WIRING DIAGRAMS

NOTE: Read the entire instruction manual before starting the installation

.

FIG.	FIELD-INSTALLED HEATER MODEL	FB4C/ PF4MNP	FE4A/ FE5A	FH4C	FV4C	FX4D	FY5B	FZ4A	PF4MA	PF4MB	LABEL
Fig. 1	KFCEH0401N03B	18,24	x	001	x	19,25	18,24	24	18,19,24,25	x	344631-101
Fig. 1	KFCEH0501N05B	18-60	002-006	001-002	002-006	19-61	18-60	24-61	18-61	19-61	344631-101
Fig. 2	KFCEH0801N08B	18-60	002-006	001-003	002-006	19-61	18-60	24-61	18-61	19-61	344599-101
Fig. 2	KFCEH0901N10B	18-60	002-006	001-004	002-006	19-61	18-60	24-61	18-61	19-61	344599-101
Fig. 6	KFCEH1601315B	42-60	002-006	001-004	002-006	43-61	18-60	48-61	18-61	19-61	344635-101
Fig. 7	KFCEH2001318B	42-60	003-006	001-004	002-006	43-61	42-60	48-61	42-61	37-61	344654-101
Fig. 1	KFCEH2401C05B	18-60	002-006	001-002	002-006	19-61	18-60	24-61	18-61	19-61	344631-101
Fig. 2	KFCEH2501C08B	18-60	002-006	001-003	002-006	19-61	18-60	24-61	18-61	19-61	344599-101
Fig. 2	KFCEH2601C10B	18-60	002-006	001-004	002-006	19-61	18-60	24-61	18-61	19-61	344599-101
Fig. 3	KFCEH2901N09B	36-60	002-006	003-004	002-006	37-61	36-60	36-61	36-60	31-61	344634-101
Fig. 4	KFCEH3001F15B	24-60	002-006	001-004	002-006	25-61	24-60	24-61	24-61	19-61	344597-101
Fig. 4	KFCEH3101C15B	24-60	002-006	001-004	002-006	25-61	24-60	24-61	24-61	19-61	344597-101
Fig. 5	KFCEH3201F20B	30-60	002-006	002-004	002-006	31-61	30-60	36-61	30-61	19-61	345611-101
Fig. 5	KFCEH3301C20B	30-60	002-006	002-004	002-006	31-61	30-60	36-61	30-61	19-61	345611-101
Fig. 8 Fig. 9	KFCEH3401F24B	48,60	004-006	003-004	005-006	49-61	48-60	48-61	48-61	49-61	345655-101 345656-101
Fig. 8 Fig. 9	KFCEH3501F30B	48,60	004-006	003-004	005-006	49-61	48-60	48-61	48-61	49-61	345655-101 345656-101

FAN COIL WITH RBC X-13 MOTOR OR BROAD OCEAN DIGI MOTOR

FIG.	FACTORY-INSTALLED HEATER MODEL	FB4C	FX4D	FZ4A	LABEL
Fig. 11	MKFCEH0501N05B	18,24	19,25	--	344637-101
Fig. 10	MKFCEH0801N08B	18,30	31	--	344624-101
Fig. 10	MKFCEH0901N10B	24-48	37-61	--	
Fig. 12	MKFCEH1501F15B	36-60	61	--	344623-101
Fig. 32	MKFCEH0501N05B	--	--	24	344771-101
Fig. 30	MKFCEH0801N08B	--	--	36,48	344772-101
	MKFCEH0901N10B	--	--		
Fig. 31	MKFCEH1501F15B	--	--	60,61	344773-101

FAN COIL WITH COOLING ONLY CONTROL

FIG.	MODEL	SIZE	LABEL
Fig. 13	FV4C	002-006	326014-101
Fig. 14	FE4A / FE5A	002-006	333107-101
Fig. 15	FY5B / PF4MNA	18-60	328964-101
Fig. 15	FH4C	001-004	328964-101
Fig. 16	FB4C / FX4D / PF4MNP (RBC)	18-61	336228-101
Fig. 16	PF4MNA/B	19,25,31,37,43,49,61	336228-101
Fig. 17	FB4C / FX4D / PF4MNP (BOM)	18-61	337519-101
Fig. 33	FZ4A	24-61	342415-101

50 HZ EXPORT FAN COILS

FIG.	MODEL	SIZE	LABEL
Fig. 34	FB4(C/Q)SL (Regal Beloit motor)	018-060	336228-101
Fig. 35	FB4(C/Q)SL (Broad Ocean motor)	018-060	337519-101

ELECTRIC HEATERS

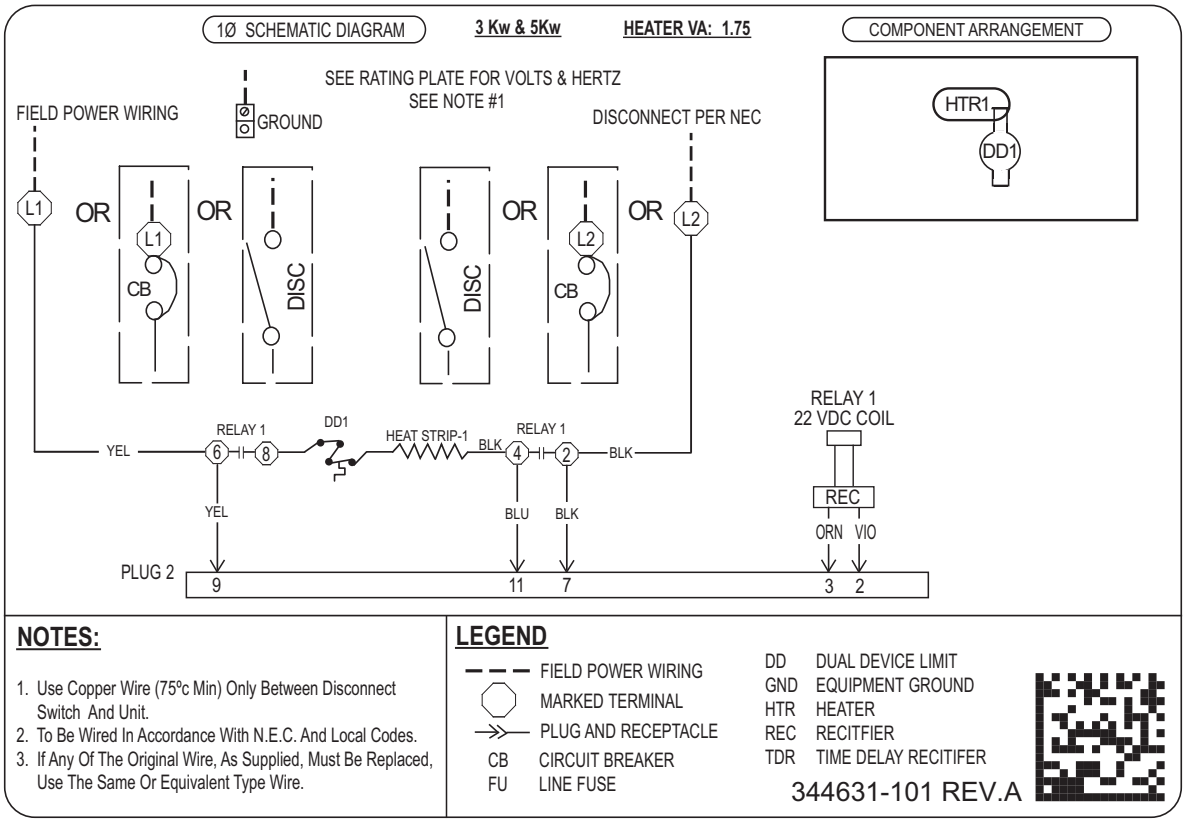
FIG.	HEATER MODEL	FF1E	LABEL
Fig. 18	KFDEH0801D05A	18,24,30,36	341080-101
Fig. 19	KFDEH0901D75A	18,24,30,36	341081-101
Fig. 19	KFDEH1001D11A	18,24,30,36	341081-101
Fig. 20	KFEEH0101D05A	19,25,31,37	341082-101
Fig. 21	KFEEH0201D75A	19,25,31,37	341083-101
Fig. 21	KFEEH0301D11A	19,25,31,37	341083-101

FIG.	HEATER MODEL	CONTROL TYPE	FFMA / FMA4	LABEL
Fig. 22	EHK2-05B	Sequencer - HS	18,24,30,36 Prior to serial number date code 1715V.	202070290385
Fig. 22	EHK2-08B	Sequencer - HS	18,24,30,36 Prior to serial number date code 1715V.	202070290385
Fig. 22	EHK2-10B	Sequencer - HS	18,24,30,36 Prior to serial number date code 1715V.	202070290385
Fig. 23			18-37 Serial number date code 1715V and later.	2020702A717
Fig. 24	EHK205B	Relay - HR	18-37	06-7094-07
Fig. 24	EHK208B	Relay - HR	18-37	06-7094-07
Fig. 24	EHK210B	Relay - HR	18-37	06-7094-07

FIG.	FFMA	LABEL
Fig. 25	19,31	--
Fig. 26	25,37	--

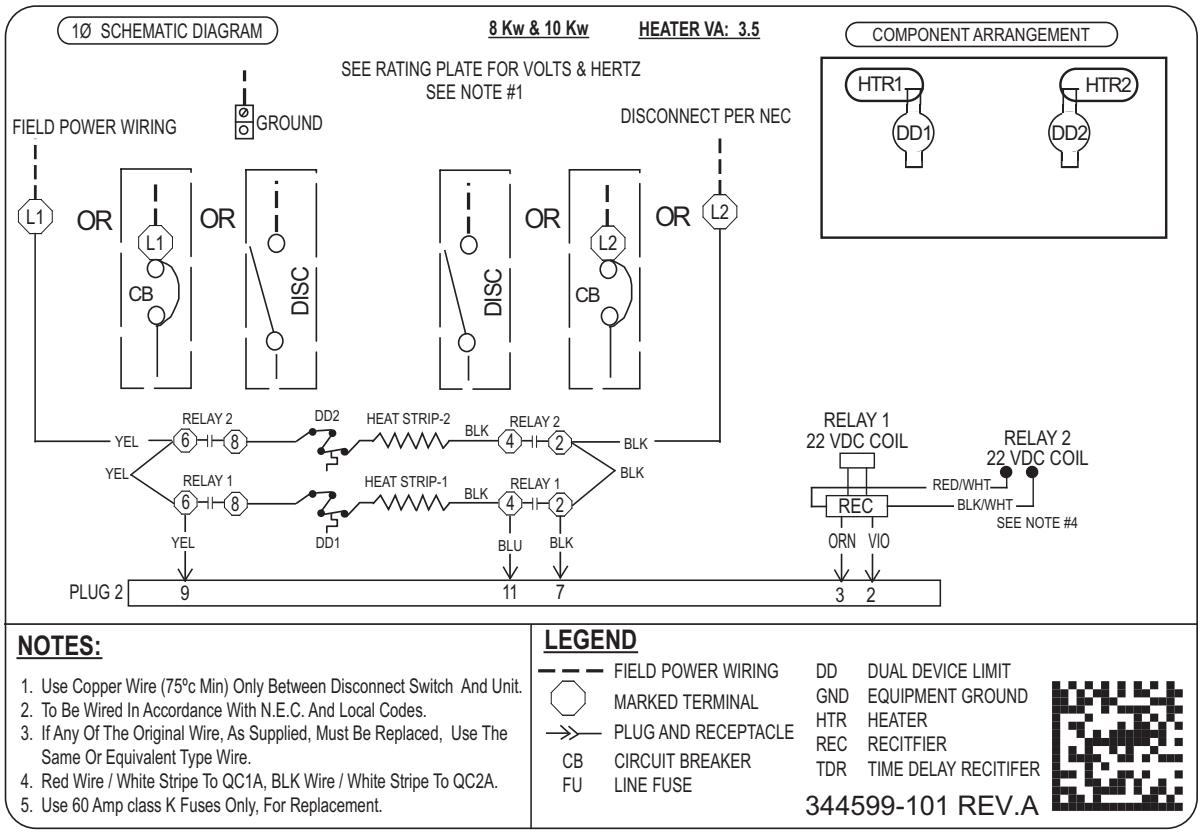
FIG.	FPM(A,B)N(C,U)	LABEL
Fig. 27	ALL with Time Delay Relay	202070290388 Valid for models FPM(A,B)N(C,U)0**000AAAA
Fig. 28	ALL with Time Delay Board	2020702A1716 Valid for models FPM(A,B)N(C,U)T00ACAA

FIG.	HEATER MODEL	FPMAN(C,U)	FPMBN(C,U)	FMC4 / FMU4	LABEL
Fig. 29	EHK305B	18-36	18-30	18-36	06-7094-04
Fig. 29	EHK308B	18-36	18-30	18-36	06-7094-04
Fig. 29	EHK310B	18-36	18-30	18-36	06-7094-04



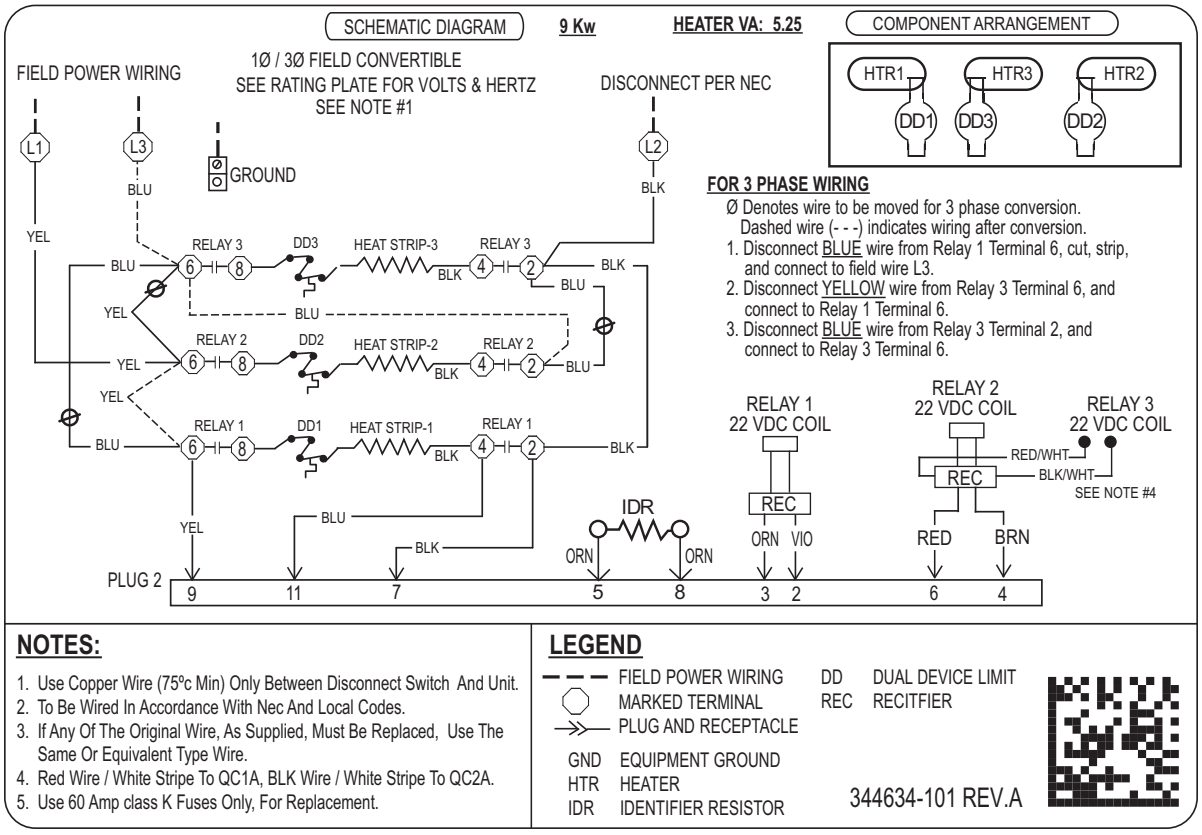
A190003

Fig. 1 – Heaters KFCEH0401N03B / KFCEH0501N05B / KFCEH2401C05B



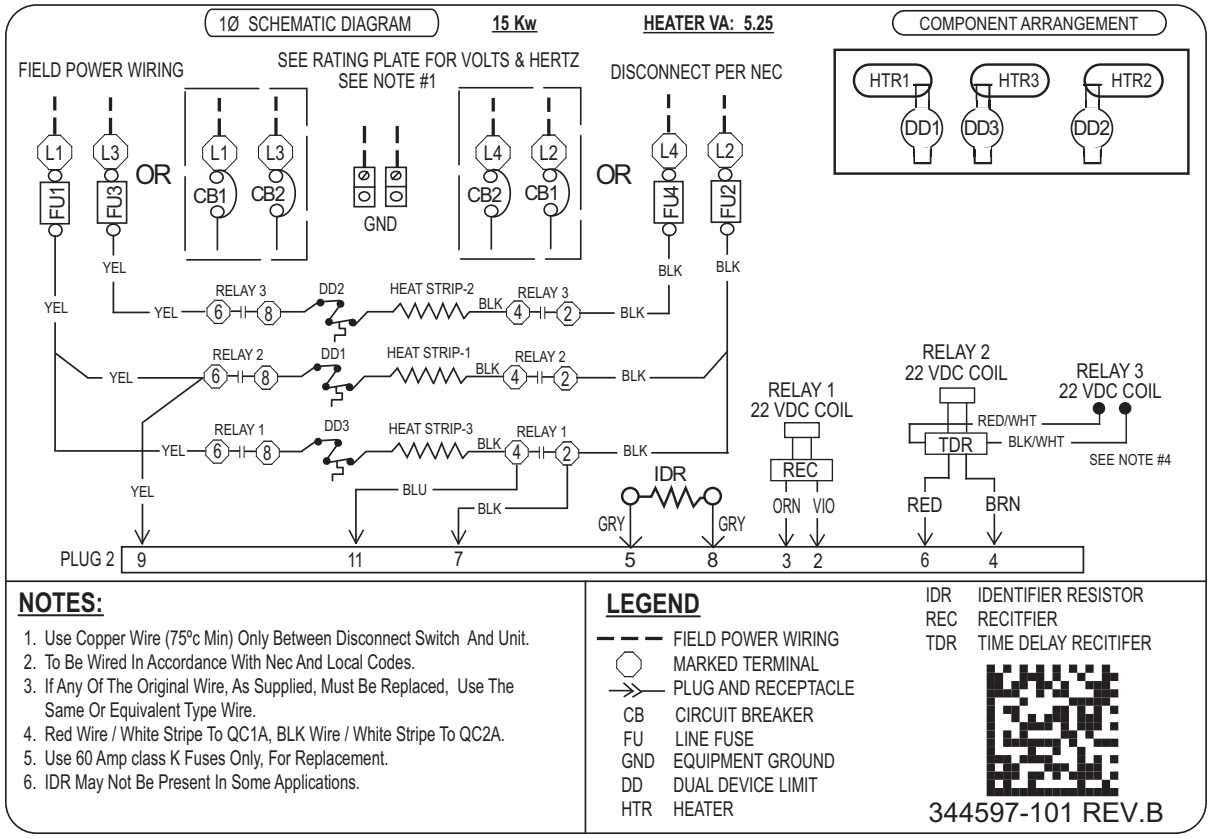
A190004

Fig. 2 – Heaters KFCEH0801N08B / KFCEH0901N10B / KFCEH2501C08B / KFCEH2601C10B



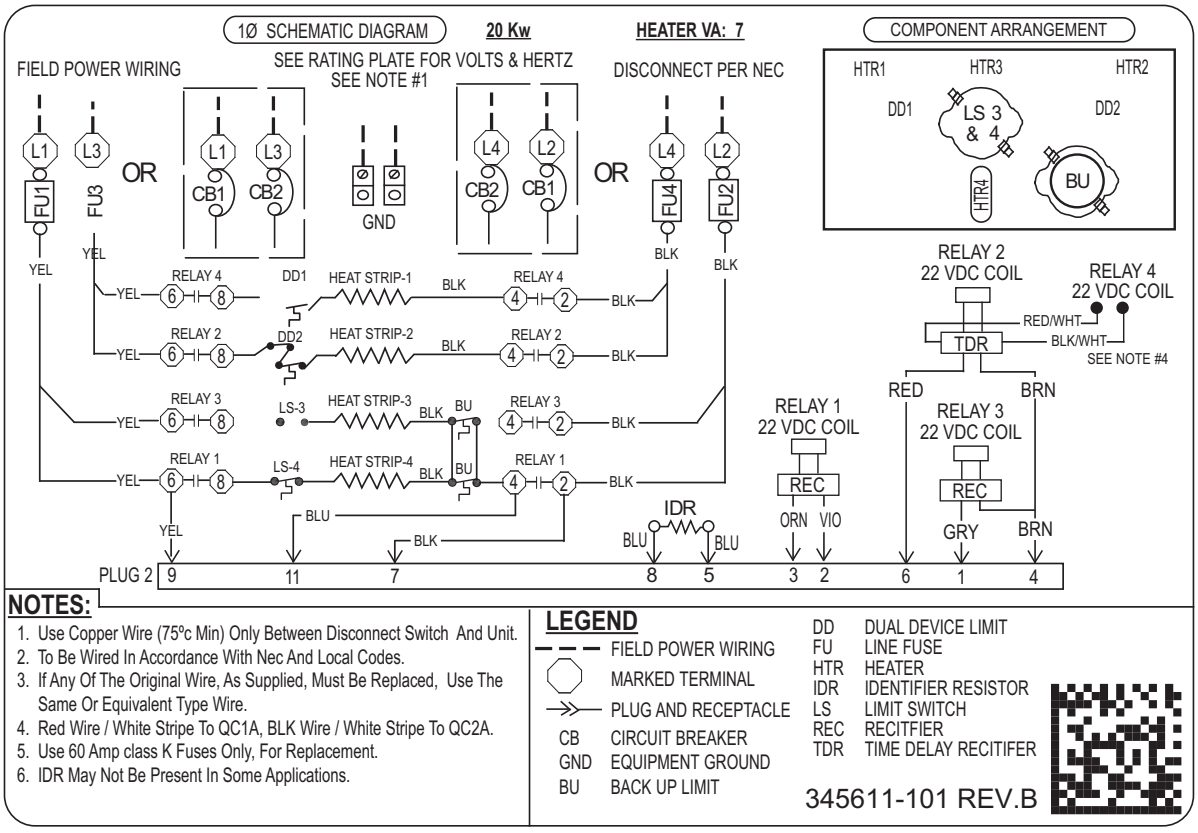
A190005

Fig. 3 – Heater KFCEH2901N09B



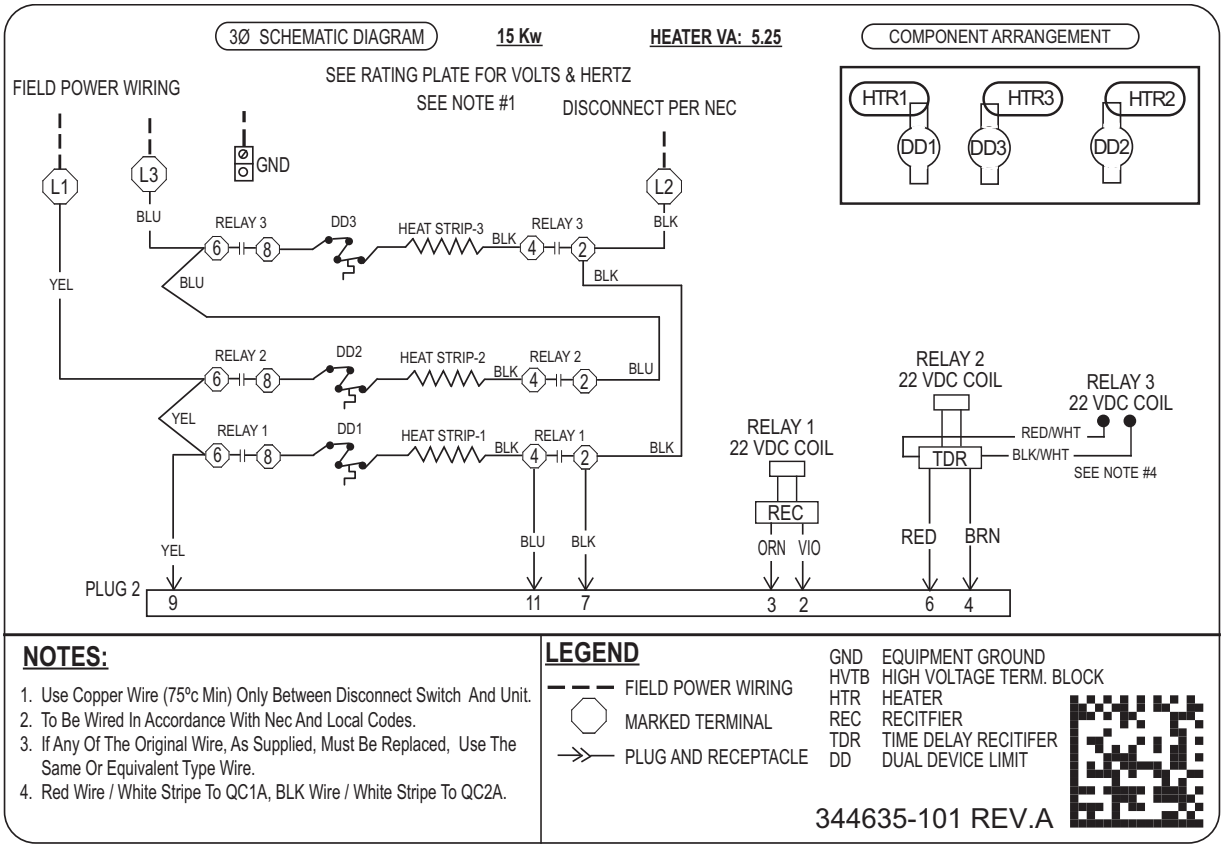
A200124

Fig. 4 – Heaters KFCEH3001F15B / FCEH3101C15B



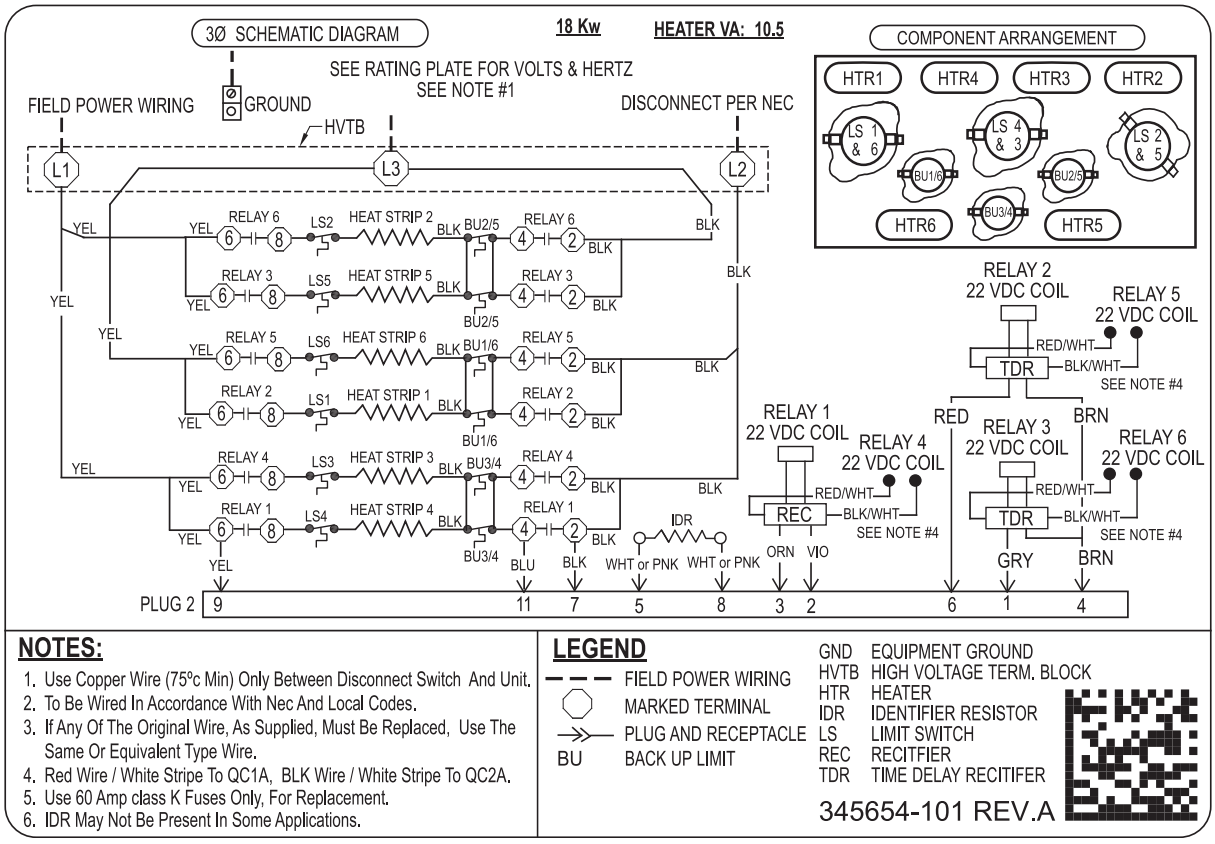
A200061

Fig. 5 – Heaters KFCEH3201F20B / KFCEH3301C20B



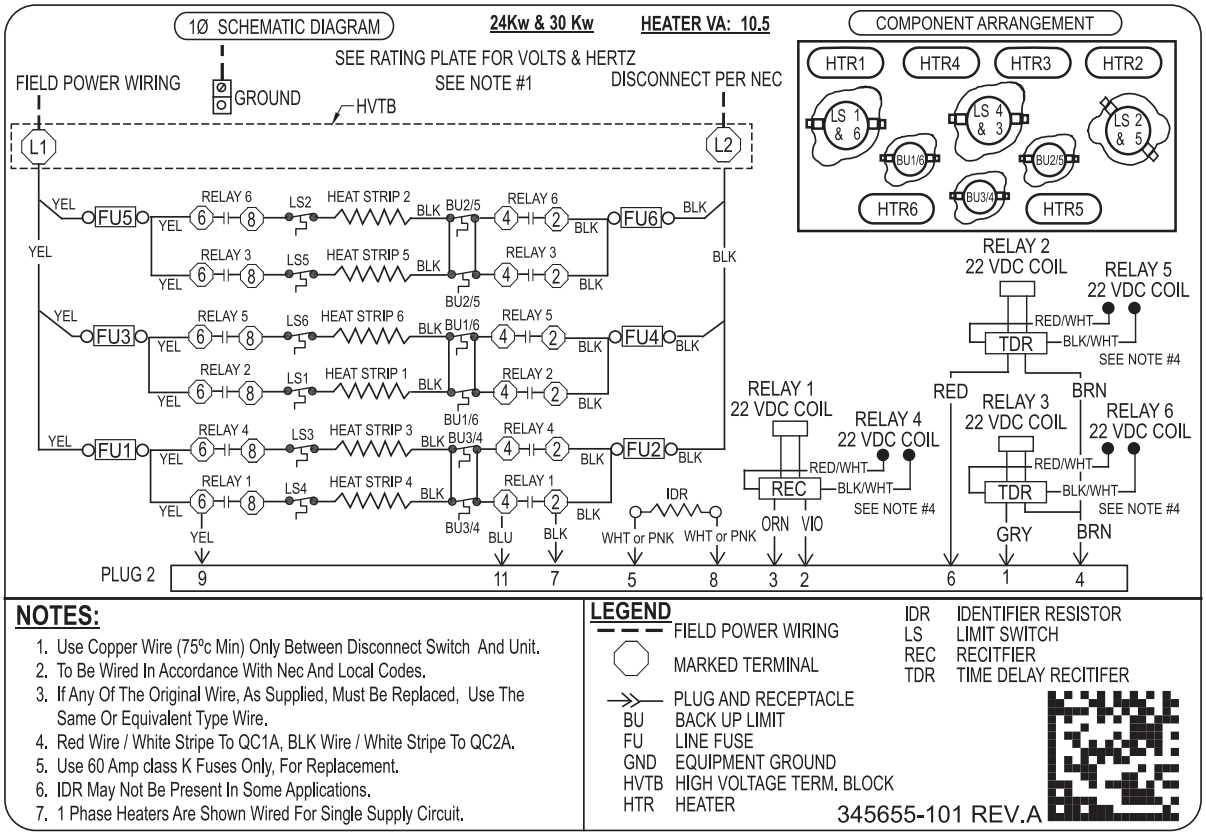
A190008

Fig. 6 – Heater KFCEH1601315B



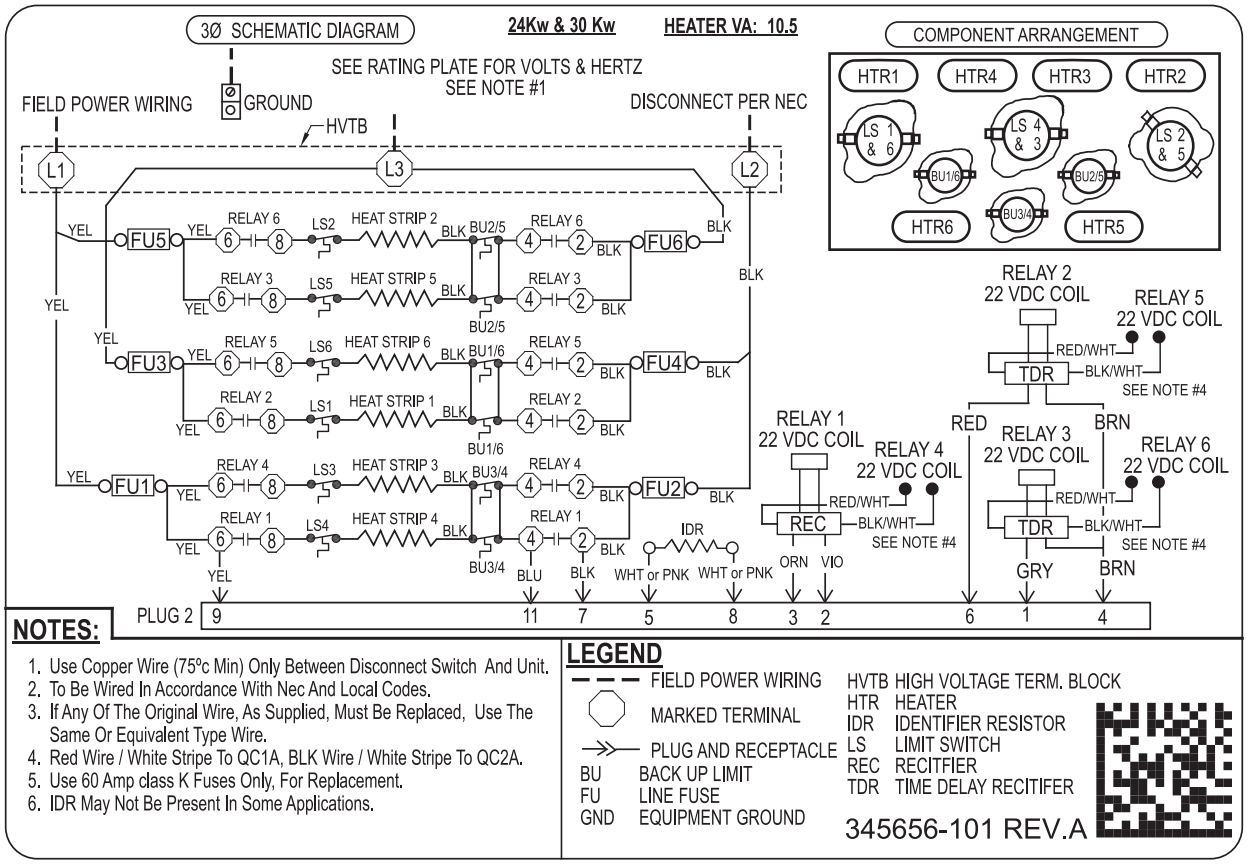
A200060

Fig. 7 – Heater KFCEH2001318B



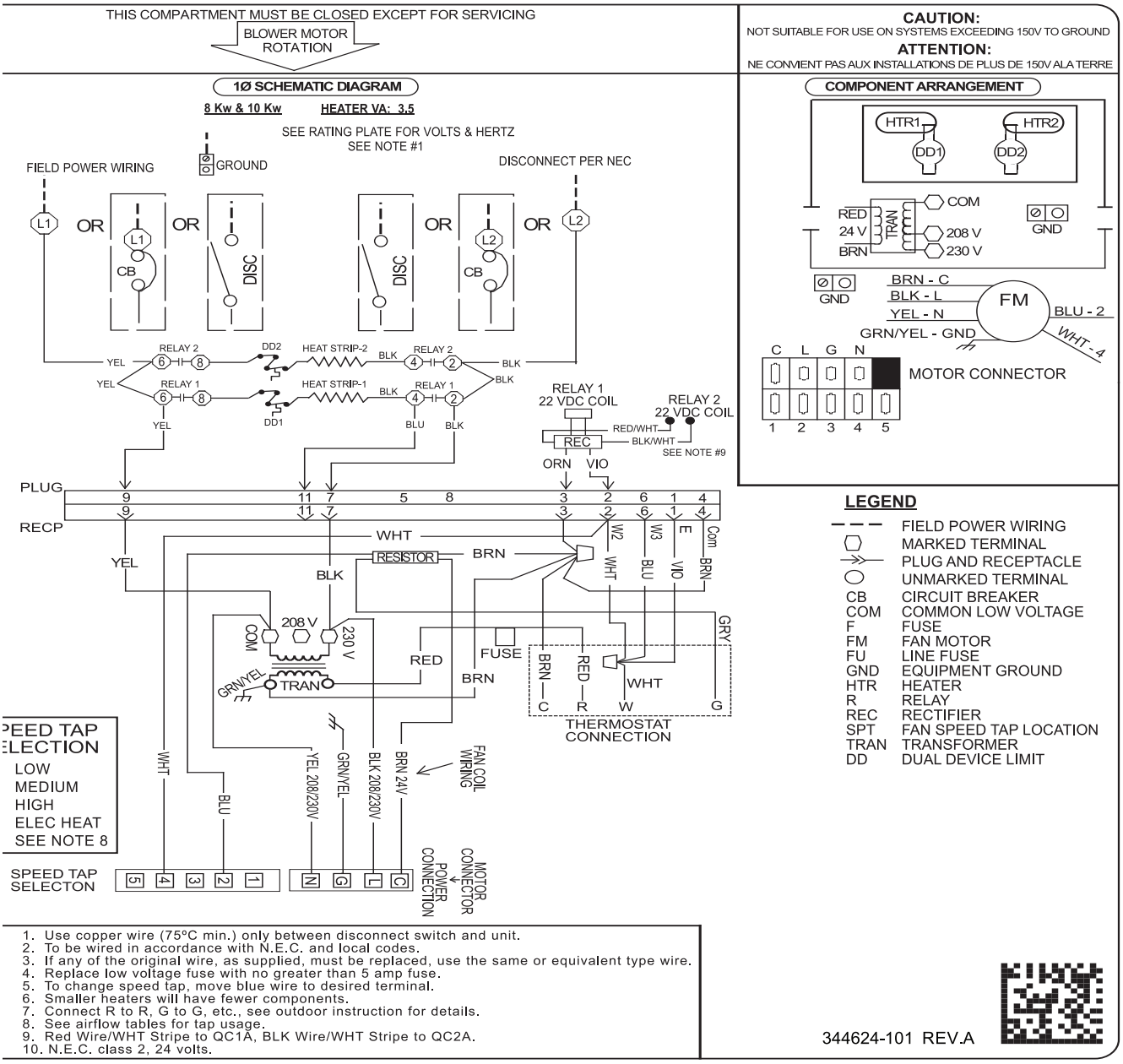
A200062

Fig. 8 – Heaters KFCEH3401F24B / KFCEH3501F30B (single phase)



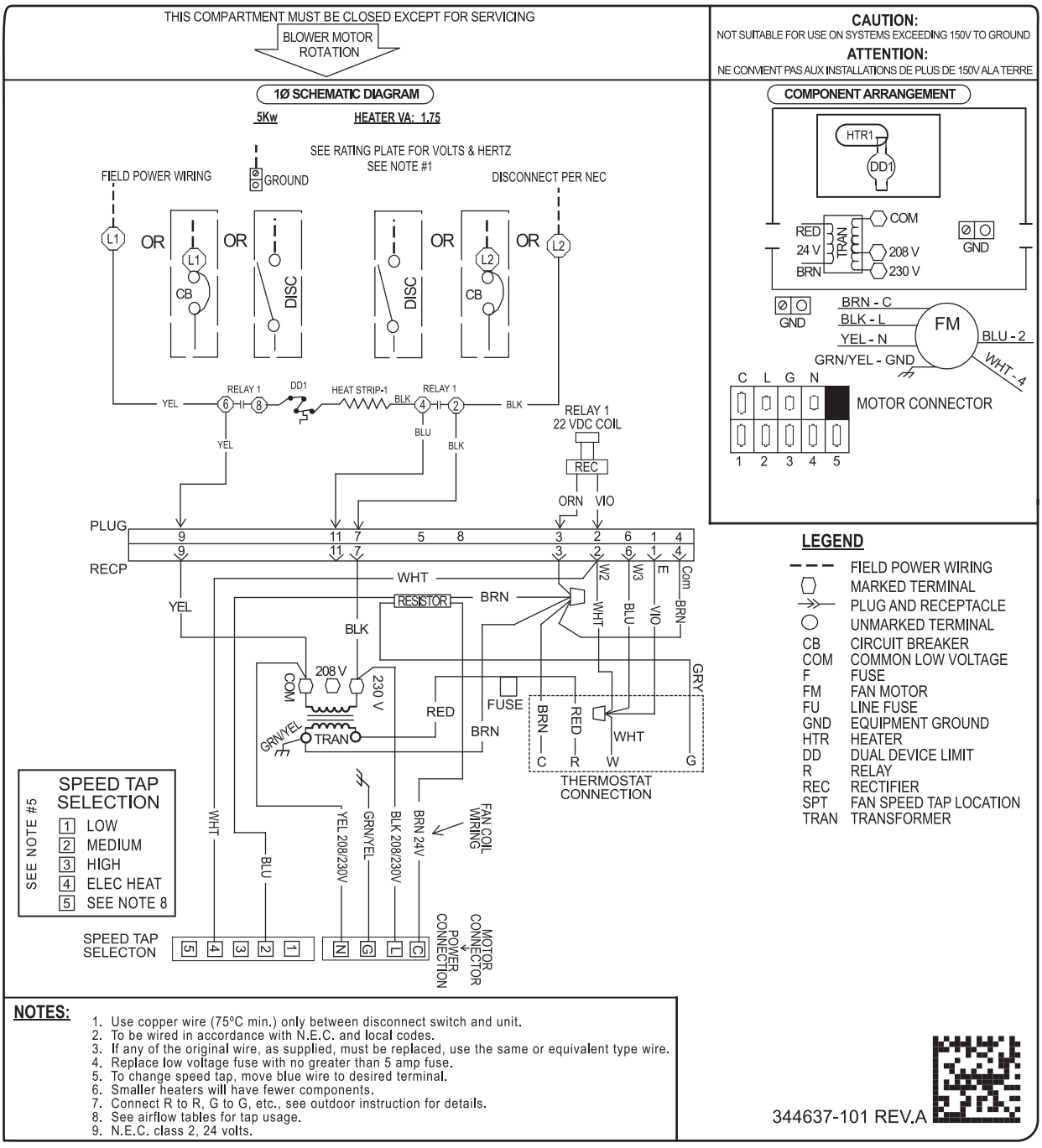
A200063

Fig. 9 – Heaters KFCEH3401F24B / KFCEH3501F30B (three phase)



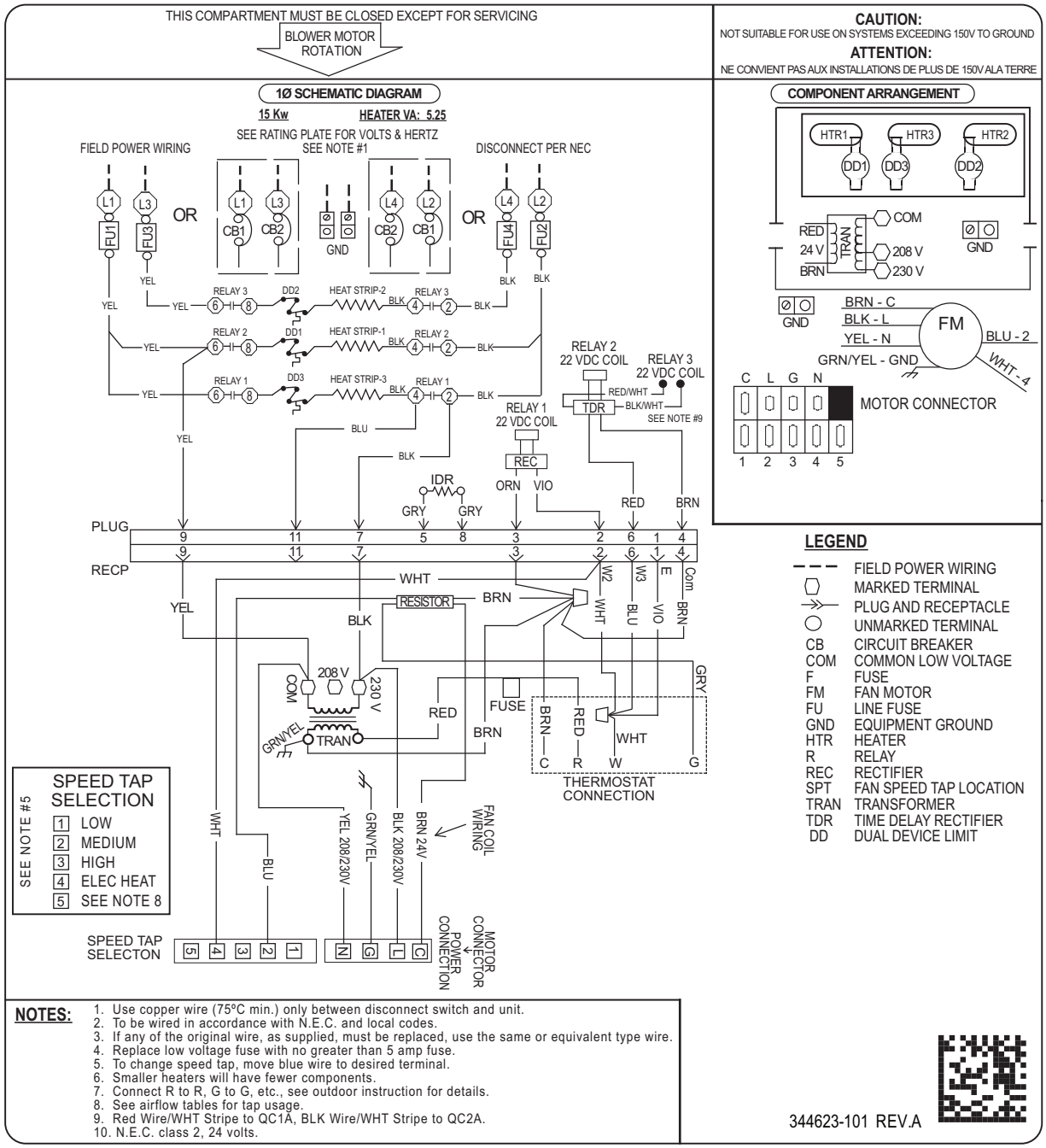
A190013

Fig. 10 – FB4C, FX4D - Heaters MKFCEH0801N08B / MKFCEH0901N10B



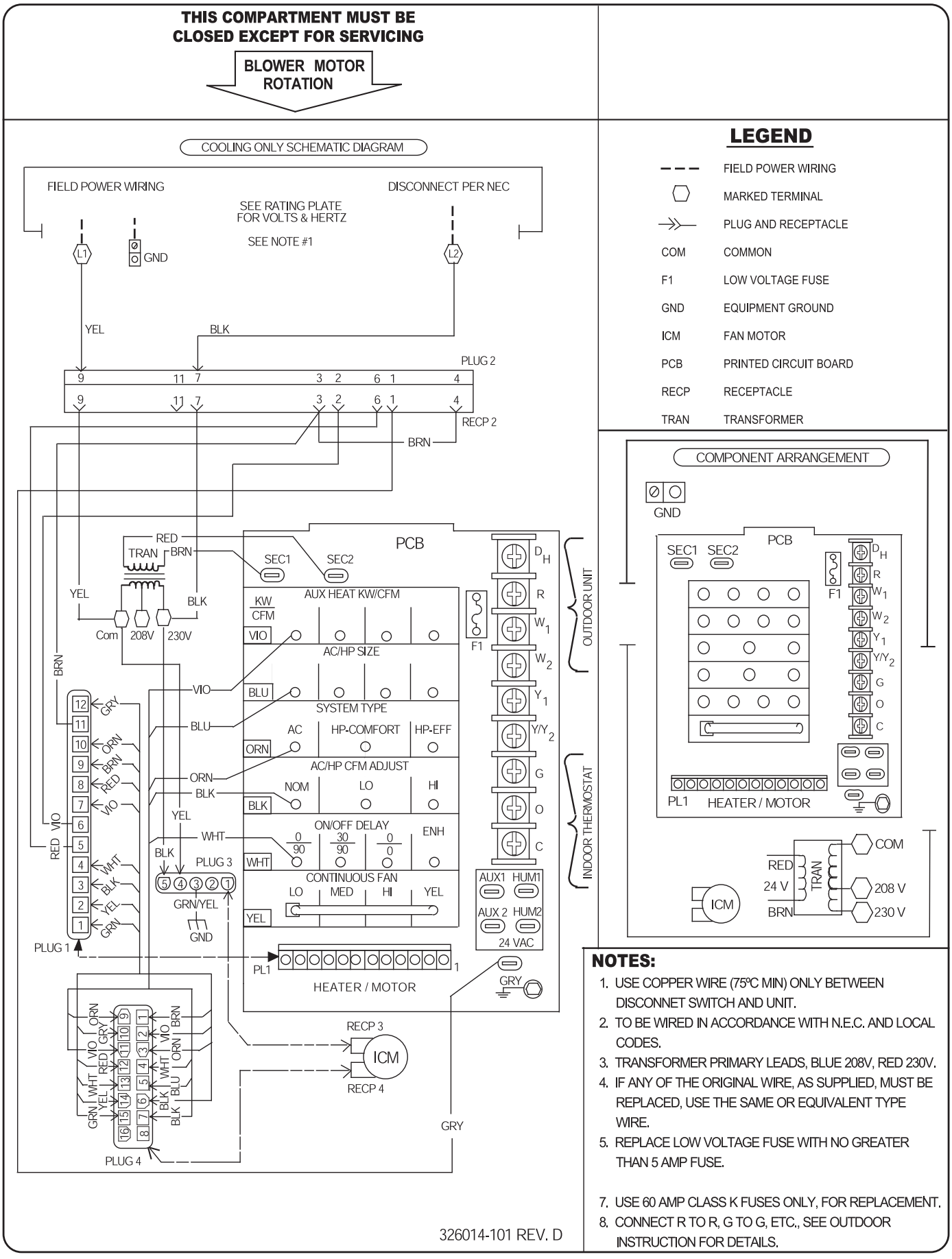
A190015

Fig. 11 – FB4C, FX4D - Heater MKFCEH0501N05B



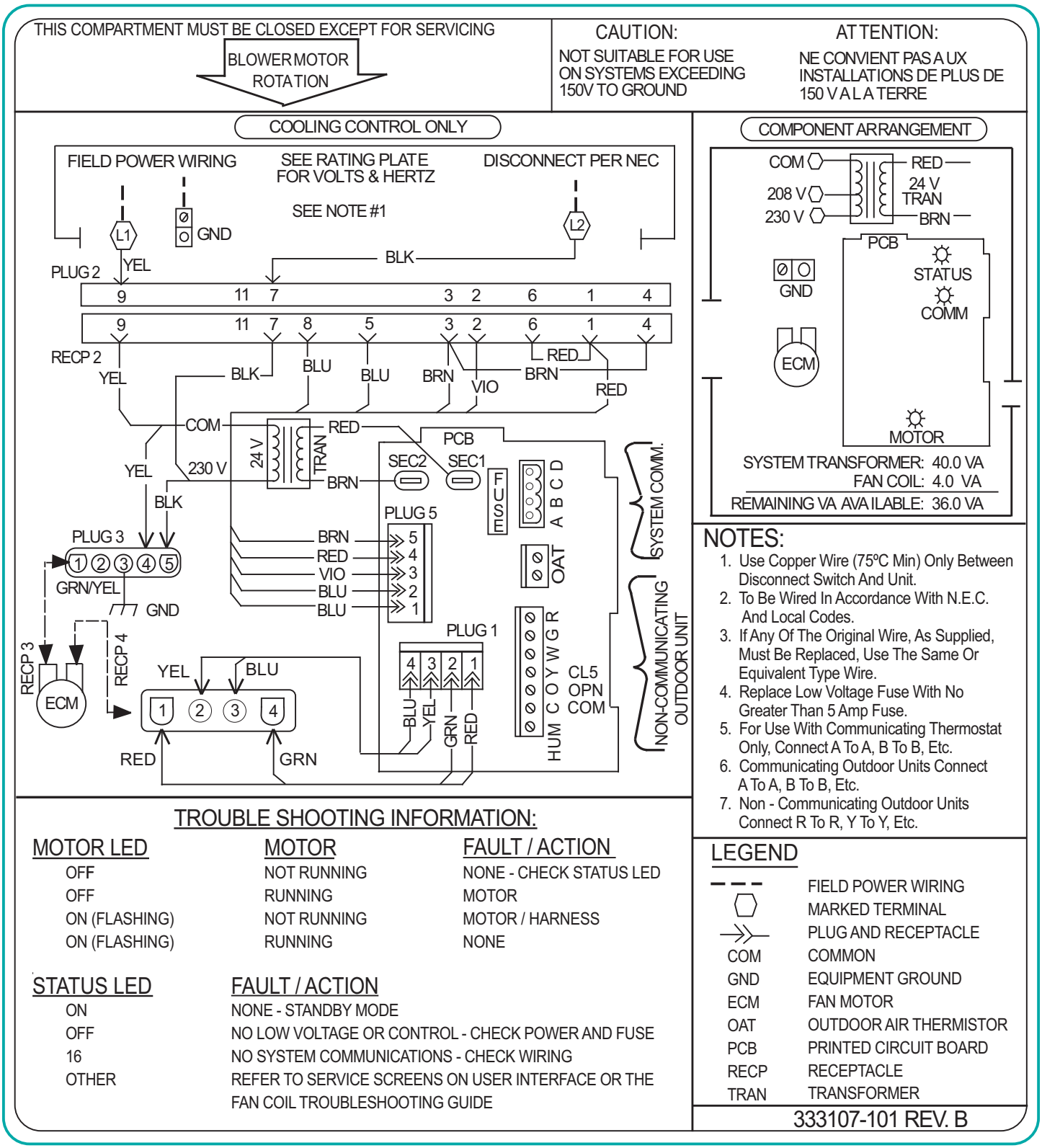
A190012

Fig. 12 – FB4C, FX4D - Heater MKFCEH1501F15B


THIS COMPARTMENT MUST BE
CLOSED EXCEPT FOR SERVICING
BLOWER MOTOR
ROTATION
COOLING ONLY SCHEMATIC DIAGRAM
FIELD POWER WIRING
DISCONNECT PER NEC
SEE RATING PLATE
FOR VOLTS & HERTZ
SEE NOTE #1
L1
GND
L2
YEL
BLK
PLUG 2
RECP 2
BRN
RED
TRAN
BRN
PCB
SEC1
SEC2
AUX HEAT KW/CFM
KW
CFM
VIO
AC/HP SIZE
BLU
SYSTEM TYPE
AC
HP-COMFORT
HP-EFF
ORN
AC/HP CFM ADJUST
NOM
LO
HI
BLK
ON/OFF DELAY
ENH
WHT
CONTINUOUS FAN
LO
MED
HI
YEL
F1
D H
R
W1
W2
Y1
Y/Y2
G
O
C
OUTDOOR UNIT
INDOOR THERMOSTAT
AUX1
HUM1
AUX 2
HUM2
24 VAC
Com
208V
230V
PLUG 1
PLUG 3
GRN/YEL
GND
PL1
HEATER / MOTOR
GRY
RECP 3
ICM
RECP 4
PLUG 4
326014-101 REV. D
LEGEND
FIELD POWER WIRING
MARKED TERMINAL
PLUG AND RECEPTACLE
COM COMMON
F1 LOW VOLTAGE FUSE
GND EQUIPMENT GROUND
ICM FAN MOTOR
PCB PRINTED CIRCUIT BOARD
RECP RECEPTACLE
TRAN TRANSFORMER
COMPONENT ARRANGEMENT
GND
PCB
SEC1
SEC2
F1
PL1
HEATER / MOTOR
ICM
RED
24 V
BRN
TRAN
COM
208 V
230 V
NOTES:
1. USE COPPER WIRE (75ºC MIN) ONLY BETWEEN DISCONNET SWITCH AND UNIT.
2. TO BE WIRED IN ACCORDANCE WITH N.E.C. AND LOCAL CODES.
3. TRANSFORMER PRIMARY LEADS, BLUE 208V, RED 230V.
4. IF ANY OF THE ORIGINAL WIRE, AS SUPPLIED, MUST BE REPLACED, USE THE SAME OR EQUIVALENT TYPE WIRE.
5. REPLACE LOW VOLTAGE FUSE WITH NO GREATER THAN 5 AMP FUSE.
7. USE 60 AMP CLASS K FUSES ONLY, FOR REPLACEMENT.
8. CONNECT R TO R, G TO G, ETC., SEE OUTDOOR INSTRUCTION FOR DETAILS.

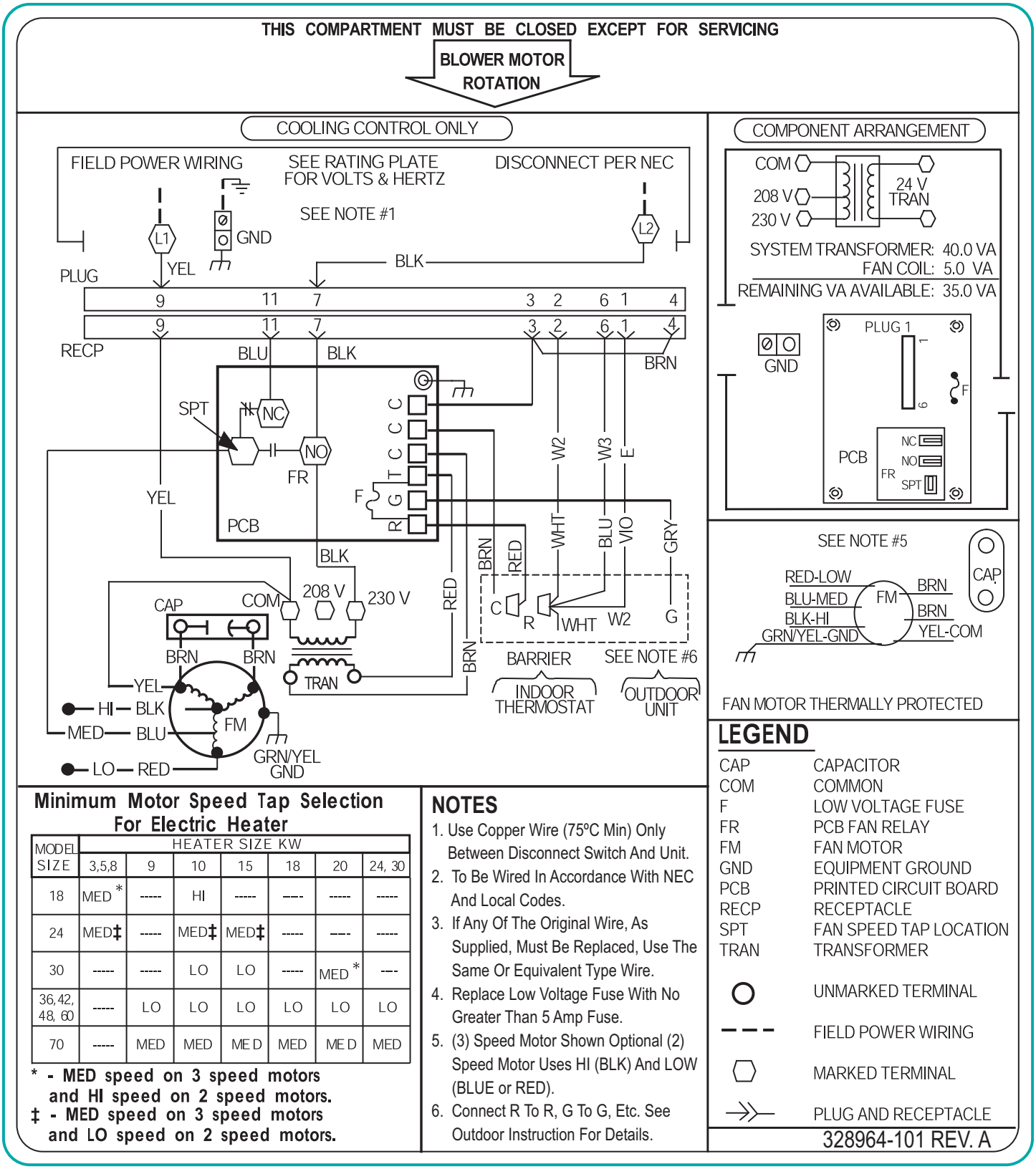
a07029

Fig. 13 – FV4C with Cooling Only Control



A12363

Fig. 14 – FE4A / FE5A with Cooling Only Control



Minimum Motor Speed Tap Selection For Electric Heater

MODEL SIZE	HEATER SIZE KW						
	3,5,8	9	10	15	18	20	24, 30
18	MED *	-----	HI	-----	----	-----	-----
24	MED‡	-----	MED‡	MED‡	-----	----	-----
30	-----	-----	LO	LO	-----	MED *	---
36,42, 48, 60	-----	LO	LO	LO	LO	LO	LO
70	-----	MED	MED	MED	MED	MED	MED

*** - MED speed on 3 speed motors and HI speed on 2 speed motors.**
‡ - MED speed on 3 speed motors and LO speed on 2 speed motors.

NOTES

1. Use Copper Wire (75ºC Min) Only Between Disconnect Switch And Unit.
2. To Be Wired In Accordance With NEC And Local Codes.
3. If Any Of The Original Wire, As Supplied, Must Be Replaced, Use The Same Or Equivalent Type Wire.
4. Replace Low Voltage Fuse With No Greater Than 5 Amp Fuse.
5. (3) Speed Motor Shown Optional (2) Speed Motor Uses HI (BLK) And LOW (BLUE or RED).
6. Connect R To R, G To G, Etc. See Outdoor Instruction For Details.

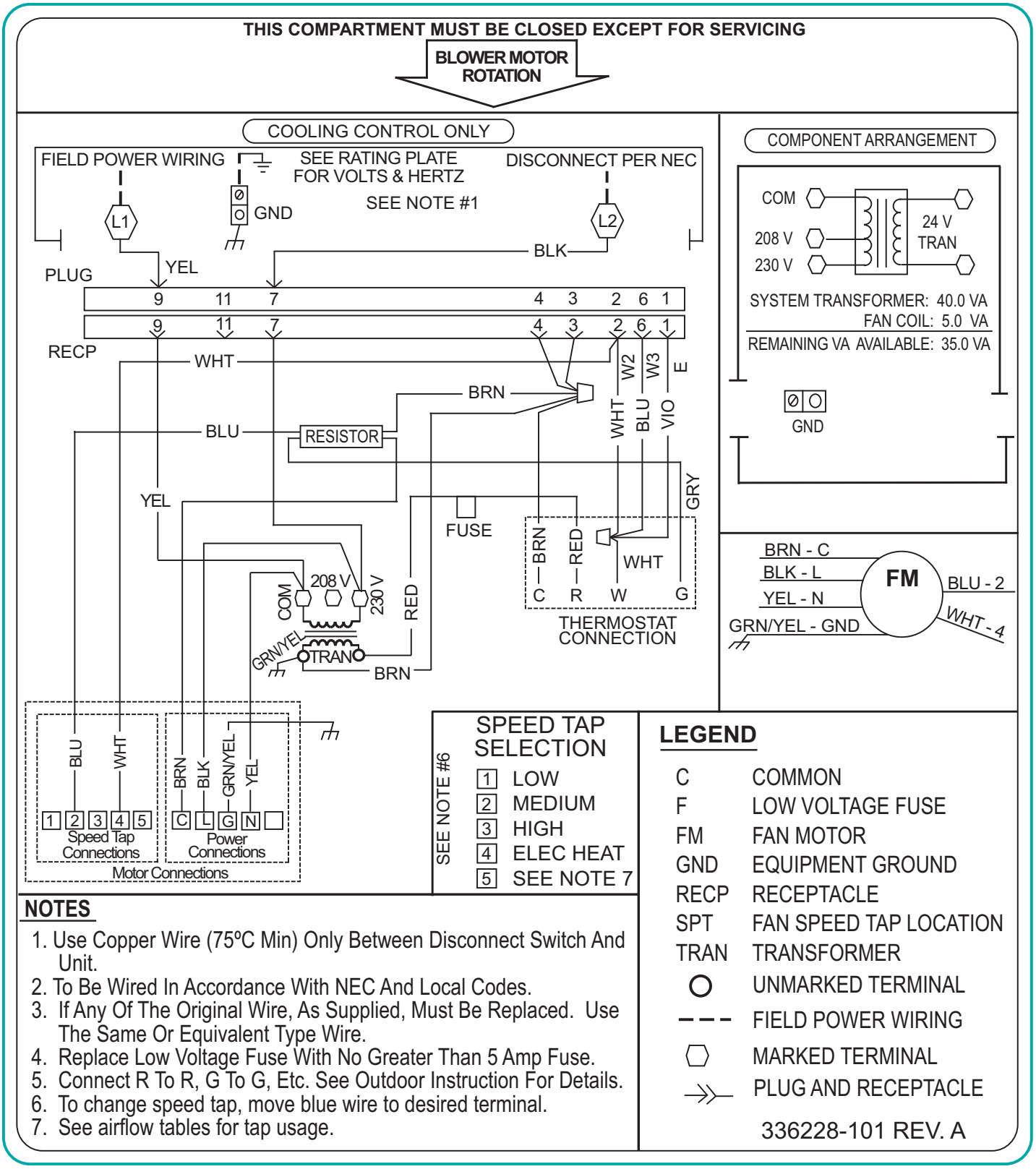
LEGEND

CAP	CAPACITOR
COM	COMMON
F	LOW VOLTAGE FUSE
FR	PCB FAN RELAY
FM	FAN MOTOR
GND	EQUIPMENT GROUND
PCB	PRINTED CIRCUIT BOARD
RECP	RECEPTACLE
SPT	FAN SPEED TAP LOCATION
TRAN	TRANSFORMER
○	UNMARKED TERMINAL
- - -	FIELD POWER WIRING
⬡	MARKED TERMINAL
⟩⟩—	PLUG AND RECEPTACLE

328964-101 REV. A

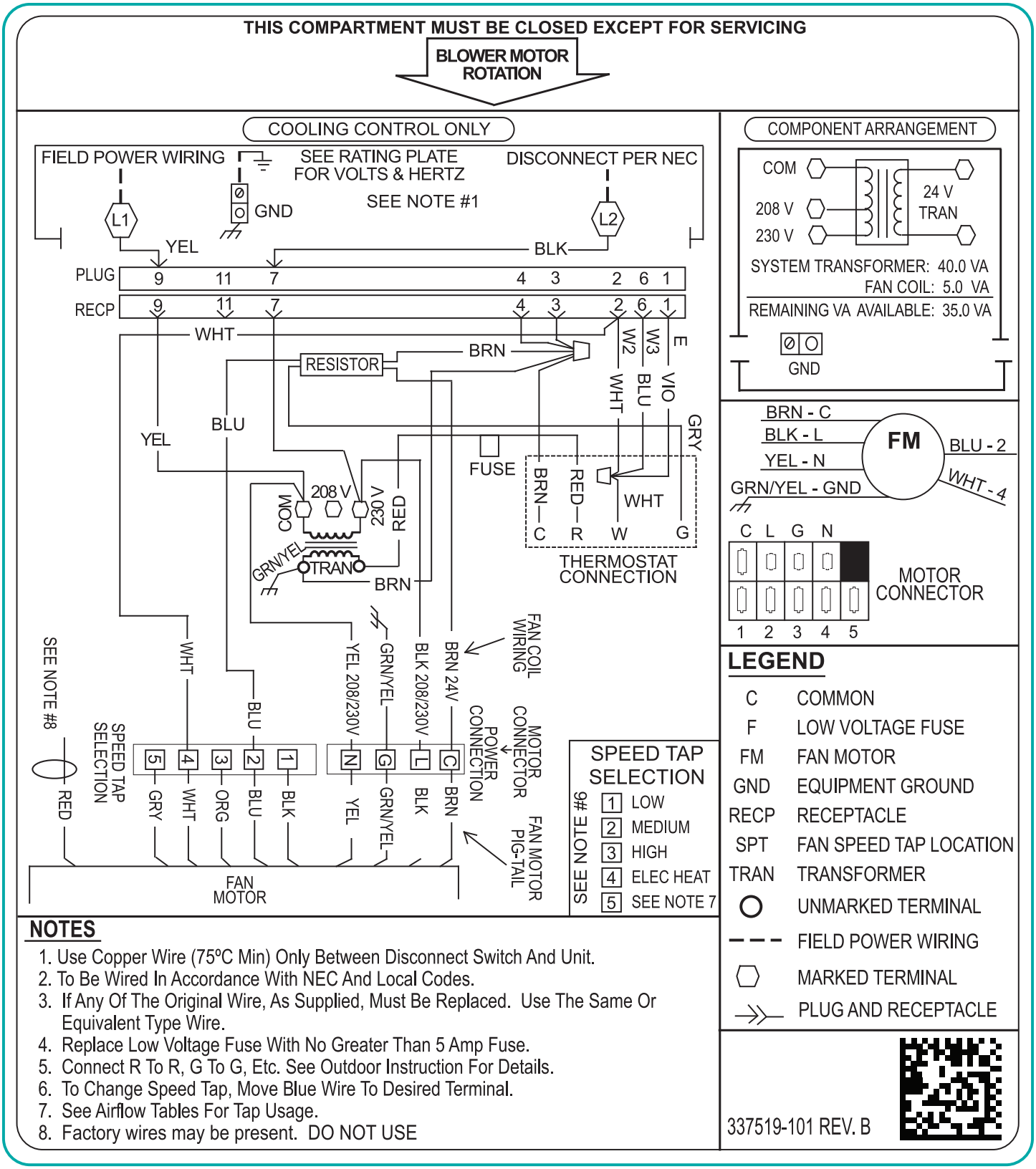
a07027

Fig. 15 – FH4C / FY5B / PF4MNA with Cooling Only Control



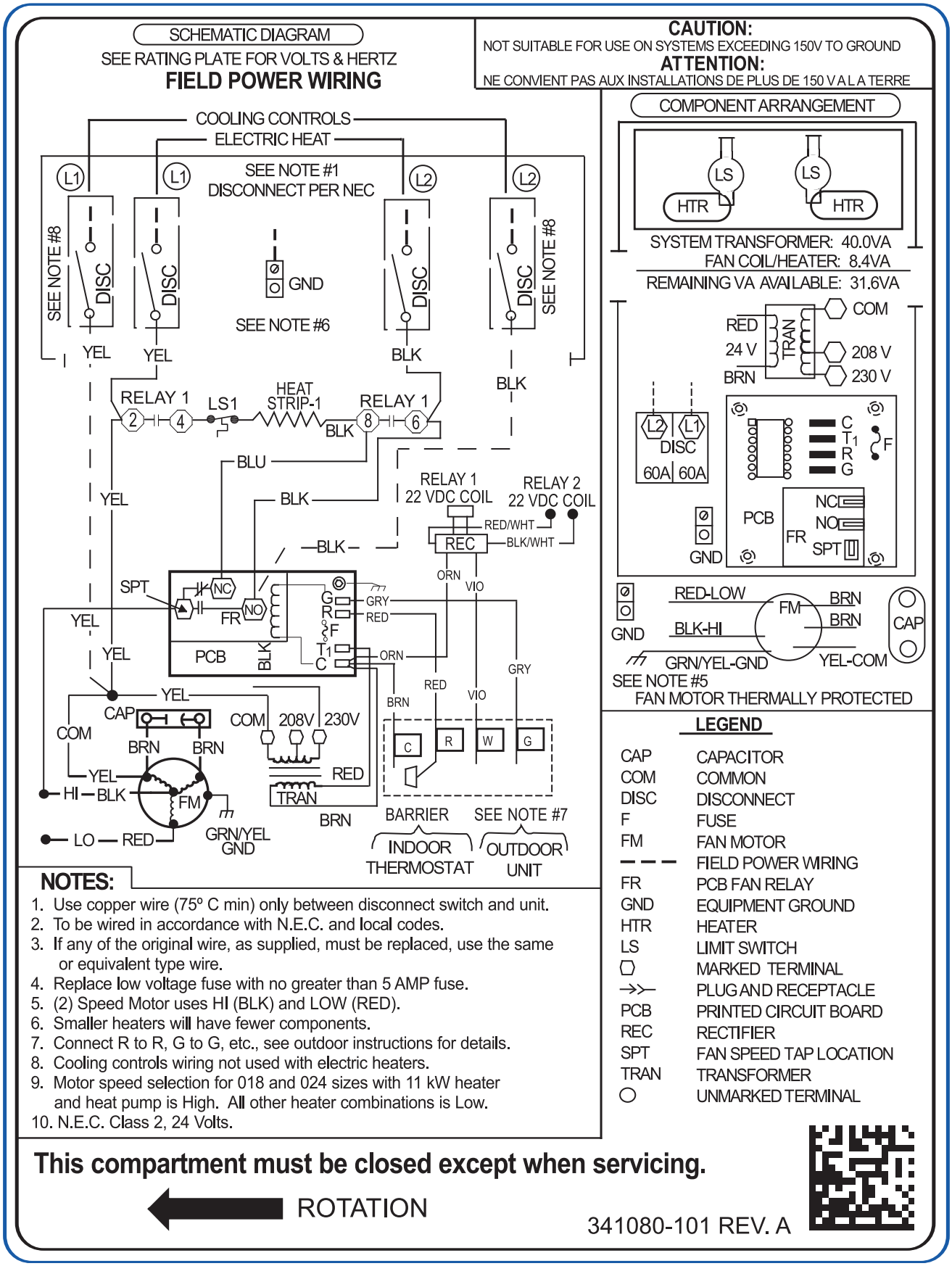
A12364

Fig. 16 – FB4C / FX4D / PF4MNP (RBC) / PF4MNA/B with Cooling Only Control



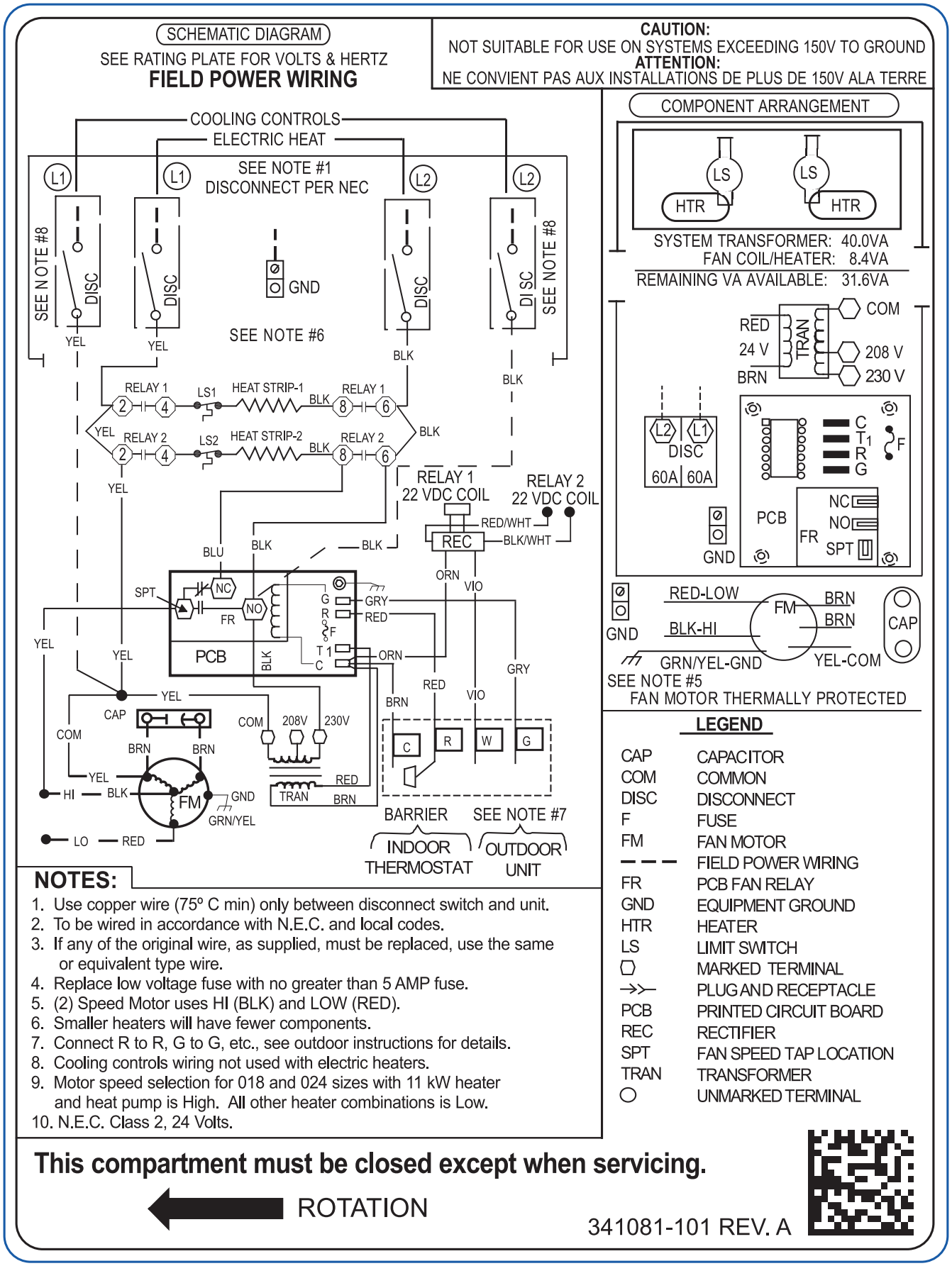
A12365

Fig. 17 – FB4C / FX4D / PF4MNP (BOM) with Cooling Only Control



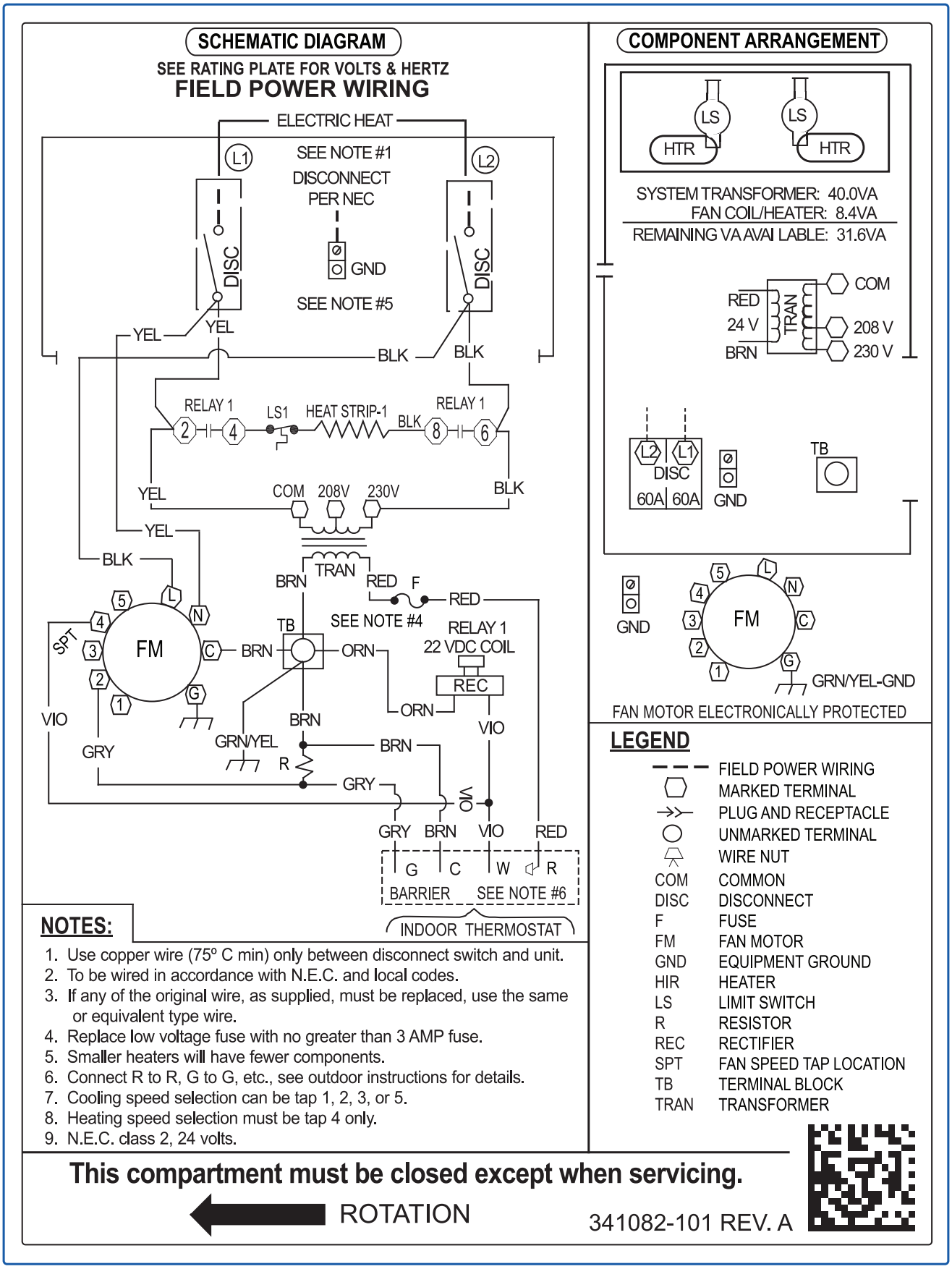
A150114

Fig. 18 – FF1E - Heater KFDEH0801D05A



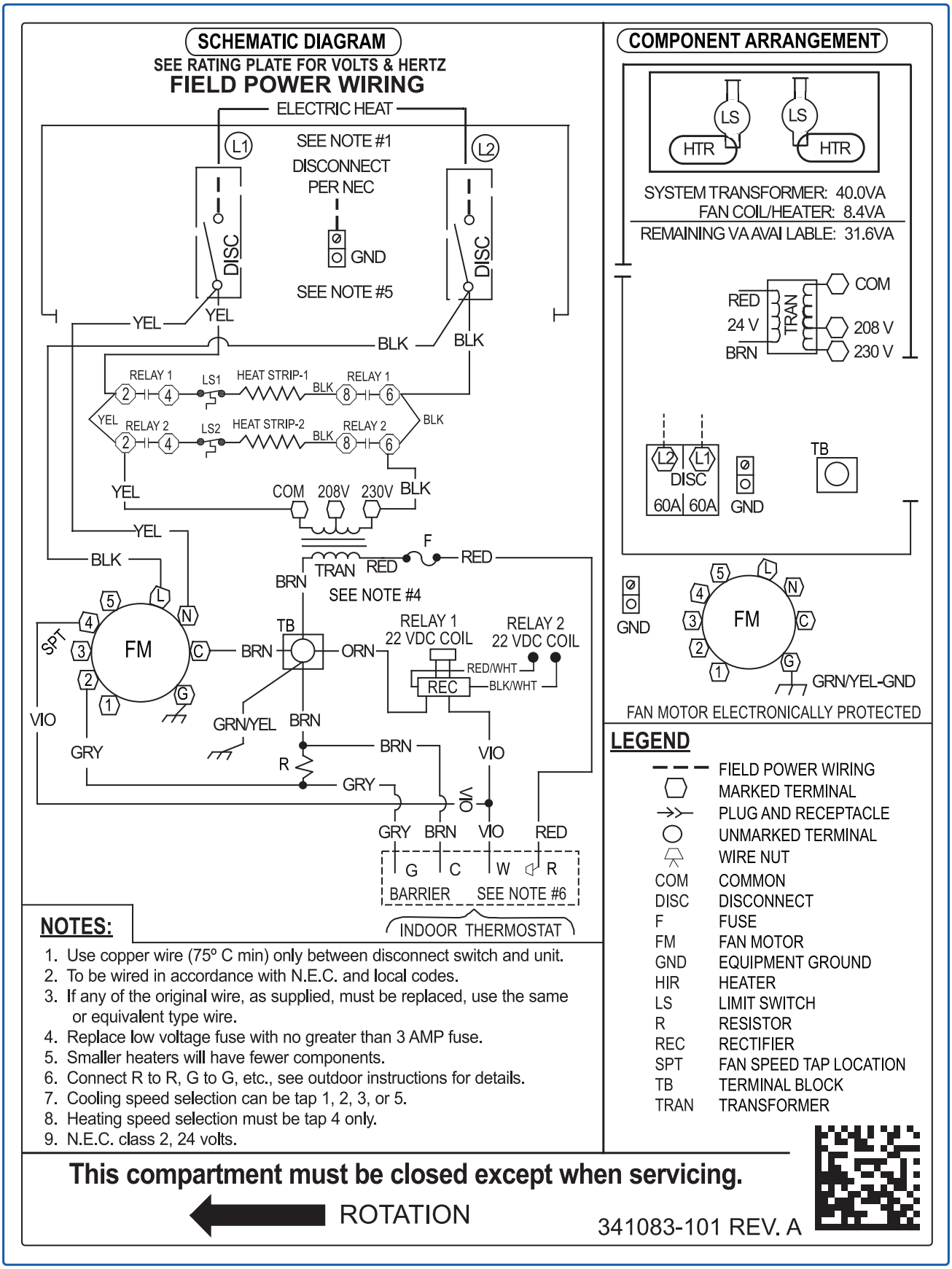
A150115

Fig. 19 – FF1E - Heaters KFDEH0901D75A / KFDEH1001D11A



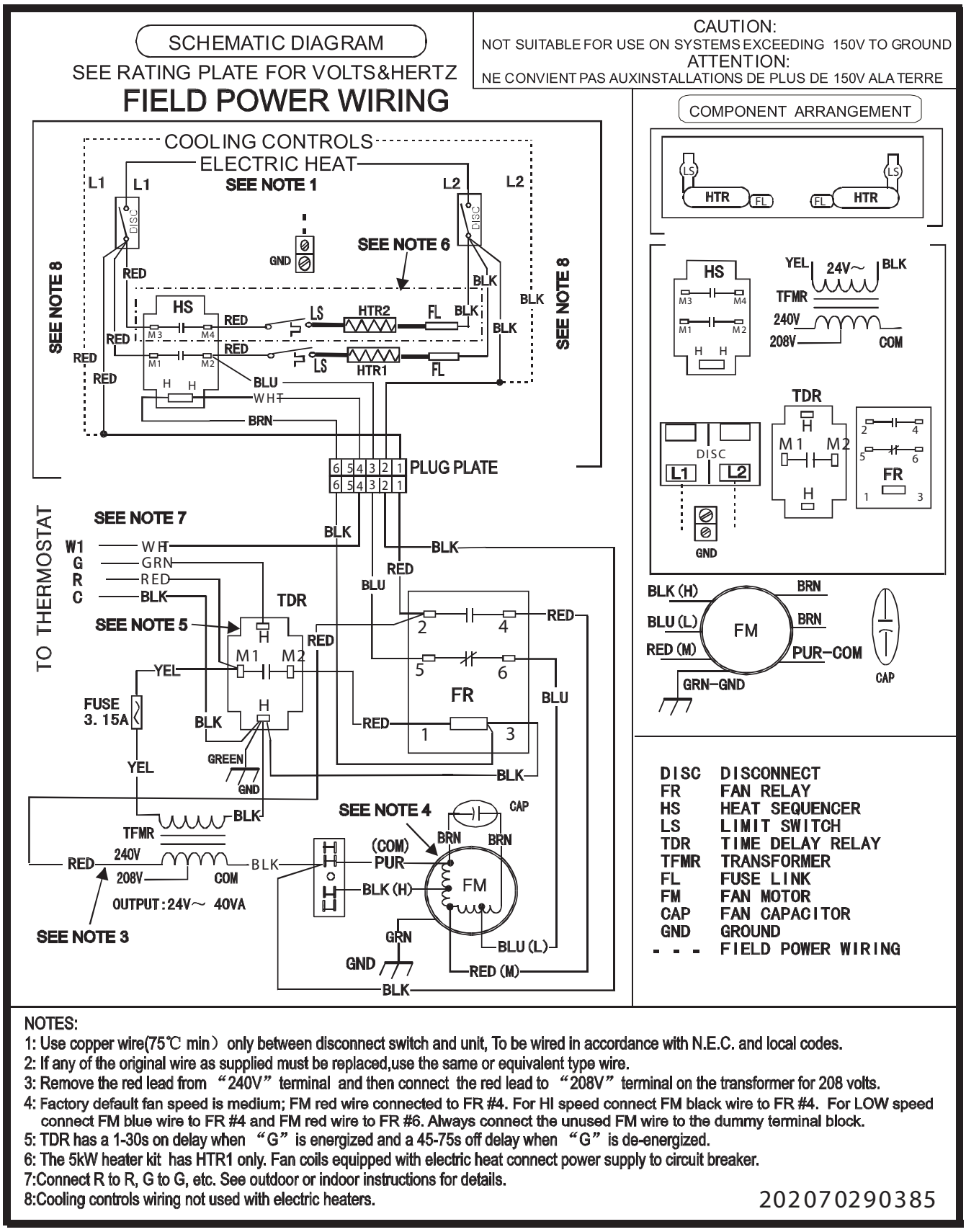
A150116

Fig. 20 – FF1E - Heater KFEEH0101D05A



A150117

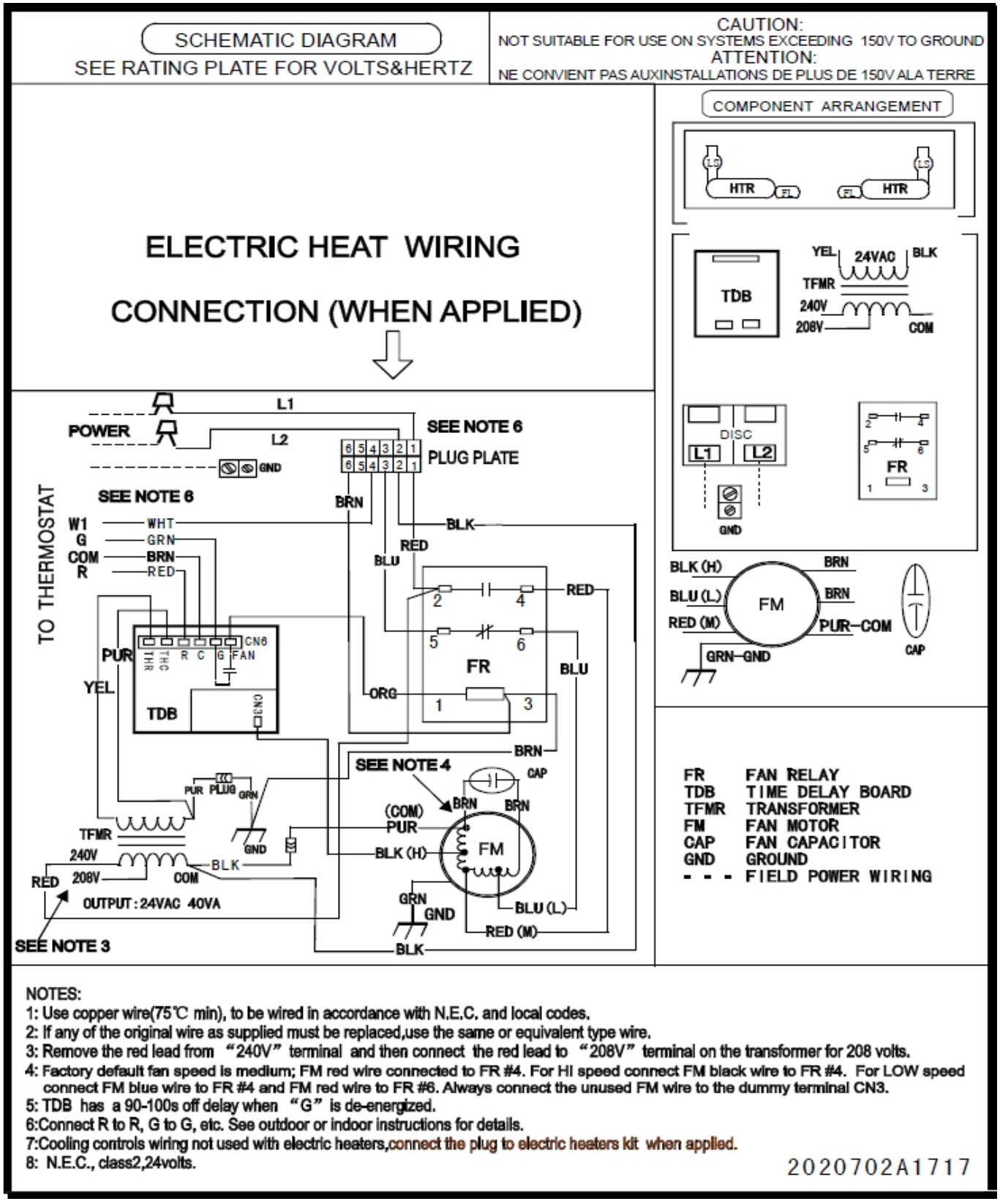
Fig. 21 – FF1E - Heaters KFEEH0201D75A / KFEEH0301D11A



A13131

Fig. 22 – FFMANP(018,024,030,036 and EHK2 Electric Heaters with Sequencers

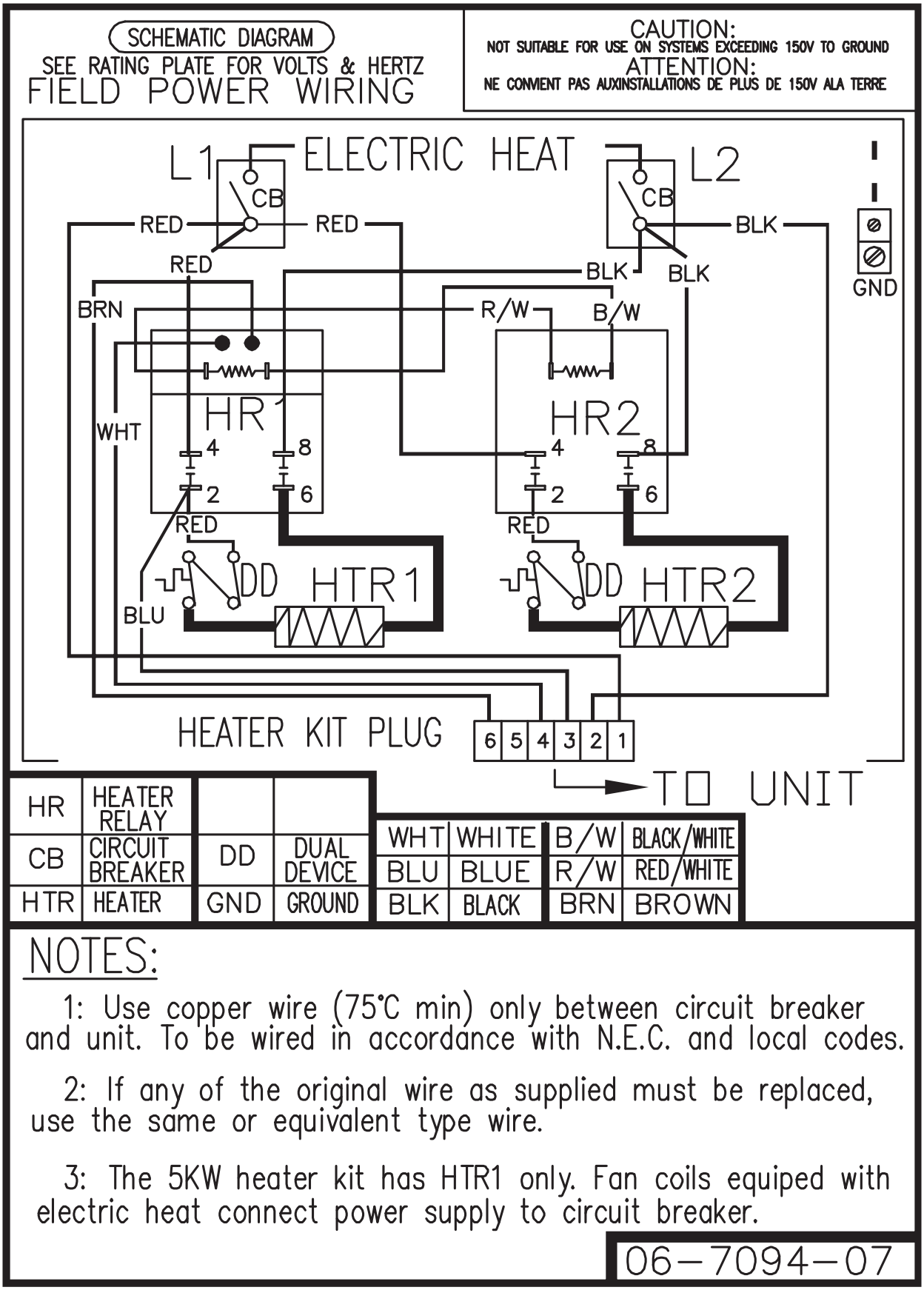
NOTE: Representative for FFMANP(018,024,030,036) prior to serial number date code 1715V



A150153

Fig. 23 – FFMANP(018,024,030,036 with PCB Time Delay

NOTE: Representative for FFMANP(018,024,030,036) serial number date code 1715V and later.



A190017

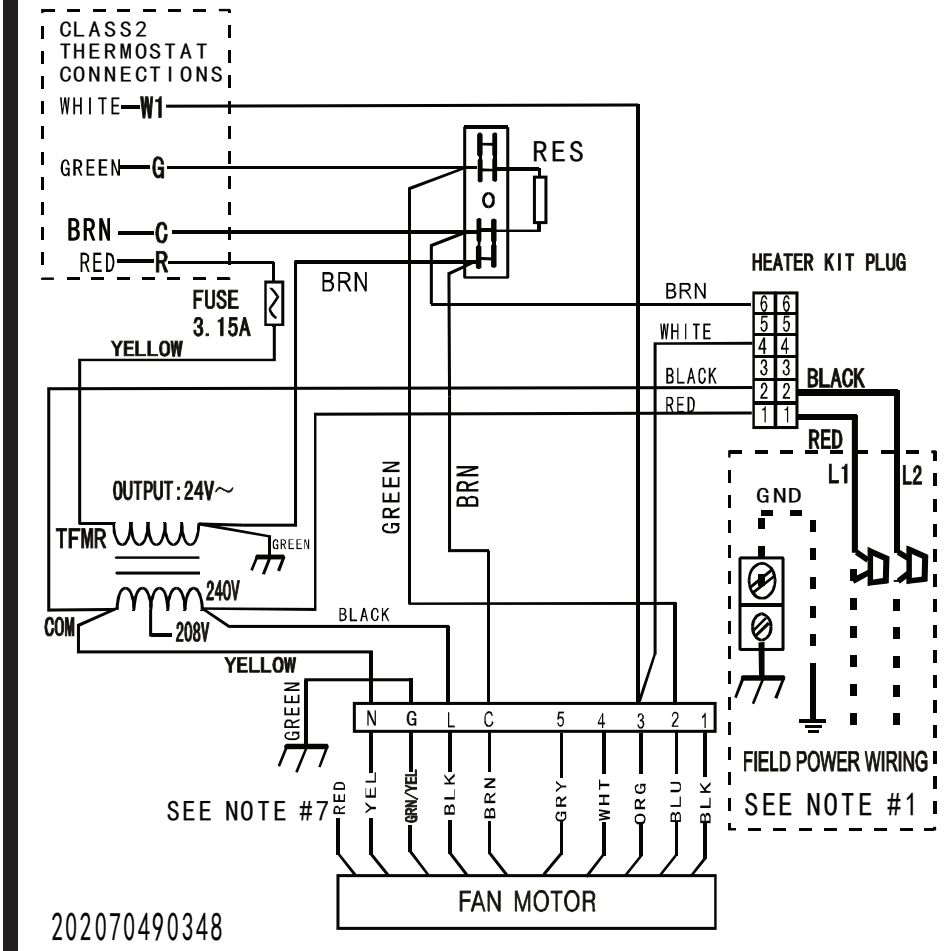
Fig. 24 – EHK2 With Heater Relays

SCHEMATIC DIAGRAM

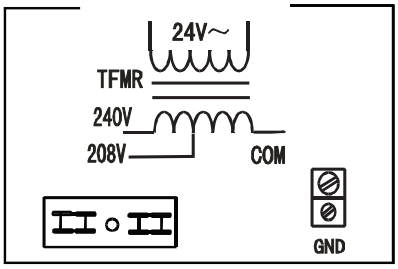
SEE RATING PLATE FOR VOLTS&HERTZ

FIELD POWER WIRING

CAUTION:
NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V TO GROUND
ATTENTION:
NE CONVIENT PAS AUXINSTALLATIONS DE PLUS DE 150V ALA TERRE



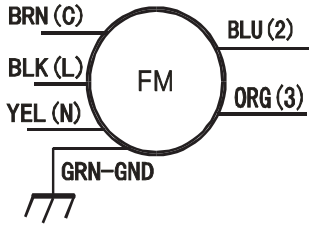
COMPONENT ARRANGEMENT



SPEED TAP SELECTION

1	LOW
2	MEDIUM LOW
3	MEDIUM
4	MEDIUM HIGH
5	HIGH

SEE NOTE #5, #6 & #8.



NOTES:

1: Use Copper Wire (75℃ Min) Only Between Disconnect Swicth And Unit .
2: To Be Wired In Accordance With NEC And Local Codes.
3: If Any Of The Original Wire ,As Supplied,Must Be Replaced.Use The Same Or Equivalent Type Wire.
4: Connect R To R,G To G,Etc.See Outdoor Instruction For Details.
5: To Change Speed Tap,Move Green Wire Desired Terminal.
6: See Airflow Tables For Tap Usage.
7:Factory Wires May Be Present,DO NOT USE.
8:Taps 2 & 4 Have a 90s Delay Off, Taps 1, 3 & 5 are 30s.

TFMR	TRANSFORMER
FM	FAN MOTOR
GND	GROUND
RES	RESISTOR
- - -	FIELD POWER WIRING

A14323

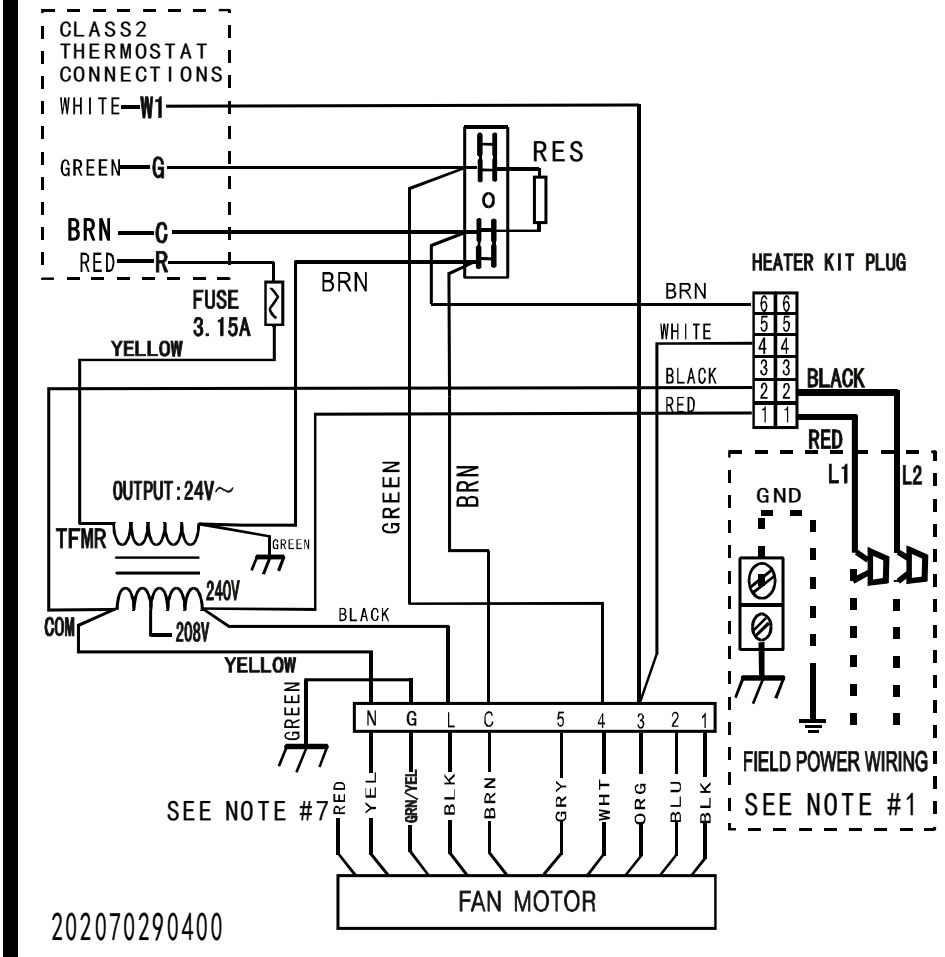
Fig. 25 – FFMANP(019, 031)

SCHEMATIC DIAGRAM

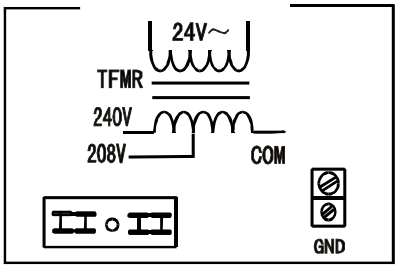
SEE RATING PLATE FOR VOLTS&HERTZ

FIELD POWER WIRING

CAUTION:
NOT SUITABLE FOR USE ON SYSTEMS EXCEEDING 150V TO GROUND
ATTENTION:
NE CONVIENT PAS AUXINSTALLATIONS DE PLUS DE 150V ALA TERRE



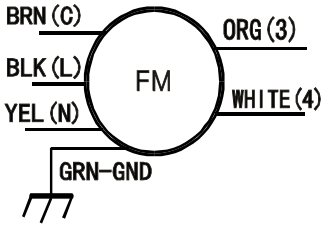
COMPONENT ARRANGEMENT



SPEED TAP SELECTION

1	LOW
2	MEDIUM LOW
3	MEDIUM
4	MEDIUM HIGH
5	HIGH

SEE NOTE #5, #6 & #8.



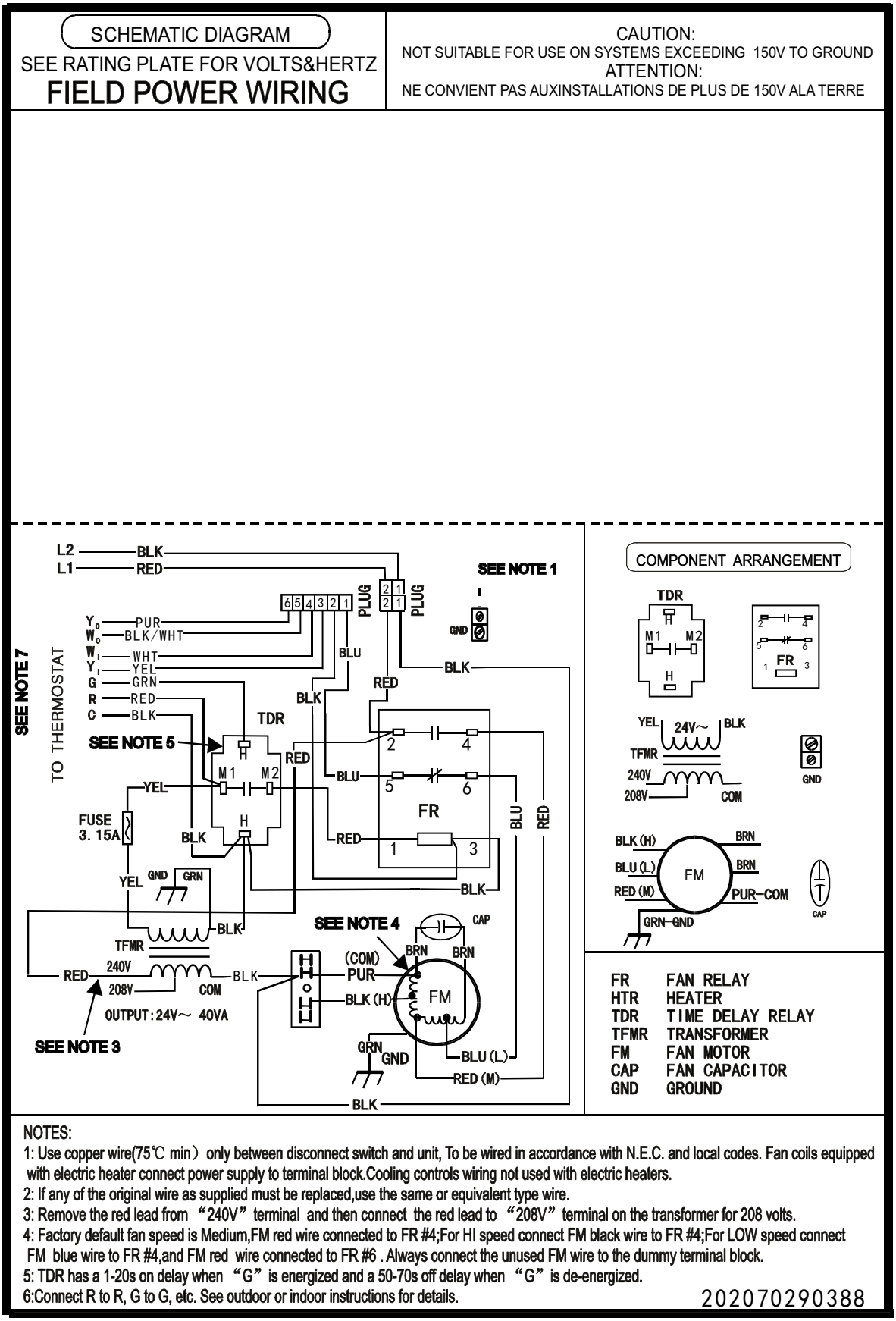
NOTES:

1: Use Copper Wire (75℃ Min) Only Between Disconnect Swicth And Unit .
2: To Be Wired In Accordance With NEC And Local Codes.
3: If Any Of The Original Wire ,As Supplied,Must Be Replaced.Use The Same Or Equivalent Type Wire.
4: Connect R To R,G To G,Etc.See Outdoor Instruction For Details.
5: To Change Speed Tap,Move Green Wire Desired Terminal.
6: See Airflow Tables For Tap Usage.
7:Factory Wires May Be Present,DO NOT USE.
8:Taps 2 & 4 Have a 90s Delay Off, Taps 1, 3 & 5 are 30s.

TFMR	TRANSFORMER
FM	FAN MOTOR
GND	GROUND
RES	RESISTOR
- - -	FIELD POWER WIRING

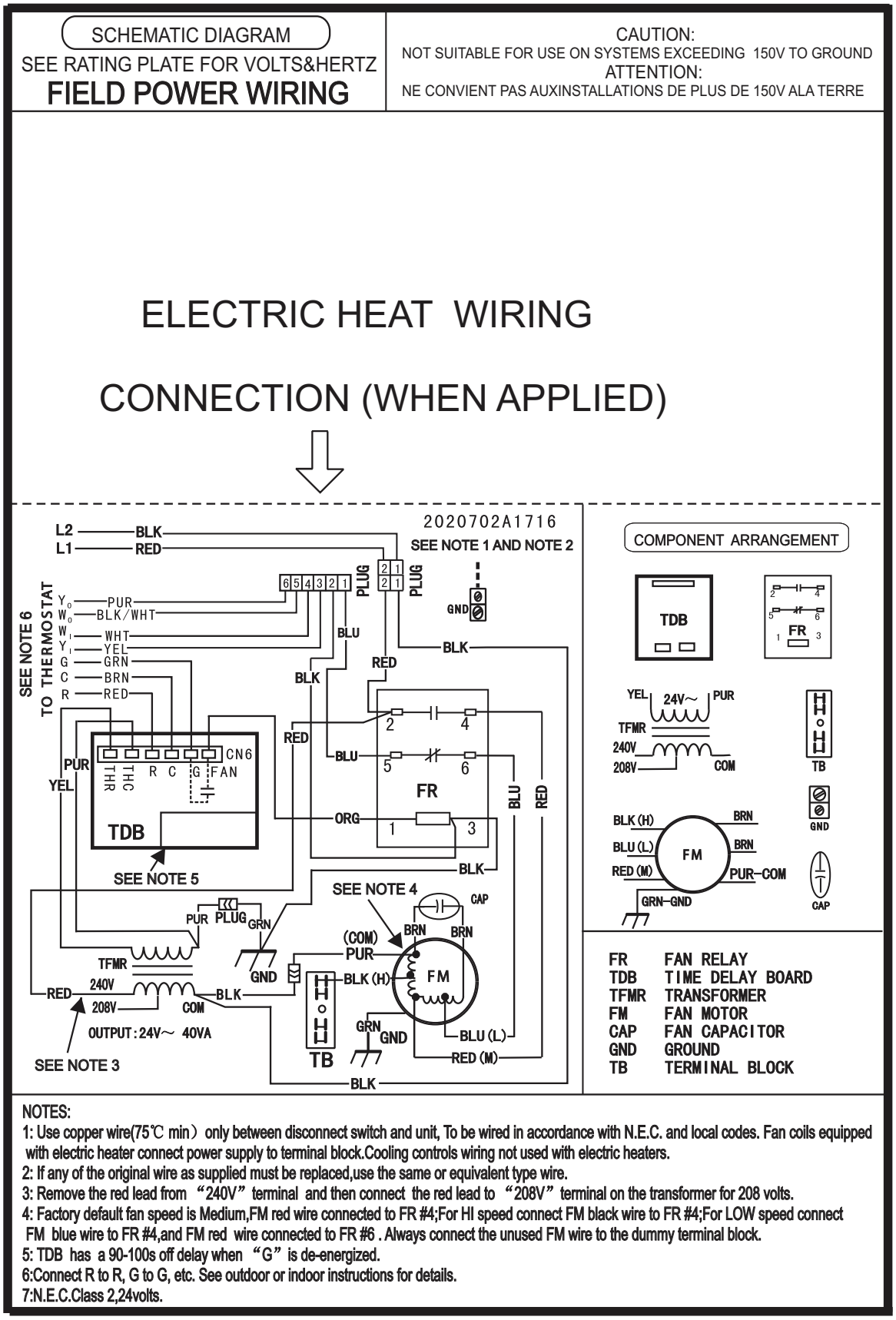
A14324

Fig. 26 – FFMANP(025, 037)



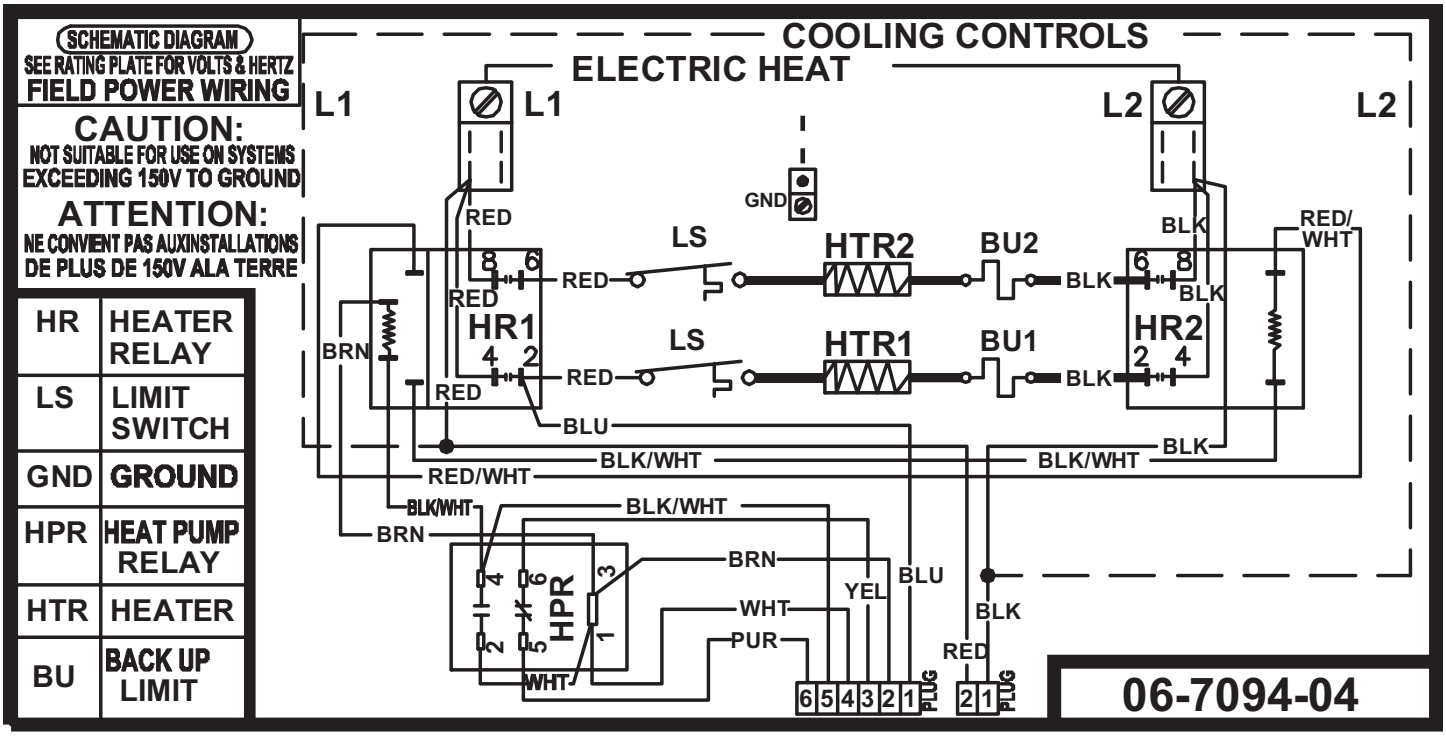
A14325

Fig. 27 – FPM(A,B)N(U,C) with Time Delay Relay



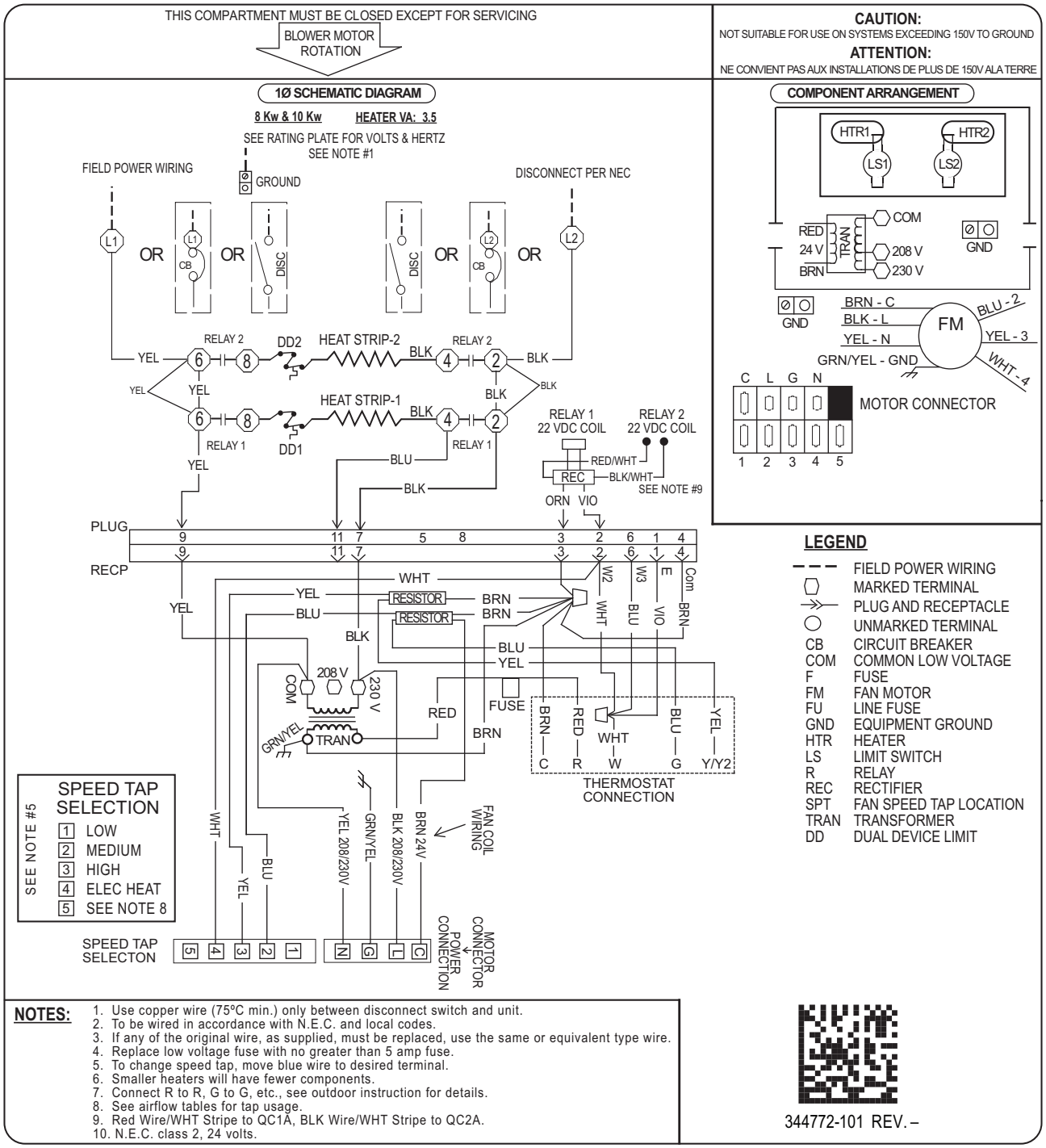
A170018

Fig. 28 – FPM(A,B)N(C,U) with Time Delay Board



A190016

Fig. 29 – EHK3 With Heater Relays



A190020

Fig. 30 – FZ4A, 3 & 4 Ton, with MKFCEH 0801N08B / 0901N10B Heater

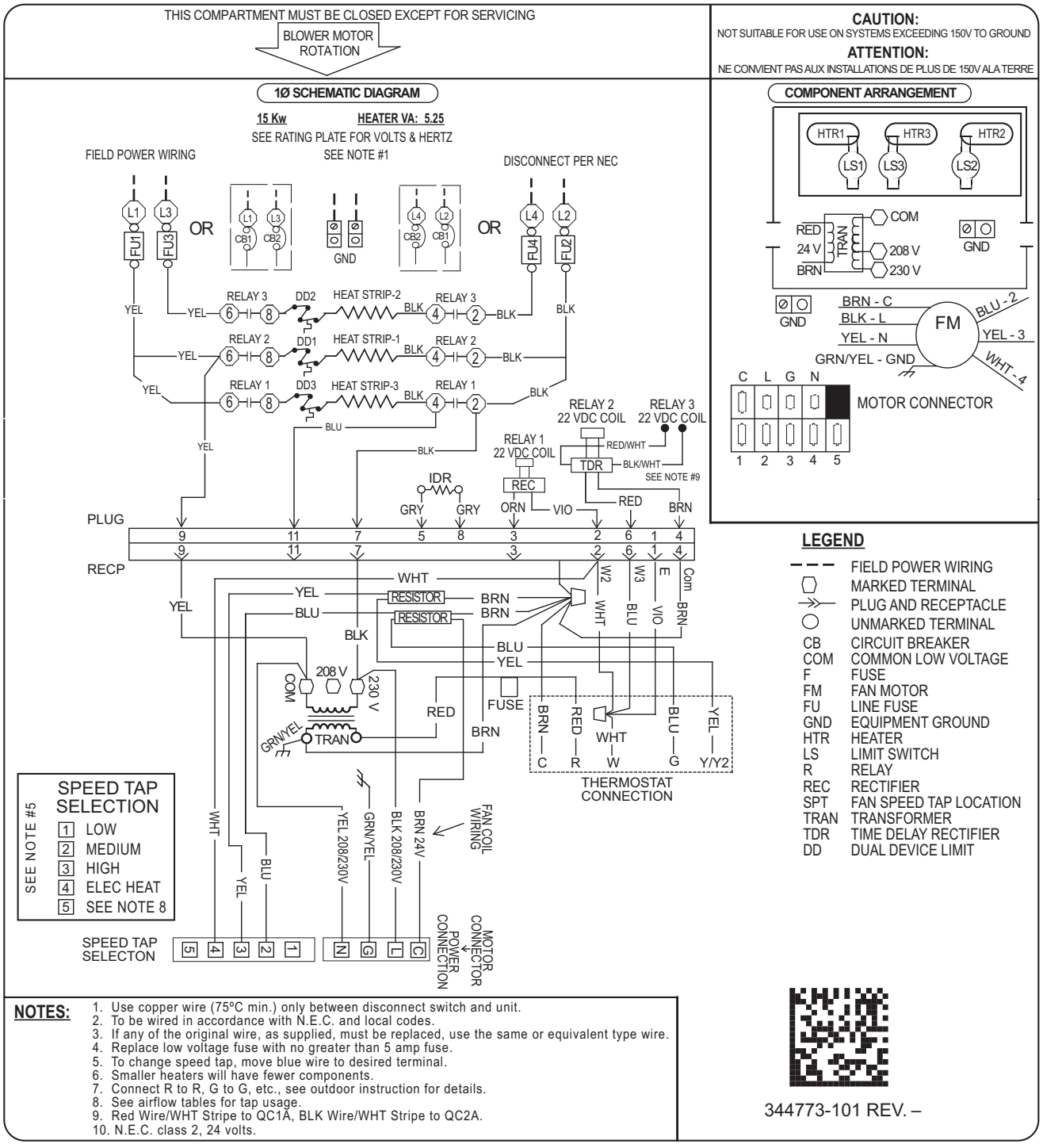
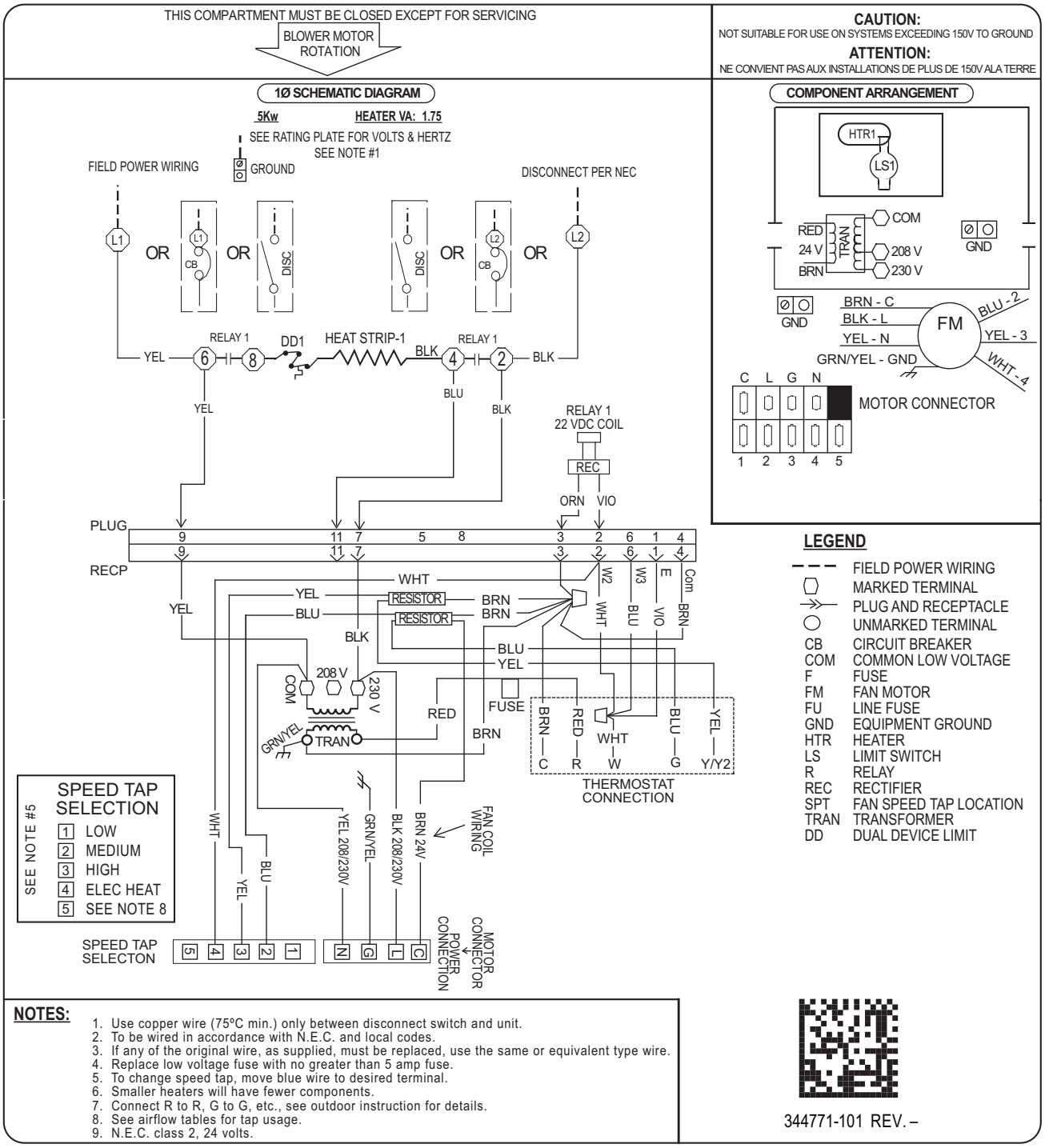
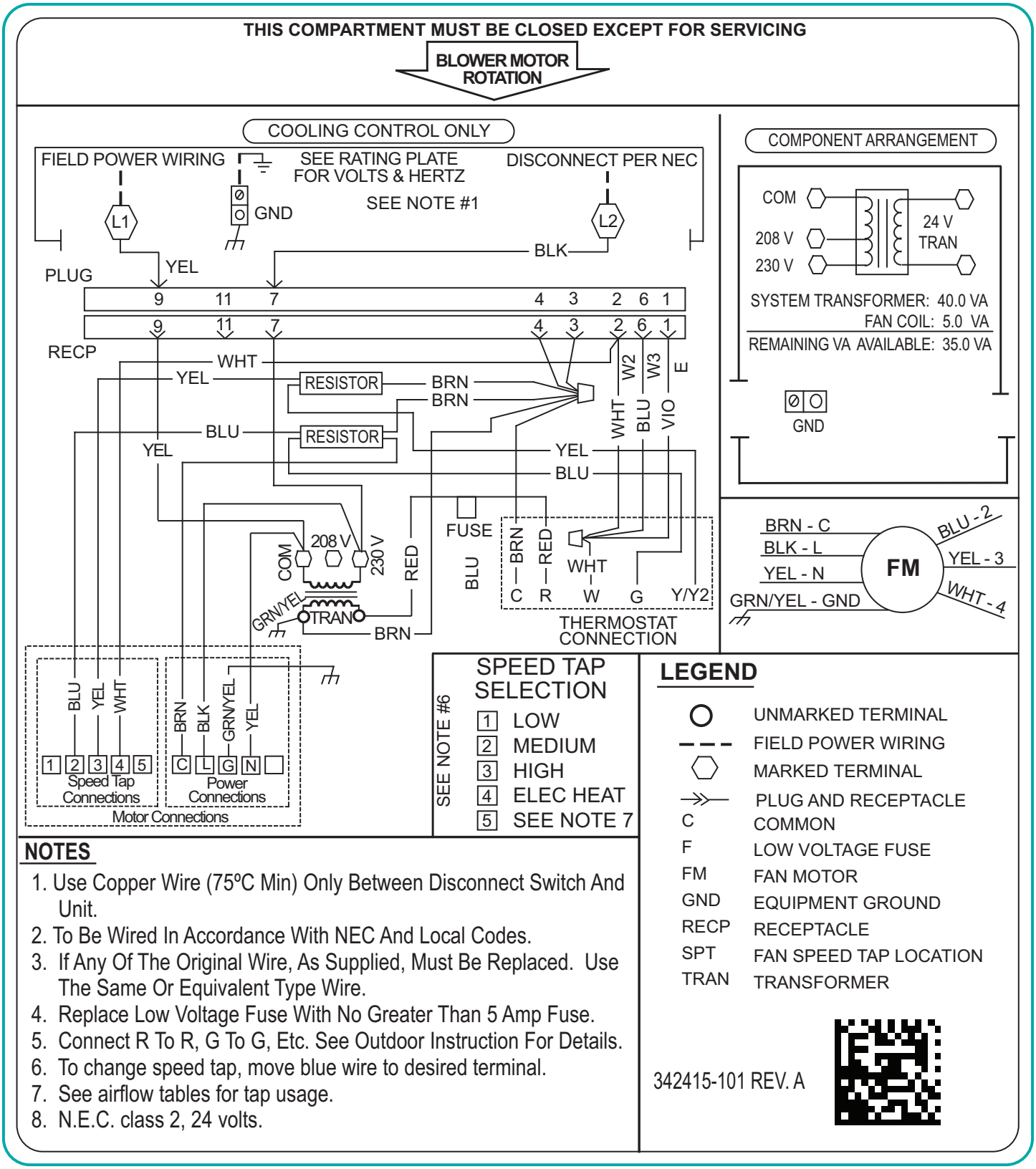


Fig. 31 – FZ4A, 5 Ton, with MKFCEH1501F15B Heater



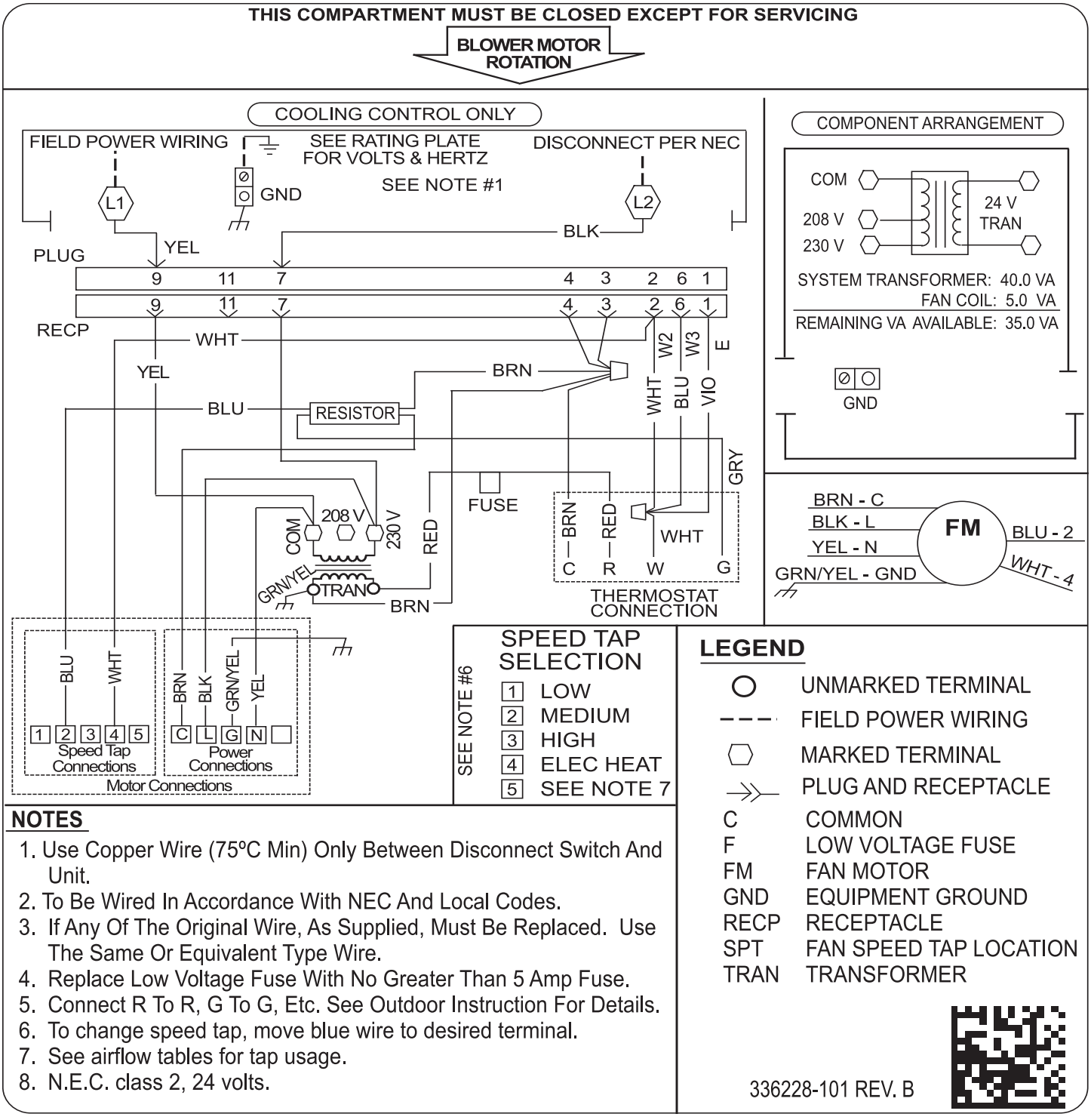
A190019

Fig. 32 – FZ4A, 2 Ton, with MKFCEH0501N05B Heater



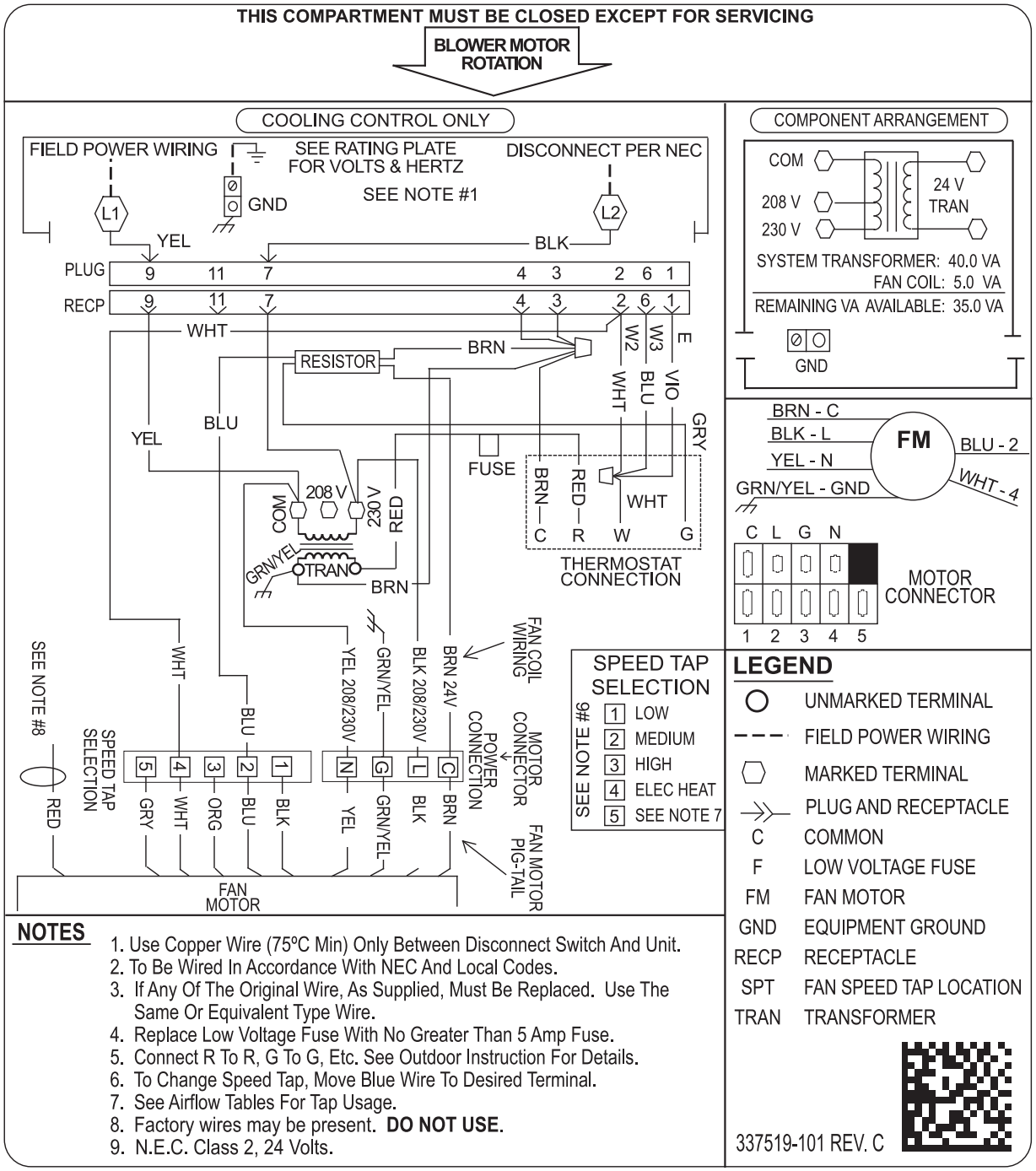
A160101

Fig. 33 – FZ4A



A170278

Fig. 34 – FB4(C/Q)SL



A170279

Fig. 35 – FB4(C/Q)SL

NOTES PAGE

Edition Date: 02/20

Catalog No: WD-FANCOIL-10

Replaces: WD-FANCOIL-09