

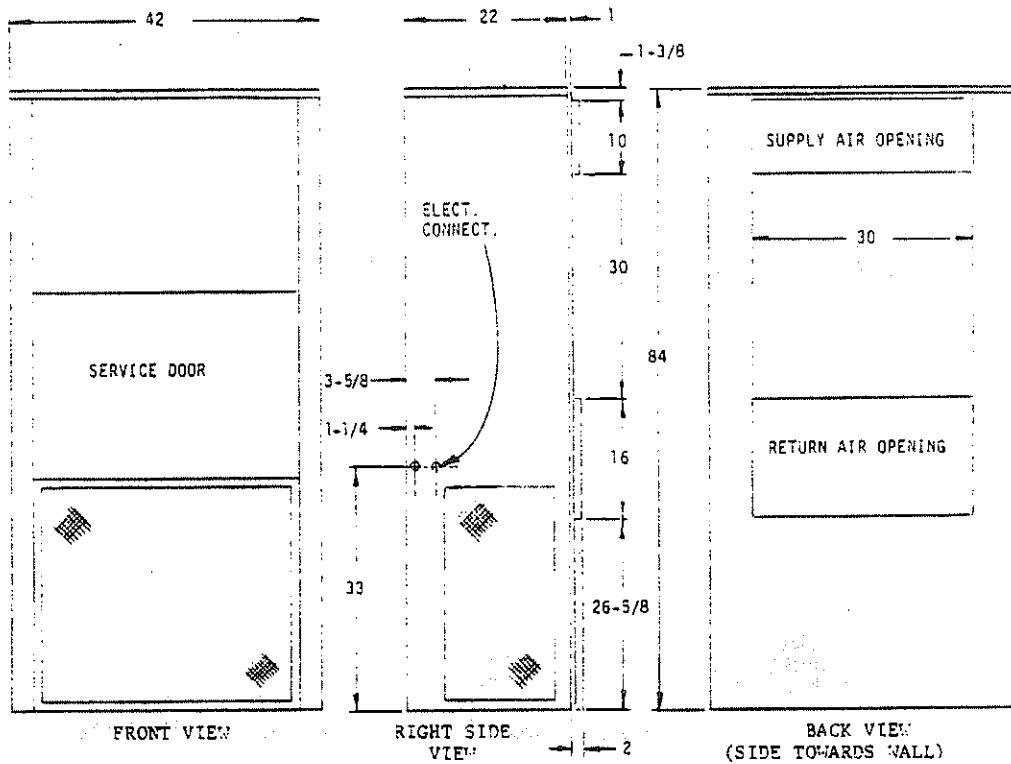
INSTALLATION INSTRUCTIONS

**WALL MOUNTED
PACKAGE AIR CONDITIONERS**

MODELS

42WA

49WA



ELECTRICAL INFORMATION								WIRING INFORMATION**			
MODEL	Rated Volts & Ph	Operating Voltage Range	Heater** KW	Max Unit Amps	No. Field Power Circuits	Internal Fuses Ckt. A/B	Required Overcurrent Protection	Min. Ckt. Ampacity Ckt. A/B	Field Power Wiring Ckt. A/B	Ground Wire Size Ckt. A/B	Wiring Diagram Number
42WA	230/208-1	197-253	0	27.8	1		50	33	8	10	4010-110F
			5	27.8	1		50	33	8	10	-120F
			10	45.6	1		60	57	4	10	-130F
			15	66.5	1		90	33	3	8	-140G
			20	87.2	1		110	109	1	6	-150H
42WA	230/208-3	187-253	0	19.8	1		35	24	10	10	4010-2100
			9	25.7	1		35	32	8	10	-220F
			12	32.9	1		45	41	6	10	-230E
			15	40.2	1		50	50	6	10	-230E
			18	47.4	1		60	59	4	10	-240E
42WA	460-3	414-506	0	11.4	1		20	15	14	14	4010-310C
			9	12.8	1		20	17	12	12	-320C
			12	16.2	1		25	22	10	10	-320C
			15	20	1		30	26	10	10	-320C
			18	23.7	1		35	31	8	10	-330C
49WA	230/208-1	197-253	0	29.8	1		50	35	8	10	4010-110F
			5	29.3	1		50	35	8	10	-120F
			10	45.5	1		60	57	4	10	-130F
			15	66.5	1		90	33	3	8	-140G
			20	87.2	1		110	109	1	6	-150H
49WA	230/208-3	187-253	0	22.8	1		35	25	10	10	4010-2100
			9	25.7	1		40	32	8	10	-220F
			12	32.9	1		45	41	6	10	-230E
			15	40.2	1		50	50	6	10	-230E
			18	47.4	1		60	59	4	10	-240E
49WA	460-3	414-506	0	11.4	1		20	15	14	14	4010-310C
			9	12.8	1		20	17	12	12	-320C
			12	16.4	1		25	22	10	10	-320C
			15	20	1		30	26	10	10	-320C
			18	23.7	1		35	31	8	10	-330C

*Electric heaters are nominal KW @ 240V or 480V.
 **Based on 60°C copper wire. Other wiring materials must be rated for marked minimum circuit ampacity or greater. Not all models are approved for aluminum wire.

△ Time delay fuses or "HACR Type" circuit breakers must be used for 60 and smaller sizes. Standard fuses or circuit breakers suitable for sizes 70 and larger.

APPLICATION AND INSTALLATION INSTRUCTIONS FOR WA PACKAGE AIR CONDITIONERS

IMPORTANT

The equipment covered in this manual is to be installed by trained, experienced service and installation technicians. Any heat pump is more critical of proper operating, charge and an adequate duct system than a straight air conditioning unit. All ductwork, supply and return, must be properly sized for the design air flow requirement of the equipment. NESCA is an excellent guide to proper sizing. All duct work or portions thereof not in the conditioned space should be properly insulated in order to both conserve energy and prevent condensation or moisture damage.

SHIPPING DAMAGE

Upon receipt of equipment, the carton should be checked for external signs of shipping damage. If damage is found, the receiving party must contact the last carrier immediately, preferably in writing, requesting inspection by the carrier's agent.

GENERAL

The refrigerant system is completely assembled and charged. All internal wiring is complete.

The unit is designed for use with or without duct work. Flanges are provided for attaching the supply and return ducts.

These instructions explain the recommended method to install the air cooled self-contained unit and the electrical wiring connections to the unit.

These instructions and any instructions packaged with any separate equipment required to make up the entire air conditioning system should be carefully read before beginning the installation. Note particularly "Starting Procedure" and any tags and/or labels attached to the equipment.

While these instructions are intended as a general recommended guide, they do not supersede any national and/or local codes in any way. Authorities having jurisdiction should be consulted before the installation is made.

INSTALLATION

Size of unit for a proposed installation should be based on heat loss calculation made according to methods of National Warm Air Heating and Air Conditioning Association. The air duct should be installed in accordance with the Standards of the National Fire Protection Association for the Installation of Air Conditioning and Ventilating Systems of Other Than Residence Type, NFPA No. 90A, and Residence Type Warm Air Heating and Air Conditioning Systems, NFPA No. 90B. Where local regulations are at a variance with instructions, installer should adhere to local codes.

DUCTWORK

Design the ductwork according to methods given by the National Warm Air Heating and Air Conditioning Association. When duct runs through unheated spaces, it should be insulated with a minimum of two inches of insulation. Use insulation with a vapor barrier on the outside of the insulation. Flexible joints should be used to connect the ductwork to the equipment in order to keep the noise transmission to a minimum.

A one inch clearance to combustible material for the first three feet of duct attached to the outlet air frame is required. See page 6 for further details.

FILTER

A 1" throwaway filter is supplied with each unit. The filter slides into position making it easy to service. This filter can be serviced from the outside by removing the service door.

FRESH AIR INTAKE

All units are built with a fresh air inlet hole punched in the service panel. The fresh air damper assembly is shipped with each unit, and must be attached at the installation site. See Figure 1 for typical installation procedure.

The fresh air damper assembly is standard equipment with the unit because of the variety of state or local codes requiring fresh air capability.

All capacity, efficiency and cost of operation information as required for Department of Energy "Energy-guide" Fact Sheets is based upon the fresh air blank-off plate in place and is recommended for maximum energy efficiency.

The blank-off plate is available upon request from the factory and is installed in place of the fresh air damper shipped with each unit.

WALL MOUNTING

1. Two holes, the size of the supply and return air openings must be cut through the wall as shown in Figure 2.
2. On wood-frame walls, the wall construction must be strong and rigid enough to carry the weight of the unit without transmitting any unit vibration.
3. Concrete block walls must be thoroughly inspected to insure that they are capable of carrying the weight of the installing unit.
4. Ducts through the walls must be insulated and all joints taped or sealed to prevent air or moisture entering the wall cavity.
5. Some installations may not require any return air duct. It is recommended that on this type of installation that a filter grille be located in the wall. Filters must be of sufficient size to allow a maximum velocity of 400 FPM.

NOTE: If no return air duct is used, applicable installation codes may limit this cabinet to installation only in a single story structure.

WIRING - MAIN POWER

Refer to the unit rating plate for wire sizing information and maximum fuse or "HACR Type" circuit breaker size. Each outdoor unit is marked with a "Minimum Circuit Ampacity." This means that the field wiring used must be sized to carry that amount of current. Depending on the installed Kw of electric heat, there may be two field power circuits required. If this is the case, the unit serial plate will so indicate. Some models are suitable only for connection with copper wire, while others can be wired with either copper or aluminum wire. Each unit and/or wiring diagram will be marked "Use Copper Conductors Only" or "Use Copper or Aluminum Conductors." These instructions MUST BE adhered to. Refer to the National Electrical Code for complete current carrying capacity data on the various insulation grades of wiring material.

The electrical data lists fuse and wire sizes (60°F copper) for all models, including the most commonly used heater sizes. Also shown are the number of field power circuits required for the various models with heaters.

The unit rating plate lists a "Maximum Time Delay Fuse" or "HACR Type" circuit breaker that is to be used with the equipment. The correct size must be used for proper circuit protection and also to assure that there will be no nuisance tripping due to the momentary high starting current of the compressor motor.

IMPORTANT INSTALLER NOTES:

1. For improved start-up performance wash the indoor coil with a dishwasher detergent.

PRESSURE SERVICE PORTS

High and low pressure service ports are installed on all units so that the system operating pressures can be observed. Pressure curves can be found later in the manual covering all models on both cooling and heating cycles. It is imperative to match the correct pressure curve to the unit by model number.

CRANKCASE HEATERS

All units are provided with some form of compressor crankcase heat. Some single phase units utilize the compressor motor start winding in series with a portion of the run capacitor to generate heat within the compressor shell to prevent liquid refrigerant migration.

Some three phase units utilize a wraparound type of crankcase heater that warms the compressor oil from the outside.

Some single and three phase models have an insertion well-type heater located in the lower section of the compressor housing. This is a self-regulating type heater that draws only enough power to maintain the compressor at a safe temperature.

Some form of crankcase heat is essential to prevent liquid refrigerant from migrating to the compressor, causing oil pump out on compressor start-up and possible valve failure due to compressing a liquid.

Refer to unit wiring diagram to find exact type of crankcase heater used.

The following decal is affixed to all outdoor units detailing start-up procedure. This is very important. Please read carefully.

IMPORTANT

THESE PROCEDURES MUST BE FOLLOWED AT INITIAL START-UP AND AT ANY TIME POWER HAS BEEN REMOVED FOR 12 HOURS OR LONGER.

TO PREVENT COMPRESSOR DAMAGE WHICH MAY RESULT FROM THE PRESENCE OF LIQUID REFRIGERANT IN THE COMPRESSOR CRANKCASE

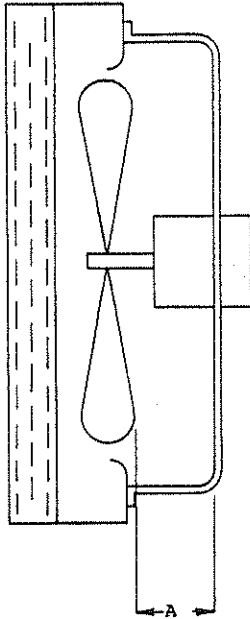
1. MAKE CERTAIN THE ROOM THERMOSTAT IS IN THE "OFF" POSITION (THE COMPRESSOR IS NOT TO OPERATE).
2. APPLY POWER BY CLOSING THE SYSTEM DISCONNECT SWITCH THIS ENERGIZES THE COMPRESSOR HEATER WHICH EVAPORATES THE LIQUID REFRIGERANT IN THE CRANKCASE.
3. ALLOW 4 HOURS OR 60 MINUTES PER POUND OF REFRIGERANT IN THE SYSTEM AS NOTED ON THE UNIT RATING PLATE, WHICHEVER IS GREATER.
4. AFTER PROPERLY ELAPSED TIME THE THERMOSTAT MAY BE SET TO OPERATE THE COMPRESSOR.
5. EXCEPT AS REQUIRED FOR SAFETY WHILE SERVICING -- DO NOT OPEN SYSTEM DISCONNECT SWITCH.

7961-061

FAN BLADE SETTING DIMENSIONS

Shown in the drawing below are the correct fan blade setting dimensions for proper air delivery across the outdoor coil.

Any service work requiring removal or adjustment in the fan and/or motor area will require that the dimensions below be checked and blade adjusted in or out on the motor shaft accordingly.



MODEL	DIM. A
42WA	1
49WA	2

REFRIGERANT CHARGE

The correct system R-22 charge is shown on the unit rating plate. Optimum unit performance will occur with a refrigerant charge resulting in a suction line temperature (6" from compressor) as shown in the following table:

MODEL	AIRFLOW	95°F O.D. Temp.	82°F O.D. Temp.
42WA	1575	57-59	67-69
49WA	1725	60-62	68-70

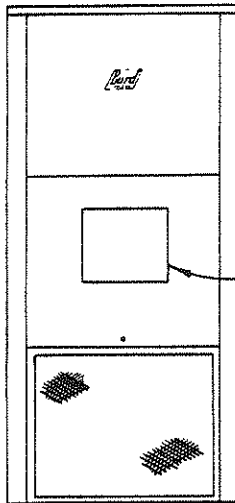
The above suction line temperatures are based upon 80°F dry bulb/67°F wet bulb (50% R.H.) temperature and rated airflow across the evaporator during cooling cycle.

RATED CFM AND E.S.P. (WET COIL—COOLING)			
MODEL	RATED CFM	RATED E.S.P.	RECOMMENDED AIRFLOW RANGE
42WA	1575	.40	1440-1700 CFM
49WA	1725	.30	1440-1900 CFM

INDOOR BLOWER PERFORMANCE	
CFM — DRY COIL WITH FILTER	
E.S.P. Inches H ₂ O	MODEL 42WA, 49WA
.0	2125
.1	2035
.2	1950
.3	1845
.4	1735
.5	1620
.6	1490

UNIT MODELS

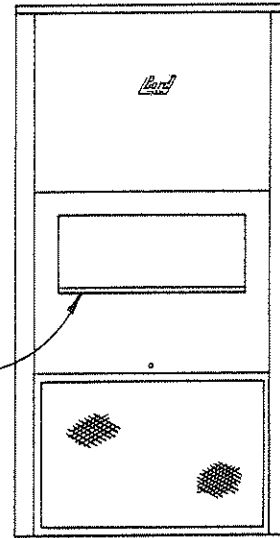
20WA1
24WA2
18WH2
24WH2



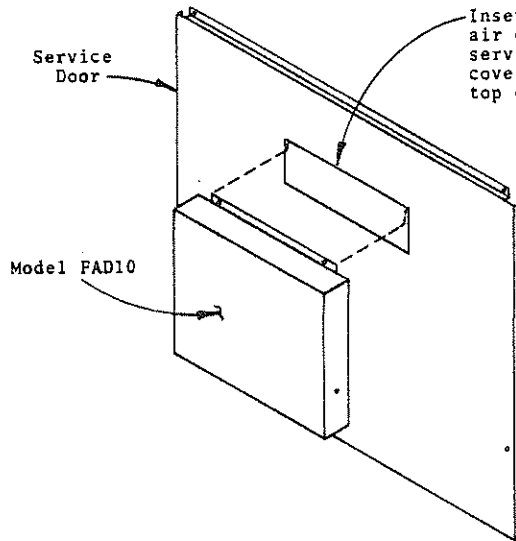
Model FAD10
Fresh Air Cover
With Adjustable
Damper

UNIT MODELS

30WA2
36WA4
30WH1
36WH2
42WA
49WA
48WH2



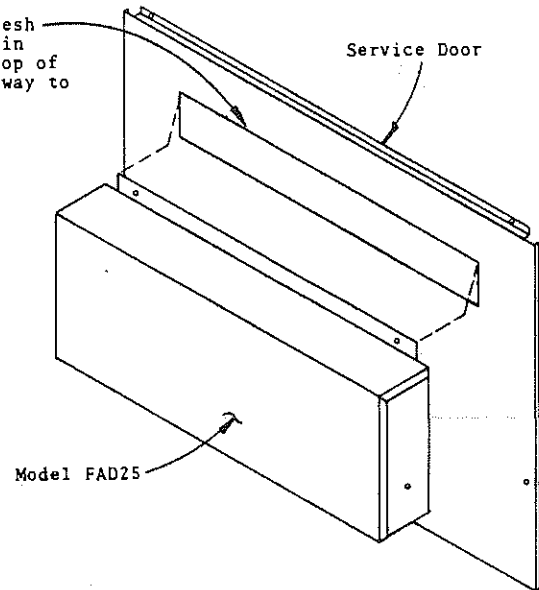
MODEL FAD25
Fresh Air Cover
With Adjustable
Damper



Service Door

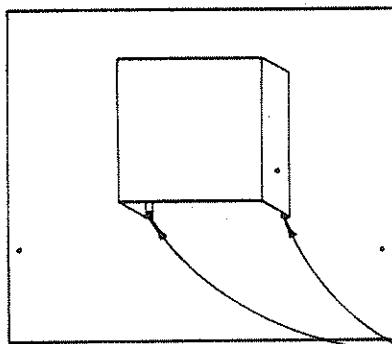
Model FAD10

Insert top flange of fresh air cover into opening in service door and push top of cover assembly all the way to top of opening.



Service Door

Model FAD25



Secure bottom of Fresh Air Cover Assembly with two screws.

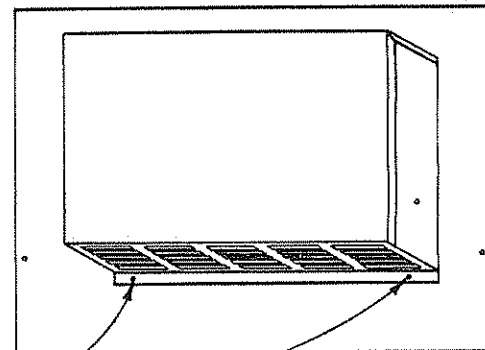
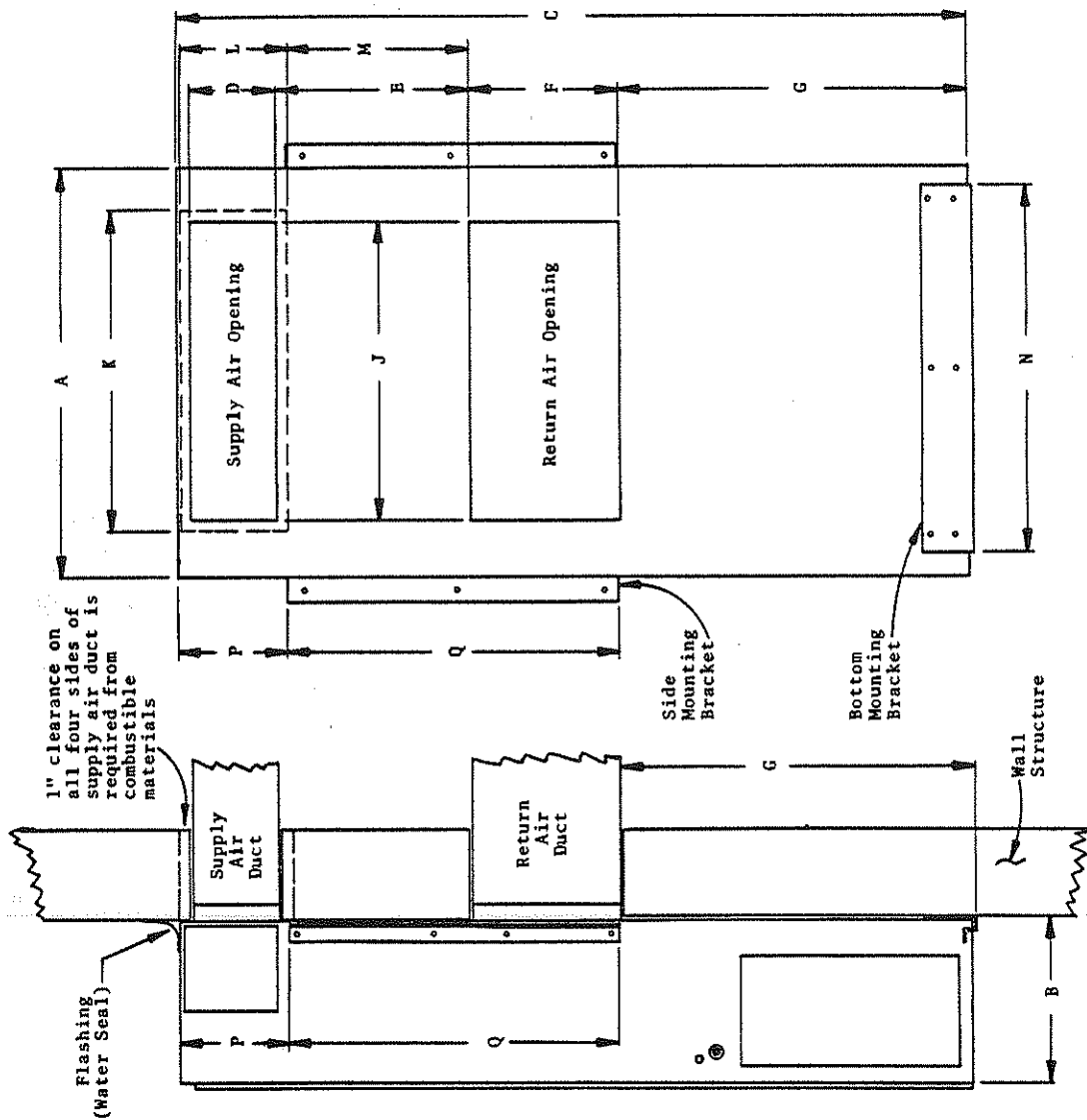


FIGURE 1

WALL VIEW

SIDE VIEW



MOUNTING INSTRUCTIONS

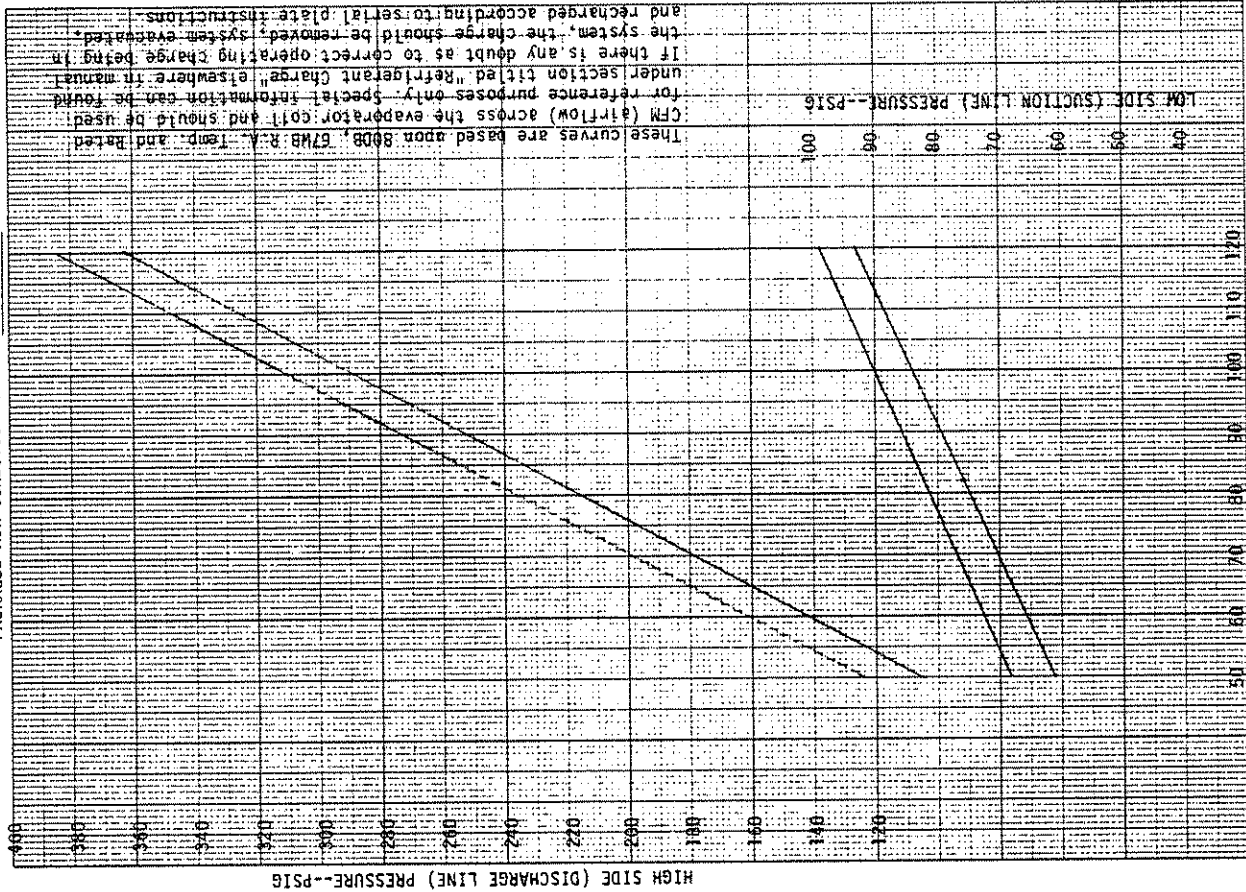
1. These units are secured by wall mounting brackets which secure the unit to the outside wall surface at both sides and at the bottom.
2. The unit itself is suitable for "0" inch clearance, but the supply air duct flange and the first few feet of supply air duct require 1 inch clearance to combustible material. If combustible wall, use K and L dimensions for sizing, if non-combustible, use D and J.
3. After the wall opening positions have been selected, lay out the position for the bottom and side brackets. Fasten the brackets securely to the wall (type of fasteners will depend on wall construction).
4. Be sure to observe the P dimension when attaching the side brackets. This will assure that no screws are driven into the unit sides damaging any internal parts. One-half inch sheet metal screws are recommended.
5. For additional mounting rigidity, the return air and supply air (depending upon wall construction) frames or collars can be drilled and screwed or welded to the structural wall itself. Be sure to observe required clearance if combustible wall.

MODEL	A	B	C	D	E	F	G	H	I	J	K	L	M	N	P	Q
20WA1, 24WA2	32-1/4	13-1/2	69-3/8	8	20-1/2	12	27-1/2	20	22	10	19-1/2	24	10	31		
18WH2, 24WH2	38-1/4	15-1/4	74	8	18	14	32-5/8	28	30	10	17	34	10	31		
30WA2, 36WA4	42	22	84	10	30	16	26-5/8	30	32	12	29	34	10	42		
30WH1, 36WH2																
42WA, 49WA																
48WH2																

FIGURE 2

982

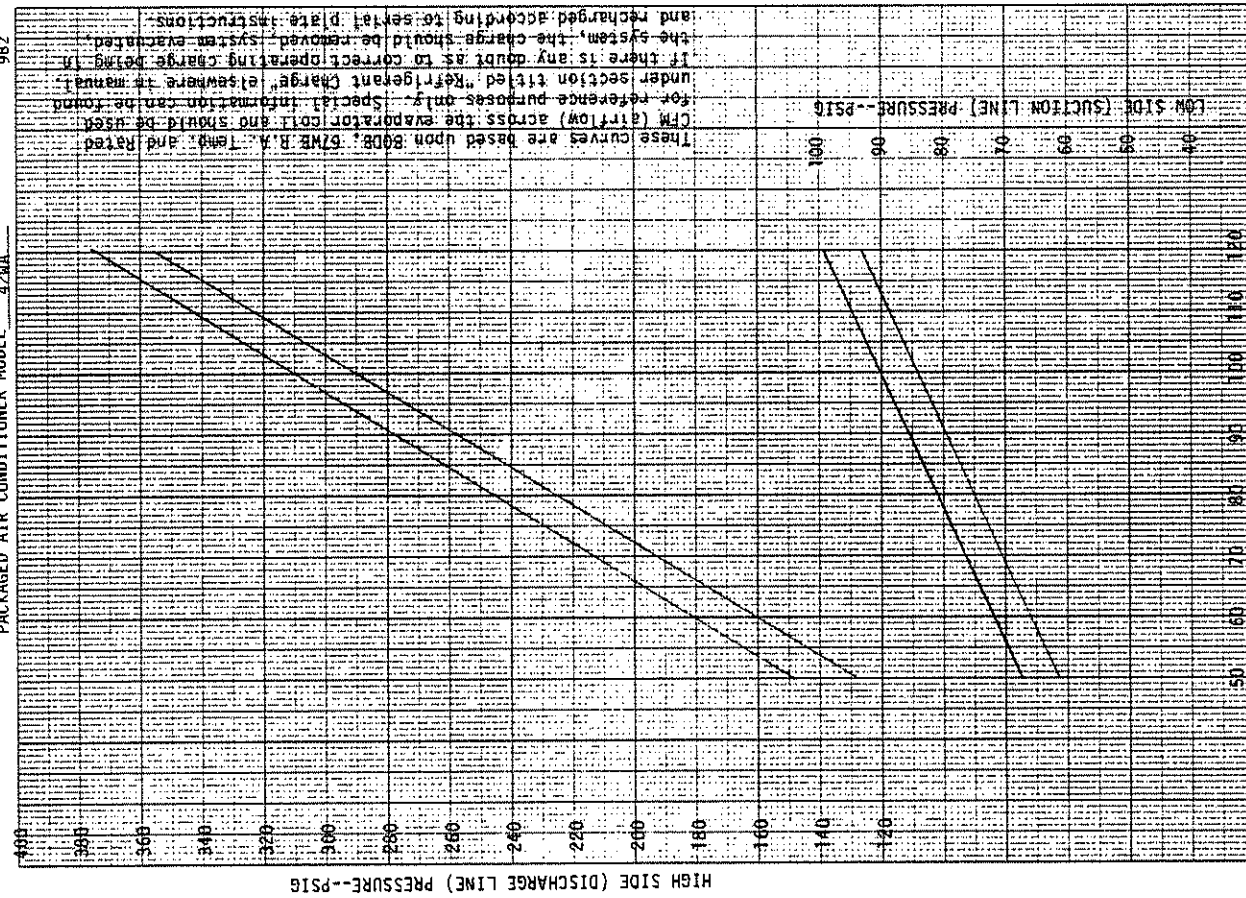
PACKAGED AIR CONDITIONER MODEL 49WA



AIR TEMPERATURE ENTERING OUTDOOR COIL - DEGREE F.

982

PACKAGED AIR CONDITIONER MODEL 42WA



AIR TEMPERATURE ENTERING OUTDOOR COIL - DEGREE F.

PARTS LIST
SINGLE PACKAGE AIR CONDITIONERS

Effective 9-1-84
Supersedes 6-4-82

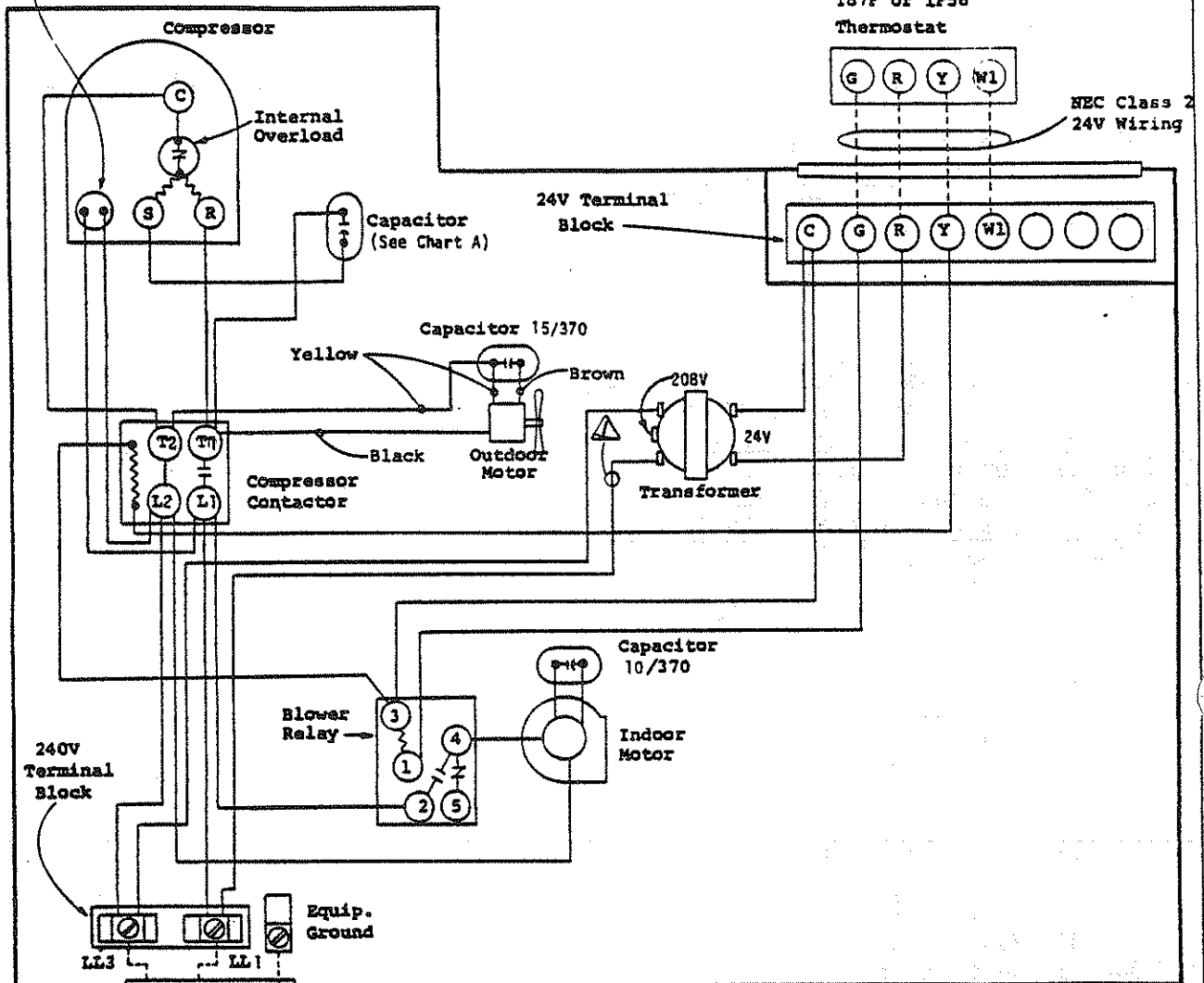
PART NO.	DESCRIPTION	42WA	42WA-3	49WA	49WA-3	42WA-3 460V	49WA-3 460V
*	Blower Housing	x	x	x	x	x	x
5152-011	Blower Wheel DD10-8A	x	x	x	x	x	x
5152-012	Blower Wheel DD10-8A	x	x	x	x	x	x
8552-028	Capacitor - Comp. 35/440V	x					
8552-005	Capacitor - Blower	x	x	x	x	x	x
8552-026	Capacitor - Fan	x	x	x	x	x	x
8552-030	Capacitor - Comp. 40/440V			x			
5811-021	Capillary Tube - Cool	(2)	(2)			(2)	
5811-020	Capillary Tube - Cool			(2)	(2)		(2)
8000-058	Compressor CRJ3-0300-PFV-270	x					
8000-059	Compressor CRJ3-0300-TF5-270		x				
8000-063	Compressor CRK3-0325-PFV-270			x			
8000-064	Compressor CRK3-0325-TF5-270				x		
8000-060	Compressor CRJ3-0300-TFD-270					x	
8000-065	Compressor CRK3-0325-TFD-270						x
5051-027	Condenser Coil	x	x			x	
5051-028	Condenser Coil			x	x		x
8401-007	Contactator - Comp. 25A	x					
8401-002	Contactator - 25A		x		x	x	x
8401-006	Contactator - Heater 24V	x	x	x	x		
8401-003	Contactator - Comp. 30A			x			
5060-025	Evaporator Coil	x	x	x	x	x	x
5151-027	Fan Blade B2430-4 ccw	x	x	x	x	x	x
7004-016	Filter 20x30	x	x	x	x	x	x
8614-017	Fuse Block 15Kw	x		x			
8614-018	Fuse Block 20Kw	x		x			
8614-022	Fuse 60A	x		x			
8614-006	Fuse 30A	x		x			
8614-007	Fuse 60A	x		x			
8604-042	Heat Strip 5Kw	x		x			
8604-044	Heat Strip 10Kw	x		x			
8604-047	Heat Strip 15Kw	x		x	x		
8604-048	Heat Strip 9Kw		x		x		
8604-046	Heat Strip 12Kw		x		x		
8604-050	Heat Strip 9Kw					x	x
8604-051	Heat Strip 12Kw					x	x
8402-024	Limit Switch LI80-4	x	x	x	x	x	x
8106-014	Motor - Blower 1/2 hp	x	x	x	x	x	x
8105-021	Motor - Fan 1/3 hp	x	x	x	x	x	x
8201-009	Relay - Blower	x	x	x	x		
8201-008	Relay - Blower Heat/Cool					x	x
8200-004	Motor Mount - Fan	x	x	x	x	x	x
5210-005	Strainer	x	x	x	x	x	x
8607-005	Terminal Board 24V	x	x	x	x	x	x
8607-013	Terminal Block 230V	x		x		x	x
8607-014	Terminal Block 230V		x		x	x	x
8402-032	Thermal Cuf-off	x	x	x	x	x	x
* 8407-034	Transformer 40VA	x	x	x	x	x	x
* 8407-004	Transformer - Stepdown					x	x

* Please order by model number.

* *Denotes Change.

CHART A	
42WA	49WA
35/440	40/440

Immersion Crankcase Heater



Fused Disconnect Switch

230/208-60-1

USE COPPER OR ALUMINUM WIRE

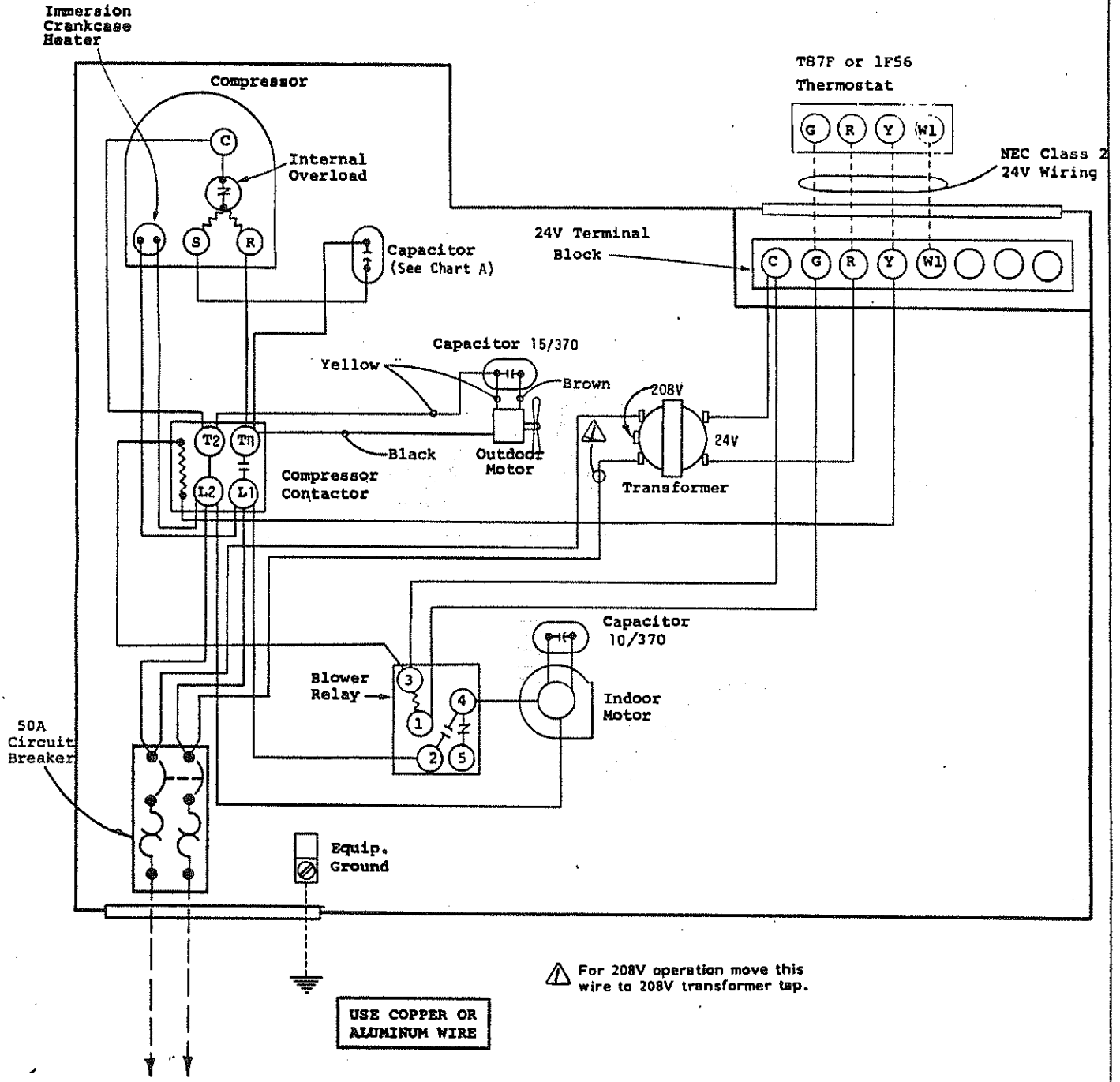
⚠ For 208V operation move this wire to 208V transformer tap.

MODEL
42WA, 49WA

Factory Wiring _____
Field Wiring - - - - -

4010-110G

CHART A	
42WA	49WA
35/440	40/440



230/208-60-1

USE COPPER OR ALUMINUM WIRE

⚠ For 208V operation move this wire to 208V transformer tap.

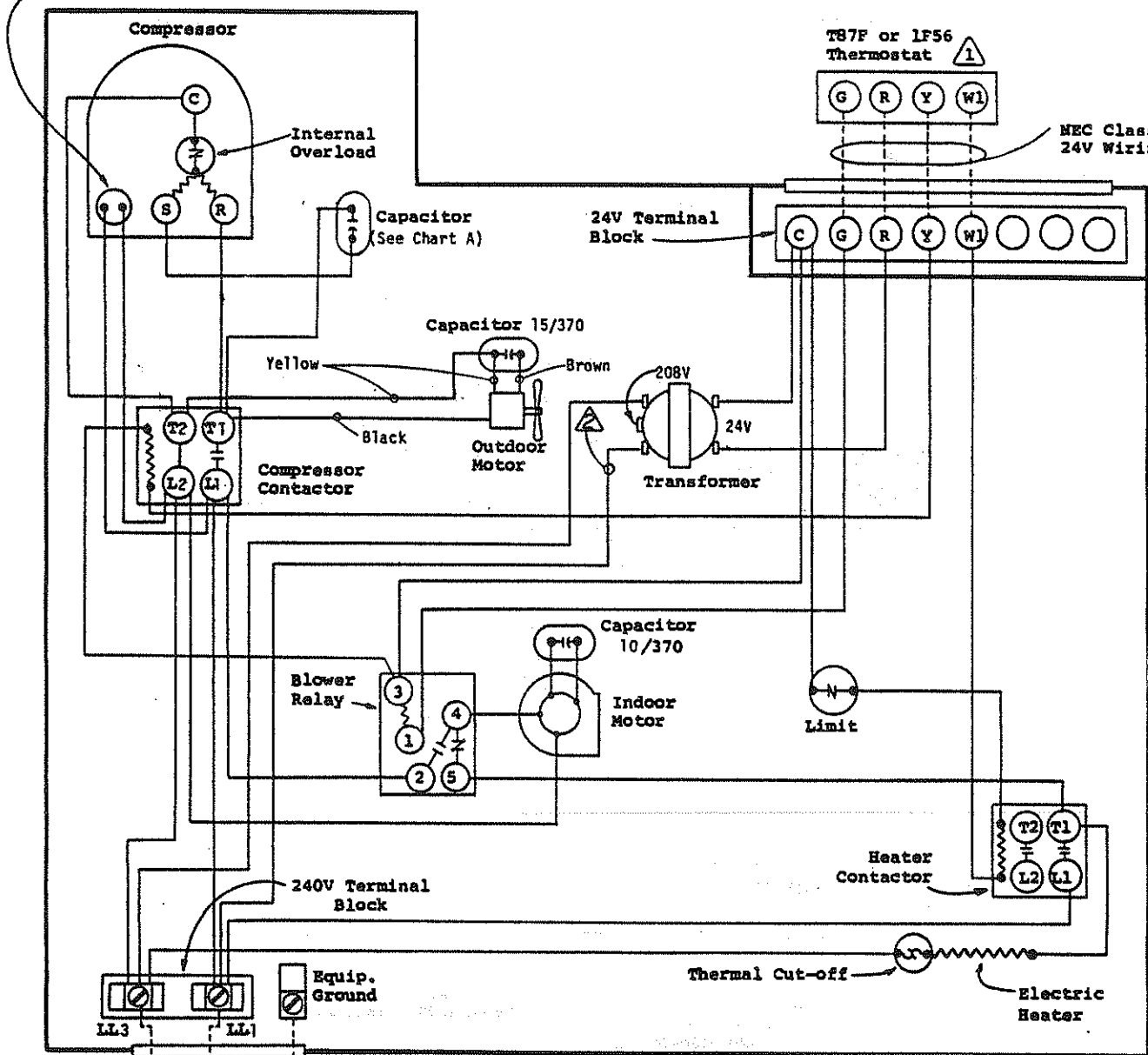
MODEL
42WA, 49WA

Factory Wiring _____
Field Wiring - - - - -

4010-111

CHART A	
42WA	49WA
35/440	40/440

Immersion
Crankcase
Heater



T87F or LF56
Thermostat

NEC Class 2
24V Wiring

24V Terminal
Block

Capacitor 15/370

Capacitor 10/370

⚠ Set heat anticipator at .40A.

⚠ For 208V operation move this wire to 208V transformer tap.

Fused
Disconnect
Switch

USE COPPER OR
ALUMINUM WIRE

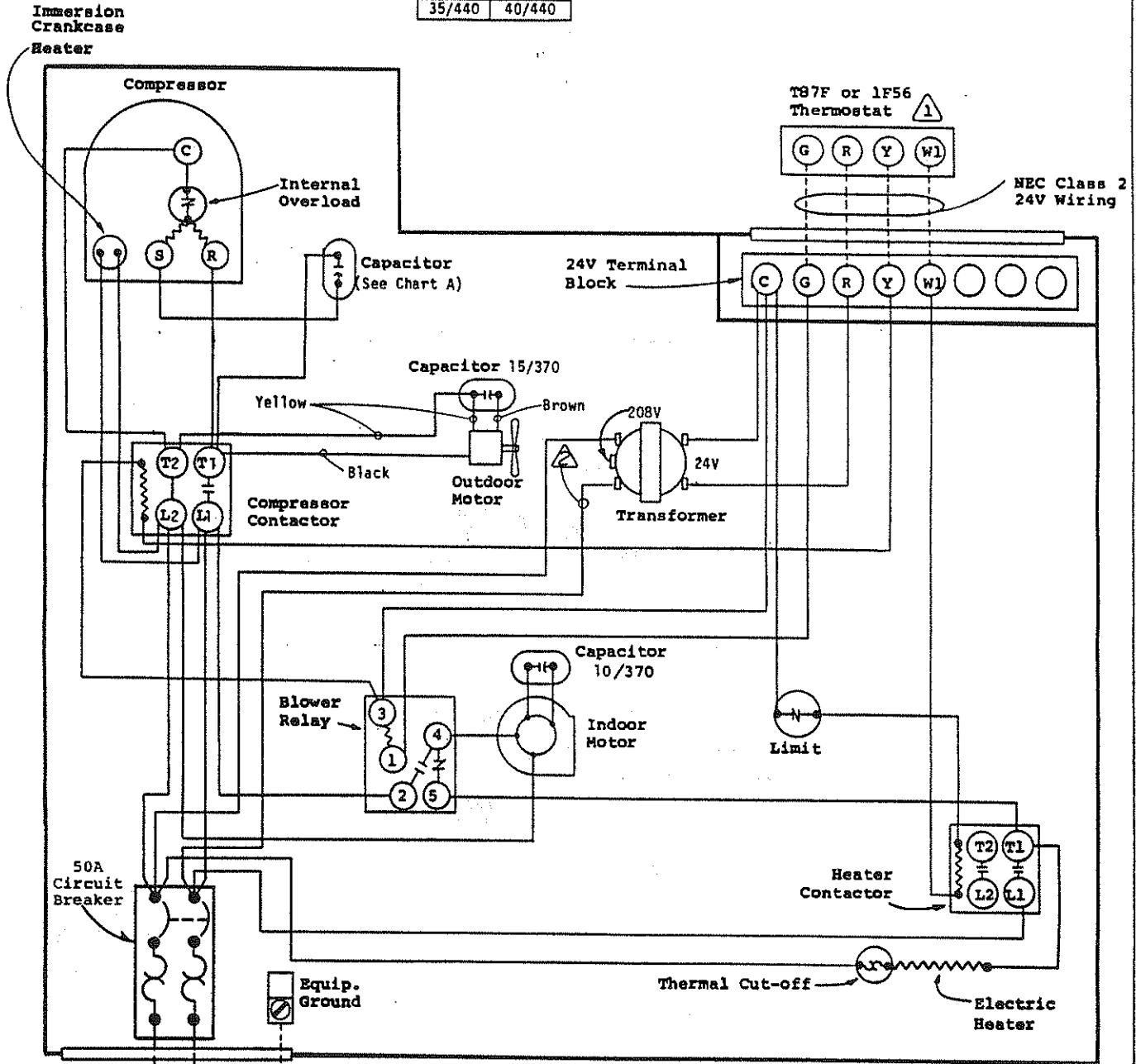
230/208-60-1

MODEL
42WA, 49WA
w/3Kw

Factory Wiring _____
Field Wiring - - - - -

4010-20G

CHART A	
42WA	49WA
35/440	40/440



- ⚠ Set heat anticipator at .40A.
- ⚠ For 208V operation move this wire to 208V transformer tap.

USE COPPER OR ALUMINUM WIRE

230/208-60-1

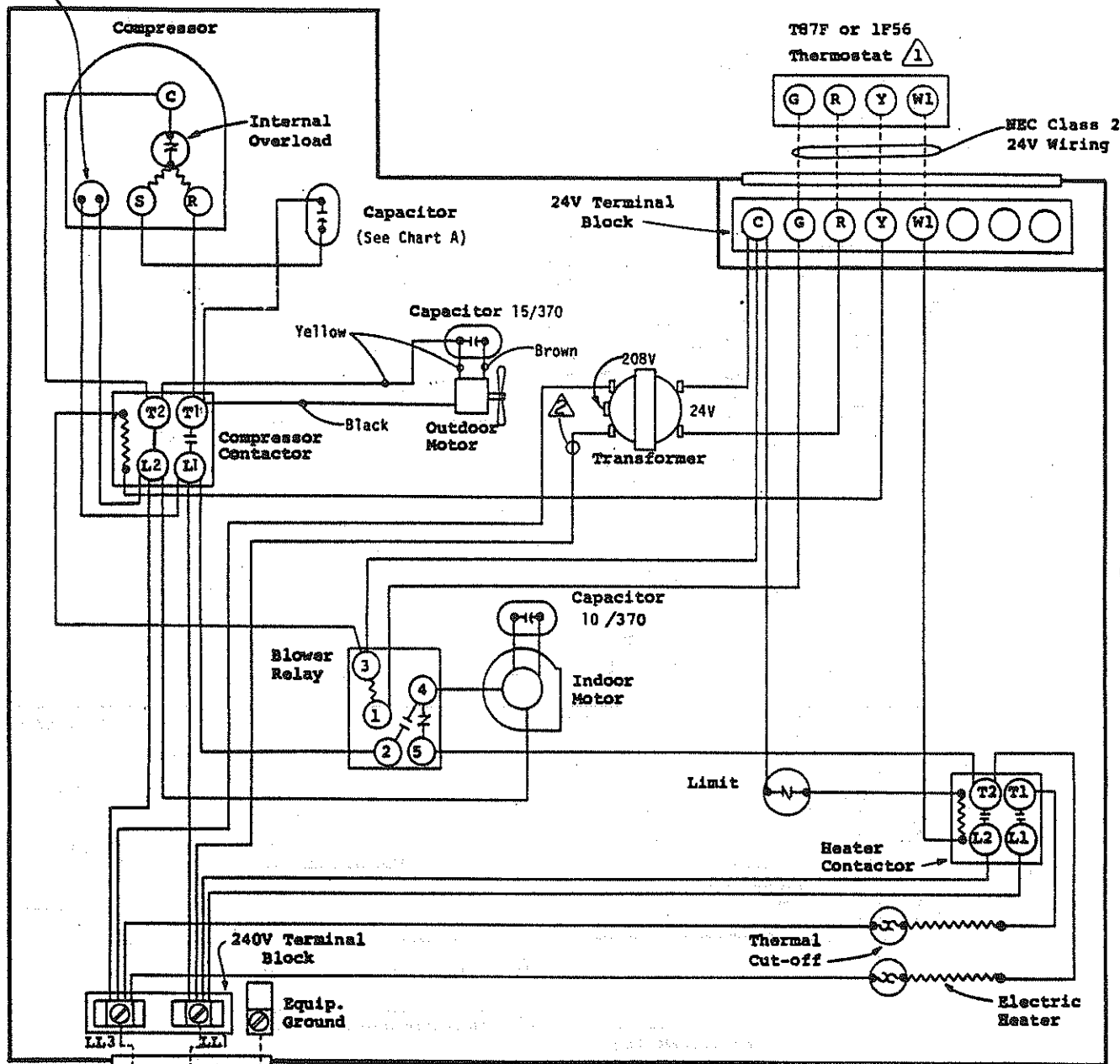
MODEL
42WA, 49WA
w/SKw

Factory Wiring _____
Field Wiring - - - - -

4010-121

CHART A	
42WA	49WA
35/440	40/440

Immersion
Crankcase
Heater



- ⚠ Set heat anticipator at .40A.
- ⚠ For 208V operation move this wire to 208V transformer tap.

Fused
Disconnect
Switch

USE COPPER OR
ALUMINUM WIRE

230/208-60-1

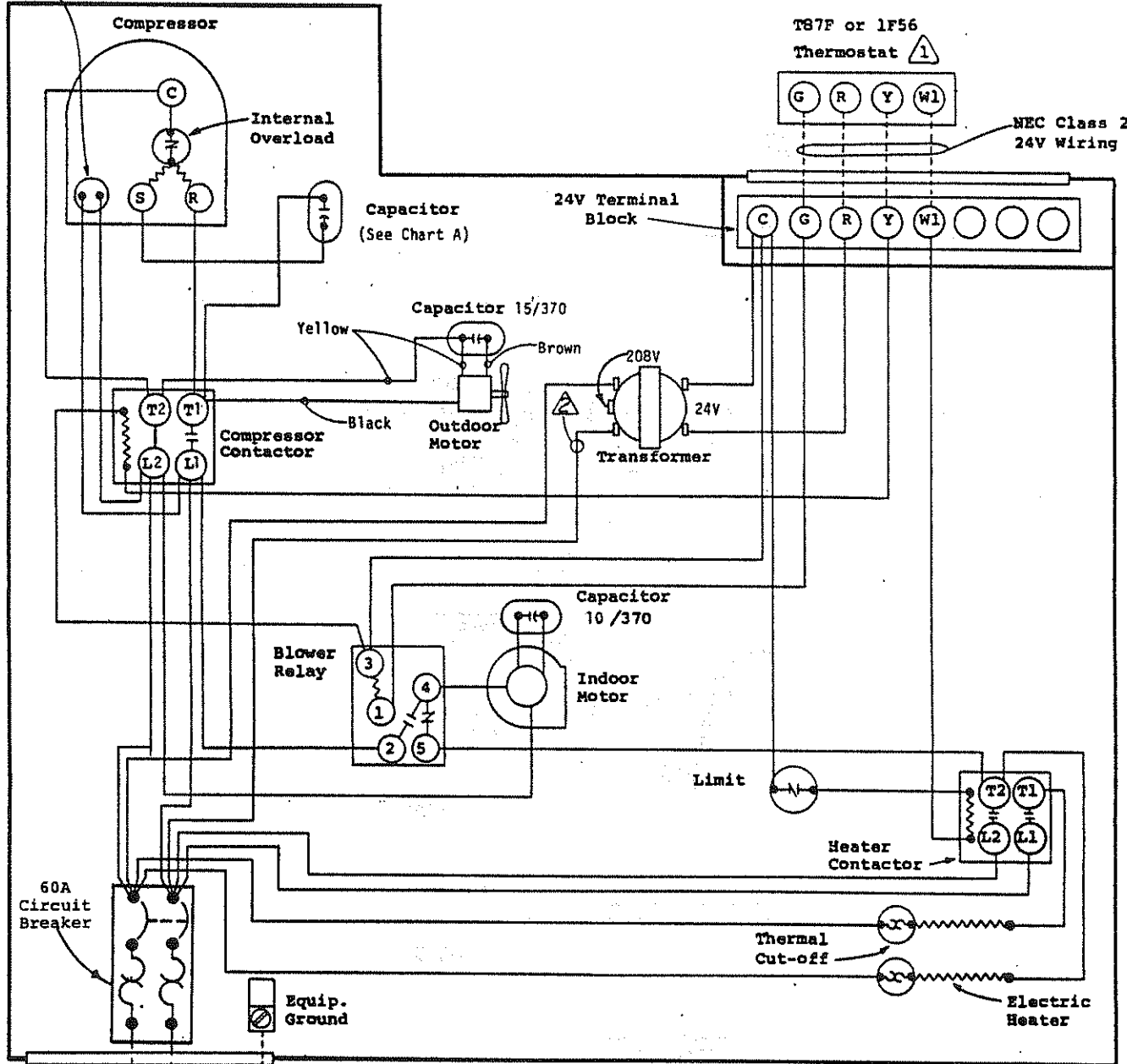
Factory Wiring ———
Field Wiring - - - - -

MODEL
42WA, 49WA
w/10KW

4010-130G

CHART A	
42WA	49WA
35/440	40/440

Immersion
Crankcase
Heater



- 1 Set heat anticipator at .40A.
- 2 For 208V operation move this wire to 208V transformer tap.

USE COPPER OR
ALUMINUM WIRE

230/208-60-1

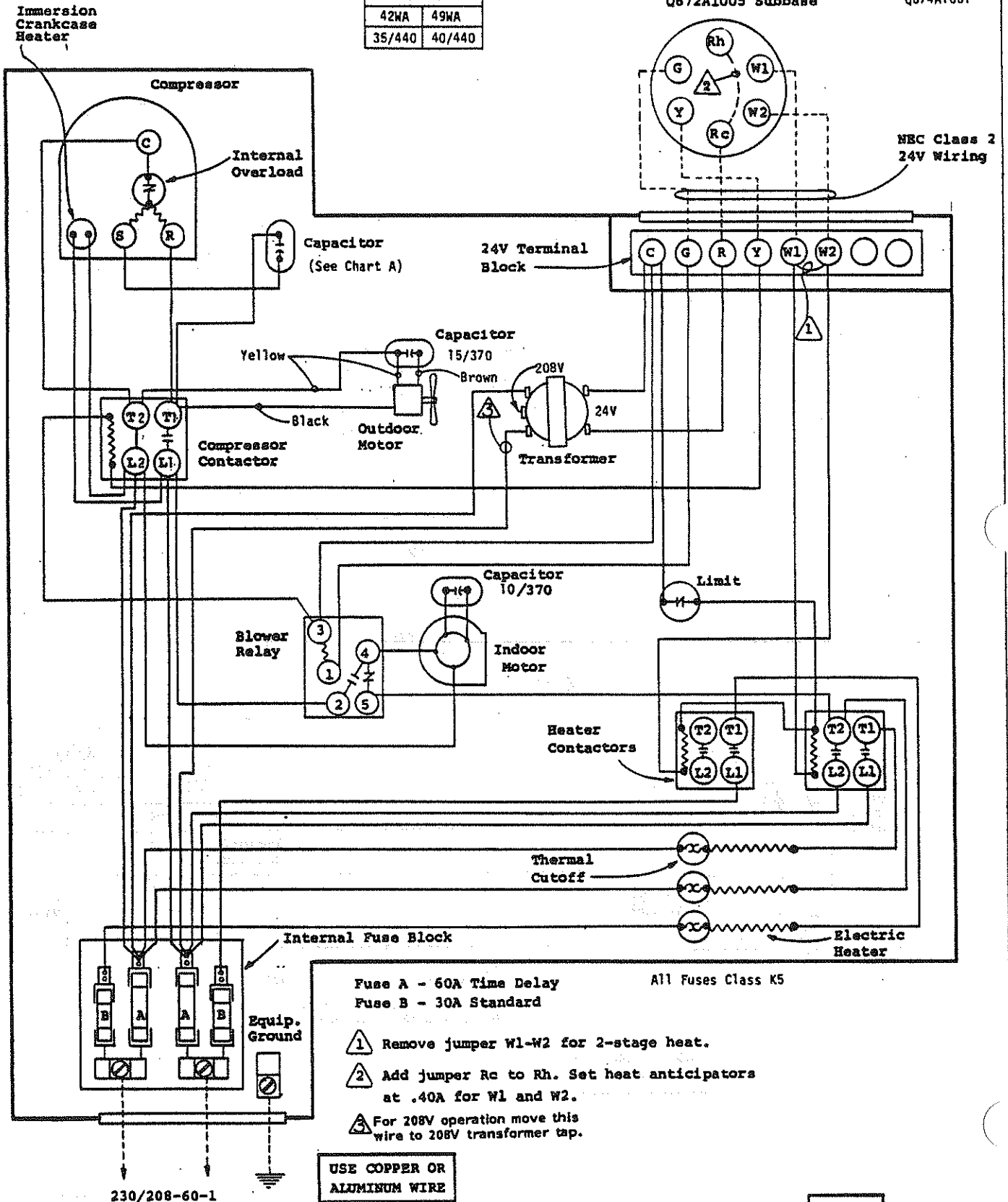
Factory Wiring ———
Field Wiring - - - - -

MODEL
42WA, 49WA
w/10Rw

4010-131

CHART A	
42WA	49WA
35/440	40/440

T872C1004 Thermostat or T874C1000
 Q672A1005 Subbase or Q674A1001



Fuse A - 60A Time Delay
 Fuse B - 30A Standard

All Fuses Class K5

- 1 Remove jumper W1-W2 for 2-stage heat.
- 2 Add jumper Rc to Rh. Set heat anticipators at .40A for W1 and W2.
- 3 For 208V operation move this wire to 208V transformer tap.

USE COPPER OR ALUMINUM WIRE

Factory Wiring _____
 Field Wiring - - - - -

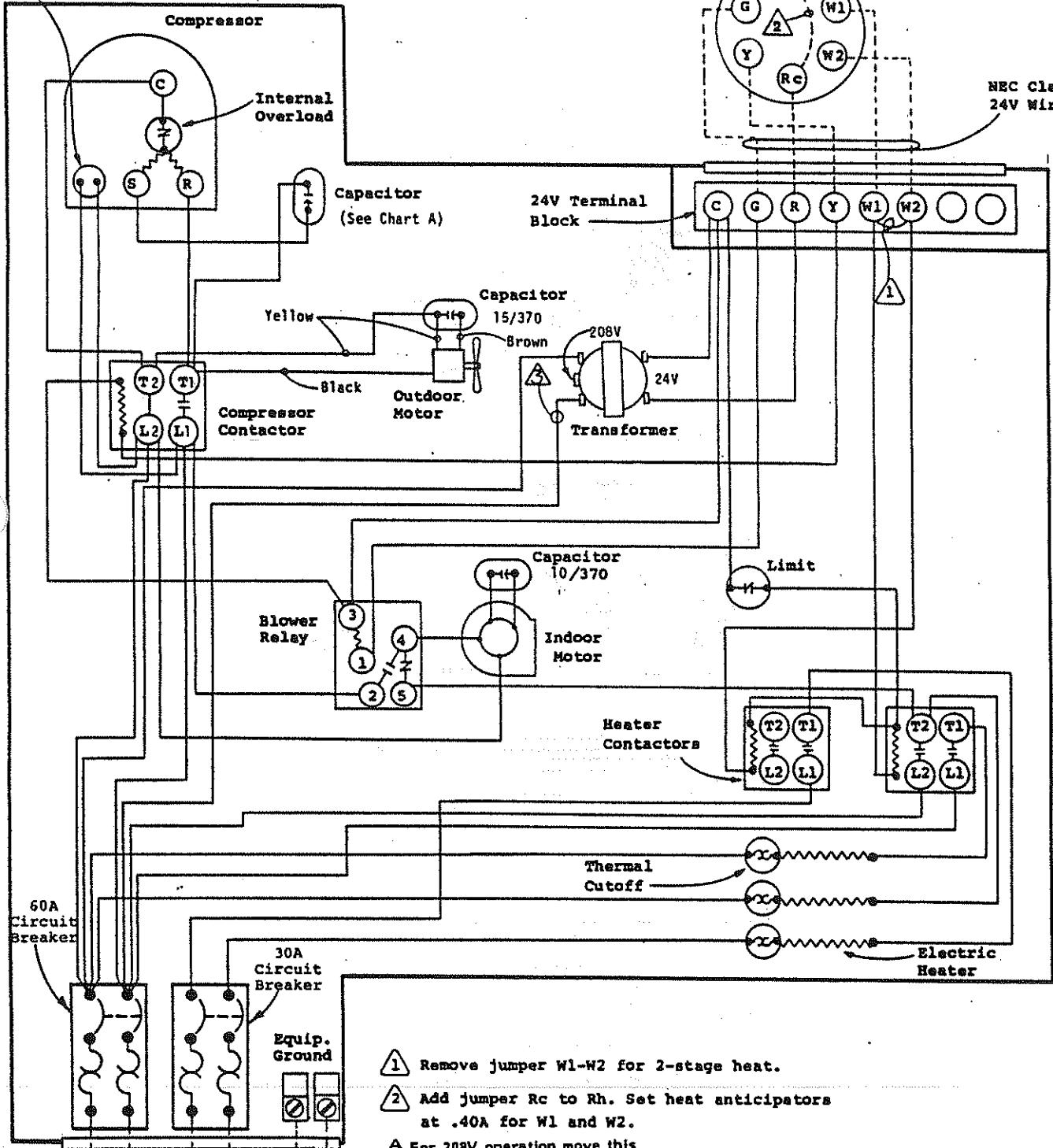
MODEL
 42WA, 49WA
 w/15Rw

4010-140H

Immersion Crankcase Heater

CHART A	
42WA	49WA
35/440	40/440

T872C1004 Thermostat
 Q672A1005 Subbase or T874C1000
 or Q674A1001



NEC Class 2
24V Wiring

- ⚠ Remove jumper W1-W2 for 2-stage heat.
- ⚠ Add jumper Rc to Rh. Set heat anticipators at .40A for W1 and W2.
- ⚠ For 208V operation move this wire to 208V transformer tap.

USE COPPER OR ALUMINUM WIRE

Factory Wiring _____
 Field Wiring - - - - -

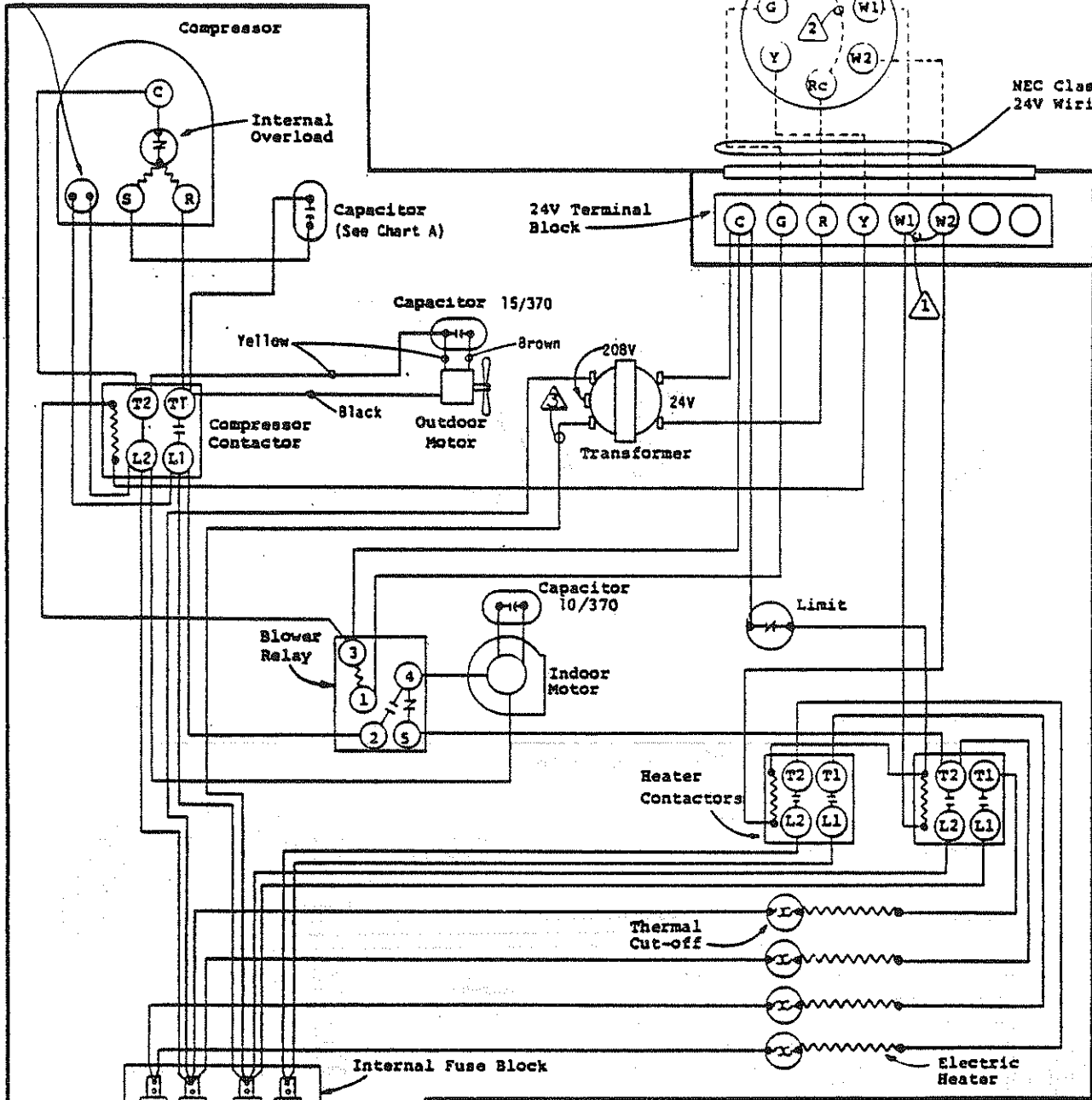
MODEL
42WA, 49WA
w/15KV

4010-141

CHART A	
42WA	49WA
35/440	40/440

T872C1004 Thermostat or T874C1000
Q672A1005 Subbase or Q674A1001

Immersion
Crankcase
Heater



230/208-60-1

USE COPPER OR
ALUMINUM WIRE

MODEL
42WA, 49WA
w/20Rw

Fuse A - 60A Time Delay
Fuse B - 60A Standard

All Fuses Class K5

- 1 Remove jumper W1-W2 for 2-stage heat.
- 2 Add jumper Rc to Rh. Set heat anticipators at .40A for W1 and W2
- 3 For 208V operation move this wire to 208V transformer tap.

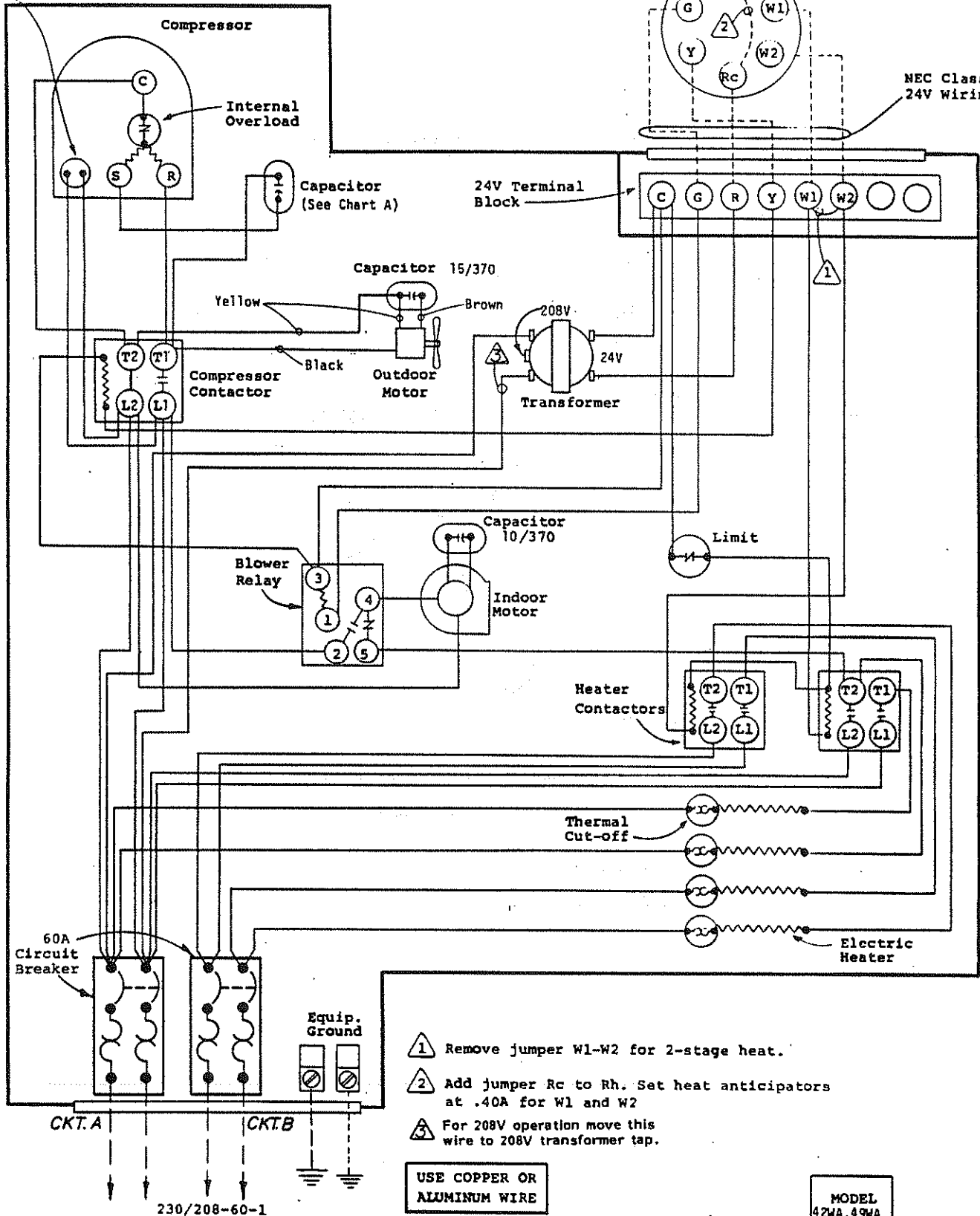
Factory Wiring ———
Field Wiring - - - - -

4010-150J

CHART A	
42WA	49WA
35/440	40/440

T872C1004 Thermostat or T874C1000
 Q672A1005 Subbase or Q674A1001

Immersion
 Crankcase
 Heater



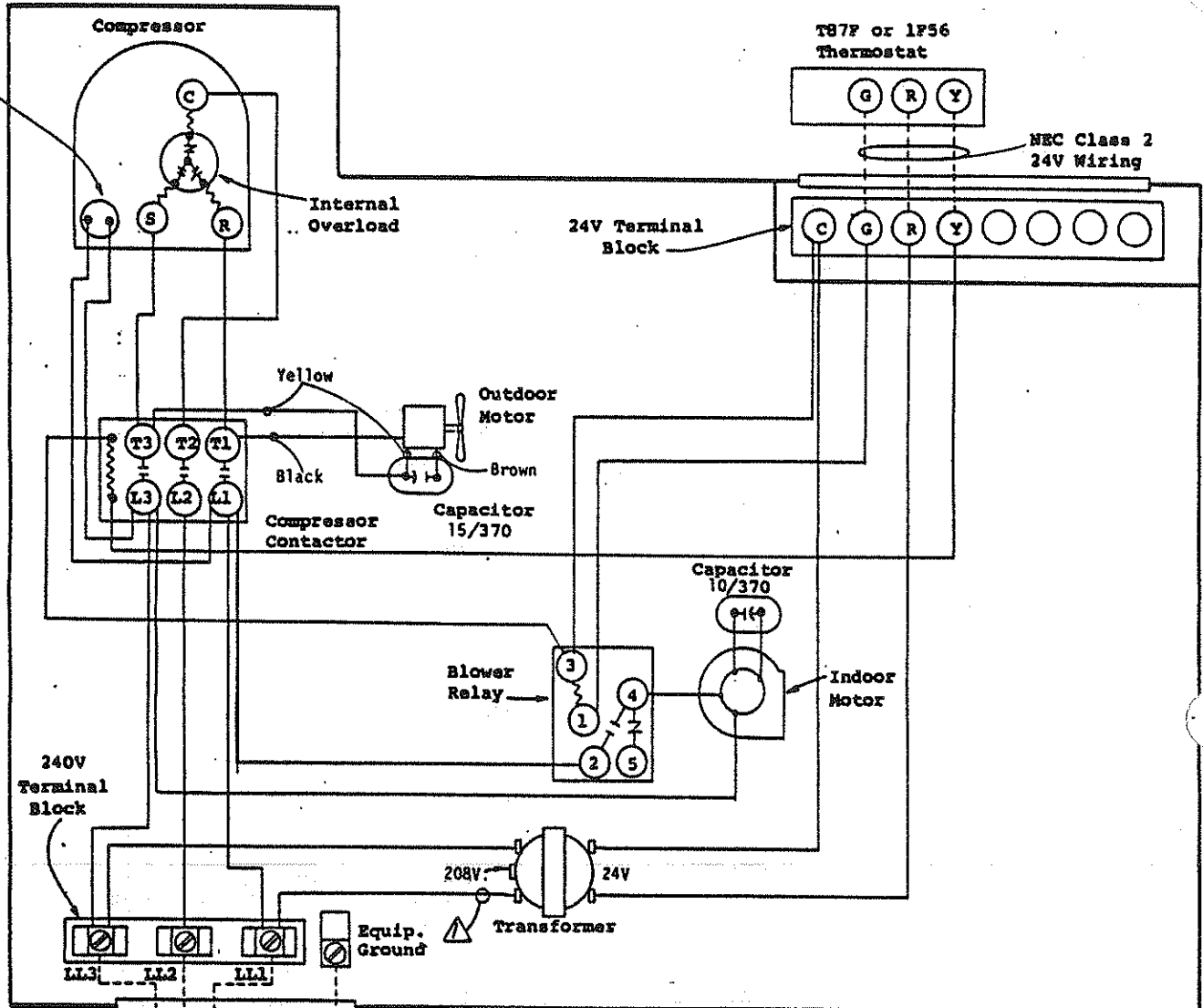
USE COPPER OR
 ALUMINUM WIRE

MODEL
 42WA, 49WA
 w/20kw

- 1 Remove jumper W1-W2 for 2-stage heat.
- 2 Add jumper Rc to Rh. Set heat anticipators at .40A for W1 and W2
- 3 For 208V operation move this wire to 208V transformer tap.

Factory Wiring _____
 Field Wiring - - - - -

Immersion
Crankcase
Heater



Fused
Disconnect
Switch

230/208-60-3

USE COPPER OR
ALUMINUM WIRE

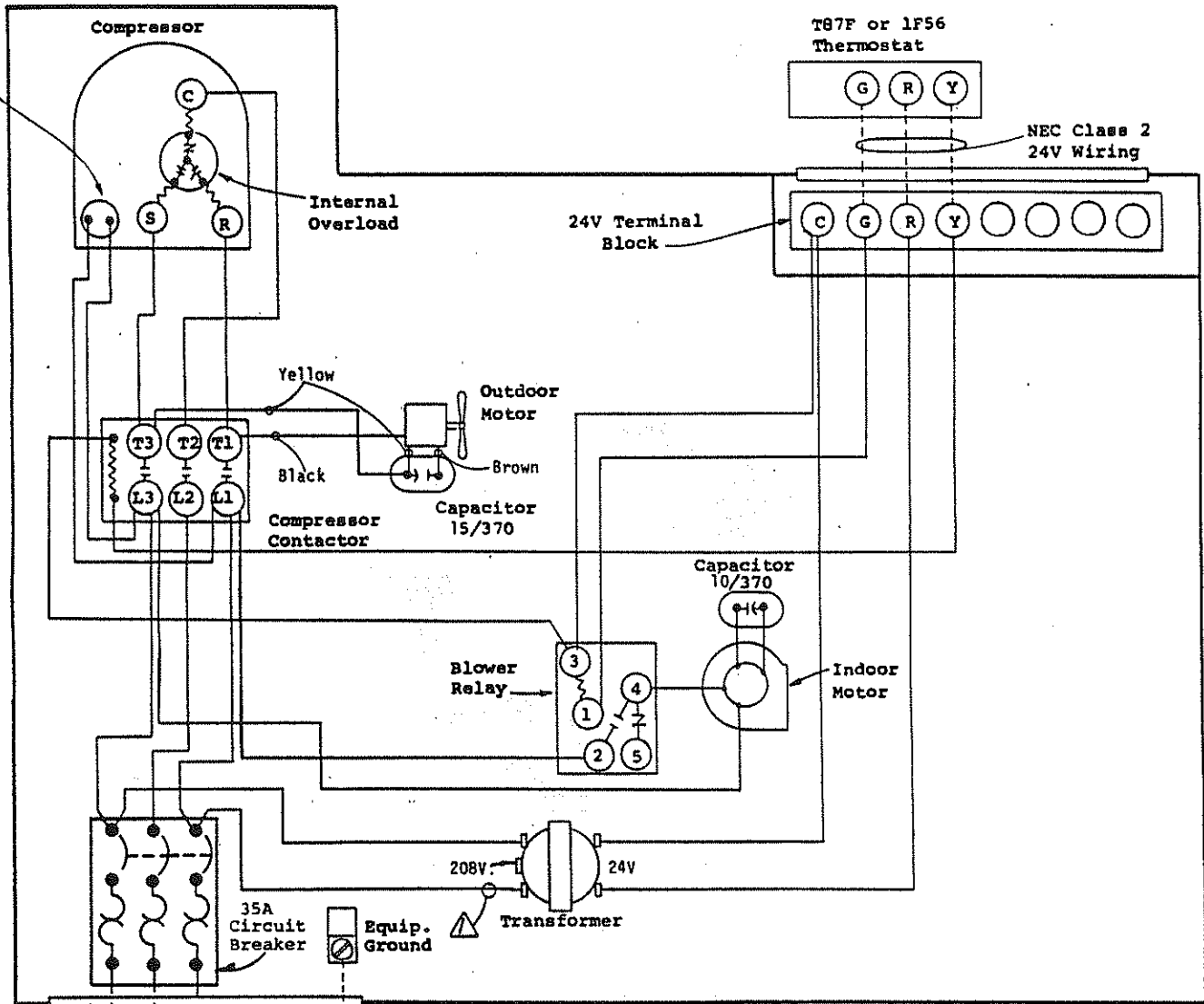
Factory Wiring ———
Field Wiring - - - - -

▲ For 208V operation move this
wire to 208V transformer top.

MODEL
42WA, 49WA

4010-210 E

Immersion
Crankcase
Heater



⚠ For 208V operation move this wire to 208V transformer tap.

Factory Wiring ———
Field Wiring - - - - -

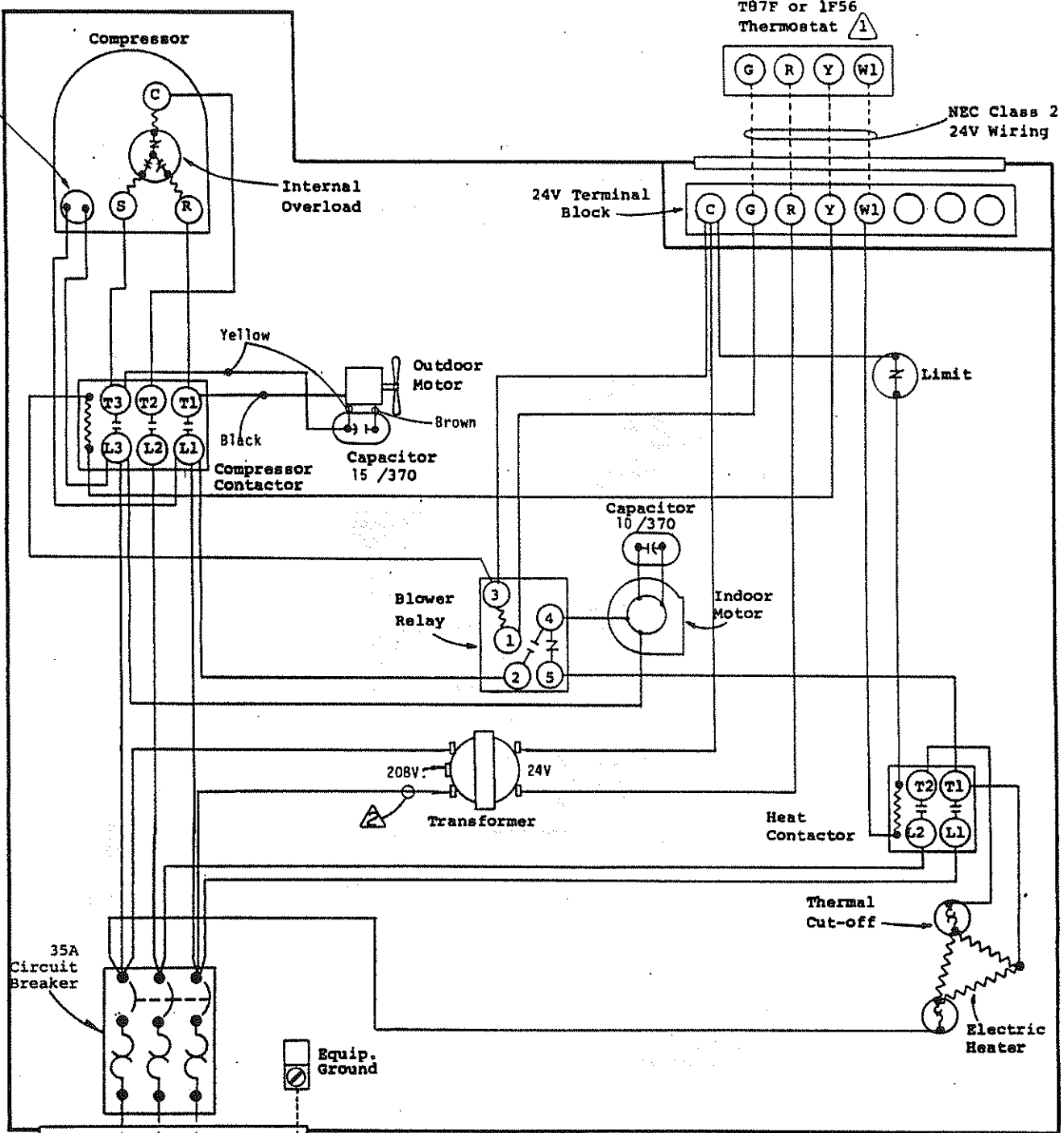
USE COPPER OR ALUMINUM WIRE

230/208-60-3

MODEL
42WA, 49WA

4010-211

Immersion
Crankcase
Heater



T87F or 1F56
Thermostat Δ
G R Y W1

NEC Class 2
24V Wiring

24V Terminal
Block

Internal
Overload

Yellow

Outdoor
Motor

Brown

Capacitor
15 / 370

Black

Compressor
Contactor

Capacitor
10 / 370

Indoor
Motor

Blower
Relay

208V 24V
Transformer

Heat
Contactor

Thermal
Cut-off

Electric
Heater

35A
Circuit
Breaker

Equip.
Ground

Δ Set heat anticipator at .40A.

Δ For 208V operation move this wire to 208V transformer tap.

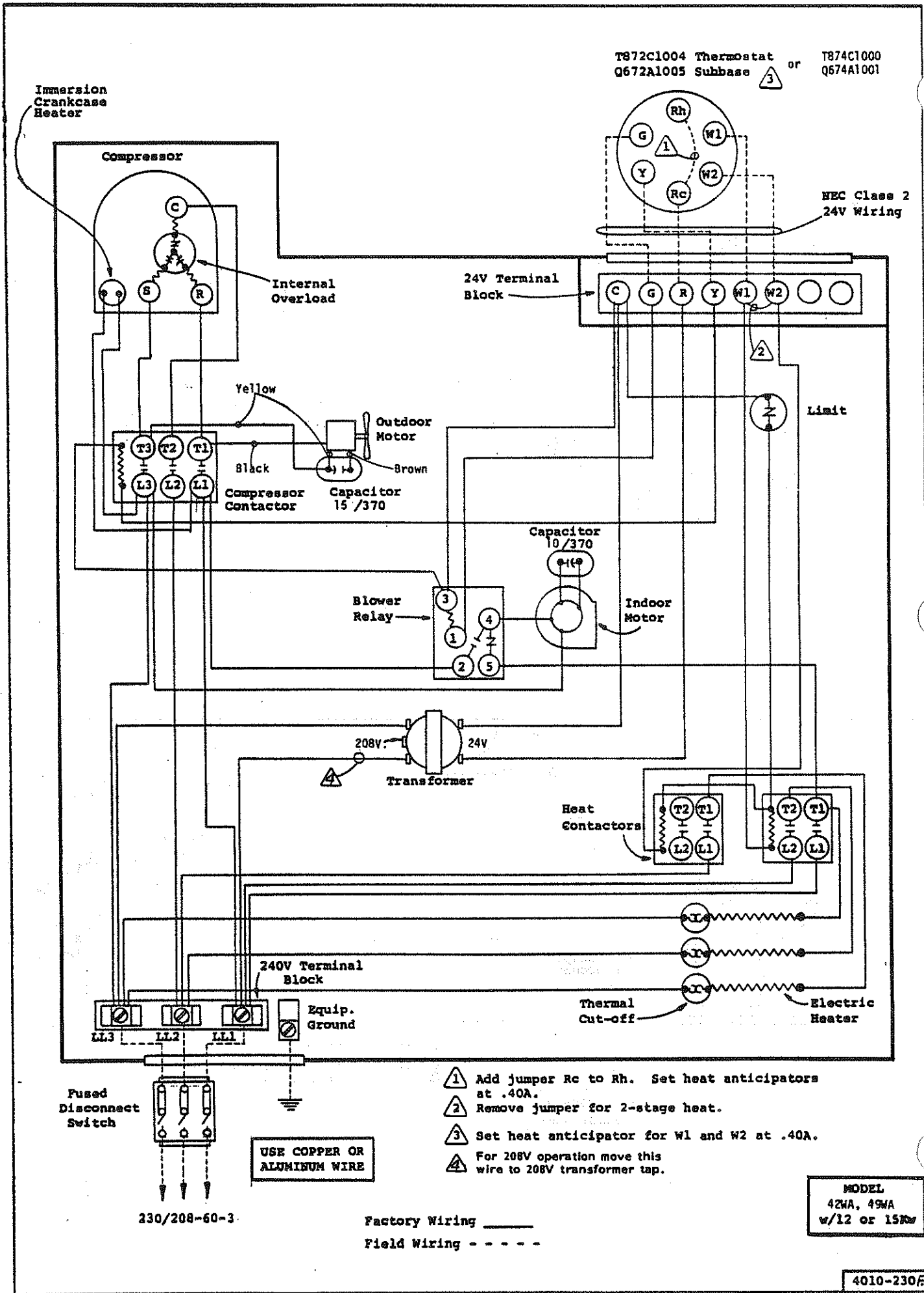
USE COPPER OR
ALUMINUM WIRE

230/208-60-3

MODEL
42WA, 49WA
w/6 or 9kw

Factory Wiring _____
Field Wiring - - - - -

4010-221



T872C1004 Thermostat or T874C1000
 Q672A1005 Subbase or Q674A1001

NEC Class 2
 24V Wiring

- 1 Add jumper Rc to Rh. Set heat anticipators at .40A.
- 2 Remove jumper for 2-stage heat.
- 3 Set heat anticipator for W1 and W2 at .40A.
- 4 For 208V operation move this wire to 208V transformer tap.

Fused Disconnect Switch

USE COPPER OR ALUMINIUM WIRE

230/208-60-3

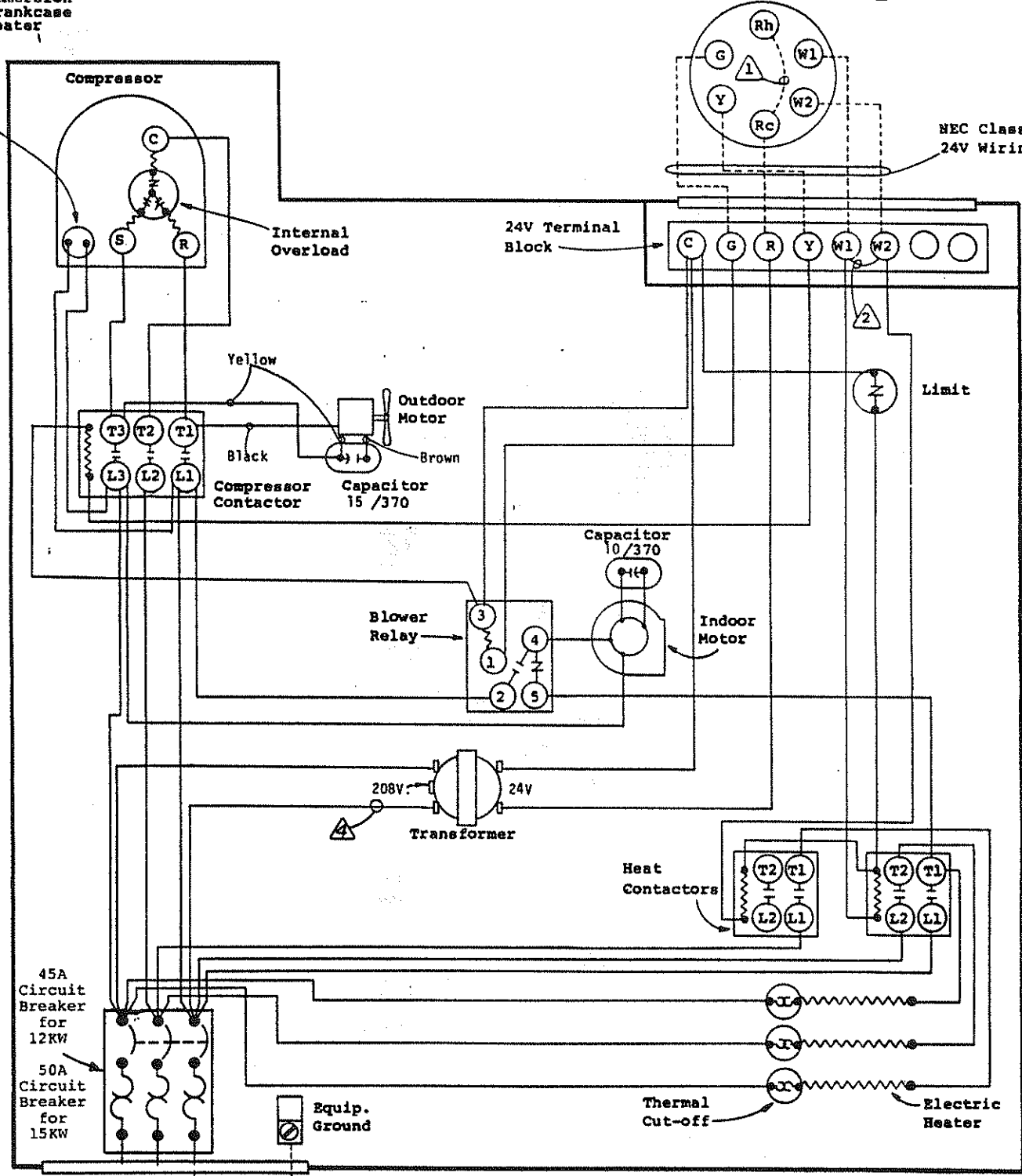
Factory Wiring _____
 Field Wiring - - - - -

MODEL
 42WA, 49WA
 w/12 or 15KW

4010-230F

T872C1004 Thermostat
 Q672A1005 Subbase  or T874C1000
 Q674A1001

Immersion
 Crankcase
 Heater



NEC Class 2
 24V Wiring

Internal
 Overload

24V Terminal
 Block

Yellow

Outdoor
 Motor

Compressor
 Contactor

Blower
 Relay

Indoor
 Motor

208V 24V
 Transformer

Heat
 Contactors





45A
 Circuit
 Breaker
 for
 12KW

50A
 Circuit
 Breaker
 for
 15KW

Equip.
 Ground

Thermal
 Cut-off

Electric
 Heater

-  Add jumper Rc to Rh. Set heat anticipators at .40A.
-  Remove jumper for 2-stage heat.
-  Set heat anticipator for W1 and W2 at .40A.
-  For 208V operation move this wire to 208V transformer tap.

USE COPPER OR
 ALUMINUM WIRE

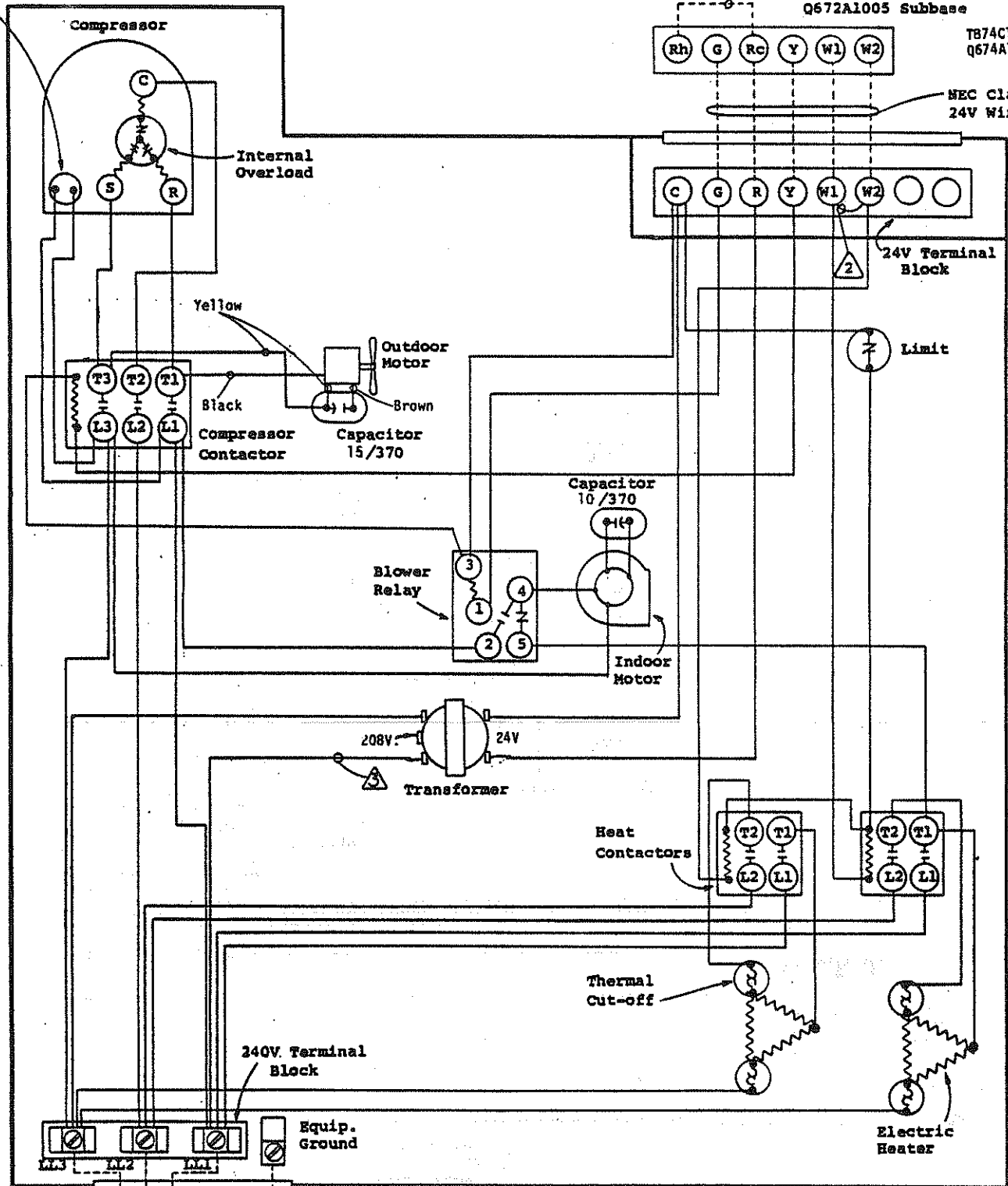
230/208-60-3

Factory Wiring _____
 Field Wiring - - - - -

MODEL
 42WA, 49WA
 w/12 or 15KW

4010-231

Immersion
Crankcase
Heater



T872C1004 Thermostat
Q672A1005 Subbase or
T874C1000
Q674A1001

NEC Class 2
24V Wiring

24V Terminal
Block

Yellow

Black
Compressor
Contactor

Outdoor
Motor
Capacitor
15/370

Capacitor
10/370

Blower
Relay

Indoor
Motor

208V 24V
Transformer

Heat
Contactors

240V Terminal
Block

Equip.
Ground

Thermal
Cut-off

Electric
Heater

Fused
Disconnect
Switch

230/208-60-3

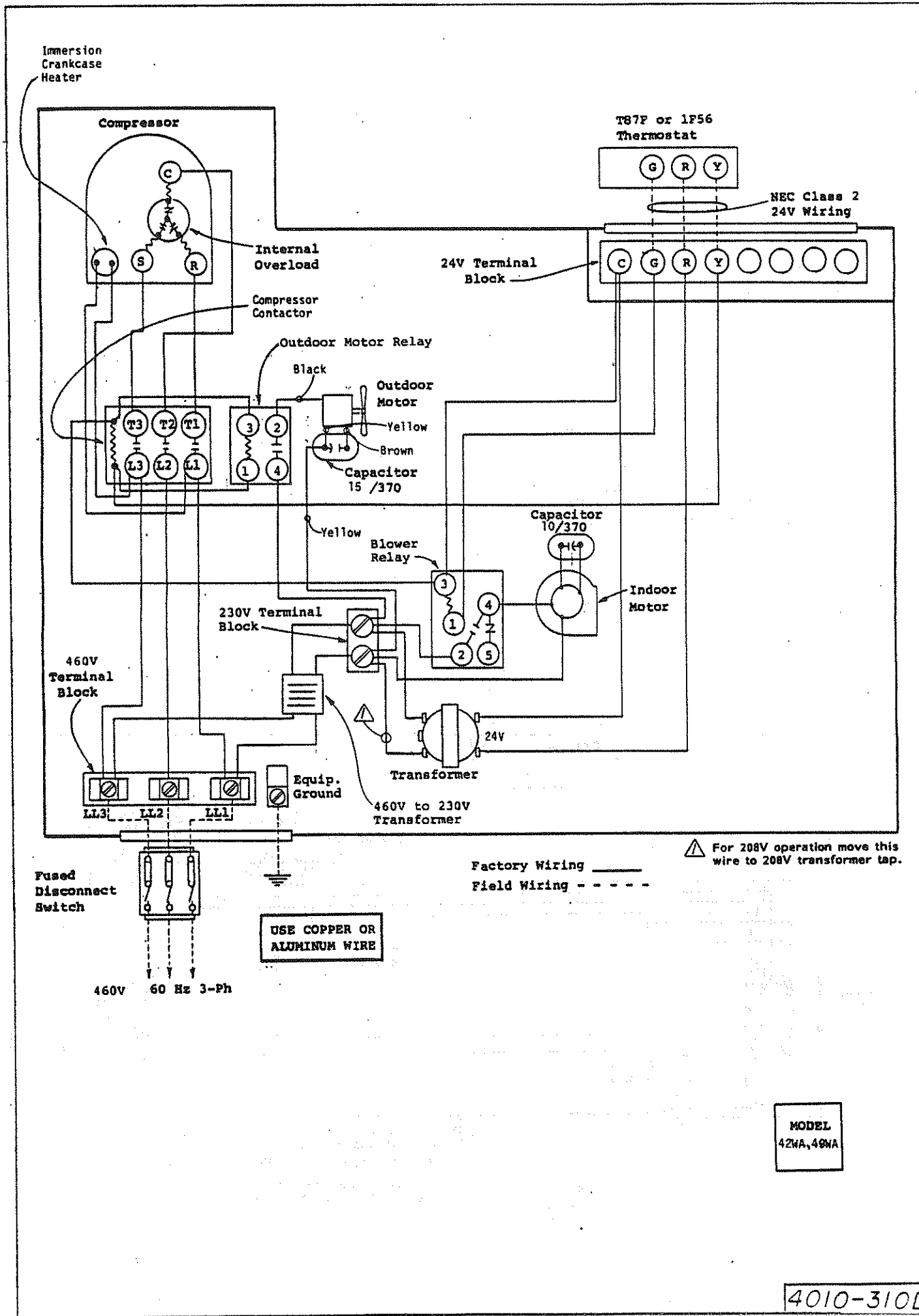
USE COPPER OR
ALUMINUM WIRE

Factory Wiring ———
Field Wiring - - - -

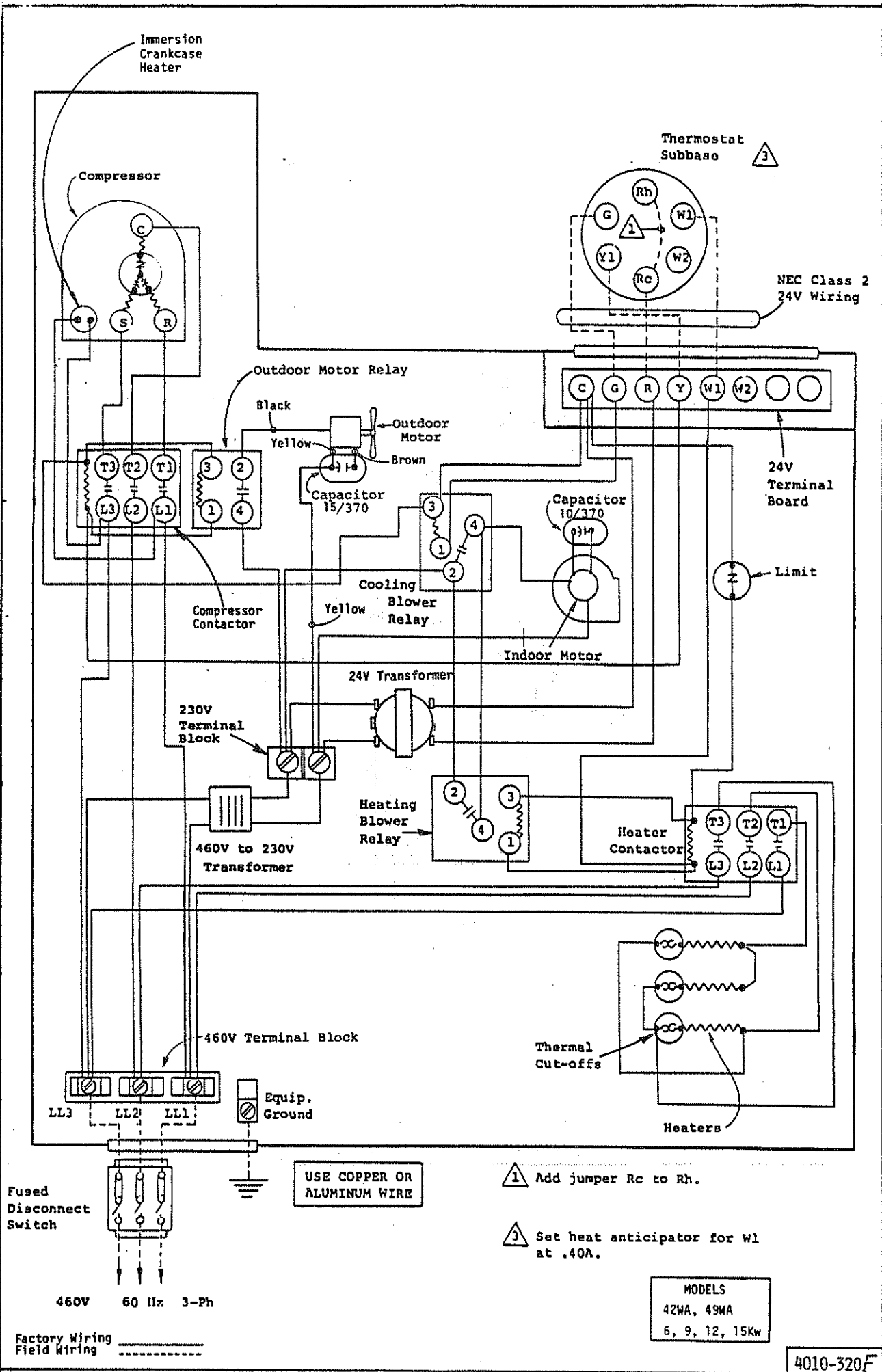
- 1 Add jumper Rc to Rh. Set heat anticipators at .40A for W1 and W2.
- 2 Remove jumper W1-W2 for 2-stage heat.
- 3 For 208V operation move this wire to 208V transformer tap.

MODEL
42WA, 49WA
w/18Rw

4010-240 F



MODEL
42WA, 48NA



Immersion Crankcase Heater

Compressor

Thermostat Subbase



NEC Class 2 24V Wiring

Outdoor Motor Relay

Black

Yellow

Outdoor Motor

Brown

Capacitor 15/370

Capacitor 10/370

24V Terminal Board

Limit

Compressor Contactor

Cooling Blower Relay

Indoor Motor

24V Transformer

230V Terminal Block

460V to 230V Transformer

Heating Blower Relay

Heater Contactor

460V Terminal Block

Equip. Ground

Thermal Cut-offs

Heaters

LL3 LL2 LL1

USE COPPER OR ALUMINUM WIRE

△ Add jumper Rc to Rh.

△ Set heat anticipator for W1 at .40A.

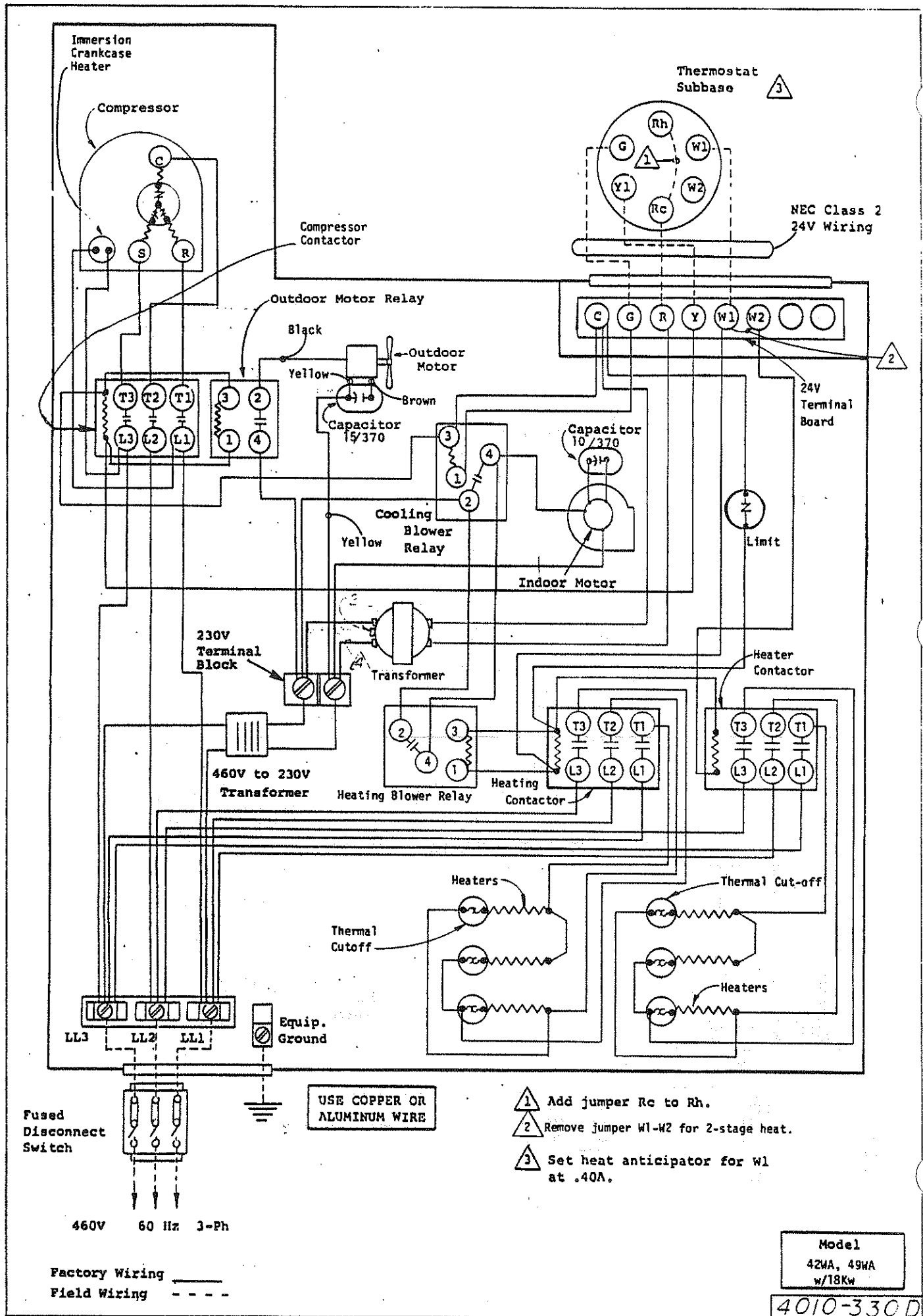
Fused Disconnect Switch

460V 60 Hz 3-Ph

MODELS
42WA, 49WA
6, 9, 12, 15Kw

Factory Wiring _____
Field Wiring - - - - -

4010-320F



Immersion Crankcase Heater

Compressor

Compressor Contactor

Thermostat Subbase

NEC Class 2 24V Wiring

Outdoor Motor Relay

Black

Outdoor Motor

Yellow

Capacitor 15/370

Brown

Capacitor 10/370

Cooling Blower Relay

Yellow

Indoor Motor

230V Terminal Block

Transformer

Limit

Heater Contactor

460V to 230V Transformer

Heating Blower Relay

Heating Contactor

Heaters

Thermal Cut-off

Thermal Cutoff

Heaters

Equip. Ground

LL3

LL2

LL1

Fused Disconnect Switch

USE COPPER OR ALUMINUM WIRE

- 1 Add jumper Rc to Rh.
- 2 Remove jumper W1-W2 for 2-stage heat.
- 3 Set heat anticipator for W1 at .40A.

460V 60 Hz 3-Ph

Factory Wiring ———
Field Wiring - - - - -

Model
42WA, 49WA
w/18Kw

4010-330D