

# COMMERCIAL SPLIT SYSTEM KITS AND ACCESSORIES

506952-02  
10/2022

## T3EH SERIES UNITS

### INSTALLATION INSTRUCTIONS FOR T3EH SERIES ELECTRIC HEAT SECTIONS USED WITH EL072-240XA, ELA 072-240 AND TAA 072-240 SERIES UNITS

#### Shipping and Packing List

Package 1 of 1 contains:

- 1 – Assembled electric heat section
- 1 – Bag assembly containing 16 sheet-metal screws
- 1 – Plastic bushing
- 3 – Wiring diagrams

#### WARNING

Improper installation, adjustment, alteration, service or maintenance can cause property damage, personal injury or loss of life. Installation and service must be performed by a licensed professional HVAC installer or equivalent, service agency, or the gas supplier.

#### CAUTION

As with any mechanical equipment, contact with sharp sheet metal edges can result in personal injury. Take care while handling this equipment and wear gloves and protective clothing.

#### WARNING



Electric Shock Hazard! – Disconnect all power supplies before servicing.  
Replace all parts and panels before operating.  
Failure to do so can result in death or electrical shock.

#### Requirements

Installation of electric heat sections must conform with standard in National Fire Protection Association (NFPA) Standard for Installation of Air Conditioning and Ventilation Systems NFPA No. 90A, Standard for the Installation of Residence Type Warm Air Heating and Air Conditioning System NFPA No. 90B, manufacturer's installation instructions and local municipal building codes.

Wiring must conform to the current National Electric Code ANSI/NFPA No. 70, or Canadian Electric Code Part I, CSA Standard C22.1, and local building codes. Refer to following wiring diagrams. See unit nameplate for minimum circuit ampacity and maximum over-current protection size.

Select the proper supply circuit conductors in accordance with tables 310-16 and 310-17 in the National Electric Code, ANSI/NFPA No. 70 or tables 1 through 4 in the Canadian Electric Code, Part I, CSA Standard C22.1.

#### Application

T3EH series heat sections are used as primary heaters for EL072-240XA, ELA 072-240 and TAA 072-240 series units. T3EH heat sections may be installed in either upflow or horizontal air discharge applications as illustrated in figures 4 through 8. The T3EH units are designed for indoor use only.

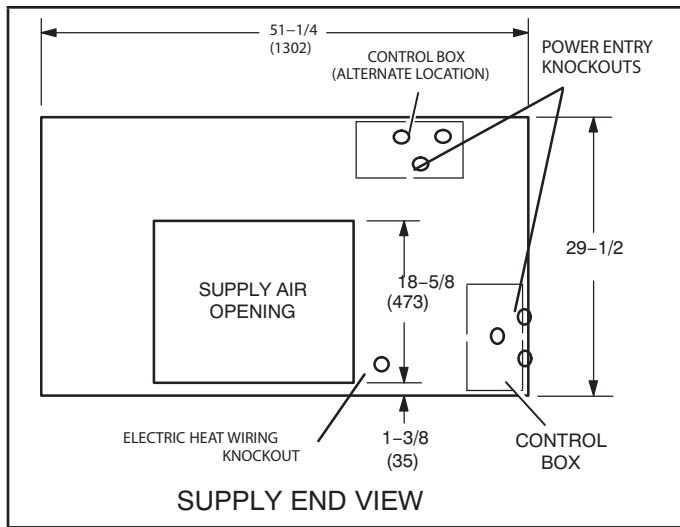
#### Installation

- 1 - If the air handler unit has been previously installed, remove the duct from the supply air side of the blower coil unit.
- 2 - If the air handler unit has not been installed, attach the supply side duct flanges provided with the air handler.
- 3 - Remove the blower access panel.
- 4 - Remove the blower coil knockout located beside the supply air blower opening. TAA location is shown in figures 1 through 3.
- 5 - Install plastic bushing into knockout.
- 6 - Align the electric heat section unit with the air handler unit. Align the grommet on the T3EH with the knockout as illustrated in figures 4 and 5 for the TAA units and figures 6 through 8 for the ELA/ELXA units.

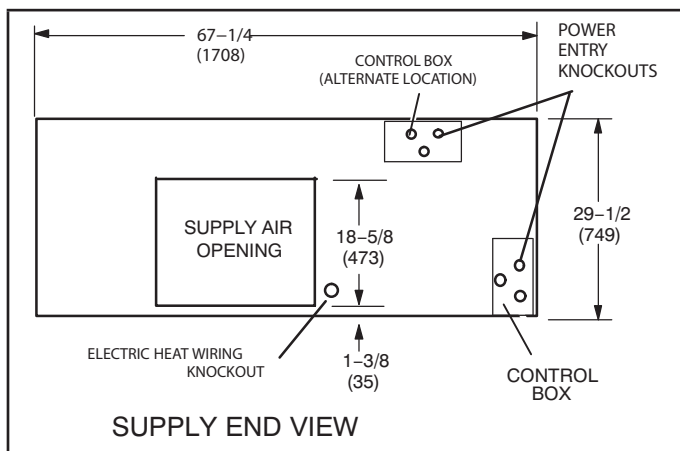
**NOTE** - Refer to figures 10 through 17 for TAA Series wiring. Refer to figures 18 through 25 for ELA Series wiring. Refer to figures 26 through 33 for ELXA Series wiring.

- 7 - Route the electric heat wiring through the grommet and knockout bushing to the coil blower control box as illustrated in figure 9.
- 8 - Insert bottom flange of electric heater inside the supply duct flanges. Use the provided screws to secure the two cabinets together.

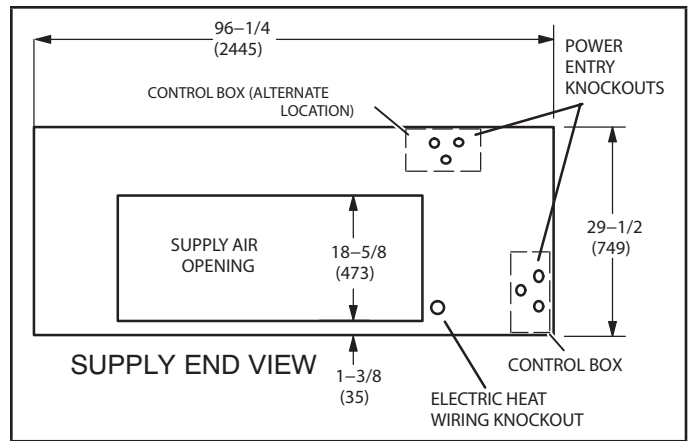




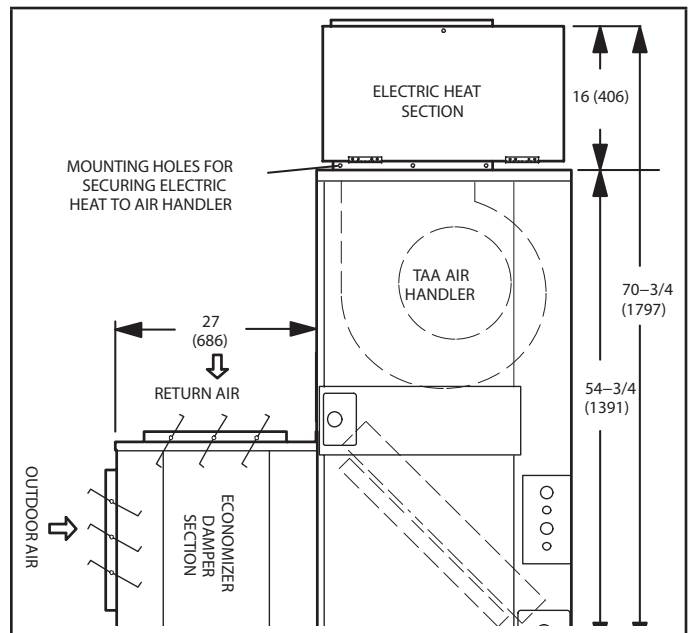
**FIGURE 1. TAA 072 and 090 Knockout Location - Dimensions - inches (mm)**



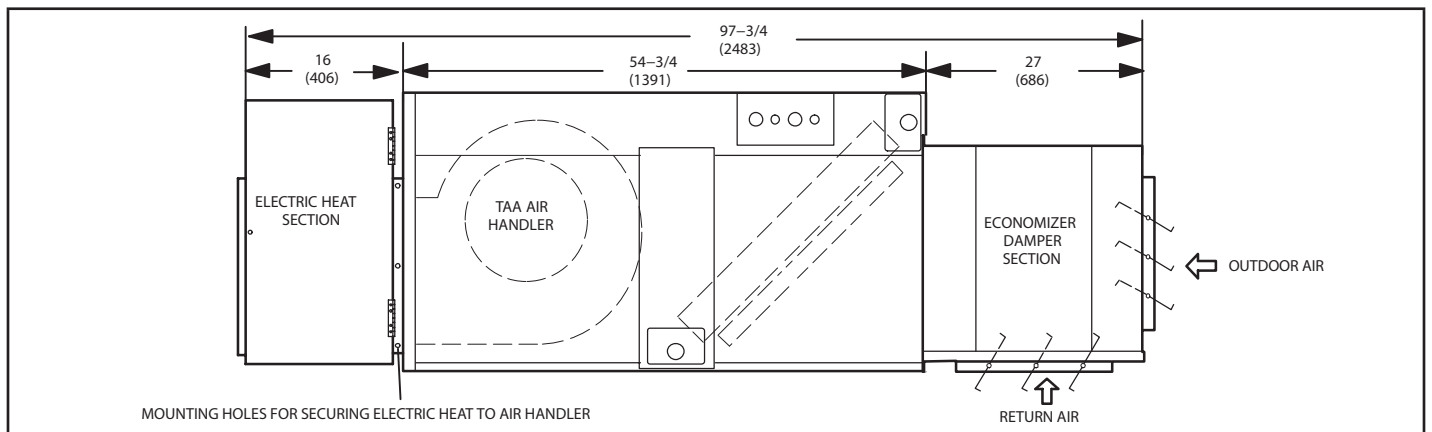
**FIGURE 2. TAA 120 and 150 Knockout Location - Dimensions - inches (mm)**



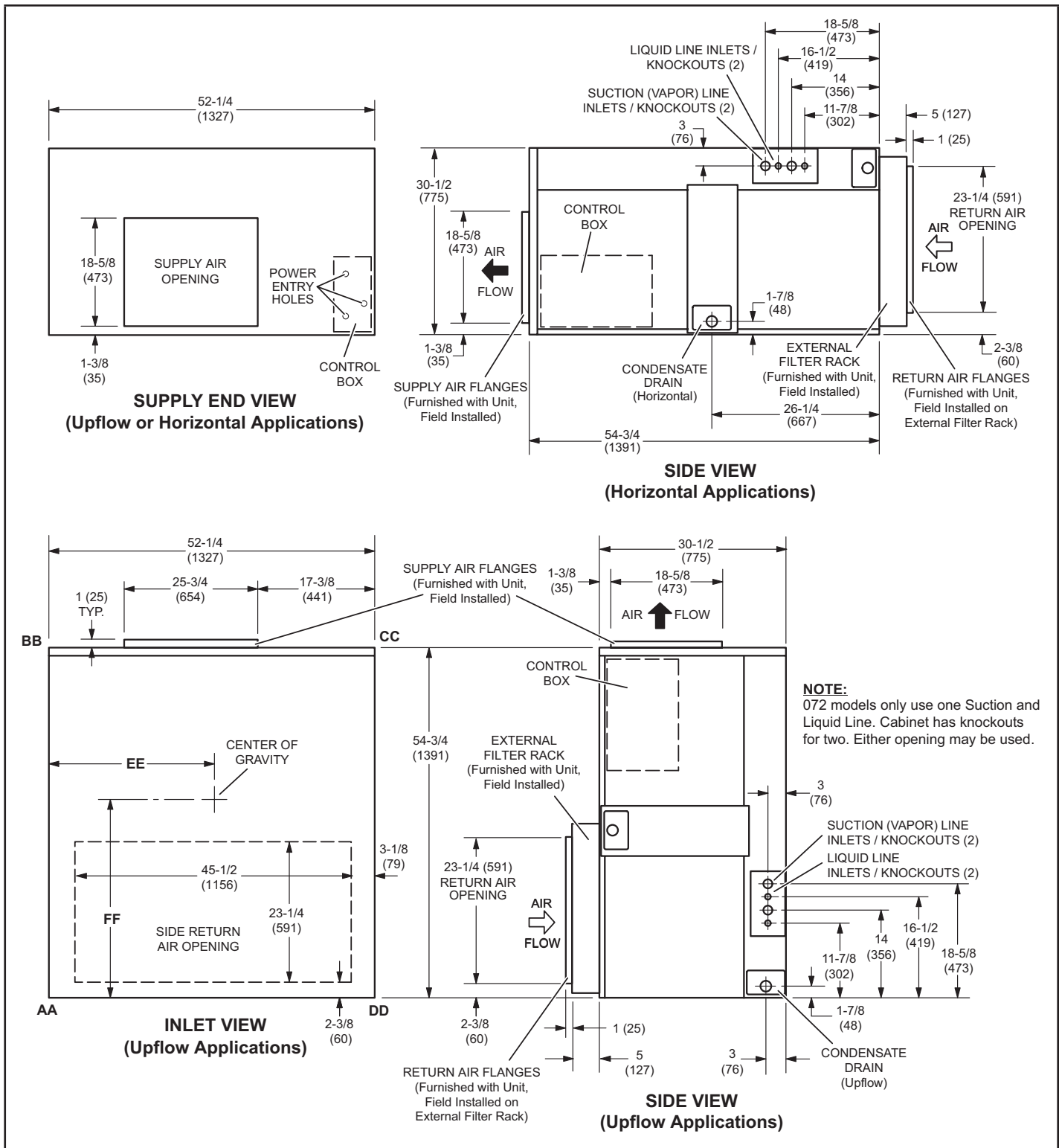
**FIGURE 3. TAA 180 and 240 Knockout Location - Dimensions - inches (mm)**



**FIGURE 4. TAA Upflow Application - Dimensions - inches (mm)**



**FIGURE 5. TAA Horizontal Application - Dimensions - inches (mm)**



**FIGURE 6. EL072-090XA and ELA 072-090 Unit Dimensions – inches (mm)**

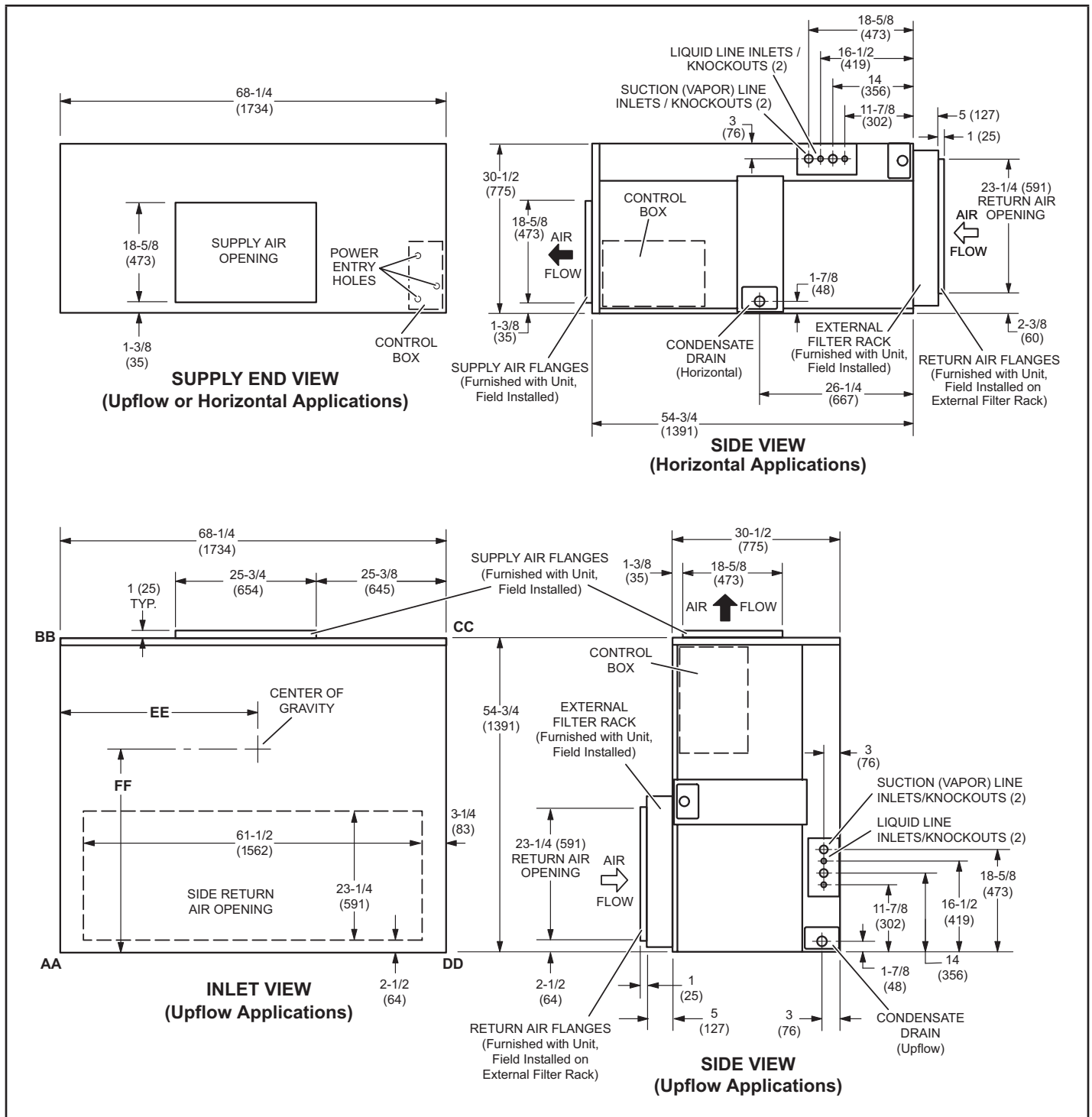


FIGURE 7. EL120-150XA and ELA 120-150 Unit Dimensions – inches (mm)

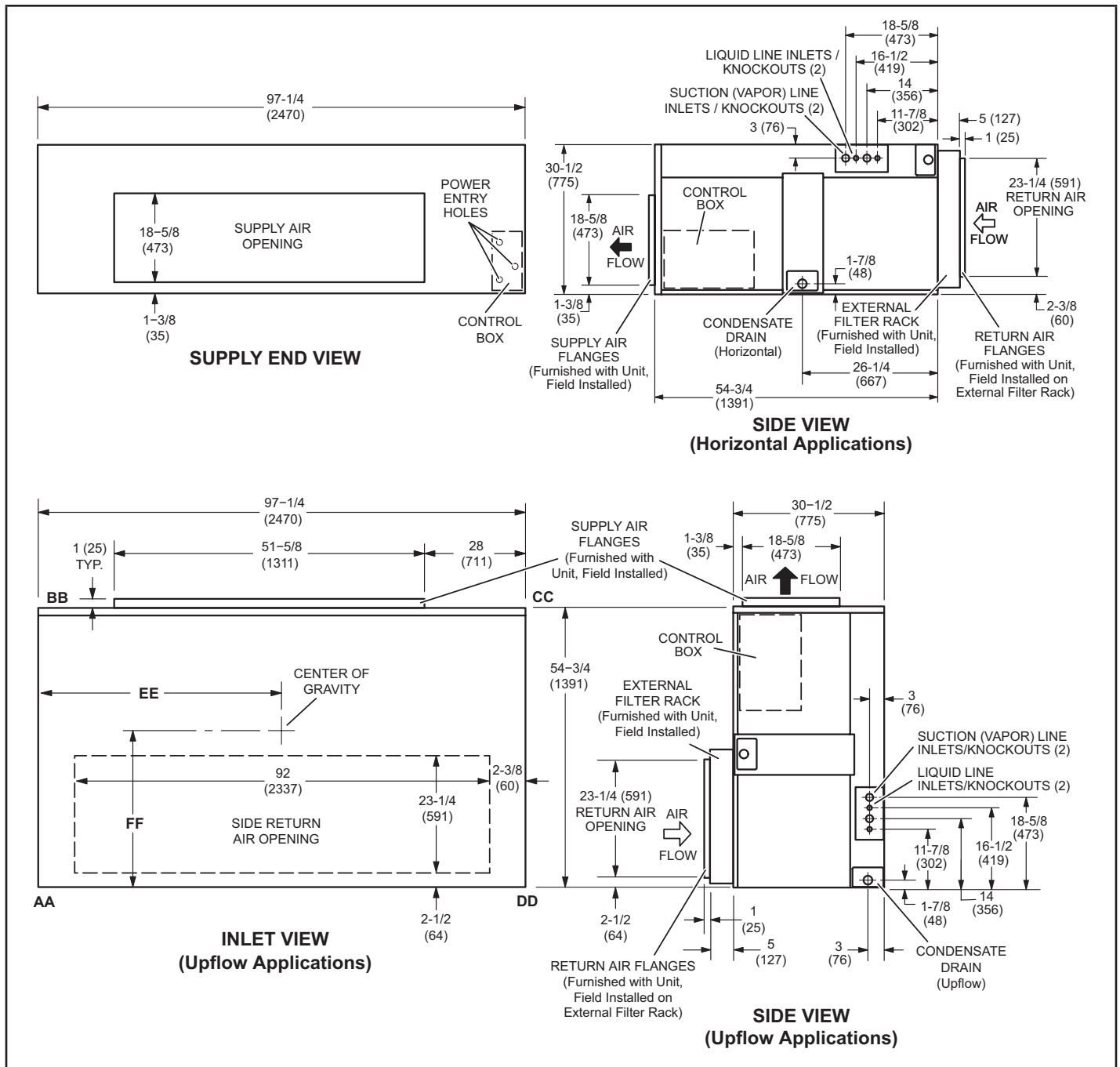
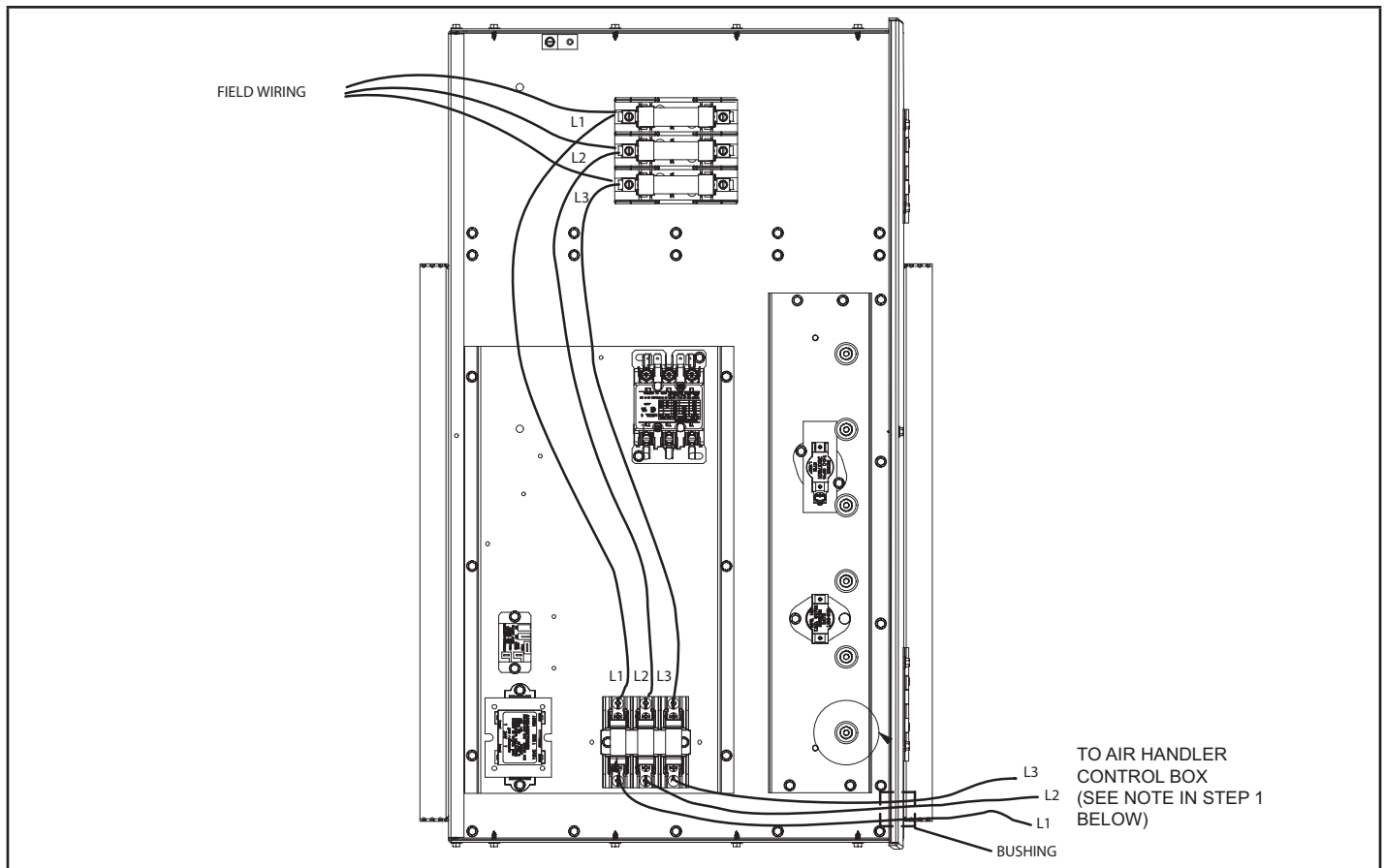


FIGURE 8. EL180-240XA and ELA 180-240 Unit Dimensions – inches (mm)



**FIGURE 9. Typical Wire Routing**

### Electrical Connections

If you install the T3EH with an existing ELXA/ELA/TAA, you must change the power supply wiring if it is not already sized to carry the blower and electric heat load.

Remove the original power supply wires or disconnect the power source.

- 1 - The T3EH heat section contains the blower motor wiring harness and sub-fusing. Route the blower motor harness from the electric heat section through the knockout into the blower unit, and into the wiring makeup box.

**NOTE** - Route to K3 for TAA Series units and to TB13 for ELA072-240/EL072-240XA Series units.

- 2 - See figures 10 through 33 for proper wiring. The T3EH electric heat section includes provisions for high and low voltage field wiring.
- 3 - Route the low voltage wiring from the electric heater to the low voltage terminal strip in the ELXA/ELA/TAA unit. Refer to wiring diagrams provided with the T3EH unit for details on wiring with a heat pump or AC.

### Blower Speed Requirements

T3EH electric heat applications require specific blower air volumes. To determine unit CFM, refer to the ELXA/ELA/TAA series installation instruction.

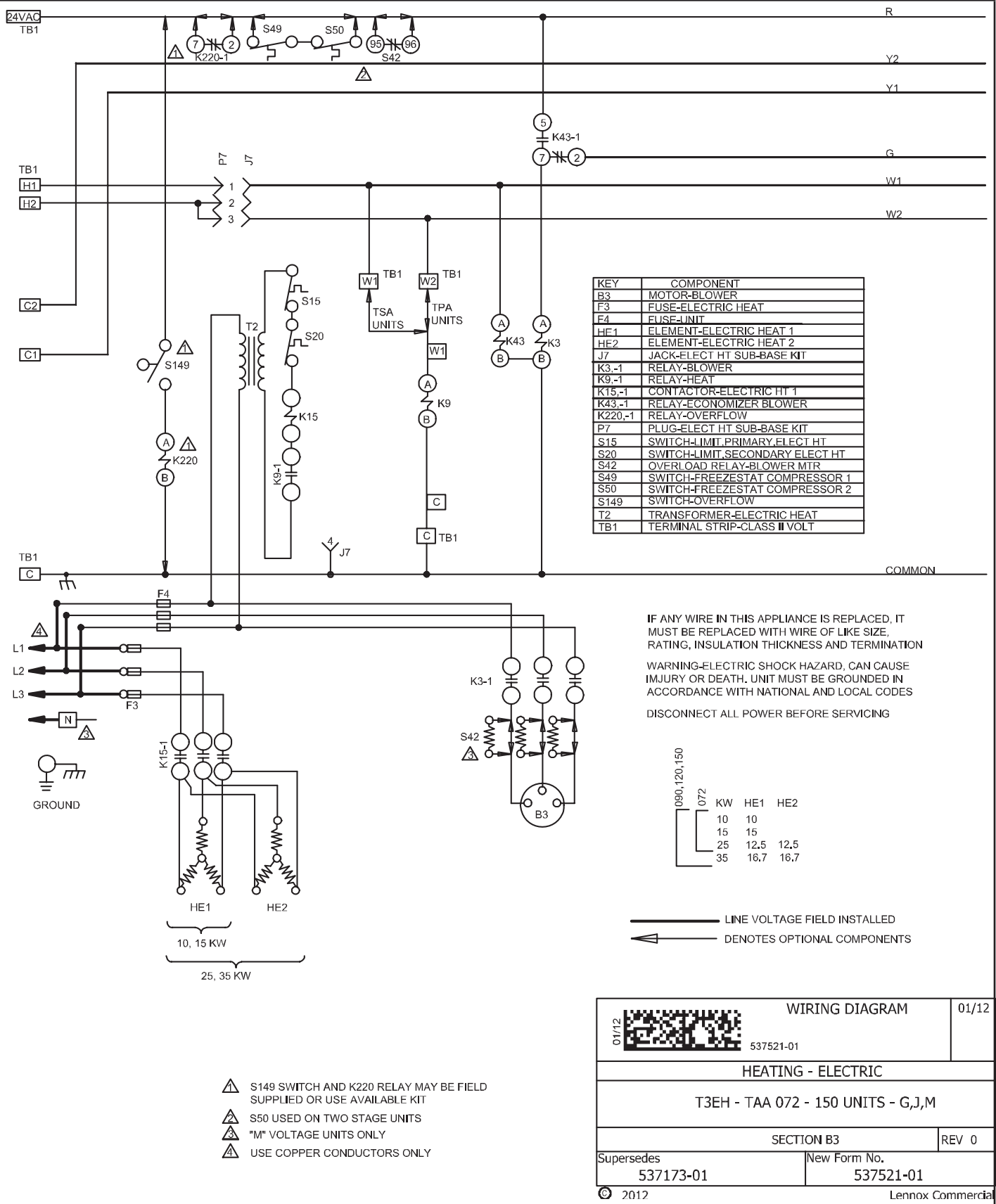
### Duct Connections

Refer to the ELXA/ELA/TAA series installation instruction and the ELXA/ELA/TAA heater installed nameplate for the proper duct connections and clearances.


### Unit Start-Up (Heating Cycle)

Set the room sensor for the proper HEAT or AUTO operation, if you use a switching subbase. Close the disconnect switch and position the heat setpoint above room temperature.

# Wiring Diagrams



**FIGURE 10. T3EH-10, 15, 25 and 35 (G, J and M Voltages) for use with TAA 072 through 150**

01/12	 WIRING DIAGRAM 537521-01	01/12
		HEATING - ELECTRIC
T3EH - TAA 072 - 150 UNITS - G,J,M		
SECTION B3		REV 0
Supersedes 537173-01	New Form No. 537521-01	
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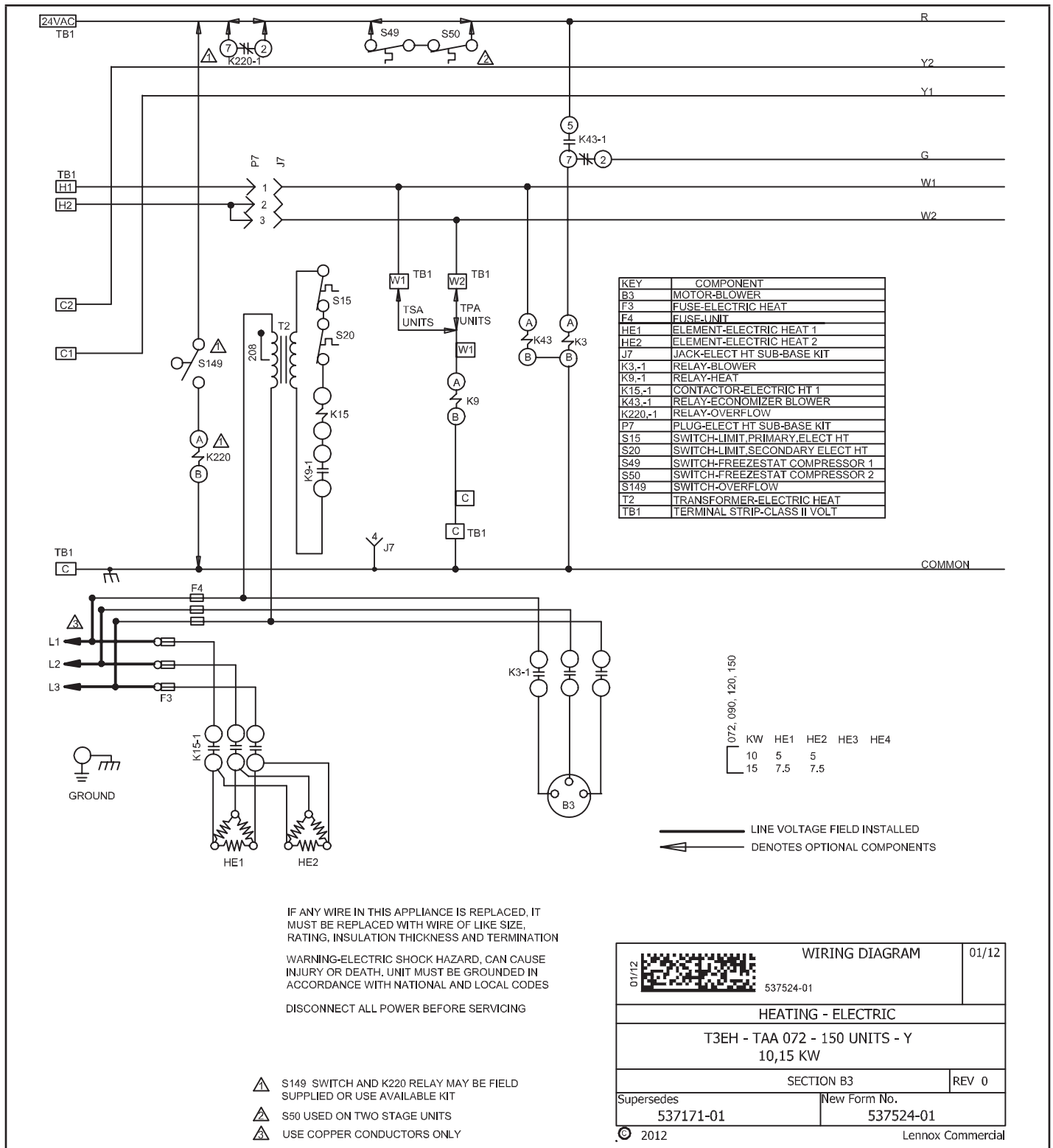


FIGURE 11. T3EH-10 and 15 (Y Voltage) for use with TAA 072 through 150



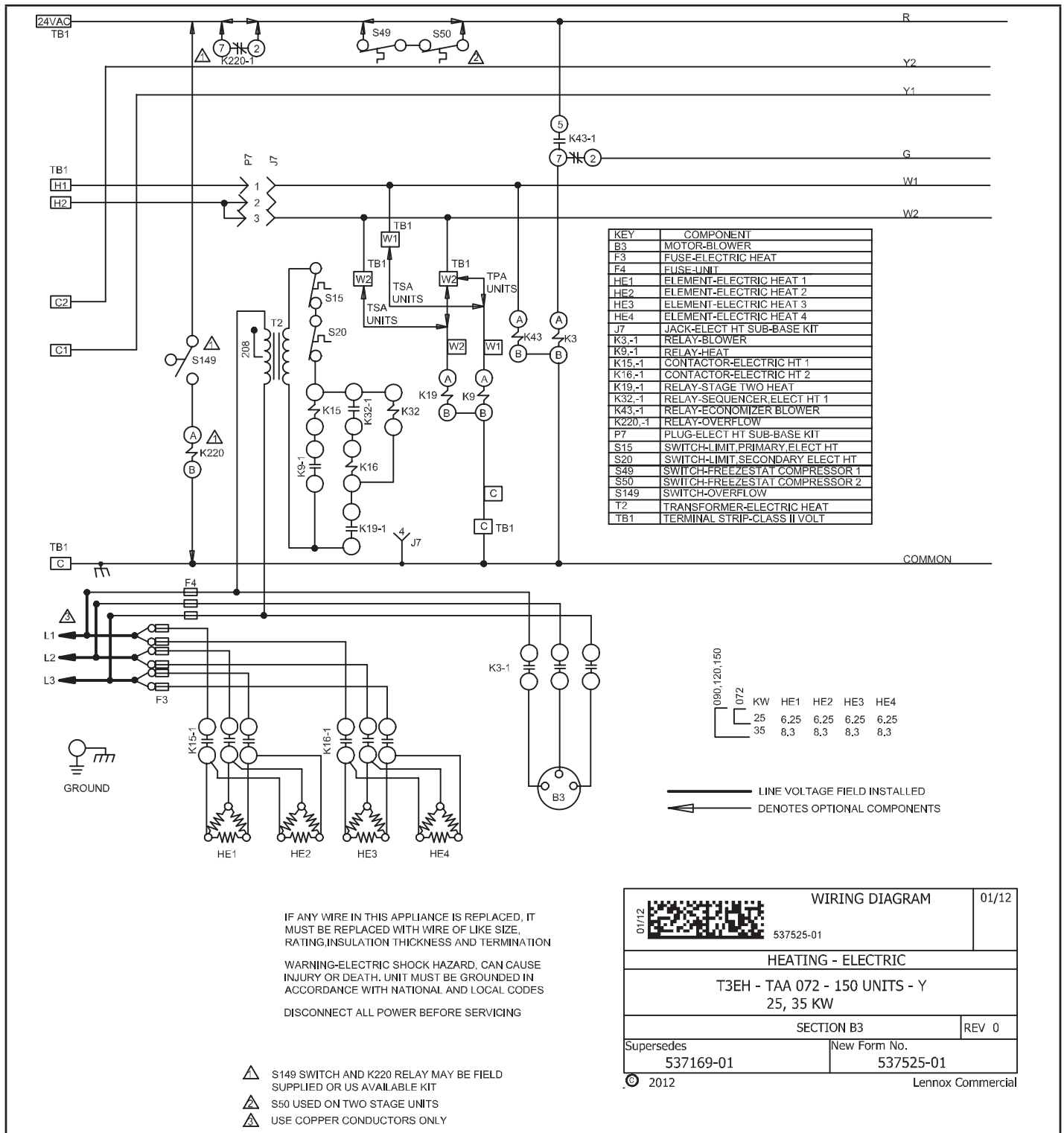


FIGURE 12. T3EH-25 and 35 (Y Voltage) for use with TAA 072 through 150

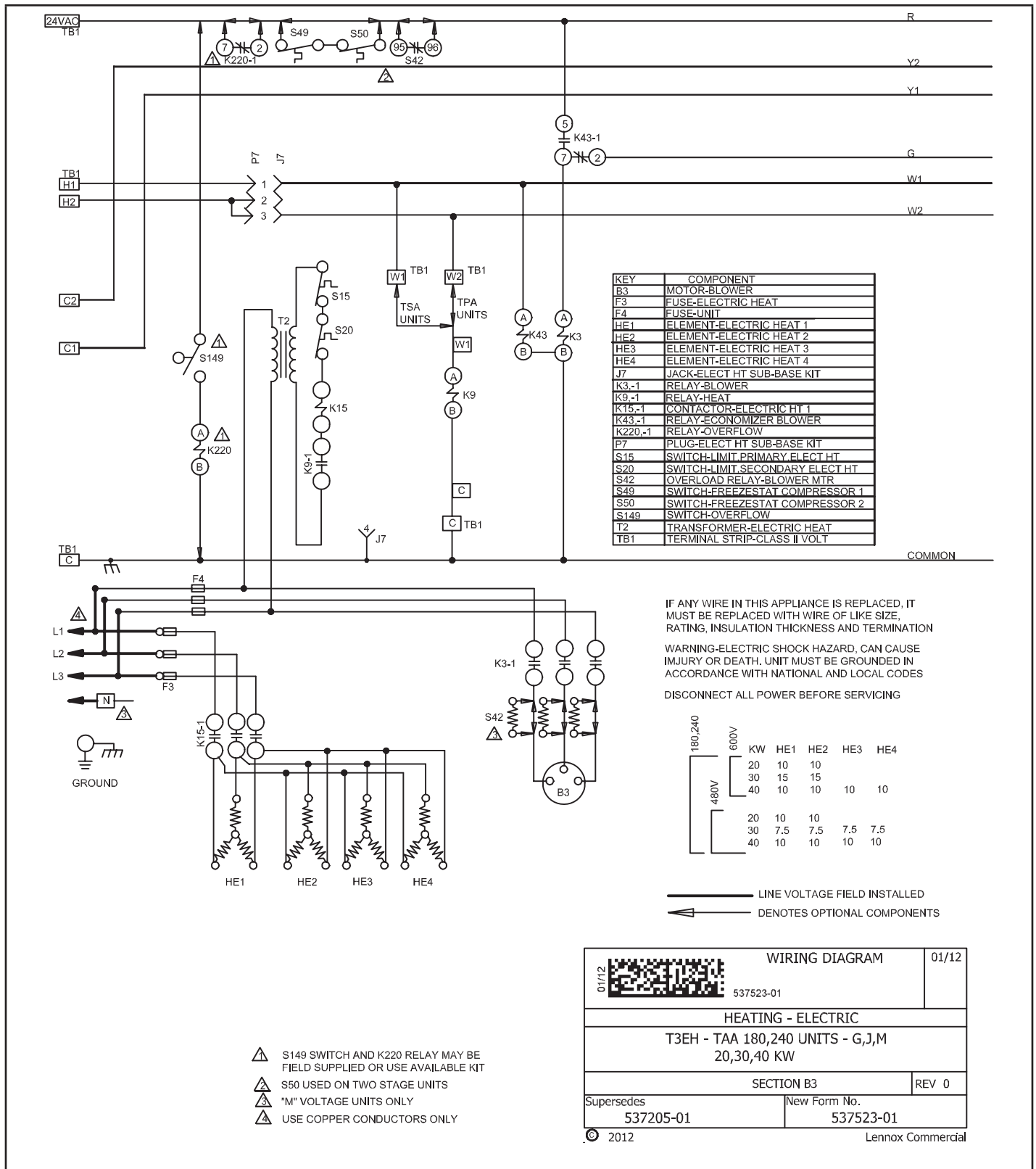
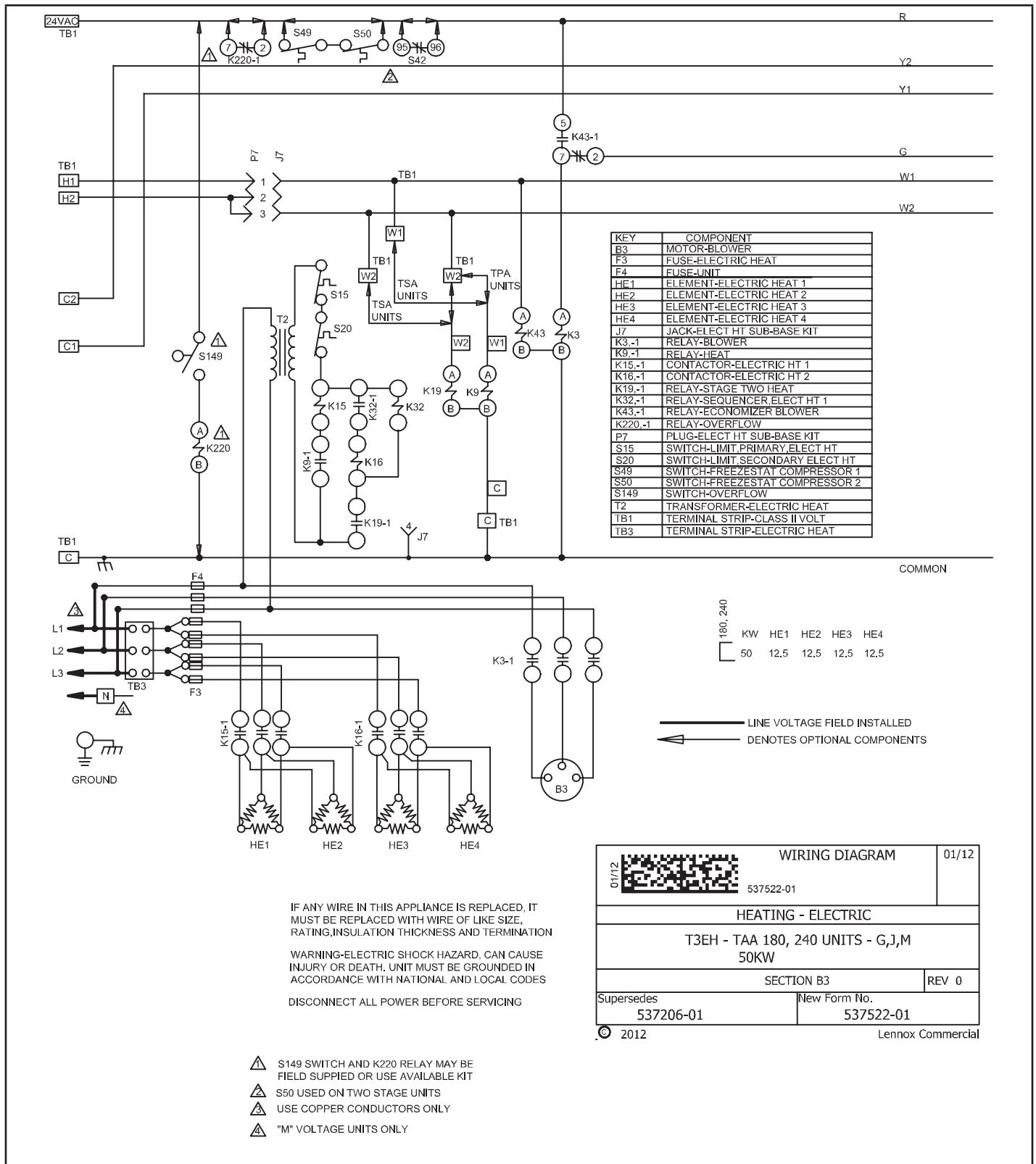

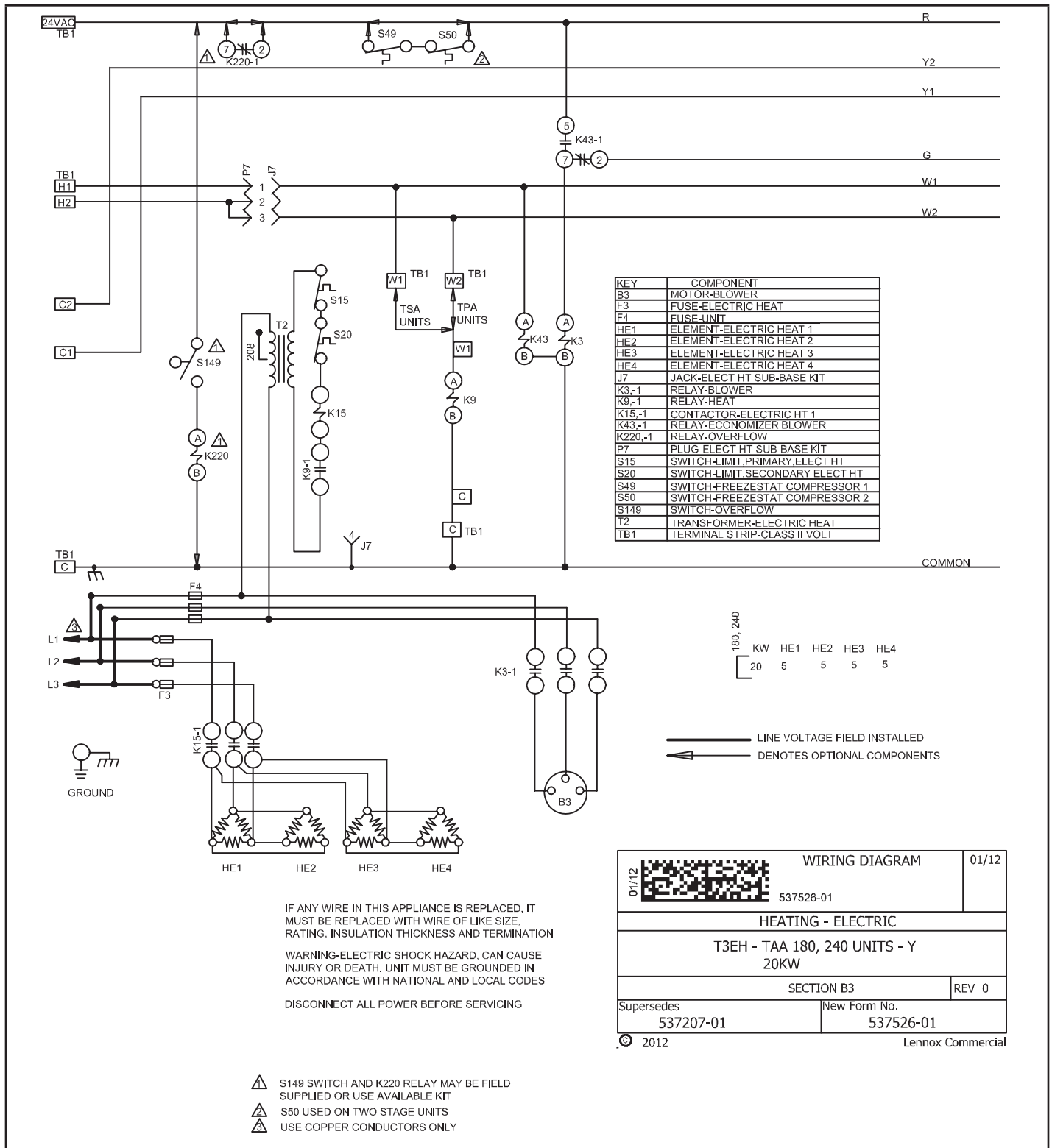


FIGURE 13. T3EH-20, 30 and 50 (G, J and M Voltages) for use with TAA 180 and 240

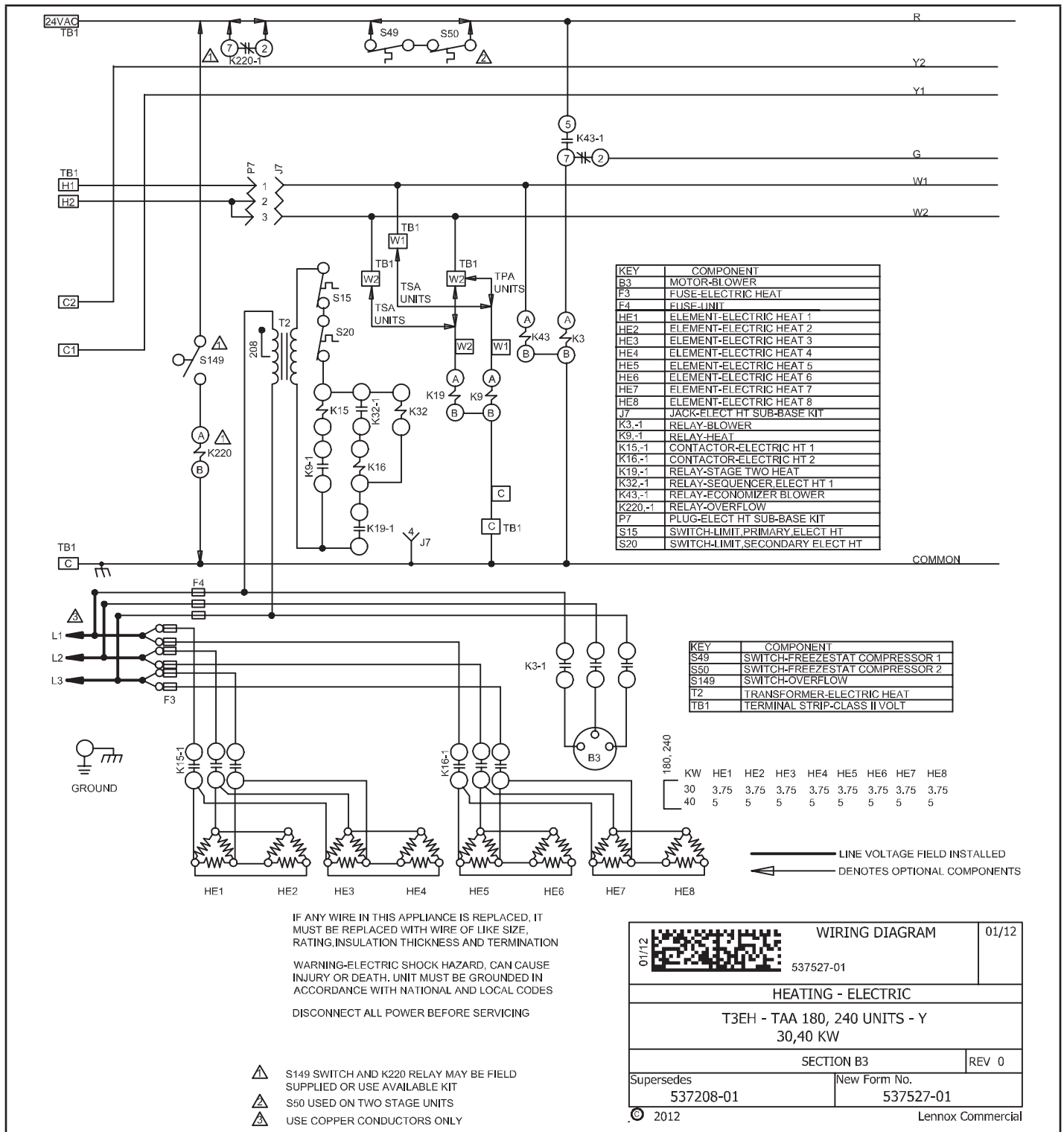


**FIGURE 14. T3EH-50 (G, J and M Voltages) for use with TAA 180 and 240**

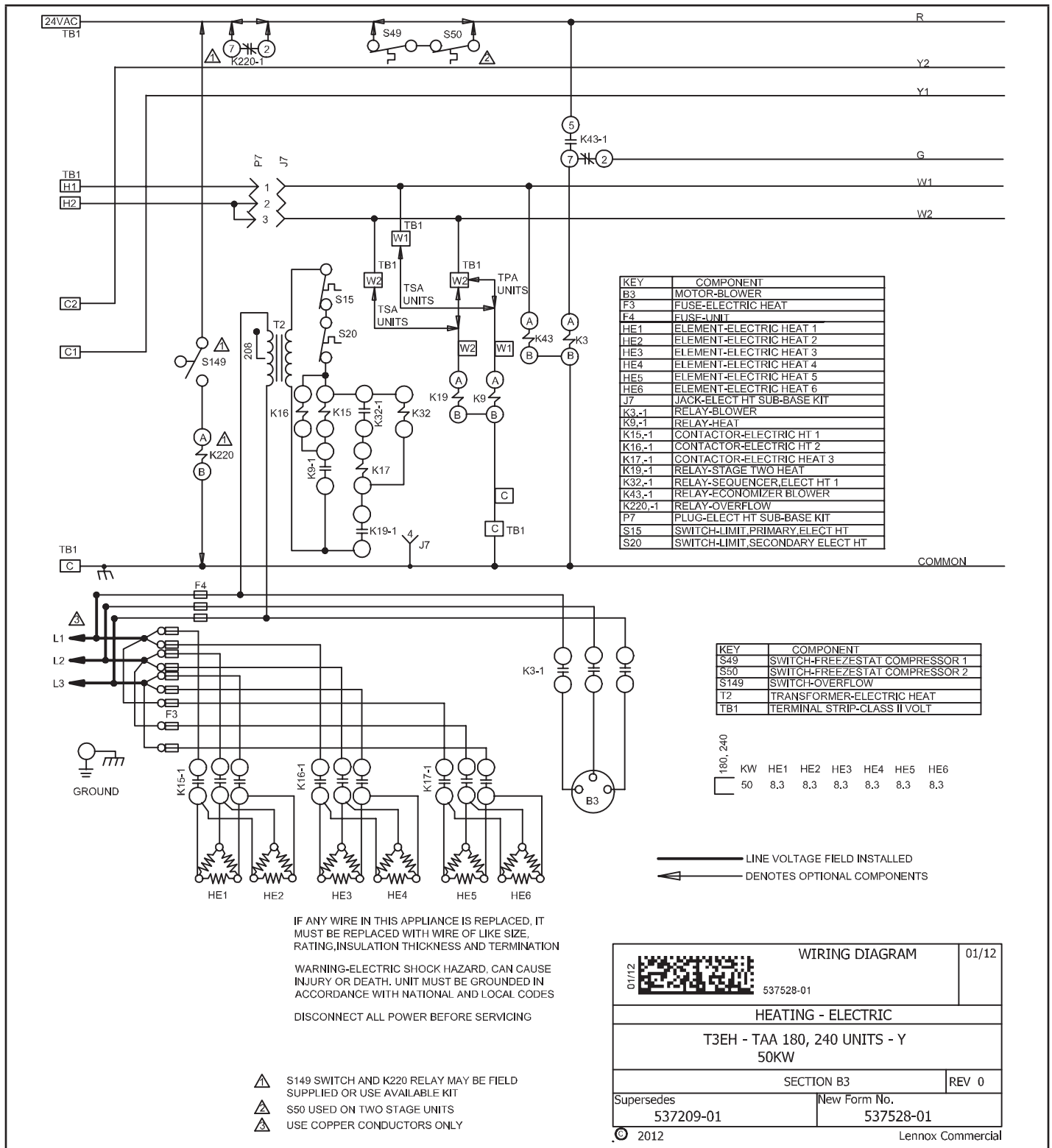
01/12	 537522-01	WIRING DIAGRAM	01/12
		HEATING - ELECTRIC	
T3EH - TAA 180, 240 UNITS - G,J,M			
50KW			
SECTION B3			REV 0
Supersedes		New Form No.	
537206-01		537522-01	
© 2012		Lennox Commercial	



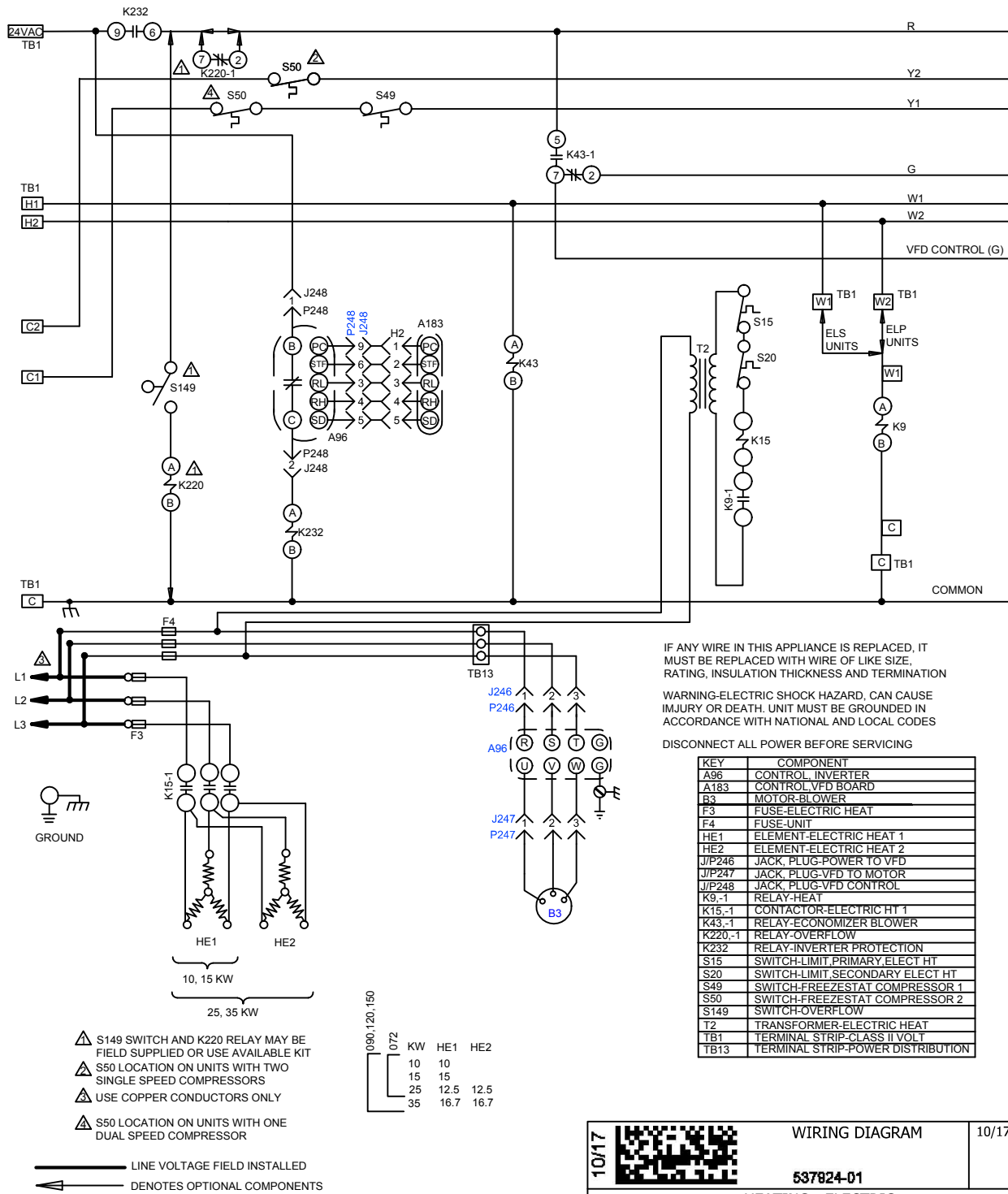
**FIGURE 15. T3EH-20 (Y Voltage) for use with TAA 180 and 240**



**FIGURE 16. T3EH-30 and 40 (Y Voltage) for use with TAA 180 and 240**

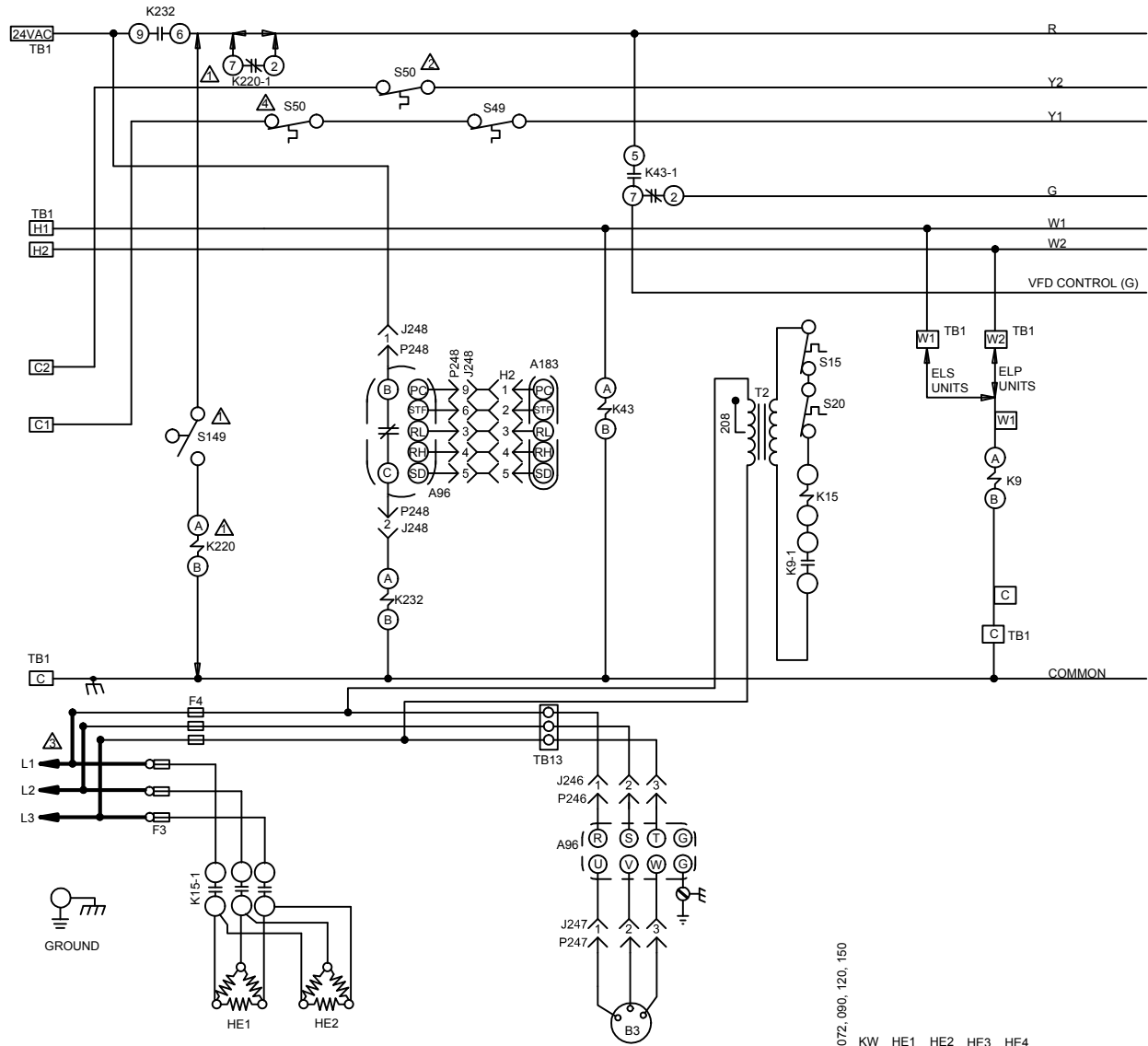


**FIGURE 17. T3EH-50 (Y Voltage) for use with TAA 180 and 240**



10/17		WIRING DIAGRAM	10/17
		<b>537824-01</b>	
HEATING - ELECTRIC			
T3EH- ELA 072 - 150 UNITS - G,J,M			
SECTION B3			REV 0
Supersedes		New Form No. 537924-01	

FIGURE 18. T3EH (G, J, M Voltage) for use with ELA 072-150 Units



KEY	COMPONENT
A96	CONTROL INVERTER
A183	CONTROL VFD BOARD
B3	MOTOR-BLOWER
F3	FUSE-ELECTRIC HEAT
F4	FUSE-UNIT
HE1	ELEMENT-ELECTRIC HEAT 1
HE2	ELEMENT-ELECTRIC HEAT 2
J/P246	JACK, PLUG-POWER TO VFD
J/P247	JACK, PLUG-VFD TO MOTOR
J/P248	JACK, PLUG-VFD CONTROL
K9-1	RELAY-HEAT
K15-1	CONTACTOR-ELECTRIC HT 1
K43-1	RELAY-ECONOMIZER BLOWER
K220-1	RELAY-OVERFLOW
K232	RELAY-INVERTER PROTECTION
S15	SWITCH-LIMIT PRIMARY ELECT HT
S20	SWITCH-LIMIT SECONDARY ELECT HT
S49	SWITCH-FREEZESTAT COMPRESSOR 1
S50	SWITCH-FREEZESTAT COMPRESSOR 2
S149	SWITCH-OVERFLOW
T2	TRANSFORMER-ELECTRIC HEAT
TB1	TERMINAL STRIP-CLASS II VOLT
TB13	TERMINAL STRIP-POWER DISTRIBUTION

IF ANY WIRE IN THIS APPLIANCE IS REPLACED, IT MUST BE REPLACED WITH WIRE OF LIKE SIZE, RATING, INSULATION THICKNESS AND TERMINATION

WARNING-ELECTRIC SHOCK HAZARD, CAN CAUSE INJURY OR DEATH. UNIT MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES

DISCONNECT ALL POWER BEFORE SERVICING

- ⚠ S149 SWITCH AND K220 RELAY MAY BE FIELD SUPPLIED OR USE AVAILABLE KIT
- ⚠ S50 LOCATION ON UNITS WITH TWO SINGLE SPEED COMPRESSORS
- ⚠ USE COPPER CONDUCTORS ONLY
- ⚠ S50 LOCATION ON UNITS WITH ONE DUAL SPEED COMPRESSOR

	KW	HE1	HE2	HE3	HE4
072, 090, 120, 150	10	5	5		
	15	7.5	7.5		

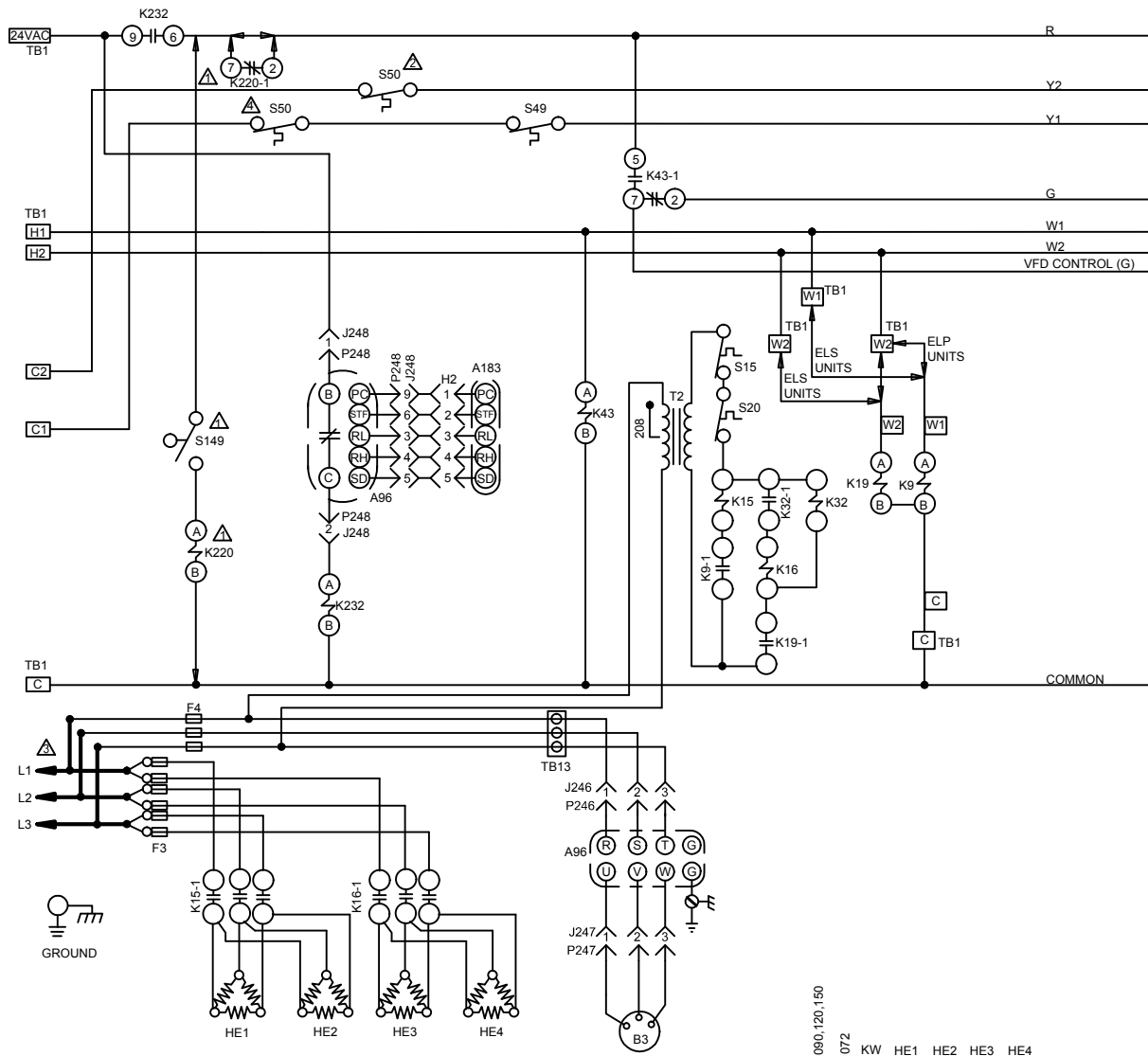
— LINE VOLTAGE FIELD INSTALLED  
 ◀ DENOTES OPTIONAL COMPONENTS

10/17		WIRING DIAGRAM	10/17
		<b>537927-01</b>	
HEATING - ELECTRIC			
T3EH - ELA 072 - 150 UNITS - Y 10,15 KW			
SECTION B3			REV 0
Supersedes		New Form No. 537927-01	

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FIGURE 19. T3EH-10 / 15 (Y Voltage) for use with ELA 072-150 Units





KEY	COMPONENT
B3	MOTOR-BLOWER
B3	MOTOR-BLOWER
F3	FUSE-ELECTRIC HEAT
F4	FUSE-UNIT
HE1	ELEMENT-ELECTRIC HEAT 1
HE2	ELEMENT-ELECTRIC HEAT 2
HE3	ELEMENT-ELECTRIC HEAT 3
HE4	ELEMENT-ELECTRIC HEAT 4
J/P246	JACK PLUG-POWER TO VFD
J/P247	JACK PLUG-VFD TO MOTOR
J/P248	JACK PLUG-VFD CONTROL
K9-1	RELAY-HEAT
K15-1	CONTACTOR-ELECTRIC HT 1
K16-1	CONTACTOR-ELECTRIC HT 2
K19-1	RELAY-STAGE TWO HEAT
K32-1	RELAY-SEQUENCER ELECT HT 1
K43-1	RELAY-ECONOMIZER BLOWER
K220-1	RELAY-OVERFLOW
K232	RELAY-INVERTER PROTECTION
S15	SWITCH-LIMIT PRIMARY ELECT HT
S20	SWITCH-LIMIT SECONDARY ELECT HT
S49	SWITCH-FREEZESTAT COMPRESSOR 1
S50	SWITCH-FREEZESTAT COMPRESSOR 2
S149	SWITCH-OVERFLOW
T2	TRANSFORMER-ELECTRIC HEAT
TB1	TERMINAL STRIP-CLASS II VOLT
TB13	TERMINAL STRIP-CLASS II VOLT

IF ANY WIRE IN THIS APPLIANCE IS REPLACED, IT MUST BE REPLACED WITH WIRE OF LIKE SIZE, RATING, INSULATION THICKNESS AND TERMINATION


WARNING-ELECTRIC SHOCK HAZARD, CAN CAUSE INJURY OR DEATH. UNIT MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES

DISCONNECT ALL POWER BEFORE SERVICING

- ⚠ S149 SWITCH AND K220 RELAY MAY BE FIELD SUPPLIED OR US AVAILABLE KIT
- ⚠ S50 LOCATION ON UNITS WITH TWO SINGLE SPEED COMPRESSORS
- ⚠ USE COPPER CONDUCTORS ONLY
- ⚠ S50 LOCATION ON UNITS WITH ONE DUAL SPEED COMPRESSOR

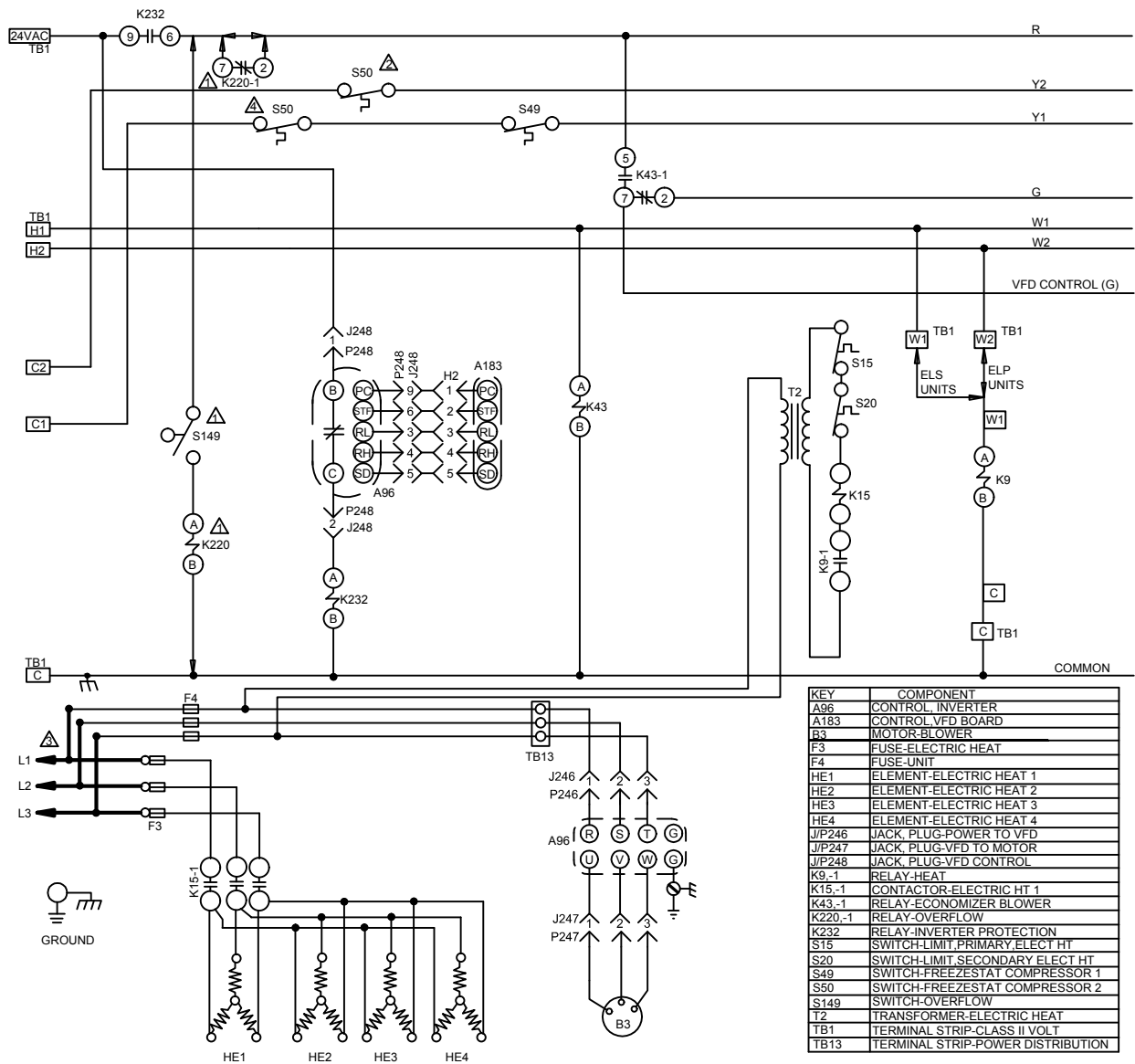
1090, 120, 150	072	KW	HE1	HE2	HE3	HE4
	25	6.25	6.25	6.25	6.25	
	35	8.3	8.3	8.3	8.3	

— LINE VOLTAGE FIELD INSTALLED  
 ⚡ DENOTES OPTIONAL COMPONENTS

10/17		WIRING DIAGRAM	10/17
		537928-01	
HEATING - ELECTRIC			
T3EH- ELA 072 - 150 UNITS - Y			
25,35 KW			
SECTION B3			REV 0
Supersedes		New Form No.	
		537928-01	

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FIGURE 20. T3EH-25 / 35 (Y Voltage) for use with ELA 072-150 Units



KEY	COMPONENT
A96	CONTROL INVERTER
A183	CONTROL VFD BOARD
B3	MOTOR-BLOWER
F3	FUSE-ELECTRIC HEAT
F4	FUSE-UNIT
HE1	ELEMENT-ELECTRIC HEAT 1
HE2	ELEMENT-ELECTRIC HEAT 2
HE3	ELEMENT-ELECTRIC HEAT 3
HE4	ELEMENT-ELECTRIC HEAT 4
J/P246	JACK, PLUG-POWER TO VFD
J/P247	JACK, PLUG-VFD TO MOTOR
J/P248	JACK, PLUG-VFD CONTROL
K9,-1	RELAY-HEAT
K15,-1	CONTACTOR-ELECTRIC HT 1
K43,-1	RELAY-ECONOMIZER BLOWER
K220,-1	RELAY-OVERFLOW
K232	RELAY-INVERTER PROTECTION
S15	SWITCH-LIMIT PRIMARY ELECT HT
S20	SWITCH-LIMIT SECONDARY ELECT HT
S49	SWITCH-FREEZESTAT COMPRESSOR 1
S50	SWITCH-FREEZESTAT COMPRESSOR 2
S149	SWITCH-OVERFLOW
T2	TRANSFORMER-ELECTRIC HEAT
TB1	TERMINAL STRIP-CLASS II VOLT
TB13	TERMINAL STRIP-POWER DISTRIBUTION

IF ANY WIRE IN THIS APPLIANCE IS REPLACED, IT MUST BE REPLACED WITH WIRE OF LIKE SIZE, RATING, INSULATION THICKNESS AND TERMINATION

WARNING-ELECTRIC SHOCK HAZARD, CAN CAUSE INJURY OR DEATH. UNIT MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES

DISCONNECT ALL POWER BEFORE SERVICING

△ S149 SWITCH AND K220 RELAY MAY BE FIELD SUPPLIED OR USE AVAILABLE KIT

△ S50 LOCATION ON UNITS WITH TWO SINGLE SPEED COMPRESSORS

△ USE COPPER CONDUCTORS ONLY

△ S50 LOCATION ON UNITS WITH ONE DUAL SPEED COMPRESSOR

— LINE VOLTAGE FIELD INSTALLED

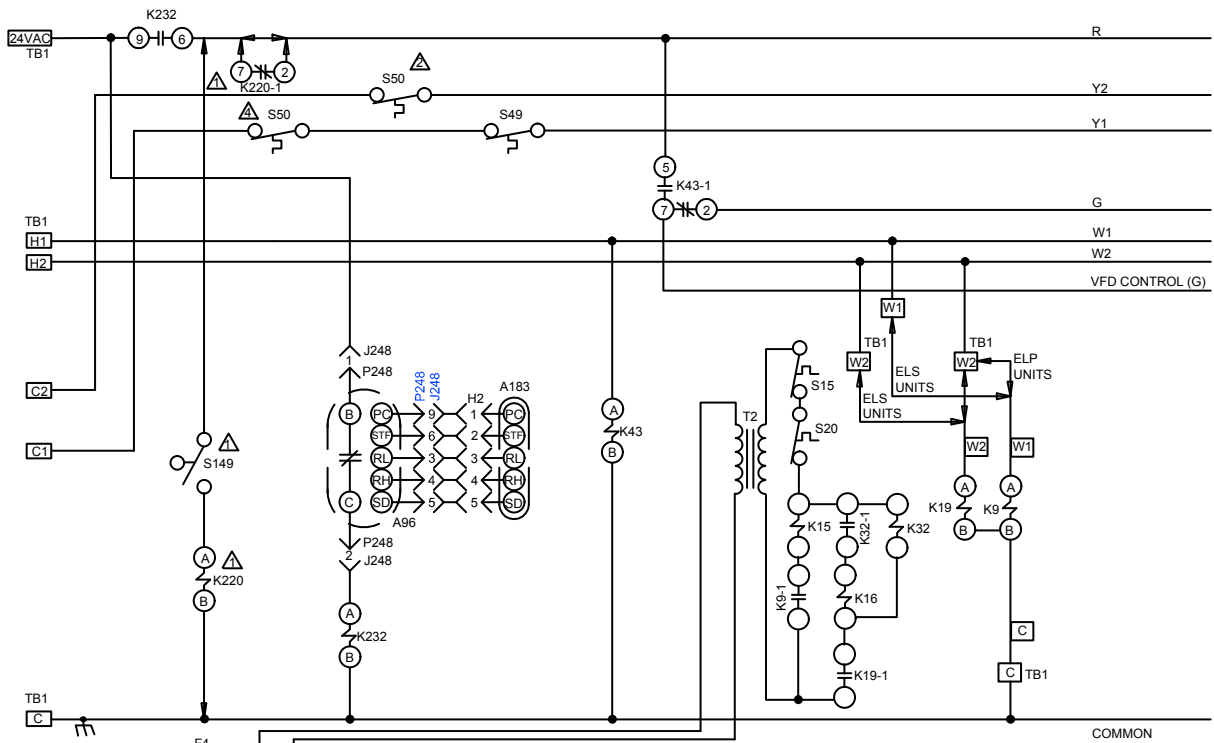
◄ DENOTES OPTIONAL COMPONENTS

180,240	480V	KW	HE1	HE2	HE3	HE4
			600V	600V	600V	600V
		20	10	10		
		30	15	15		
		40	10	10	10	10
		20	10	10		
		30	7.5	7.5	7.5	7.5
		40	10	10	10	10

10/17		WIRING DIAGRAM	10/17
		537926-01	
HEATING - ELECTRIC			
T3EH - ELA 180,240 UNITS - G,J,M 20,30,40KW			
SECTION B3			REV 0
Supersedes		New Form No. 537926-01	

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FIGURE 21. T3EH-20 / 30 / 40 (G, J, M Voltages) for use with ELA 180 and 240 Units



KEY	COMPONENT
A96	CONTROL INVERTER
A183	CONTROL VFD BOARD
B3	MOTOR-BLOWER
F3	FUSE-ELECTRIC HEAT
F4	FUSE-UNIT
HE1	ELEMENT-ELECTRIC HEAT 1
HE2	ELEMENT-ELECTRIC HEAT 2
HE3	ELEMENT-ELECTRIC HEAT 3
HE4	ELEMENT-ELECTRIC HEAT 4
J/P246	JACK, PLUG-POWER TO VFD
J/P247	JACK, PLUG-VFD TO MOTOR
J/P248	JACK, PLUG-VFD CONTROL
K9-1	RELAY-HEAT
K15-1	CONTACTOR-ELECTRIC HT 1
K16-1	CONTACTOR-ELECTRIC HT 2
K19-1	RELAY-STAGE TWO HEAT
K32-1	RELAY-SEQUENCER ELECT HT 1
K43-1	RELAY-ECONOMIZER BLOWER
K220-1	RELAY-OVERFLOW
K232	RELAY-INVERTER PROTECTION
S15	SWITCH-LIMIT,PRIMARY, ELECT HT
S20	SWITCH-LIMIT,SECONDARY ELECT HT
S49	SWITCH-FREEZESTAT COMPRESSOR 1
S50	SWITCH-FREEZESTAT COMPRESSOR 2
S149	SWITCH-OVERFLOW
T2	TRANSFORMER-ELECTRIC HEAT
TB1	TERMINAL STRIP-CLASS II VOLT
TB3	TERMINAL STRIP-ELECTRIC HEAT
TB13	TERMINAL STRIP-POWER DISTRIBUTION

- ⚠ S149 SWITCH AND K220 RELAY MAY BE FIELD SUPPLIED OR USE AVAILABLE KIT
- ⚠ S50 LOCATION ON UNITS WITH TWO SINGLE SPEED COMPRESSORS
- ⚠ USE COPPER CONDUCTORS ONLY
- ⚠ S50 LOCATION ON UNITS WITH ONE DUAL SPEED COMPRESSOR

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WARNING-ELECTRIC SHOCK HAZARD, CAN CAUSE INJURY OR DEATH. UNIT MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES

DISCONNECT ALL POWER BEFORE SERVICING

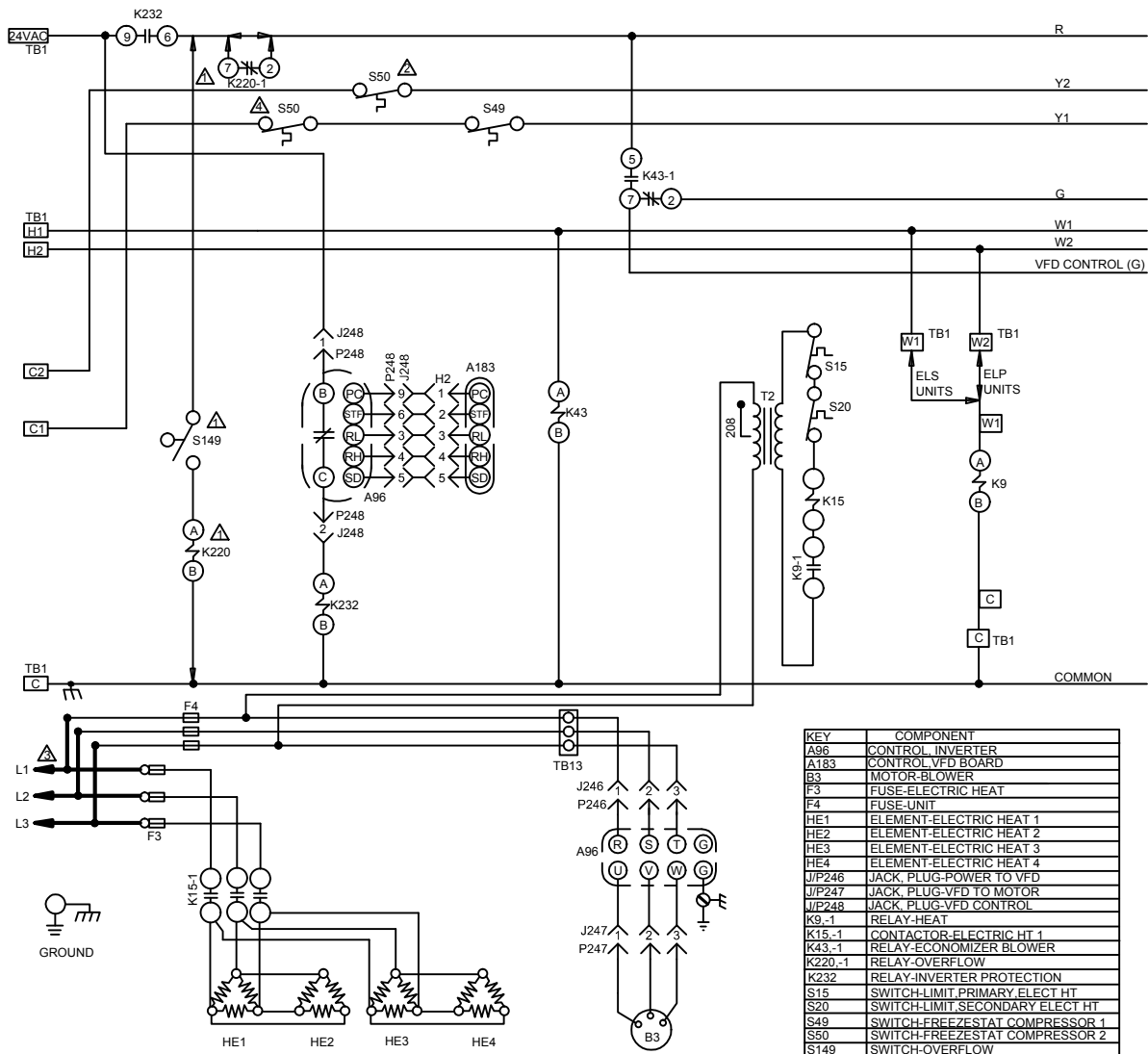
180, 240	KW	HE1	HE2	HE3	HE4
50	12.5	12.5	12.5	12.5	12.5

— LINE VOLTAGE FIELD INSTALLED

◀ DENOTES OPTIONAL COMPONENTS

01/18		WIRING DIAGRAM	01/18
		537925-01	
HEATING - ELECTRIC			
T3EH-ELA 180,240 UNITS - G,J,M			
SECTION B3			REV 1
Supersedes		New Form No.	
		537925-01	

FIGURE 22. T3EH (G, J, M Voltages) for use with ELA 180 and 240 Units



KEY	COMPONENT
A96	CONTROL INVERTER
A183	CONTROL VFD BOARD
B3	MOTOR-BLOWER
F3	FUSE-ELECTRIC HEAT
F4	FUSE-UNIT
HE1	ELEMENT-ELECTRIC HEAT 1
HE2	ELEMENT-ELECTRIC HEAT 2
HE3	ELEMENT-ELECTRIC HEAT 3
HE4	ELEMENT-ELECTRIC HEAT 4
J/P246	JACK, PLUG-POWER TO VFD
J/P247	JACK, PLUG-VFD TO MOTOR
J/P248	JACK, PLUG-VFD CONTROL
K9-1	RELAY-HEAT
K15-1	CONTACTOR-ELECTRIC HT 1
K43-1	RELAY-ECONOMIZER BLOWER
K220-1	RELAY-OVERFLOW
K232	RELAY-INVERTER PROTECTION
S15	SWITCH-LIMIT PRIMARY ELECT HT
S20	SWITCH-LIMIT SECONDARY ELECT HT
S49	SWITCH-FREEZESTAT COMPRESSOR 1
S50	SWITCH-FREEZESTAT COMPRESSOR 2
S149	SWITCH-OVERFLOW
T2	TRANSFORMER-ELECTRIC HEAT
TB1	TERMINAL STRIP-CLASS II VOLT
TB13	TERMINAL STRIP-CLASS II VOLT

IF ANY WIRE IN THIS APPLIANCE IS REPLACED, IT MUST BE REPLACED WITH WIRE OF LIKE SIZE, RATING, INSULATION THICKNESS AND TERMINATION


WARNING-ELECTRIC SHOCK HAZARD, CAN CAUSE INJURY OR DEATH. UNIT MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES

DISCONNECT ALL POWER BEFORE SERVICING

- ⚠ S149 SWITCH AND K220 RELAY MAY BE FIELD SUPPLIED OR USE AVAILABLE KIT
- ⚠ S50 LOCATION ON UNITS WITH TWO SINGLE SPEED COMPRESSORS
- ⚠ USE COPPER CONDUCTORS ONLY
- ⚠ S50 LOCATION ON UNITS WITH ONE DUAL SPEED COMPRESSOR

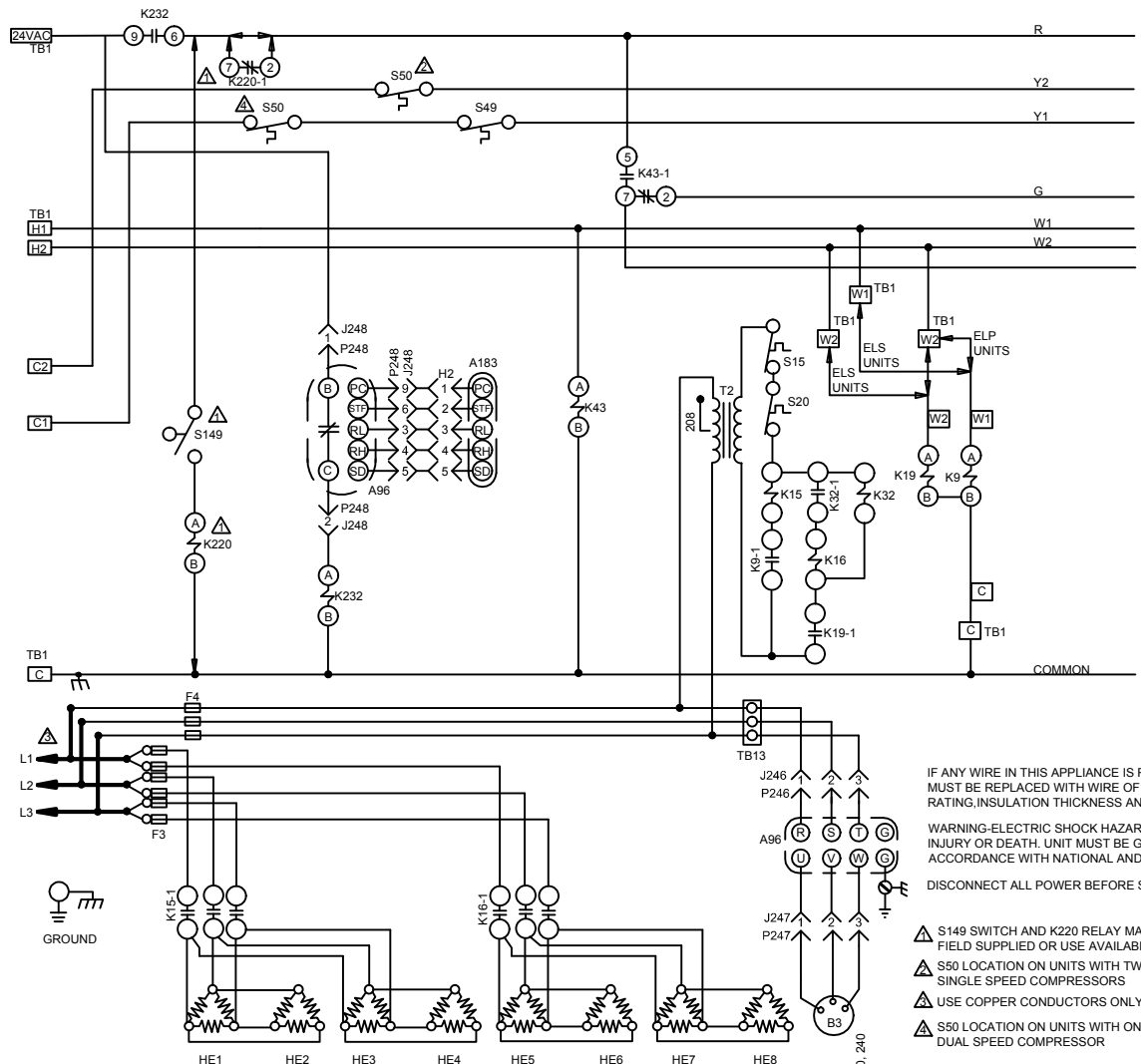
180, 240	KW	HE1	HE2	HE3	HE4
	20	5	5	5	5

— LINE VOLTAGE FIELD INSTALLED  
 ◀ DENOTES OPTIONAL COMPONENTS

10/17		WIRING DIAGRAM	10/17
	<b>537929-01</b>		
HEATING - ELECTRIC			
T3EH - ELA 180,240 UNITS - Y 20KW			
SECTION B3			REV 0
Supersedes		New Form No. 537929-01	

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FIGURE 23. T3EH-20 (Y Voltage) for use with ELA 180 and 240 Units



IF ANY WIRE IN THIS APPLIANCE IS REPLACED, IT MUST BE REPLACED WITH WIRE OF LIKE SIZE, RATING, INSULATION THICKNESS AND TERMINATION

WARNING-ELECTRIC SHOCK HAZARD, CAN CAUSE INJURY OR DEATH. UNIT MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES

DISCONNECT ALL POWER BEFORE SERVICING


- ▲ S149 SWITCH AND K220 RELAY MAY BE FIELD SUPPLIED OR USE AVAILABLE KIT
- ▲ S50 LOCATION ON UNITS WITH TWO SINGLE SPEED COMPRESSORS
- ▲ USE COPPER CONDUCTORS ONLY
- ▲ S50 LOCATION ON UNITS WITH ONE DUAL SPEED COMPRESSOR

KEY	COMPONENT
A96	CONTROL INVERTER
A183	CONTROL VFD BOARD
B3	MOTOR-BLOWER
F3	FUSE-ELECTRIC HEAT
F4	FUSE-UNIT
HE1	ELEMENT-ELECTRIC HEAT 1
HE2	ELEMENT-ELECTRIC HEAT 2
HE3	ELEMENT-ELECTRIC HEAT 3
HE4	ELEMENT-ELECTRIC HEAT 4
HE5	ELEMENT-ELECTRIC HEAT 5
HE6	ELEMENT-ELECTRIC HEAT 6
HE7	ELEMENT-ELECTRIC HEAT 7
HE8	ELEMENT-ELECTRIC HEAT 8
J/P246	JACK, PLUG-POWER TO VFD
J/P247	JACK, PLUG-VFD TO MOTOR
J/P248	JACK, PLUG-VFD CONTROL
K9-1	RELAY-HEAT
K15-1	CONTACTOR-ELECTRIC HT 1
K16-1	CONTACTOR-ELECTRIC HT 2
K19-1	RELAY-STAGE TWO HEAT
K232	RELAY-SEQUENCER ELECT HT 1
K233	RELAY-ECONOMIZER BLOWER
K220-1	RELAY-OVERFLOW
K232	RELAY-INVERTER PROTECTION
S15	SWITCH-LIMIT, PRIMARY ELECT HT
S20	SWITCH-LIMIT, SECONDARY ELECT HT

KEY	COMPONENT
S49	SWITCH-FREEZESTAT COMPRESSOR 1
S50	SWITCH-FREEZESTAT COMPRESSOR 2
S149	SWITCH-OVERFLOW
T2	TRANSFORMER-ELECTRIC HEAT
TB1	TERMINAL STRIP-CLASS II VOLT
TB13	TERMINAL STRIP-CLASS II VOLT

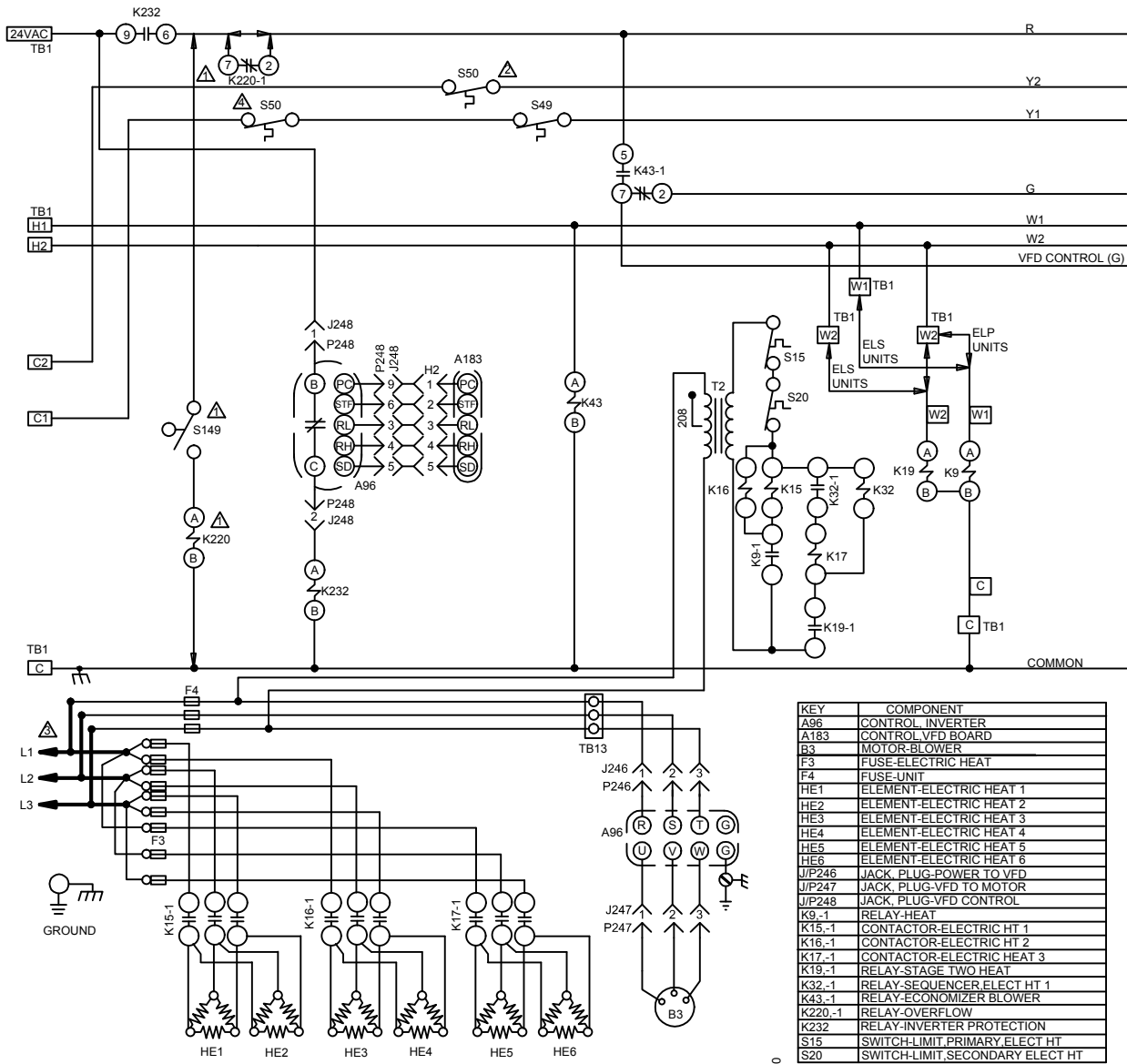
	180	240
KW	HE1 HE2 HE3 HE4 HE5 HE6 HE7 HE8	
30	3.75 3.75 3.75 3.75 3.75 3.75 3.75 3.75	
40	5 5 5 5 5 5 5 5	

— LINE VOLTAGE FIELD INSTALLED  
 ▲ DENOTES OPTIONAL COMPONENTS

10/17		<b>WIRING DIAGRAM</b>	10/17
	<b>537930-01</b>		
<b>HEATING - ELECTRIC</b>			
<b>T3EH - ELA 180, 240 UNITS - Y</b> <b>30,40 KW</b>			
SECTION B3			REV 0
Supersedes		New Form No.	
		537930-01	

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**FIGURE 24. T3EH-30 / 40 (Y Voltage) for use with ELA 180 and 240 Units**



KEY	COMPONENT
A96	CONTROL_INVERTER
A183	CONTROL_VFD_BOARD
B3	MOTOR-BLOWER
F3	FUSE-ELECTRIC HEAT
F4	FUSE-UNIT
HE1	ELEMENT-ELECTRIC HEAT 1
HE2	ELEMENT-ELECTRIC HEAT 2
HE3	ELEMENT-ELECTRIC HEAT 3
HE4	ELEMENT-ELECTRIC HEAT 4
HE5	ELEMENT-ELECTRIC HEAT 5
HE6	ELEMENT-ELECTRIC HEAT 6
J/P246	JACK_PLUG-POWER TO VFD
J/P247	JACK_PLUG-VFD TO MOTOR
J/P248	JACK_PLUG-VFD CONTROL
K9-1	RELAY-HEAT
K15-1	CONTACTOR-ELECTRIC HT 1
K16-1	CONTACTOR-ELECTRIC HT 2
K17-1	CONTACTOR-ELECTRIC HEAT 3
K19-1	RELAY-STAGE TWO HEAT
K32-1	RELAY-SEQUENCER ELECT HT 1
K43-1	RELAY-ECONOMIZER BLOWER
K220-1	RELAY-OVERFLOW
K232	RELAY-INVERTER PROTECTION
S15	SWITCH-LIMIT.PRIMARY ELECT HT
S20	SWITCH-LIMIT.SECONDARY ELECT HT

- ⚠ S149 SWITCH AND K220 RELAY MAY BE FIELD SWITCHED OR USE AVAILABLE KIT
- ⚠ S50 LOCATION ON UNITS WITH TWO SINGLE SPEED COMPRESSORS
- ⚠ USE COPPER CONDUCTORS ONLY
- ⚠ S50 LOCATION ON UNITS WITH ONE DUAL SPEED COMPRESSOR

IF ANY WIRE IN THIS APPLIANCE IS REPLACED, IT MUST BE REPLACED WITH WIRE OF LIKE SIZE, RATING, INSULATION THICKNESS AND TERMINATION

WARNING-ELECTRIC SHOCK HAZARD, CAN CAUSE INJURY OR DEATH. UNIT MUST BE GROUNDED IN ACCORDANCE WITH NATIONAL AND LOCAL CODES

DISCONNECT ALL POWER BEFORE SERVICING

	180, 240	HE1	HE2	HE3	HE4	HE5	HE6
KW	50	8.3	8.3	8.3	8.3	8.3	8.3

— LINE VOLTAGE FIELD INSTALLED  
 ◀ DENOTES OPTIONAL COMPONENTS

KEY	COMPONENT
S49	SWITCH-FREEZESTAT COMPRESSOR 1
S50	SWITCH-FREEZESTAT COMPRESSOR 2
S149	SWITCH-OVERFLOW
T2	TRANSFORMER-ELECTRIC HEAT
TB1	TERMINAL STRIP-CLASS II VOLT
TB13	TERMINAL STRIP-CLASS II VOLT

10/17	WIRING DIAGRAM	10/17
	<b>537931-01</b>	
HEATING - ELECTRIC		
T3EH - ELA 180, 240 UNITS - Y 50KW		
SECTION B3		REV 0
Supersedes	New Form No. 537931-01	

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FIGURE 25. T3EH-50 (Y Voltage) for use with ELA 180 and 240 Units

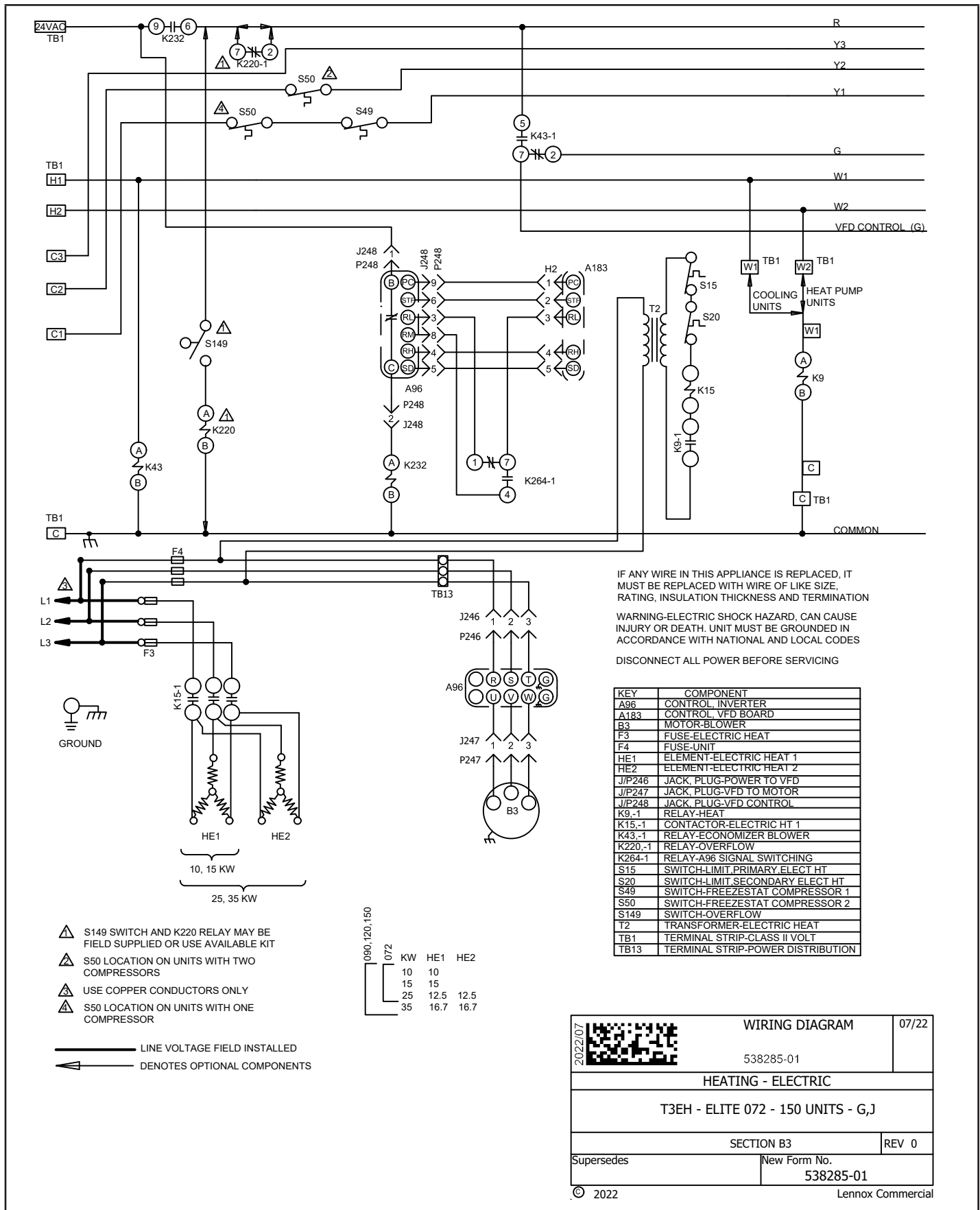


FIGURE 26. T3EH-10, 15, 25, 35 (G,J Voltage) for use with EL072XA - EL150XA Units

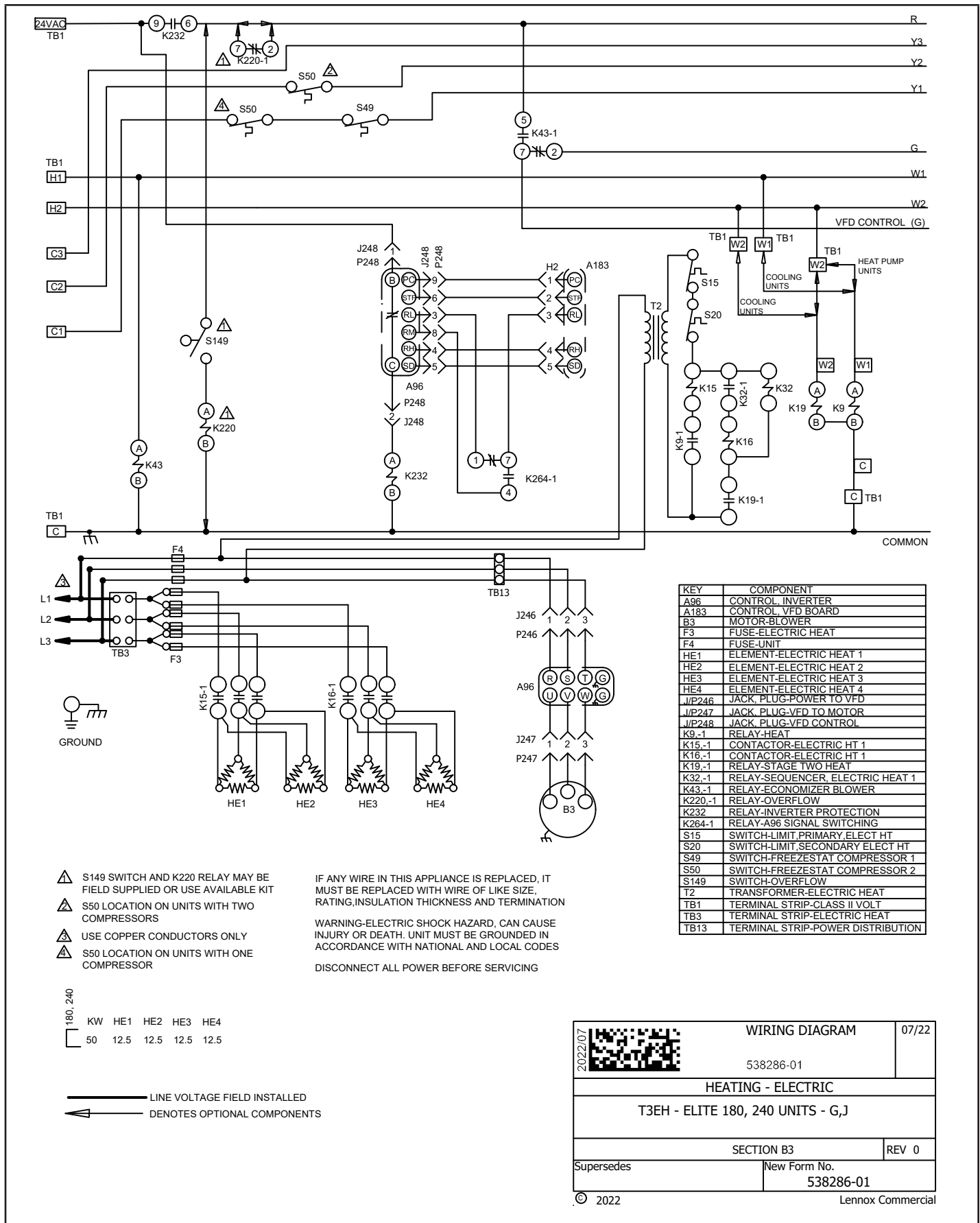


FIGURE 27. T3EH-50 (G,J Voltage) for use with EL180XA and EL240XA Units



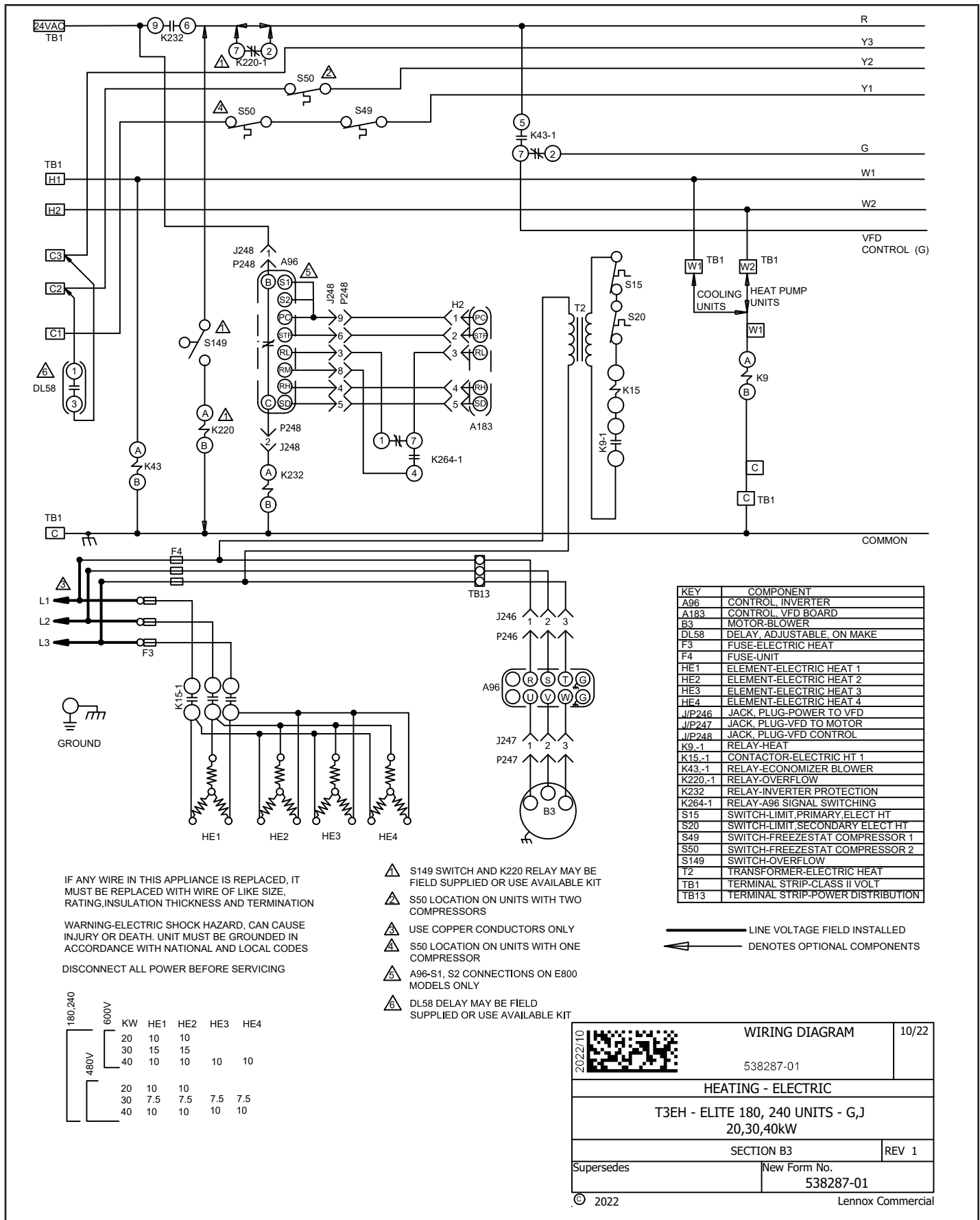


FIGURE 28. T3EH-20,30,40 (G,J Voltage) for use with EL180XA and EL240XA Units

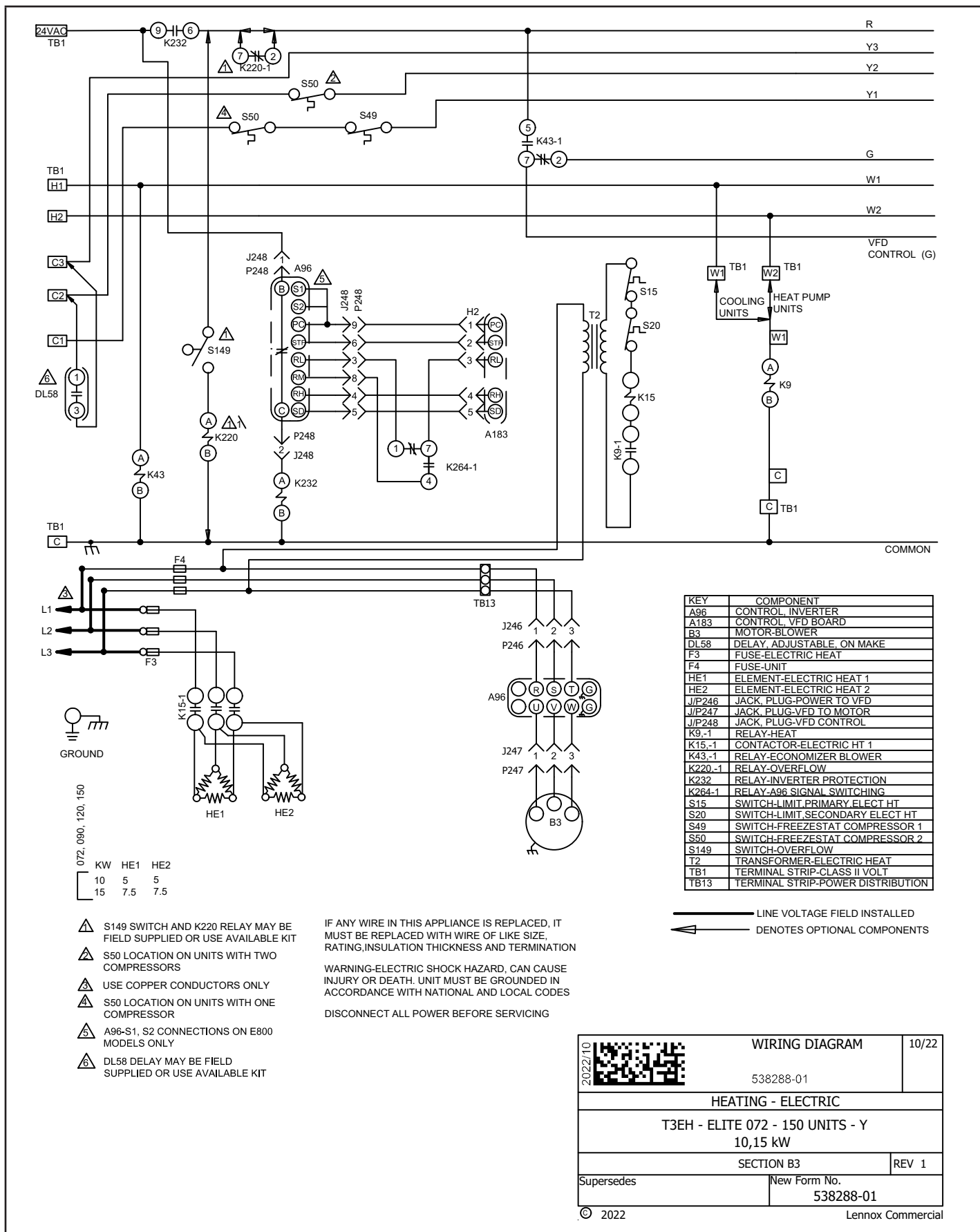
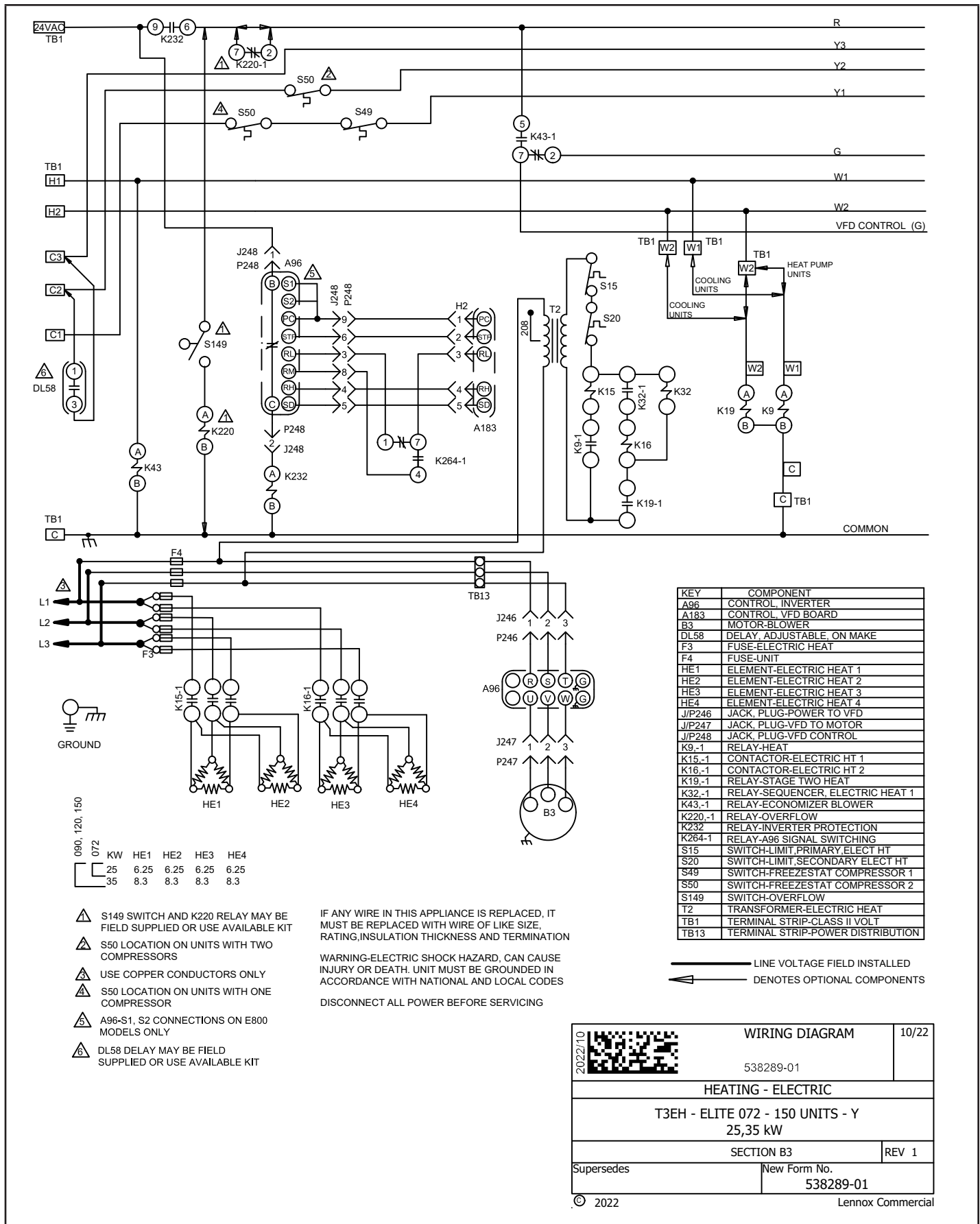


FIGURE 29. T3EH-10,15 (Y Voltage) for use with EL072XA - EL150XA Units



**FIGURE 30. T3EH-25,35 (Y Voltage) for use with EL072XA - EL150XA Units**

2022/10	WIRING DIAGRAM	10/22
	538289-01	
HEATING - ELECTRIC		
T3EH - ELITE 072 - 150 UNITS - Y 25,35 kW		
SECTION B3		REV 1
Supersedes	New Form No. 538289-01	
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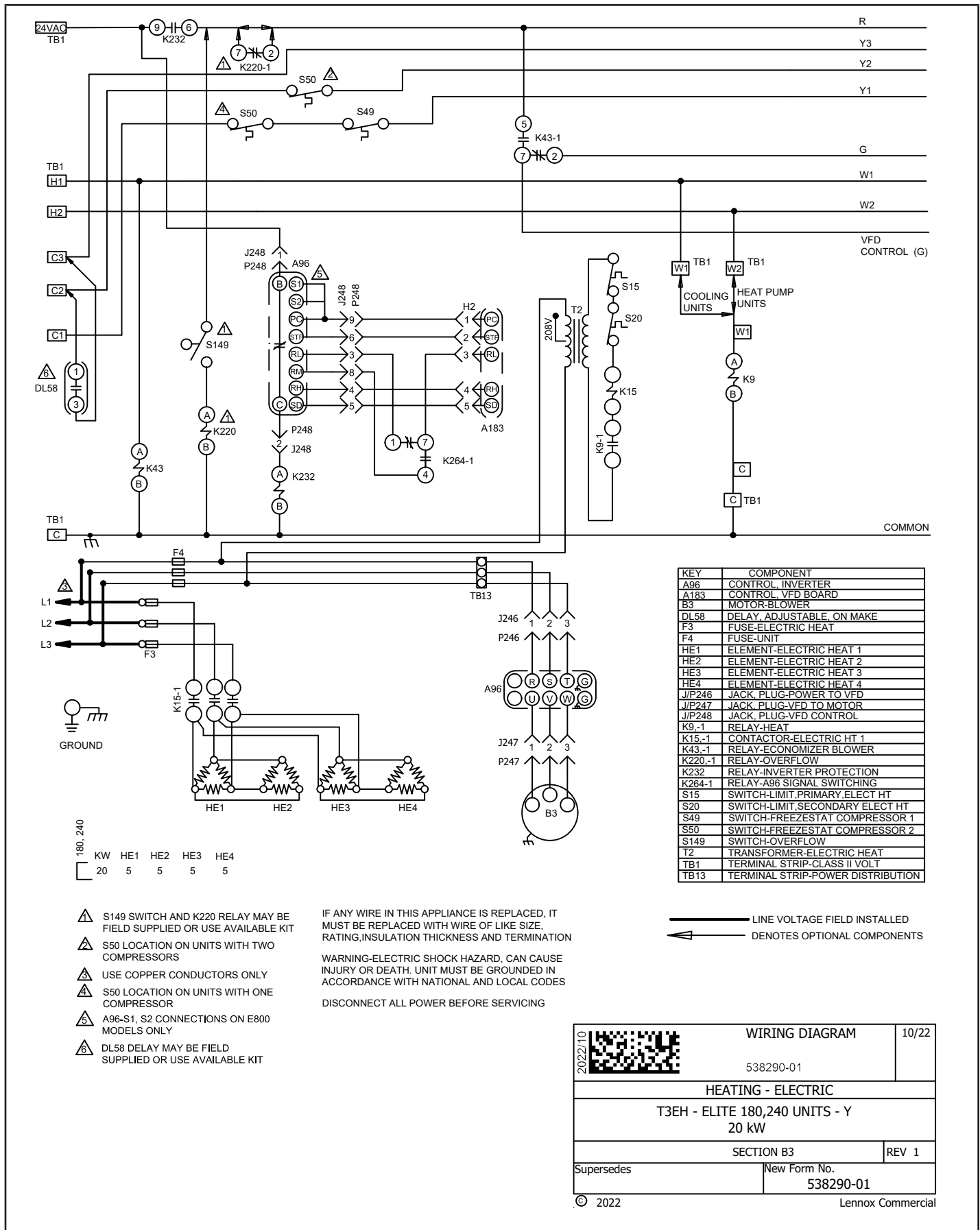


FIGURE 31. T3EH-20 (Y Voltage) for use with EL180XA and EL240XA Units

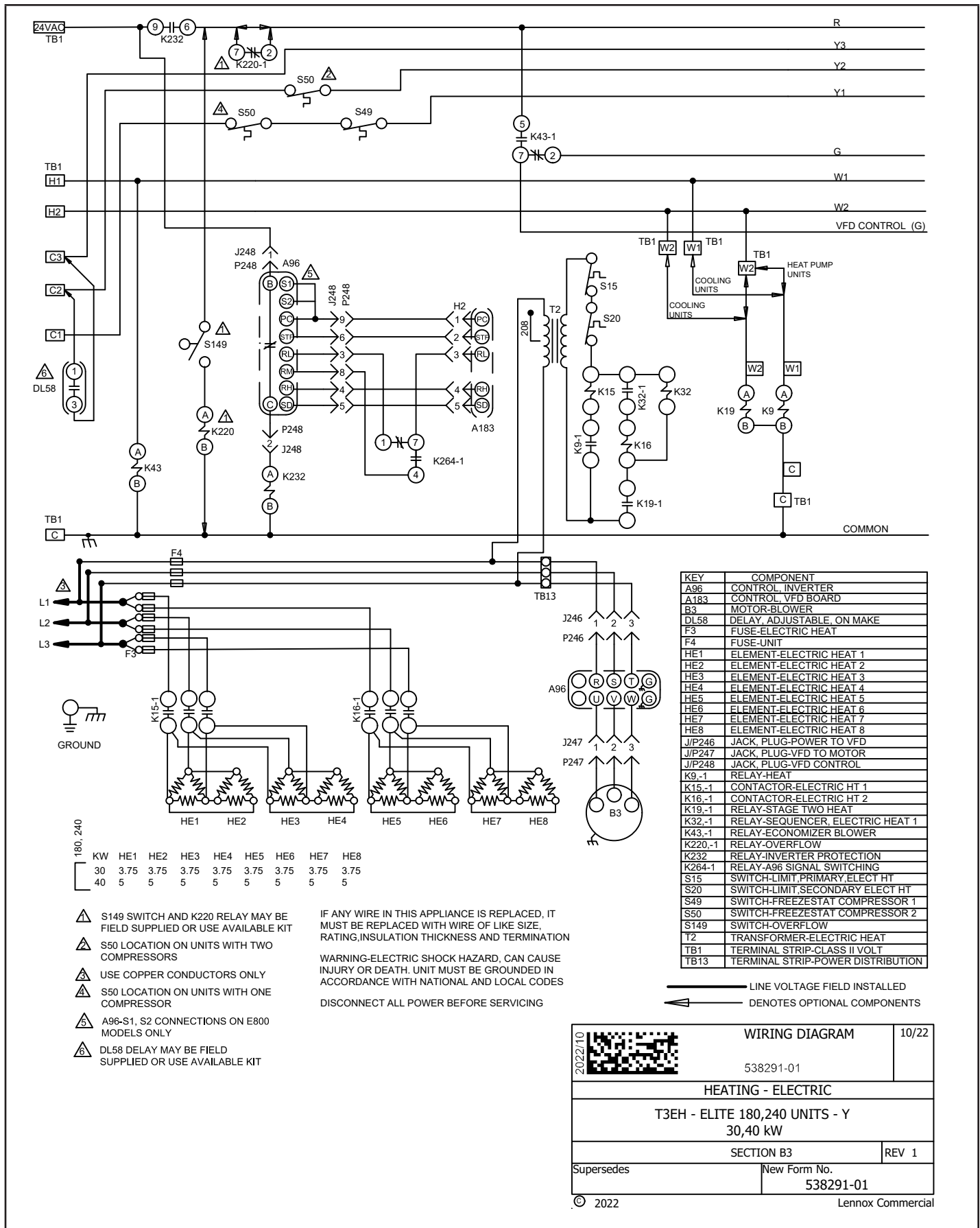


FIGURE 32. T3EH-30,40 (Y Voltage) for use with EL180XA and EL240XA Units

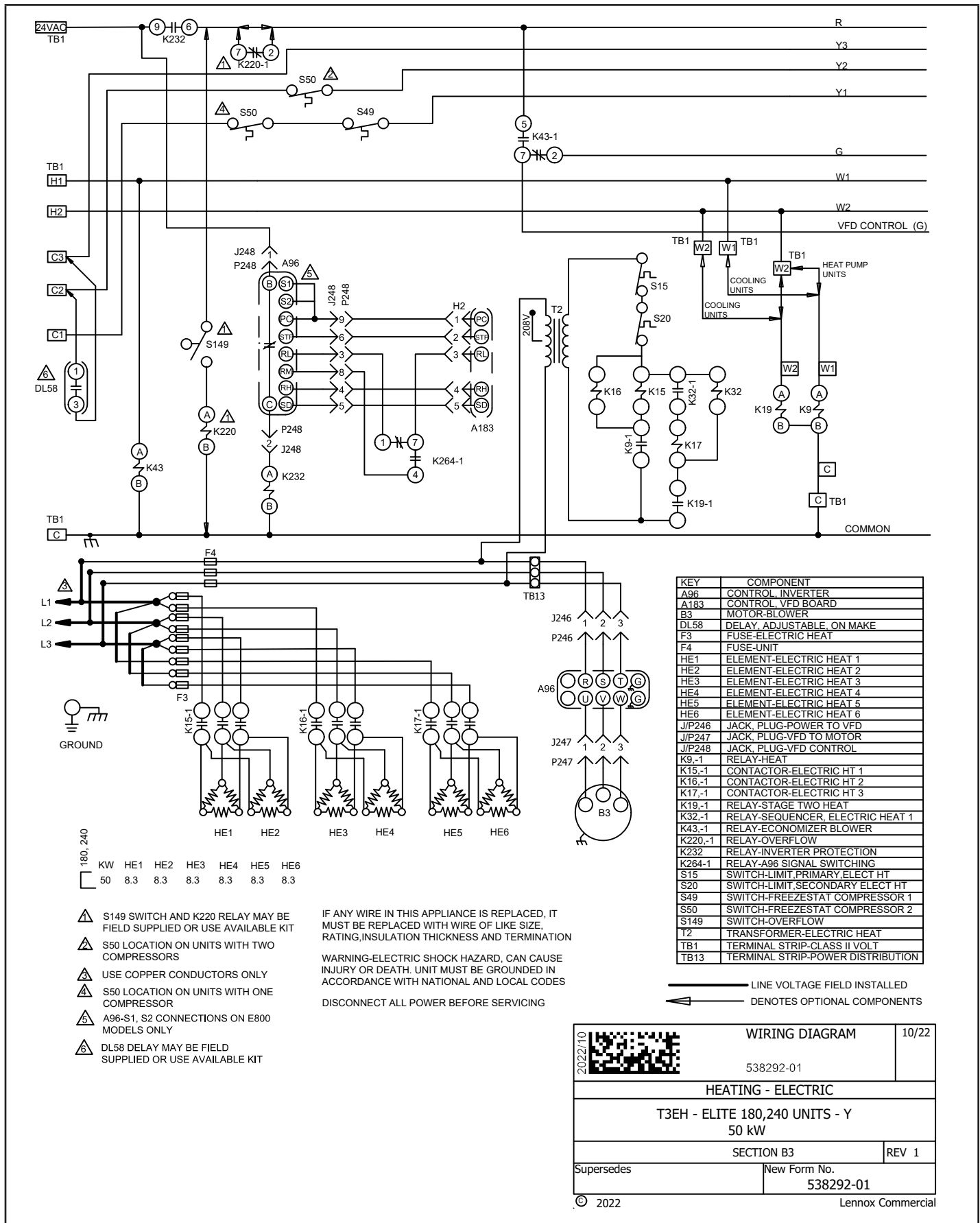


FIGURE 33. T3EH-50 (Y Voltage) for use with EL180XA and EL240XA Units

## Electric Heat Section Dimensions – inches (mm)

