



**F-PE, F-LE AND FT-LE SERIES
2/3 JACKETED ELECTRIC STATIONARY & TILTING KETTLES
PARTS AND SERVICE MANUAL**

EFFECTIVE APRIL 6, 2016

Superseding All Previous Parts Lists.

The Company reserves the right to make substitution in the event that items specified are not available.

ERRORS: Descriptive and/or typographic errors are subject to correction.

MARKET FORGE

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MAINTENANCE

LOW WATER LEVEL

Proper water level must be maintained within the jacket for the kettle to operate. Depletion of water may occur from excessive opening of, or leakage through the safety relief valve.

If water is below required operating level, either initially at start-up or during use, the kettle will automatically shut off, refuse to operate and the LOW WATER signal light will come on.

In order for the kettle to operate, the following procedure must be followed:

1. Trip the safety relief valve lever to relieve all pressure from the kettle jacket.
2. At exterior rear of kettle jacket remove nut from Air Vent.
3. Insert funnel into Air Vent opening and slowly add the indicated amount of clean water for:

MODELS	ADD	IF COMPLETELY EMPTY, ADD:
20 & 25 gallon	140 ounces (4.14 litres)	376 ounces (11.12 litres)
30 gallon	150 ounces (4.44 litres)	504 ounces (14.90 litres)
40 gallon	220 ounces (6.50 litres)	548 ounces (16.20 litres)
60 gallon	250 ounces (7.39 litres)	586 ounces (17.33 litres)
80 gallon	330 ounces (10.05 litres)	850 ounces (25.12 litres)
100 gallon	420 ounces (12.42 litres)	1088 ounces (32.17 litres)

4. Replace Air Vent nut.
5. Follow Air Venting Instructions below.
6. Continue normal Operating Procedure of kettle.

AIR VENTING INSTRUCTIONS

Periodically check Pressure Gauge when the kettle is cold. Reading should be in (green) VACUUM zone between 20 to 25, otherwise air is present and efficient heating will not occur.

To remove air, set Thermostat Knob at 8 and heat empty kettle until TEMPERATURE pilot light goes off.

Open Air Vent nut one full turn for 10 seconds to exhaust air from kettle jacket. Close Air Vent nut.

SAFETY VALVE MAINTENANCE AND TESTING



CAUTION

Under normal operating conditions a “try lever test” should be performed every two months. Under severe service conditions, or if corrosion and/or deposits are noticed within the valve body, testing must be performed more often. A “try lever test” should also be performed at the end of any non-service period.



CAUTION

Hot, high pressure fluid may be discharged from body drain and vent during “try lever” test. Care must be taken to avoid any bodily contact.



CAUTION

High sound levels may be experienced during “try lever” test. Wear proper safety equipment and exercise extreme care! Test at, or near, half of the operating pressure by holding the test lever fully open for at least two seconds to flush the valve seat free of sediment and debris. Then release lever and permit the valve to snap shut.

If lift lever does not activate, or there is no evidence of discharge, turn off equipment immediately and contact a licensed contractor or qualified service personnel.

TROUBLESHOOTING

The table below gives information to assist service personnel in locating the general source of the problems, which occur with the self-contained kettles. Before attempting to locate the source of difficulty described, the technician should be familiar with basic functioning described in basic functioning under the introduction section.

PROBLEM (PROBABLE CAUSE)	REMEDY
1. Indicator light fails to light with switch in ON position and thermostat dial set.	
a. Power to kettle is OFF.	a. Locate external circuit breaker shut-off for incoming power and place in ON position.
b. Kettle tilted (FT__LE Only).	b. Return to full vertical position.
c. Low water level in steam jacket, low water light on.	c. Fill jacket.
d. Indicator light burned out.	d. Replace light.
e. Faulty power switch.	e. Replace switch.
f. Faulty thermostat.	f. Replace thermostat.
g. Faulty tilt interlock switch of time delay (FT__LE Only).	g. Replace as required.
h. Faulty level control.	h. Replace control.
i. Faulty wiring.	i. Inspect condition of wire and tightness of all connectors. Correct as required.
2. Kettle not hot enough to boil water with thermostat dial set at "10".	
a. Air in kettle jacket.	a. Open bleed vent one full turn for 10 seconds and close.
b. Faulty relief valve.	b. Replace valve.
c. Burned out heating element.	c. Refer to #4. Heating Element Replacement.
3. Low water light on.	
a. Low water level in jacket.	a. Fill jacket (refer to operating instructions).
b. Defective level control.	b. Replace control.
4. Kettle hard to tilt (FT__LE models only).	
a. Gears dry.	a. Apply high quality bearing grease inside console.
b. Worn trunnion bearings.	b. Disassemble left and right side bearings and replace as required.

REPAIR AND REPLACEMENT

#1 GENERAL

In the parts section of this manual contains a listing of all replaceable parts and associated illustrations of the kettle. Disassembly procedures will be obvious from the illustrations. When replacing probes or gauges in the steam jacket, it is essential to install replacements so as to obtain a pressure tight seal. Tape sealant should be used.

#2 MODEL SERIES FT__LE DISASSEMBLY

All controls are accessed by lowering the kettle to the full tilt position and removing screw and bottom cover. The tilting gear mechanism is contained inside the console. Removal of screw and console cover permits access to gears for service and periodic application of gear grease.

#3 MODEL SERIES F-__PE DISASSEMBLY

To access controls, screw is removed and bottom cover

is slid down to the floor, Repair and testing of contactors and water level contactors assisted by loosening the separate mounting plate for these components. For all other controls, it is necessary to reach up inside the kettle.

NOTE: For more extensive repair, it is possible to disassemble the pedestal mounting and lift the kettle off the base plate. After repairs are completed, the base plate cover must be resealed to the floor and the pedestal using Silicone sealant.

#4 HEATING ELEMENT REPLACEMENT

Heating elements are replaceable. The kettle is equipped with three separate protective features – a low water level control, a tilt shut-off switch and a thermostat control.

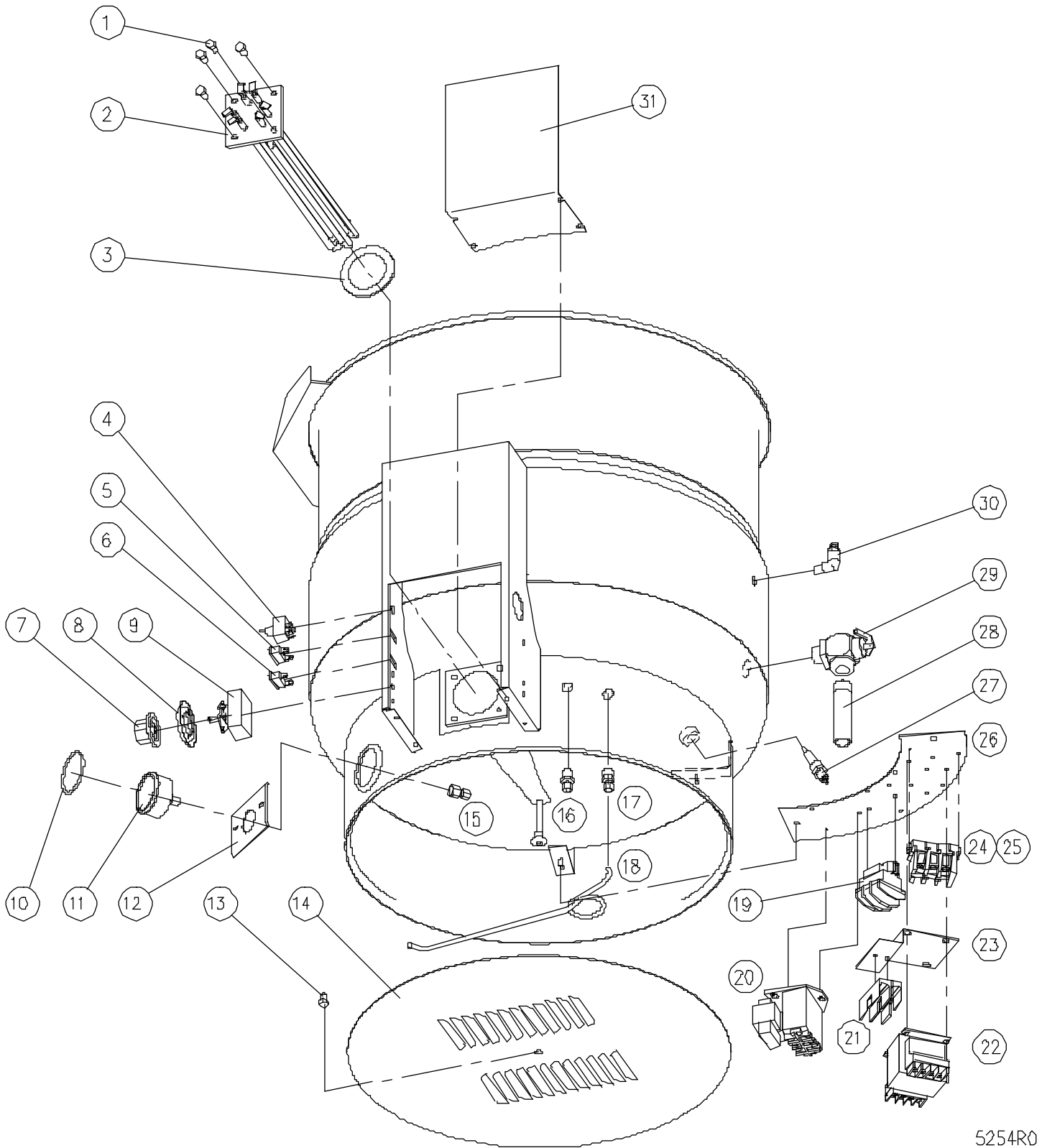
Defective elements are isolated by testing each element with an ohmmeter. If a zero ohm reading cannot be obtained for any element, it is defective.

To replace defective element, proceed as follows:

F-__PE	F-__LE	FT__LE
1. Lay kettle on cover hinge.	1. Lay kettle on cover hinge.	1. Lay kettle on cover hinge (if so equipped) or on rear of kettle.
2. Remove screws from both halves of bottom cover.	2. Remove flanged foot from each leg.	2. Remove screws from bottom cover.
3. Remove each cover half separately,	3. Remove screws from bottom cover.	3. Remove cover.
4. Remove nuts from element	4. Remove cover.	4. Remove nuts from element.
5. Remove element.	5. Remove, nuts from element.	5. Remove element.
6. Install new element.	6. Remove element.	6. Install new element.
7. Reverse steps 1-4.	7. Install new element.	7. Reverse steps 1-4.
	8. Reverse steps 1-5.	

MODELS	KW	PHASE	280VAC AMP	240VAC AMP	480VAC AMP	220/380VAC AMP	240/415VAC AMP
20 gallon kettles	12	1	57	50	25	-	-
		3	34	29	15	32	29
30 gallon kettles	15	1	73	63	32	-	-
		3	42	37	18	40	37
40 gallon kettles	24	3	67	58	29	63	58
60 gallon kettles	24	3	67	58	29	63	58
80 gallon kettles	24	3	67	58	29	63	58
F-100PE	24	1	115	100	50	-	-
		3	67	58	29	63	58
FT-100LE Optional	24	3	67	58	29	63	58
	33	3	91.6	79.4	39.7	50.1	45.9
F-100LE	24	3	67	58	29	63	58

KETTLE



5254R0

KETTLE

ITEM	PART NO.	DESCRIPTION	QUANTITY				
			20	30	40	60/80	100
1	97-6392	Hex Bolt, 5/16 - 18 x 3/4"	4	4	4	4	4
**2	97-5019	Element Assembly, 208V, 12 kW	1				
	97-5020	Element Assembly, 220/380V, 12 kW	1				
	97-5021	Element Assembly, 240/416V, 12 kW	1				
	97-5022	Element Assembly, 480V, 12 kW	1				
	--	Element Assembly, 600V, 12 kW	1				
	97-5033	Element Assembly, 208V, 15 kW		1			
	97-5034	Element Assembly, 220/380V, 15 kW		1			
	97-5035	Element Assembly, 240/416V, 15 kW		1			
	97-5036	Element Assembly, 480V, 15 kW		1			
	--	Element Assembly, 600V, 15 kW		1			
	97-5037	Element Assembly, 208V, 18 kW			1	1	
	97-5038	Element Assembly, 220/380V, 18 kW			1	1	
	97-5039	Element Assembly, 240/416V, 18 kW			1	1	
	97-5040	Element Assembly, 480V, 18 kW			1	1	
	--	Element Assembly, 600V, 18 kW			1	1	
	97-5127	Element Assembly, 208V, 24 kW			1	1	
	--	Element Assembly, 220/380V, 24 kW			1	1	1
	97-5128	Element Assembly, 240/416V, 24 kW			1	1	1
	97-5130	Element Assembly, 480V, 24 kW			1	1	1
	--	Element Assembly, 600V, 24 kW			1	1	1
	97-5893	Element Assembly, 208V, 33 kW			1	1	1
	--	Element Assembly, 220/380V, 33 kW			1	1	1
	--	Element Assembly, 240/416V, 33 kW			1	1	1
	97-5876	Element Assembly, 480V, 33 kW			1	1	1
	--	Element Assembly, 600V, 33 kW			1	1	1

** SELECT AS REQUIRED

ITEM	PART NO.	DESCRIPTION	QTY
3	97-5025	Element Gasket	
4	97-6513	Power Switch	
5	--	Pilot Light - Low Water	
6	--	Pilot Light - Temperature	1
7	97-5339	Dial	1
8	97-5012	Bezel	1
9	--	Thermostat	1
10	97-5620	"O" Ring	1
11	97-5002	Pressure Gauge	1

KETTLE

ITEM	PART NO.	DESCRIPTION	QTY
12	97-5147	Pressure Gauge Mounting Plate	1
13	--	Hex Bolt, 5/16 - 18 x 1/2"	1
**14	97-5051	Bottom Cover, (3041-7), FT-20LE	1
	--	Bottom Cover, (3041-8), FT-30LE	1
	--	Bottom Cover, (3041-9), FT-40LE	1
	--	Bottom Cover, (3041-10), FT-60LE	1
	--	Bottom Cover, (3041-11), FT-80LE	1
	--	Bottom Cover, (3041-12), FT-100LE	1
	--	Bottom Cover, (3041-1), F-20LE	1
	--	Bottom Cover, (3041-2), F-30LE	1
	--	Bottom Cover, (3041-3), F-40LE	1
	--	Bottom Cover, (3041-4), F-60LE	1
	97-5088	Bottom Cover, (3041-5), F-80LE	1
	--	Bottom Cover, (3041-6), F-100LE	1
	97-5080	Bottom Cover, F-20PE	1
	--	Bottom Cover, F-30PE	1
	--	Bottom Cover, F-40PE	1
	97-5714	Bottom Cover, F-60PE	1
	--	Bottom Cover, F-80PE	1
	--	Bottom Cover, F-100PE	1
15	97-5046	Connector, 1/4 cc x 1/4 FPT	1
16	97-5619	Connector, Thermostat	1
17	97-5000	Connector, 1/4 cc x 3/8 MPT	1
18	--	Copper Tube 1/4 x 26", 20 Gallon	1
	97-6382	Copper Tube, 1/4 x 28", 30, 40 Gallon	1
	--	Copper Tube, 1/4 x 29", 60 Gallon	1
	--	Copper Tube, 1/4 x 33", 80 Gallon	1
	--	Copper Tube, 1/4 x 35", 100 Gallon	1
**19	97-5609	Contactor, 208, 220, 240V - 12, 15, 18 kW	2
	97-5609	Contactor, 380, 220/380, 416, 240/416, 480, 600V, -12, 15, 18 kW	1
	97-5610	Contactor, 208, 220, 240V- 24 kW	2
	97-5610	Contactor, 480, 600V, 24 kW	1
	97-5611	Contactor, 208, 220, 240V - 33 kW	2
	97-5611	Contactor, 480, 600V -33 kW	1
20	97-6527	Level Control	1
**21	98-6187	Fuse Block, 600V (380V - 600V)	2
	98-6188	Fuse, 1/2 Amp., 600V (380V-600V)	2
	97-5476	Fuse, 250V, 3A (208-240V)	2

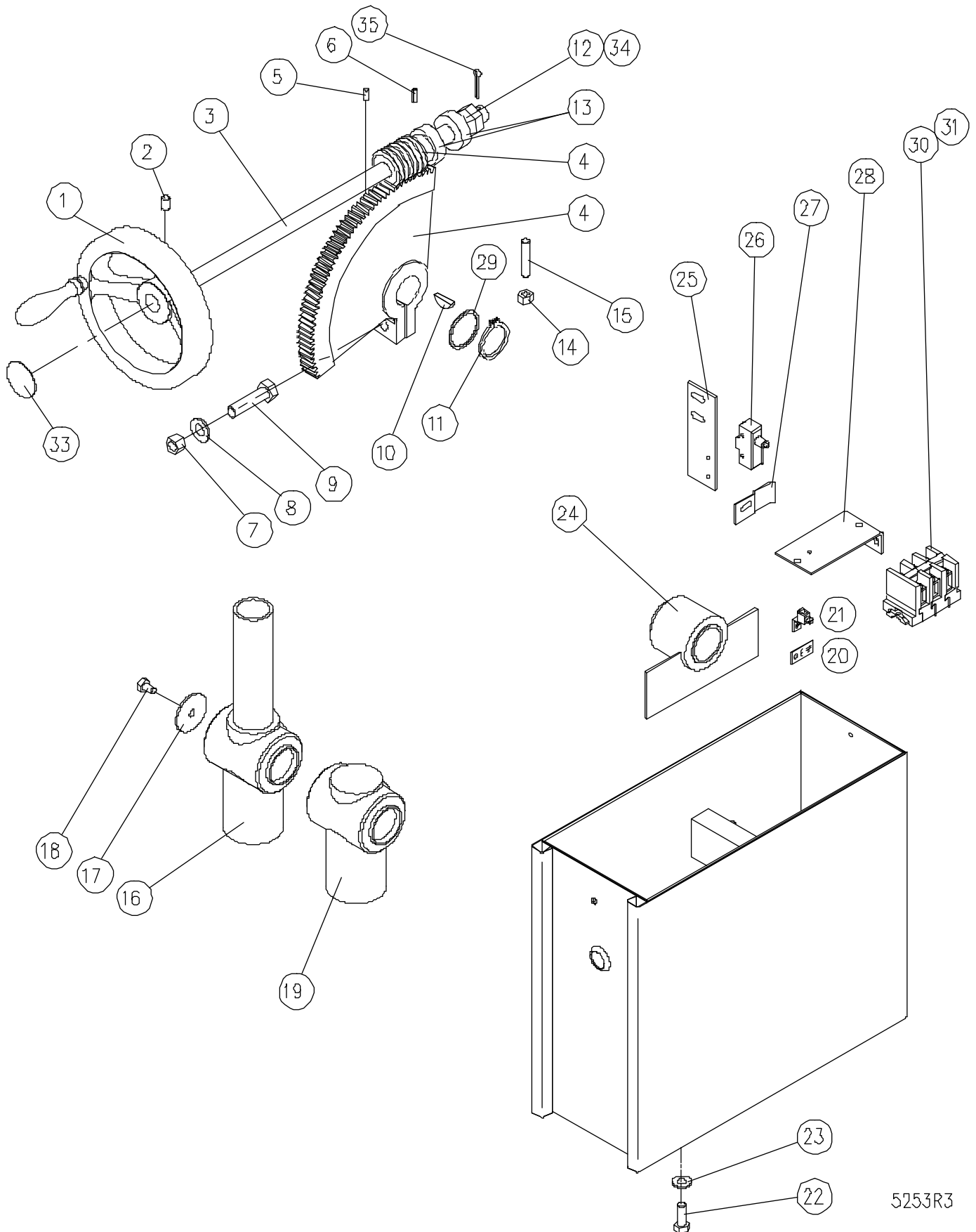
KETTLE

ITEM	PART NO.	DESCRIPTION	QTY
	97-5864	Fuse Holder, (208-240V)	2
	97-5476	Fuse, 250V, 3A, (220/380V and 240/415V)	1
	97-5864	Fuse Holder (220/380V and 240/415V)	1
**22	97-5616	Transformer, 380-220, 50/60 Hz, 100VA	1
	97-5616	Transformer, 415-220, 50/60 Hz, 100VA	1
	97-5613	Transformer, 480-240, 60 Hz, 100VA	1
	98-6191	Transformer, 600-240, 60 Hz, 100VA	1
23	97-6376	Transformer Fuse Block Mounting Bracket	1
24	98-6186	End Section	1
25	98-6185	Terminal Block Section	3
*	97-6586	Rail	1
**26	--	Component Mounting Plate (2781-1), 20 Gallon	1
	--	Component Mounting Plate (2783-1), 30 Gallon	1
	--	Component Mounting Plate (2782-1), 40 Gallon	1
	--	Component Mounting Plate (2784-1), 60 Gallon	1
	--	Component Mounting Plate (2785-1), 80, 100 Gallon	1
27	97-5425	Probe	1
28	97-6368	Down Tube	1
29	97-5009	Relief Valve	1
30	97-5415	Air Vent Assembly	1
**31	97-5658	Control Box Cover (6880-1), 20 Gallon	1
	--	Control Box Cover (6880-2), 30 Gallon	1
	--	Control Box Cover (6880-3), 40 Gallon	1
	--	Control Box Cover (6880-4), 60 Gallon	1
	--	Control Box Cover (6880-5), 80 Gallon	1
	--	Control Box Cover (6880-6), 100 Gallon	1
*32	97-5647	Control Panel Decal, 30 Gal.	1
	--	Control Panel Decal, 40 Gal.	
	--	Control Panel Decal, 60 Gal.	
	--	Control Panel Decal, 80 Gal.	
	--	Control Panel Decal, 100 Gal.	
	97-5646	Decal (20 Gallon)	1

* NOT SHOWN.

** SELECT AS REQUIRED.

TILT CONSOLE



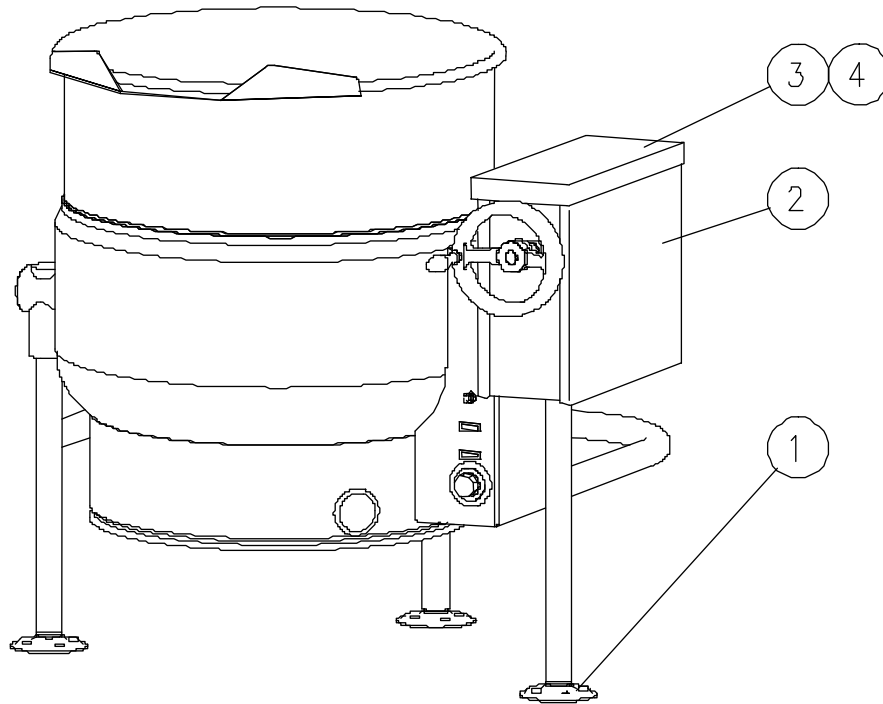
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TILT CONSOLE

ITEM	PART NO.	DESCRIPTION	QTY
1	97-5090	Hand Wheel	1
2	97-5091	Set Screw 3/8 -16 x 1/2"	1
3	--	Tilt Shaft	1
4	97-5822	Segment Gear & Worm Gear Kit (Includes 5 to 11)	
5	97-5416	Set Screw, 1/4 - 20 x 1/2	1
6	97-5093	Tension Pin, 3/16 Diameter x 1-1/4" L	1
7	--	Nut 1/2 - 13	1
8	--	Lock Washer, 1/2"	1
9	--	Bolt 1/2 - 13 x 2"	1
10	97-5652	Key Woodruff	1
11	97-5546	Retaining Ring	1
12	97-5096	Jam Nut	2
13	97-5909	Thrust Bearing	2
14	97-5584	Nut, 3/8 - 16	1
15	97-5365	Set Screw, 3/8 - 16 x 1 3/4"	1
16	97-5670	Out bore Bearing complete with extension - used on spring assist covers only - specify model.	1
17	97-5368	Stainless Steel Washer	1
18	97-5883	Bolt	1
19	97-5669	Out bore Bearing	1
20	--	Ground ID Tag	1
21	97-5052	Ground Lug	1
22	--	Bolt 3/8-16 x 1"	4
23	--	Lock Washer 3/8"	4
24	97-5547	Block Bearing	1
25.	--	Micro Switch Bracket	1
26	97-5414	Micro Switch	1
27	--	Micro Switch Activator Bracket	1
28	--	Terminal Block Bracket	1
29	--	Spacer, 1/16" Thick	As Required
30	98-6185	Terminal Block	3
31	98-6186	End Section	1
*	97-6586	Rail	1
* 32.	--	Screw, Console Cover, 10 - 32 x 1/2"	1
33	--	Decal - Tilt	1
34	97-5820	Washer, 3/4 ID x 1-1/4" OD	1
35	97-5821	Cotter Pin S.S. 3/16" x 1" L.	1

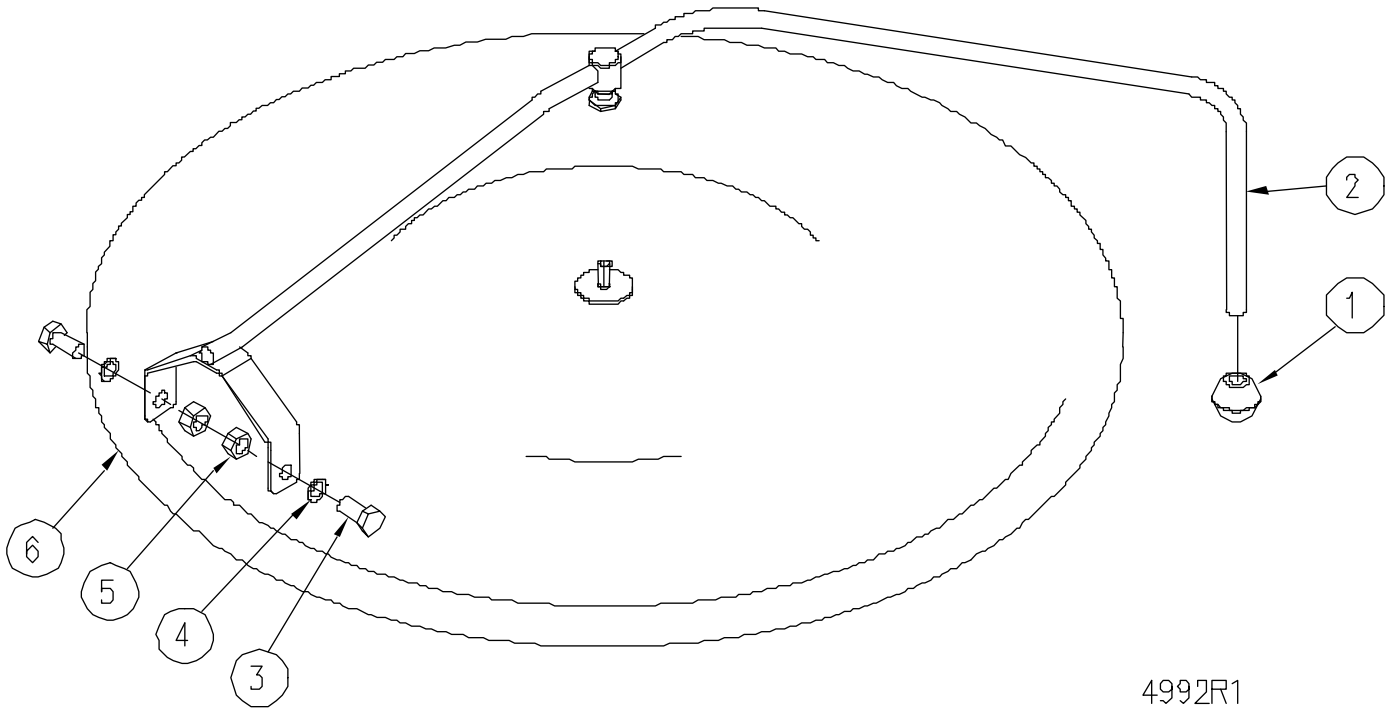
* NOT SHOWN

CONTROL BOX



ITEM	PART NO.	DESCRIPTION	QTY
1	97-5032	Adjustable Flanged Foot	3
2	--	Console Box	1
3	--	Console Cover	1
4	--	Screw 10 - 32 x 1/2"	1

HINGE ASSEMBLY

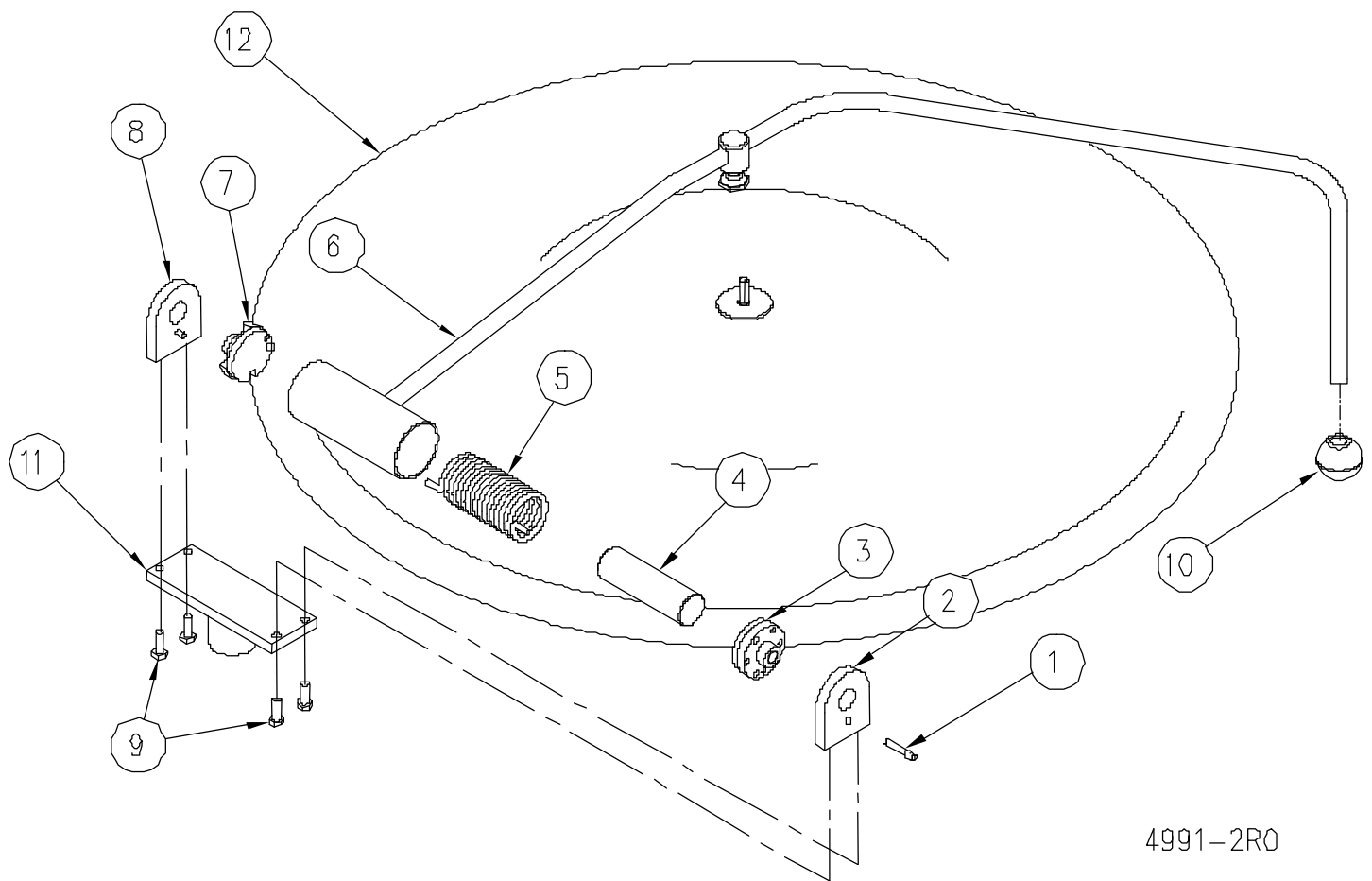


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ITEM	PART NO.	DESCRIPTION	QTY
1	97-5008	Knob	1
** 2	97-5596	Handle Assembly, 20 Gallon Kettle	1
	97-5597	Handle Assembly, 30 Gallon Kettle	1
	97-5598	Handle Assembly, 40 Gallon Kettle	1
3	97-5200	Bolt	2
4	97-5579	Fiber Washer	4
5	97-5601	Nut	2
6	97-5471	Cover, 20 Gallon Kettle	1
	97-5723	Cover, 30 Gallon Kettle	1
	97-5053	Cover, 40 Gallon Kettle	1
	97-5054	Cover, 60 Gallon Kettle	1
	97-5594	Cover, 80 Gallon Kettle	1
	97-5595	Cover, 100 Gallon Kettle	1

** SELECT AS REQUIRED

SPRING ASSIST HINGE ASSEMBLY



SPRING ASSIST HINGE ASSEMBLY

ITEM	PART NO.	DESCRIPTION	QTY
	97-5464	HINGE ASSEMBLY	
1.	97-5352	Lock Pin	1
2.	97-5343	End Lock Plate	1
3.	98-5354	Stationary Disc	1
4.	98-6074	Core	1
5.	97-5160	Spring	1
** 6.	97-5585	Handle Assembly, 20 Gallon Kettle	1
	97-5586	Handle Assembly, 30 Gallon Kettle	1
	97-6388	Handle Assembly, 40 Gallon Kettle	1
	97-5059	Handle Assembly, 60 Gallon Kettle	1
	97-5587	Handle Assembly, 80 Gallon Kettle	1
	97-5588	Handle Assembly, 100 Gallon Kettle	1
7.	97-6391	Rotary Disc	1
8.	97-5356	End Stop Plate	1
9.	97-6392	Cap Screws	4
10.	97-5008	Knob	1
11.	97-6393	Mounting Plate Assembly - Tilting Models Only	1
** 12.	97-5471	Covers, 20 Gallon Kettle	1
	97-5723	Covers, 30 Gallon Kettle	1
	97-5053	Covers, 40 Gallon Kettle	1
	97-5054	Covers, 60 Gallon Kettle	1
	97-5594	Covers, 80 Gallon Kettle	1
	97-5595	Covers, 100 Gallon Kettle	1

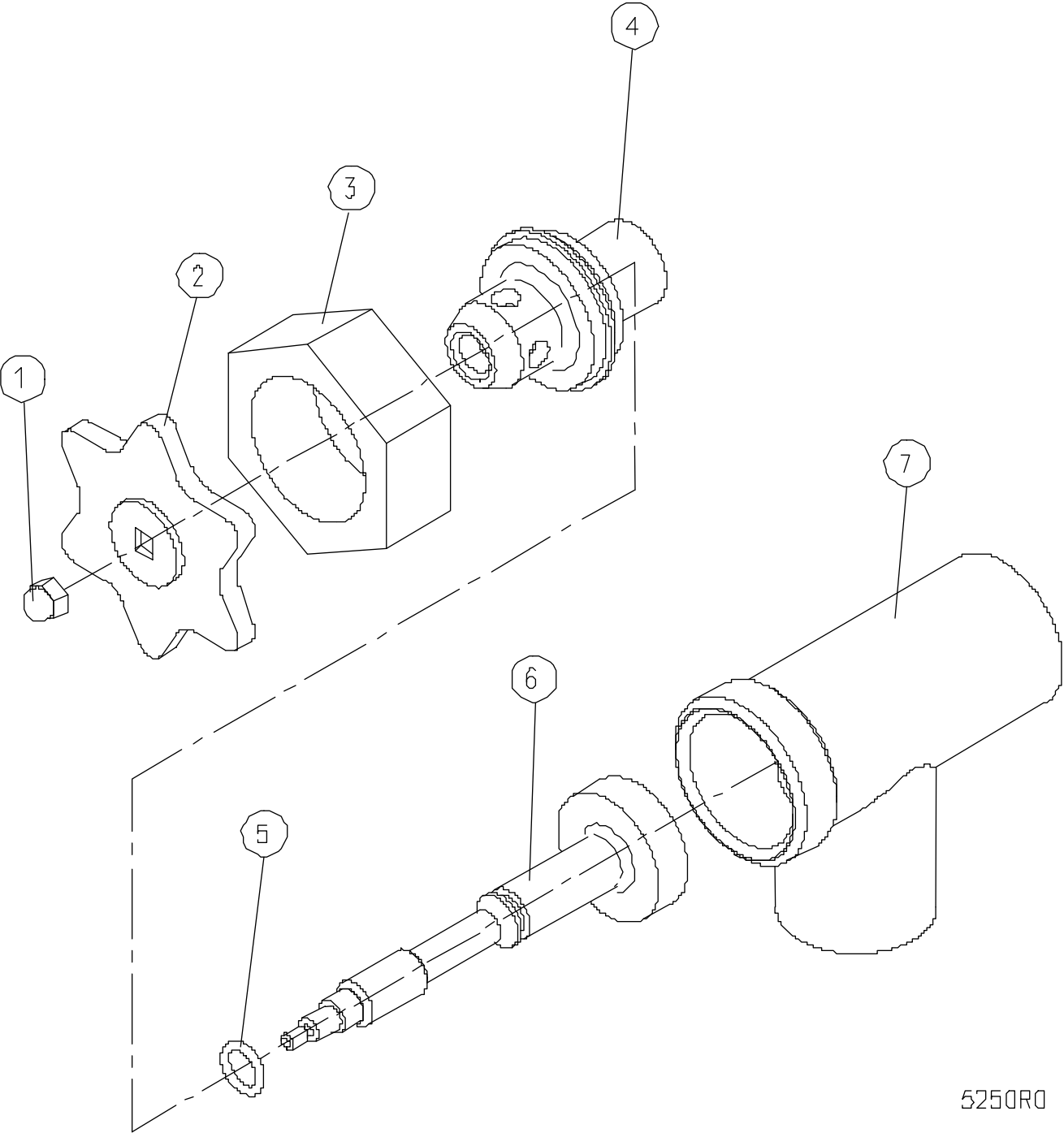
** SELECT AS REQUIRED.

SPRING ASSIST COVER ASSEMBLY FOR FIELD INSTALLATION ON FT-LE MODELS

PART NO.	DESCRIPTION
4225-1	FT-20LE
4225-2	FT-30LE
97-6733	FT-40LE
97-5581	FT-60LE
4225-5	FT-80LE
4225-6	FT-100LE

ITEMS NOT SHOWN

DRAW-OFF VALVE



5250R0

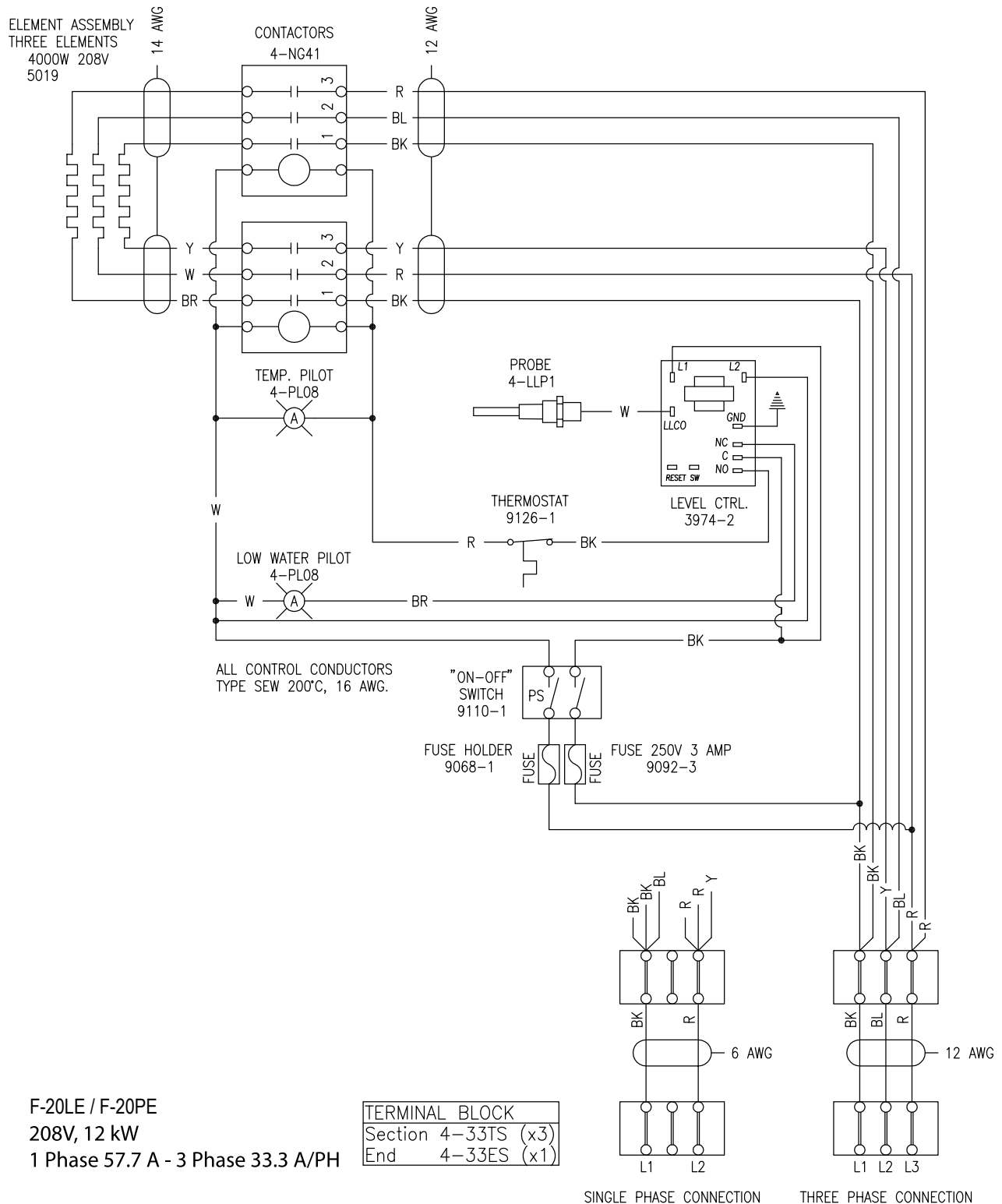
DRAW-OFF VALVE

ITEM	PART NO.	DESCRIPTION	QTY
	97-5062	1 - 1/2" DRAW-OFF VALVE ASSEMBLY	
1	98-6155	Acorn Nut 10-24 UNC	1
2	97-6656	Handle, Stainless Steel	1
3	97-5068	Gland Nut	1
4	97-5071	Bonnet	1
5	97-5077	"O" Ring	1
6	97-5074	Stem Assembly	1
7	97-6496	Valve Body	1

ITEM	PART NO.	DESCRIPTION	QTY
	97-5063	2" DRAW-OFF VALVE ASSEMBLY	
1	98-6155	Acorn Nut 10-24 UNC	1
2	97-5566	Handle, Stainless Steel	1
3	97-5069	Gland Nut	1
4	97-5072	Bonnet	1
5	97-5078	"O" Ring	1
6	97-5075	Stem Assembly	1
7	98-6156	Valve Body	1

ITEM	PART NO.	DESCRIPTION	QTY
	97-5605	3" DRAW-OFF VALVE ASSEMBLY	
1	97-5066	Acorn Nut, 7/16-14 UNC	1
2	97-5067	Handle, Stainless Steel	1
3	97-5070	Gland Nut	1
4	97-5073	Bonnet	1
5.	97-5079	"O" Ring	1
6	97-5076	Stem Assembly	1
7	97-6497	Valve Body	1

F-20LE / F-20PE

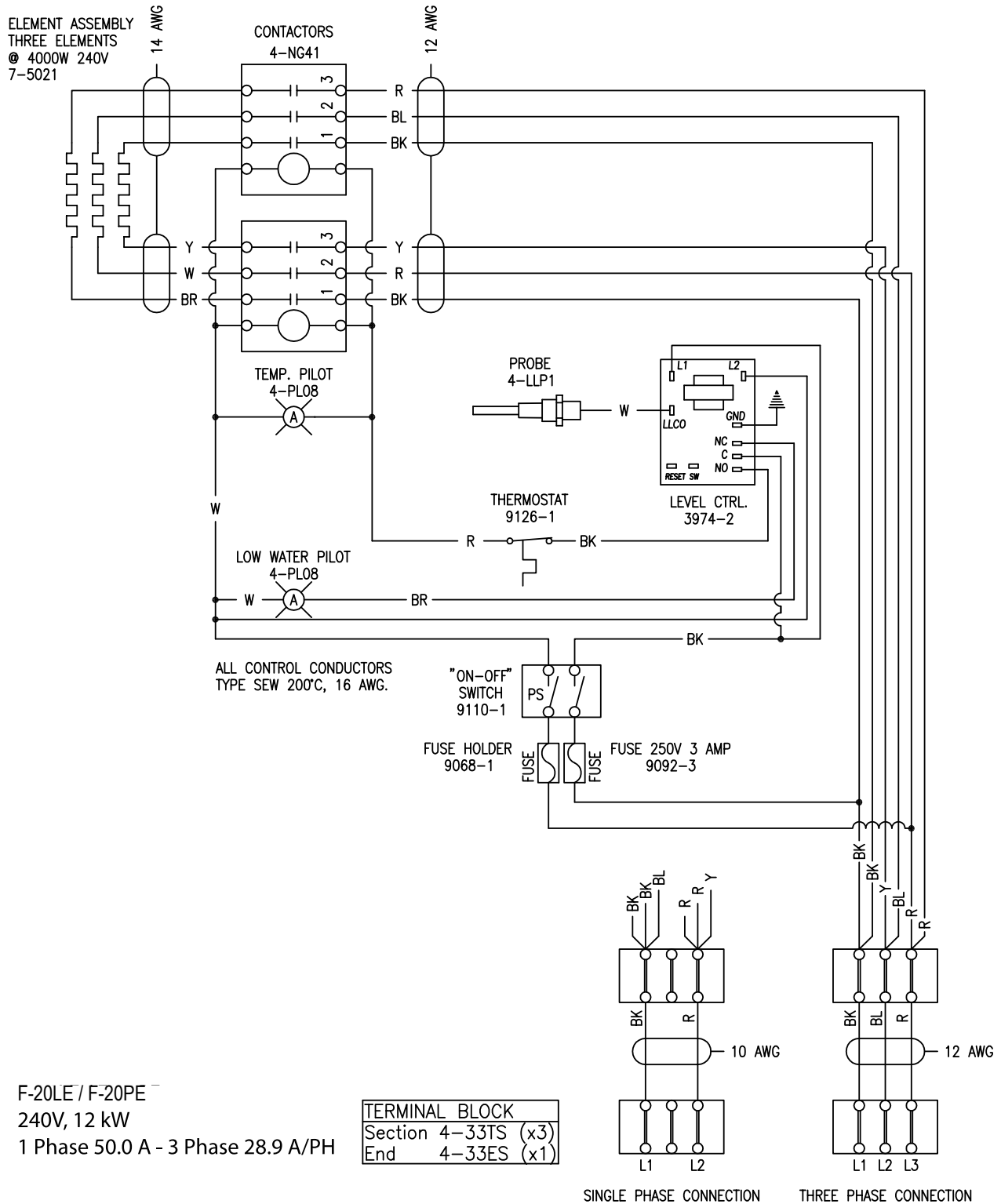


F-20LE / F-20PE

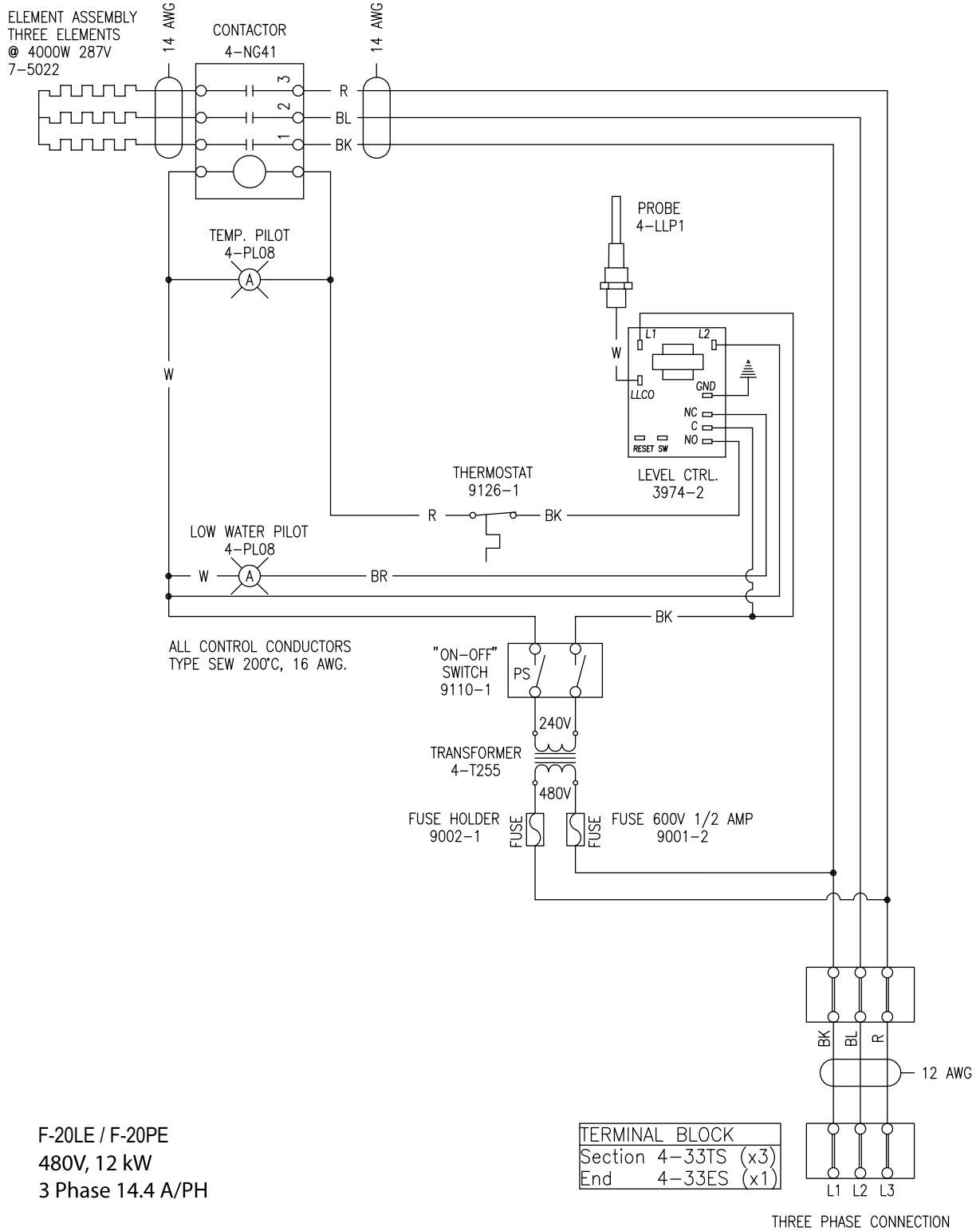
208V, 12 kW

1 Phase 57.7 A - 3 Phase 33.3 A/PH

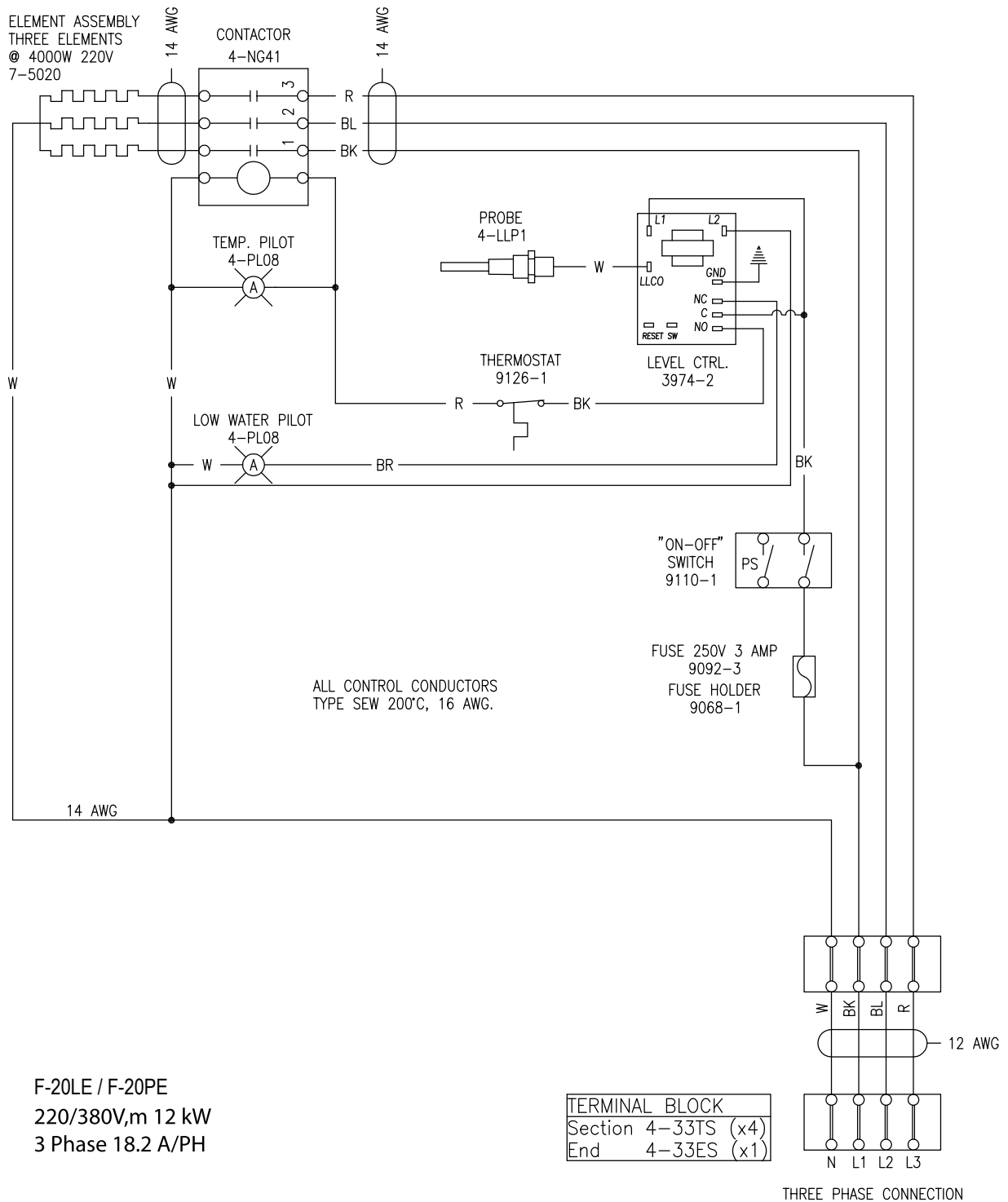
F-20LE / F-20PE



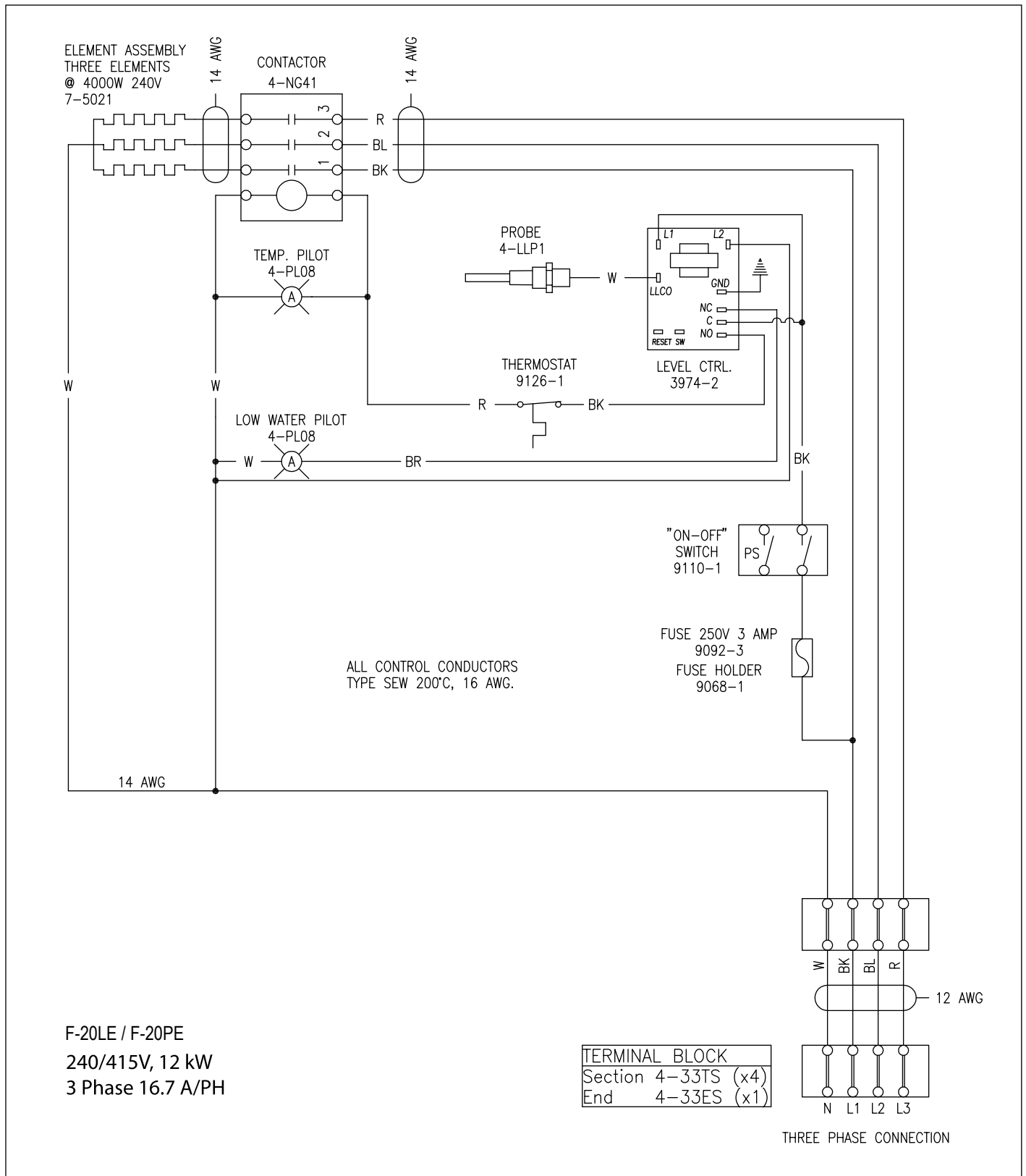
F-20LE / F-20PE



F-20LE / F-20PE

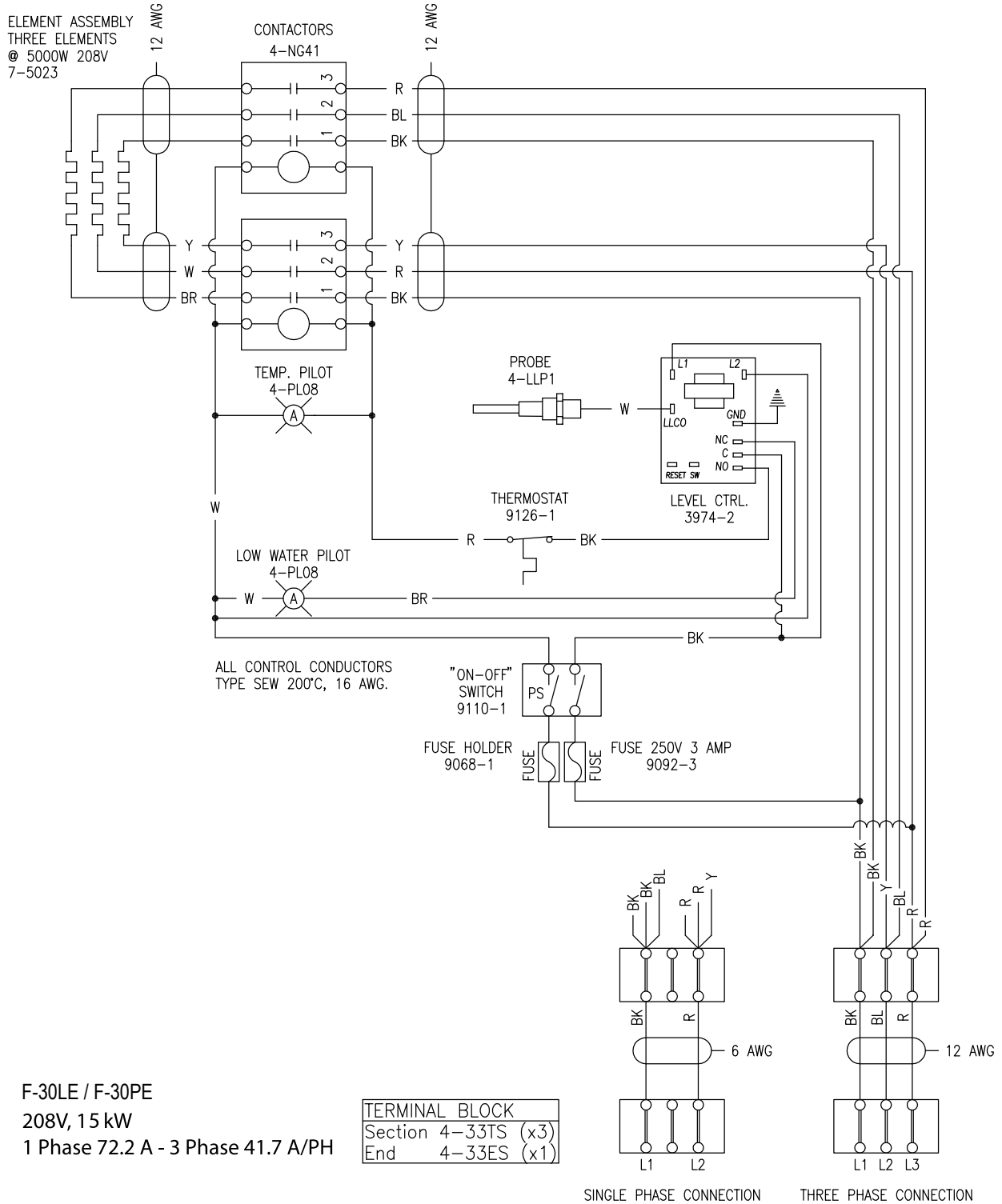


F-20LE / F-20PE



F-20LE / F-20PE
240/415V, 12 kW
3 Phase 16.7 A/PH

F-30LE / F-30PE

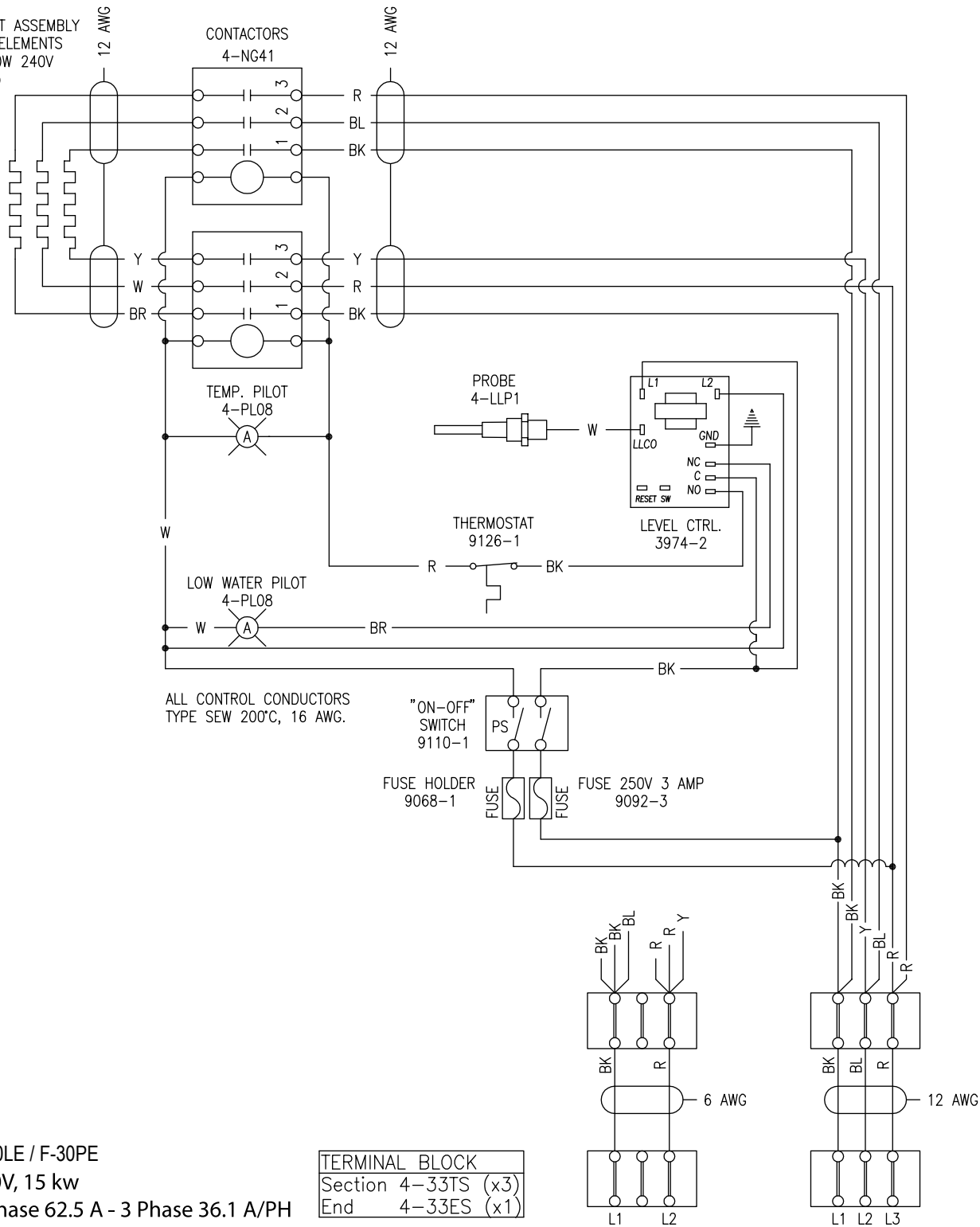


F-30LE / F-30PE
208V, 15 kW
1 Phase 72.2 A - 3 Phase 41.7 A/PH

F-30LE / F-30PE

ELEMENT ASSEMBLY
THREE ELEMENTS
@ 5000W 240V
7-5025

CONTACTORS
4-NG41



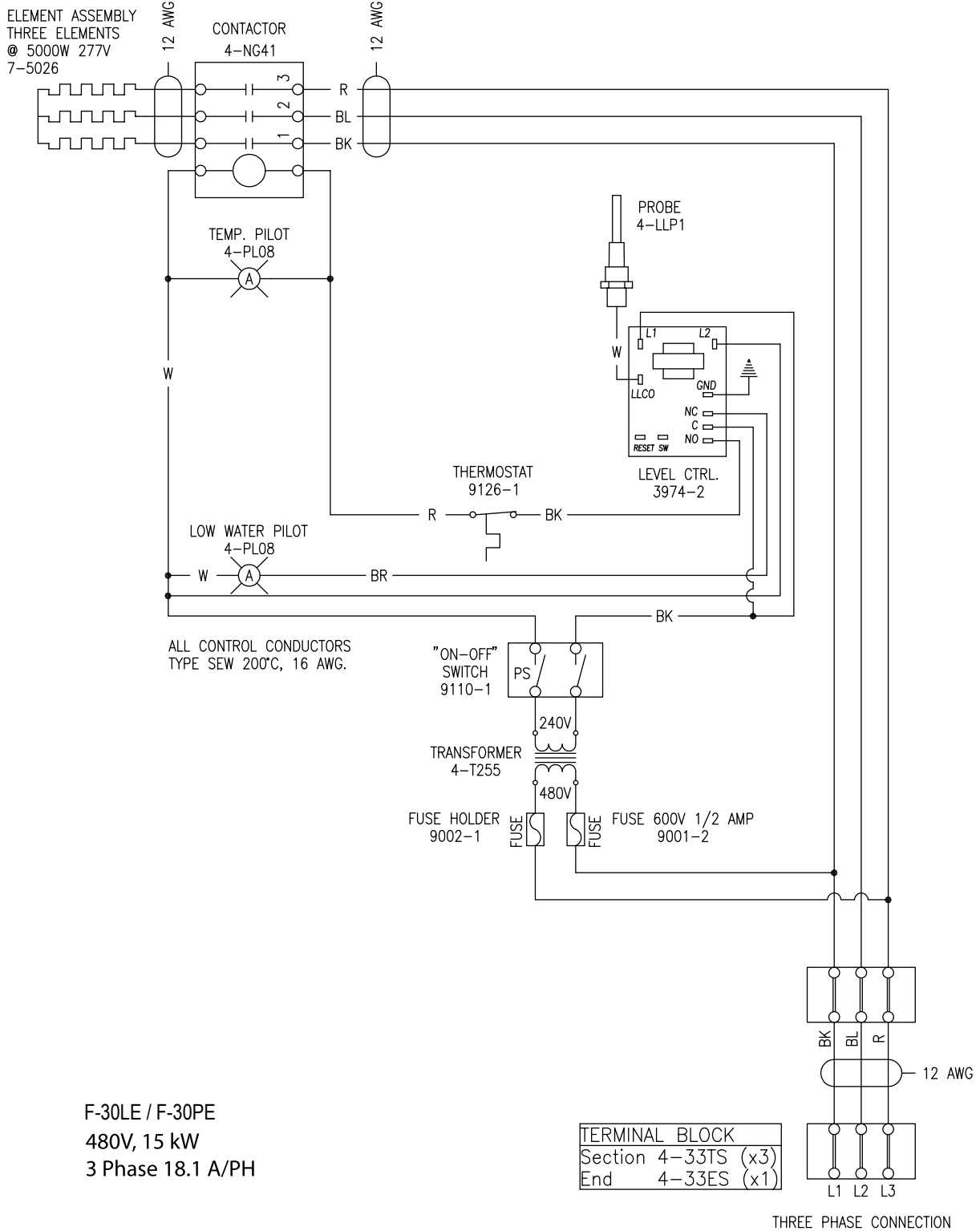
F-30LE / F-30PE
240V, 15 kw
1 Phase 62.5 A - 3 Phase 36.1 A/PH

TERMINAL BLOCK	
Section	4-33TS (x3)
End	4-33ES (x1)

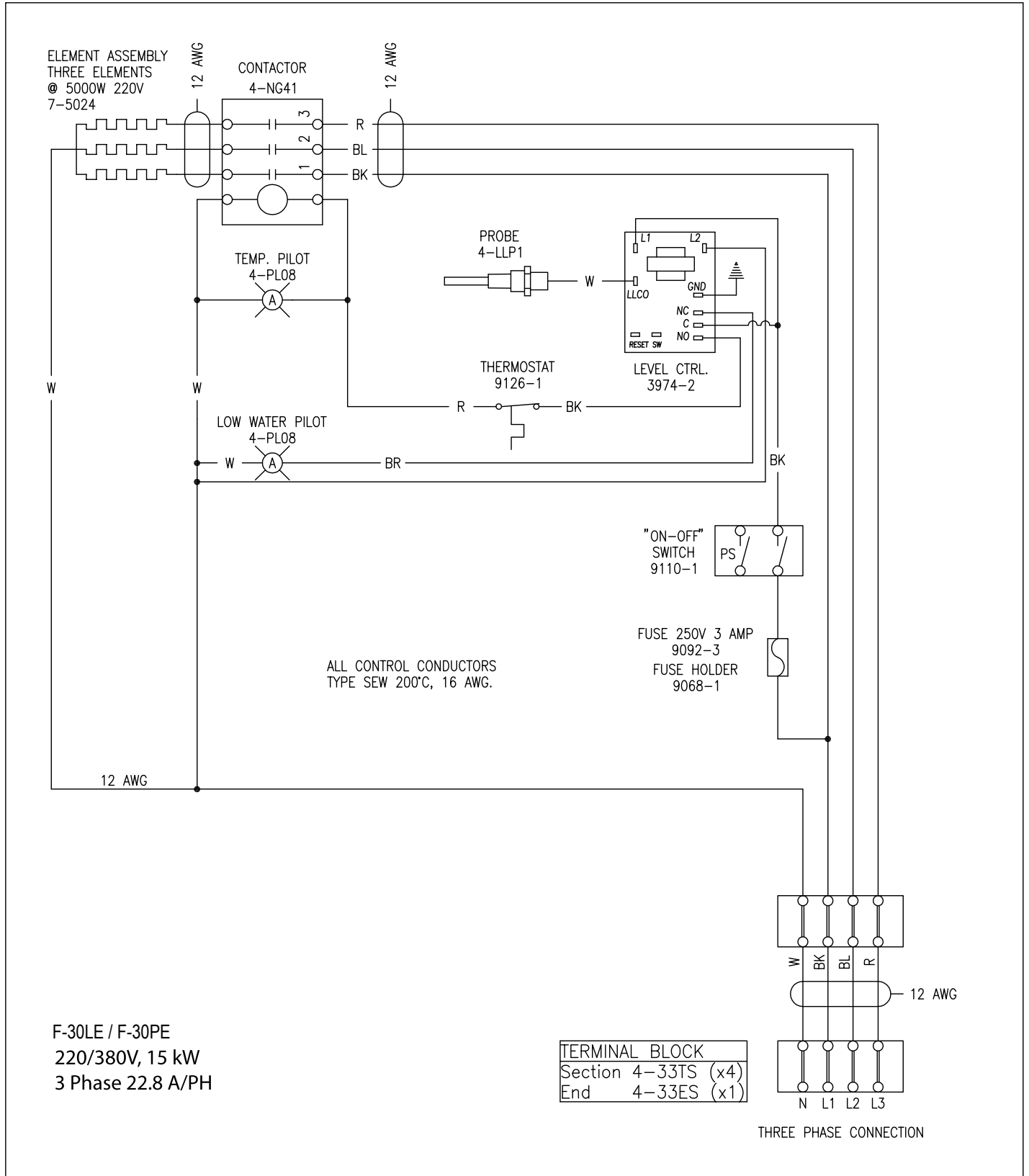
SINGLE PHASE CONNECTION

THREE PHASE CONNECTION

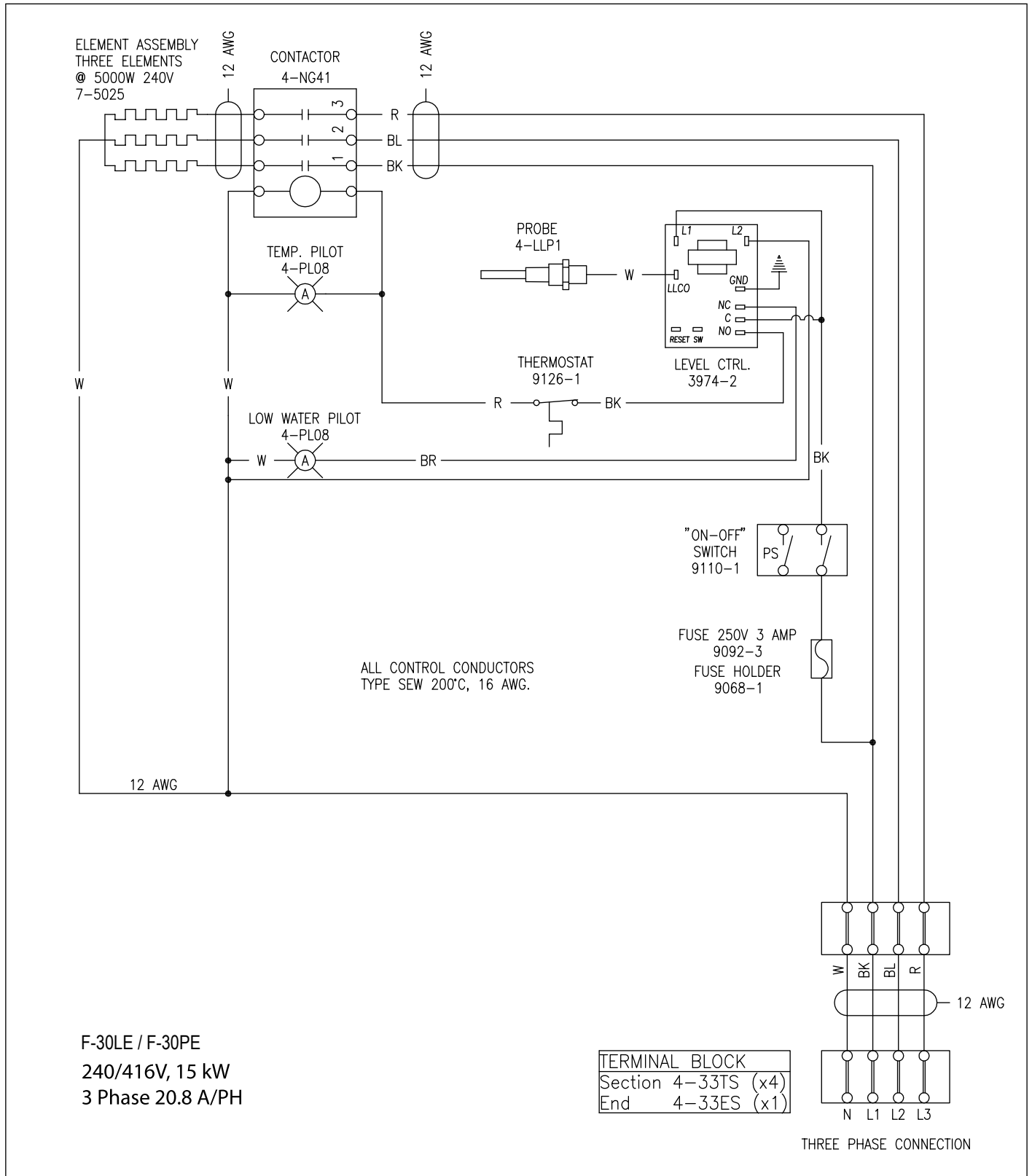
F-30LE / F-30PE



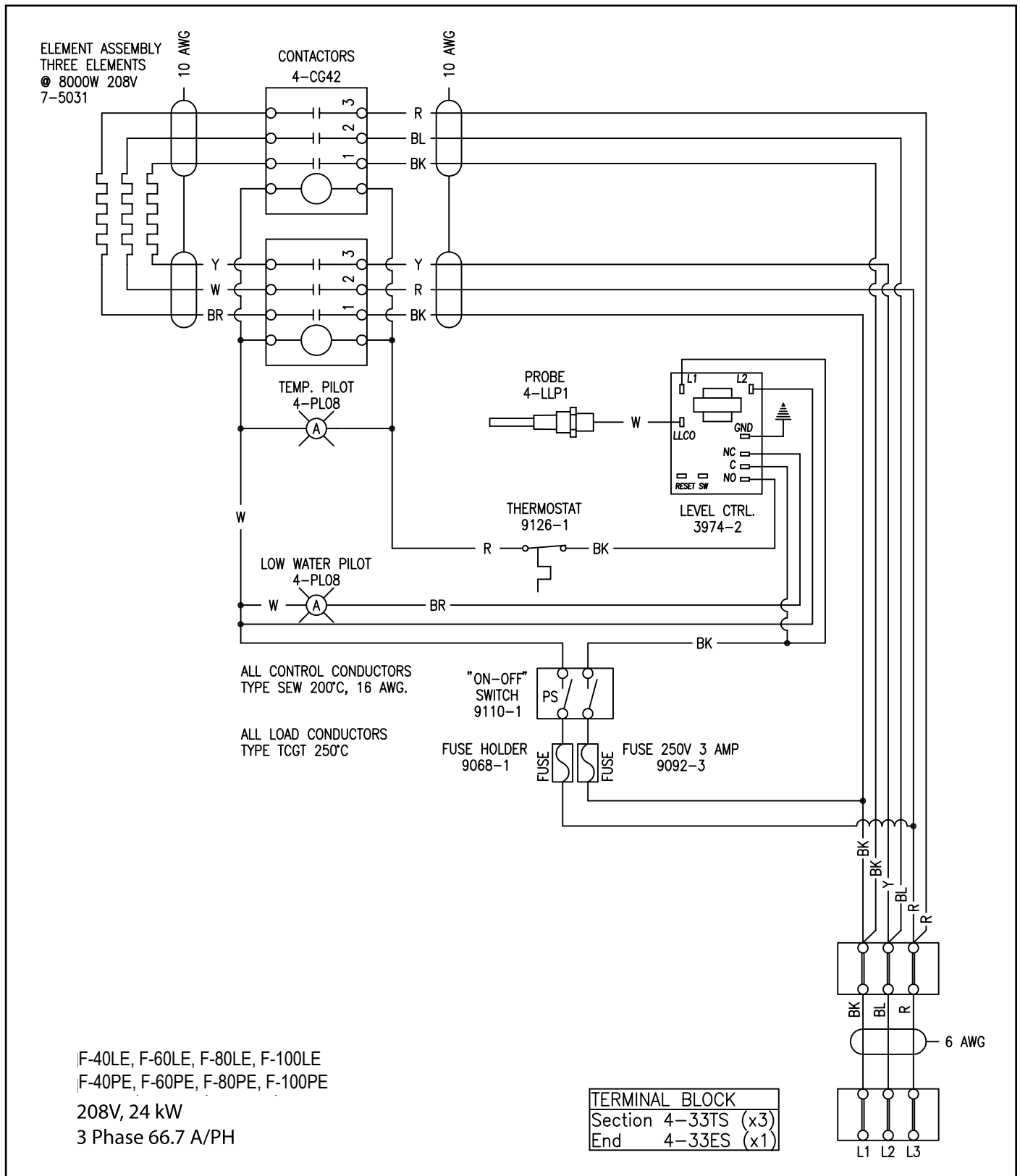
F-30LE / F-30PE



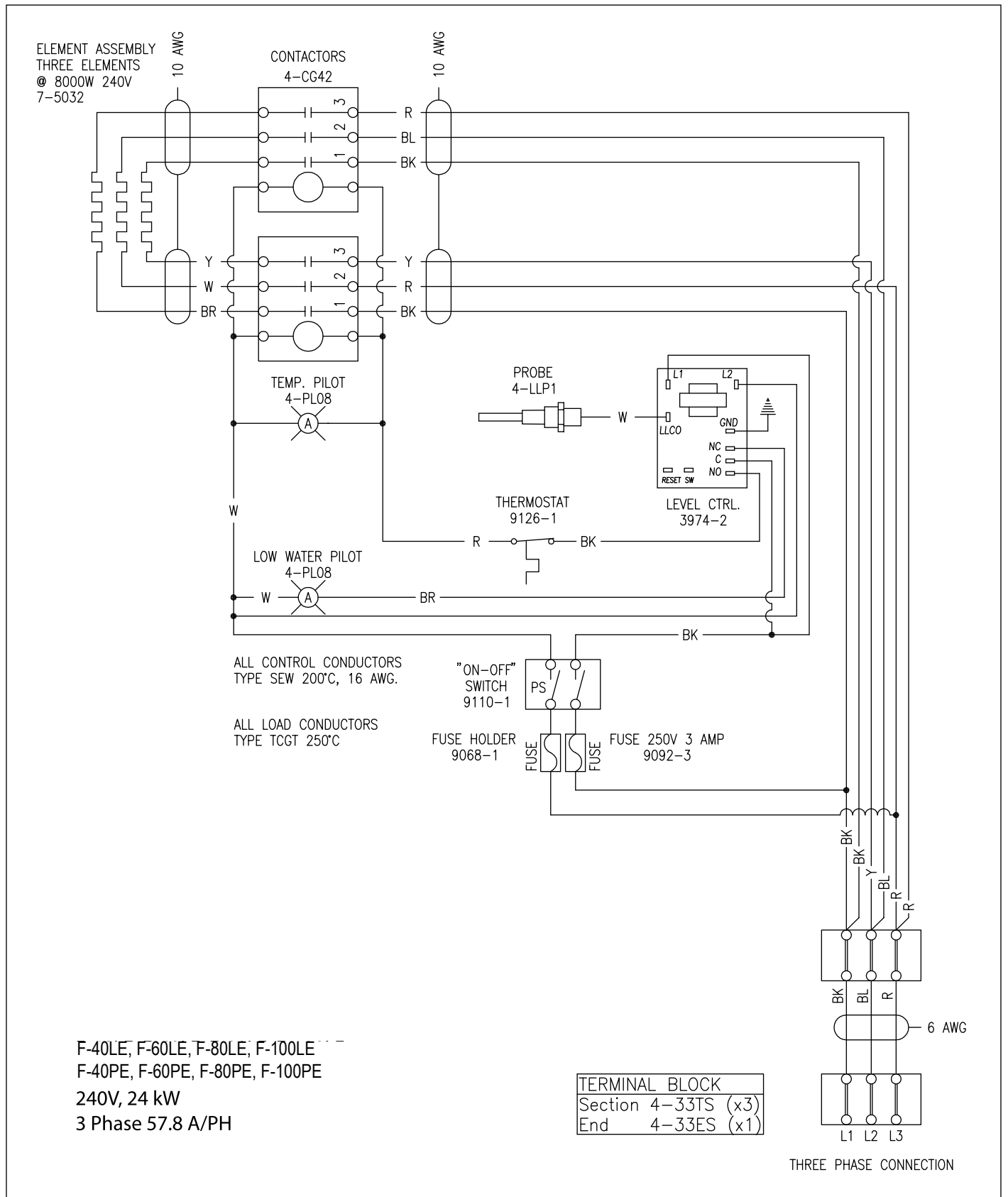
F-30LE / F-30PE



F-40LE, F-60LE, F-80LE & F-100LE / F-40PE, F-60PE, F-80PE & F-100PE



F-40LE, F-60LE, F-80LE & F-100LE / F-40PE, F-60PE, F-80PE & F-100PE



F-40LE, F-60LE, F-80LE & F-100LE / F-40PE, F-60PE, F-80PE & F-100PE

ELEMENT ASSEMBLY
THREE ELEMENTS
@ 8000W 277V
7-5033

CONTACTOR
4-CG42

TEMP. PILOT
4-PL08

LOW WATER PILOT
4-PL08

ALL CONTROL CONDUCTORS
TYPE SEW 200°C, 16 AWG.

ALL LOAD CONDUCTORS
TYPE TCGT 250°C

"ON-OFF"
SWITCH
9110-1

TRANSFORMER
4-T255

FUSE HOLDER
9002-1

PROBE
4-LLP1

THERMOSTAT
9126-1

LEVEL CTRL.
3974-2

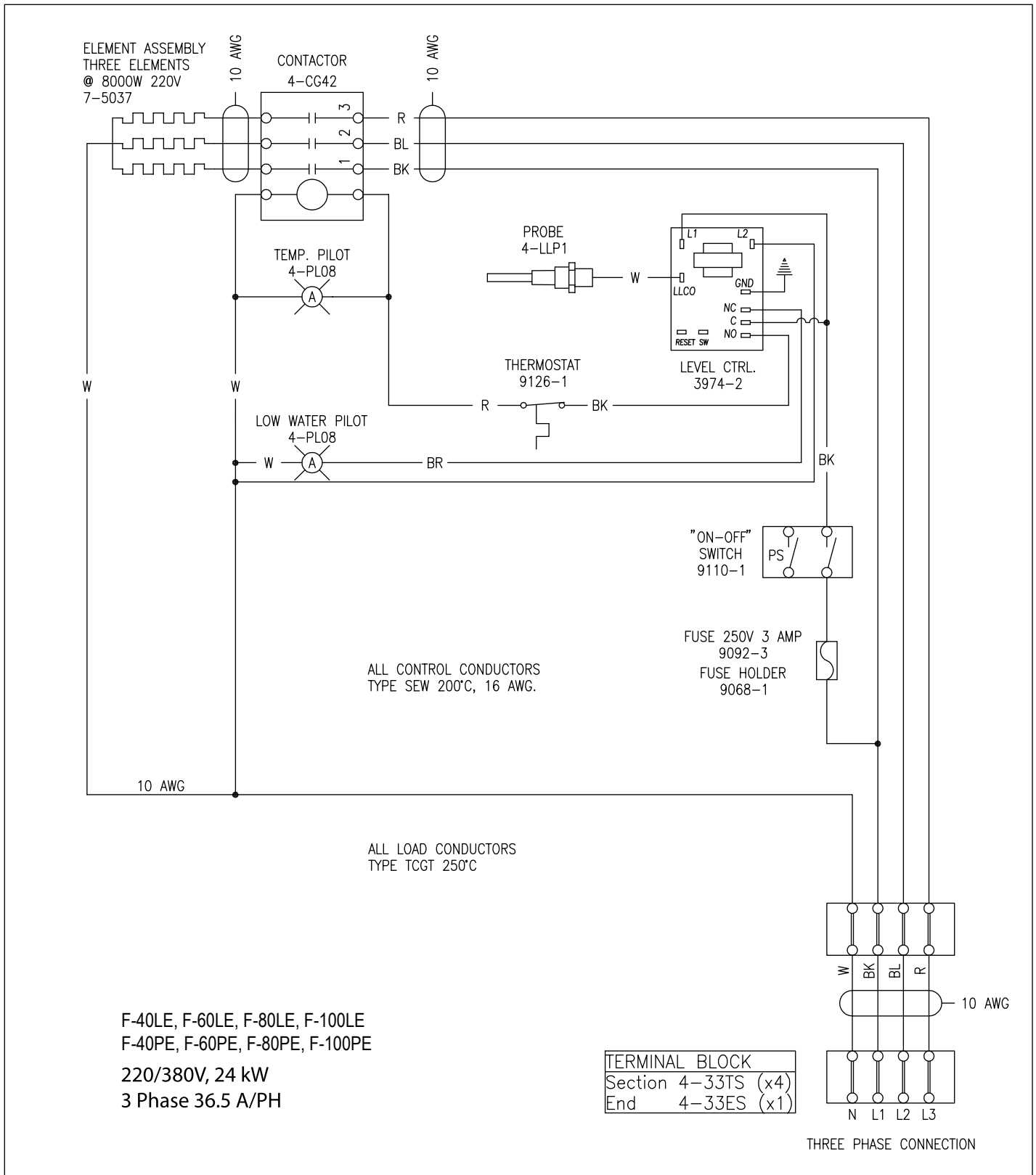
FUSE 600V 1/2 AMP
9001-2

F-40LE, F-60LE, F-80LE, F-100LE
F-40PE, F-60PE, F-80PE, F-100PE
480V, 24 kW
3 Phase 28.9 A/PH

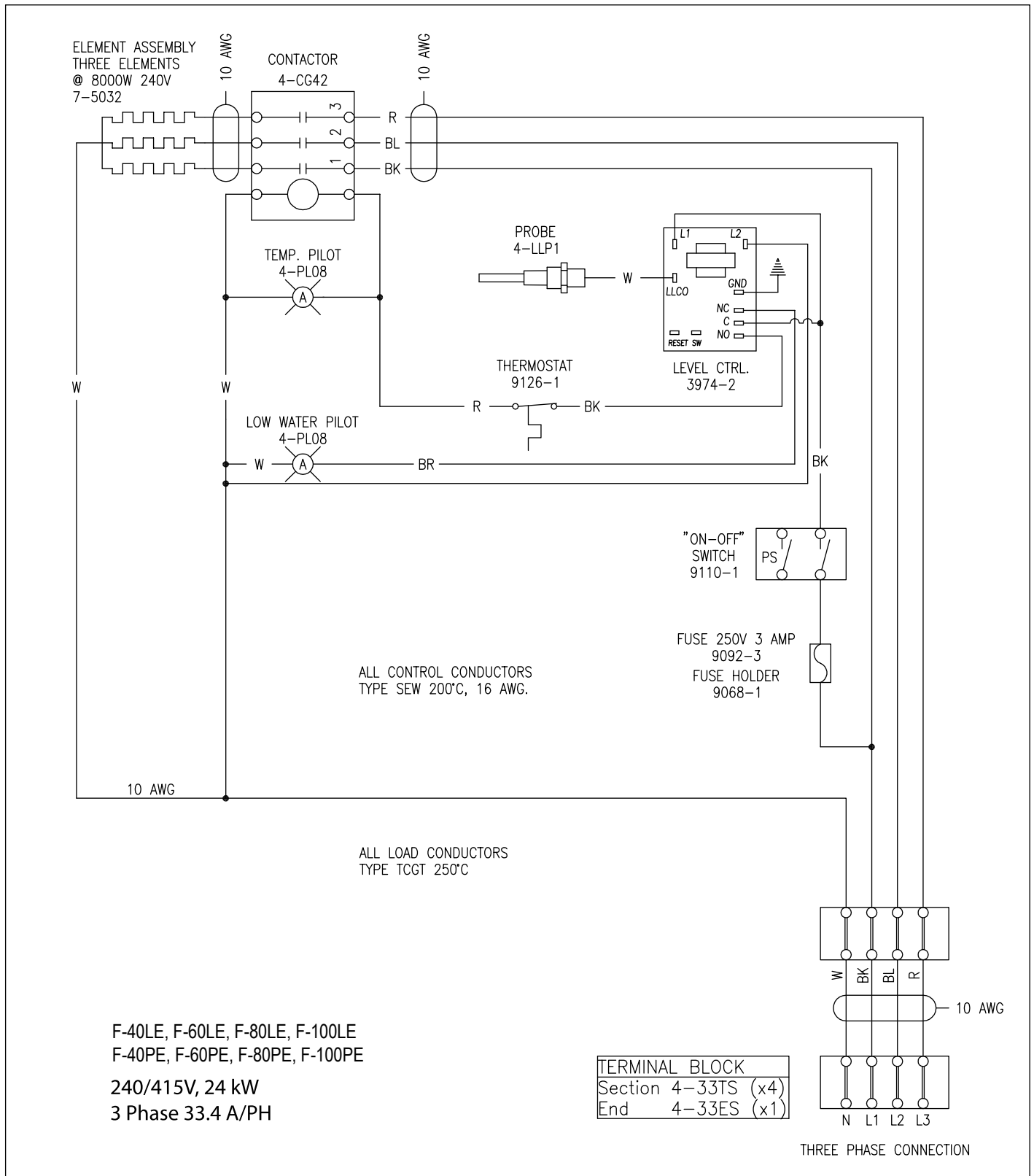
TERMINAL BLOCK	
Section	4-33TS (x3)
End	4-33ES (x1)

THREE PHASE CONNECTION

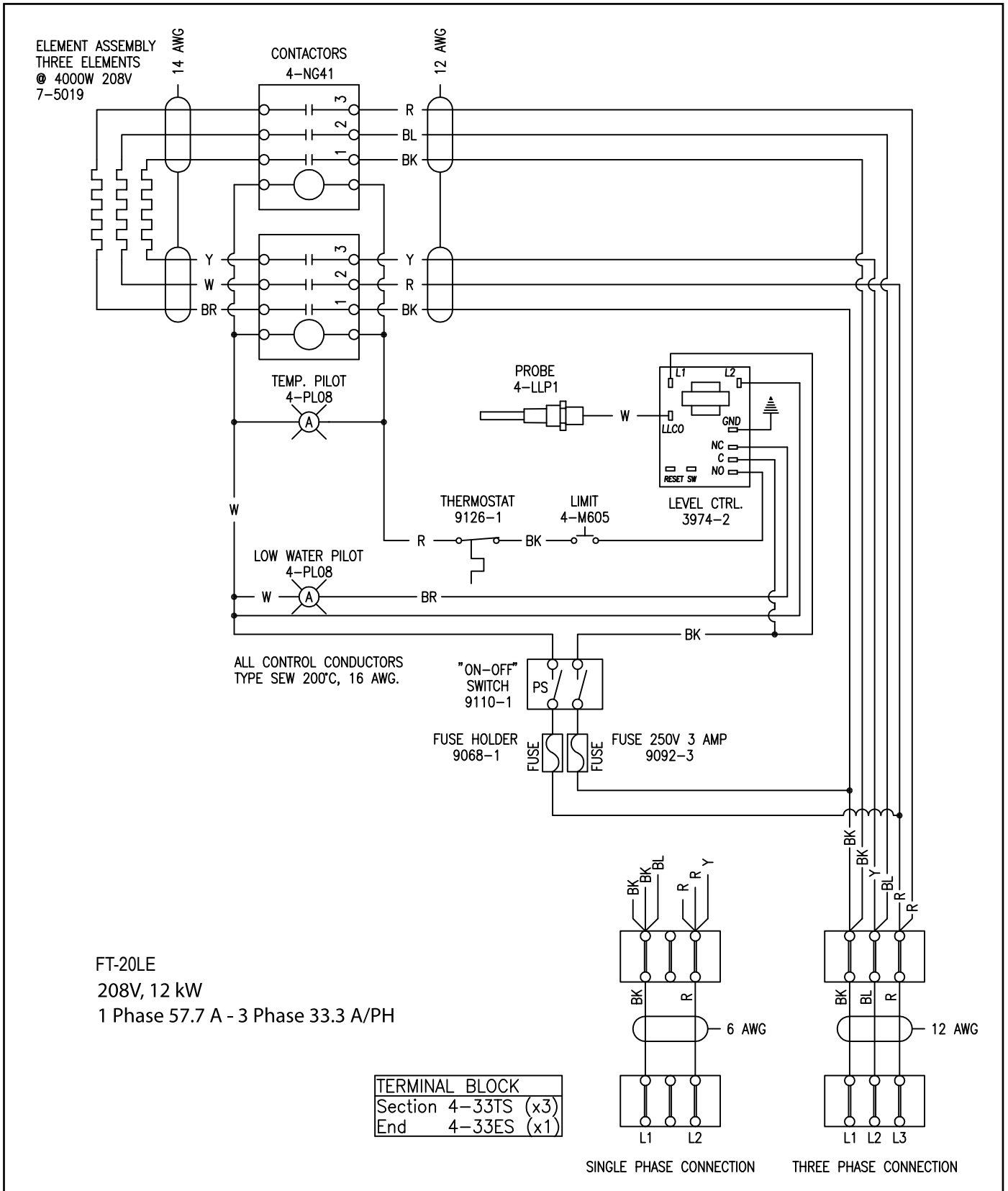
F-40LE, F-60LE, F-80LE & F-100LE / F-40PE, F-60PE, F-80PE & F-100PE



F-40LE, F-60LE, F-80LE & F-100LE / F-40PE, F-60PE, F-80PE & F-100PE



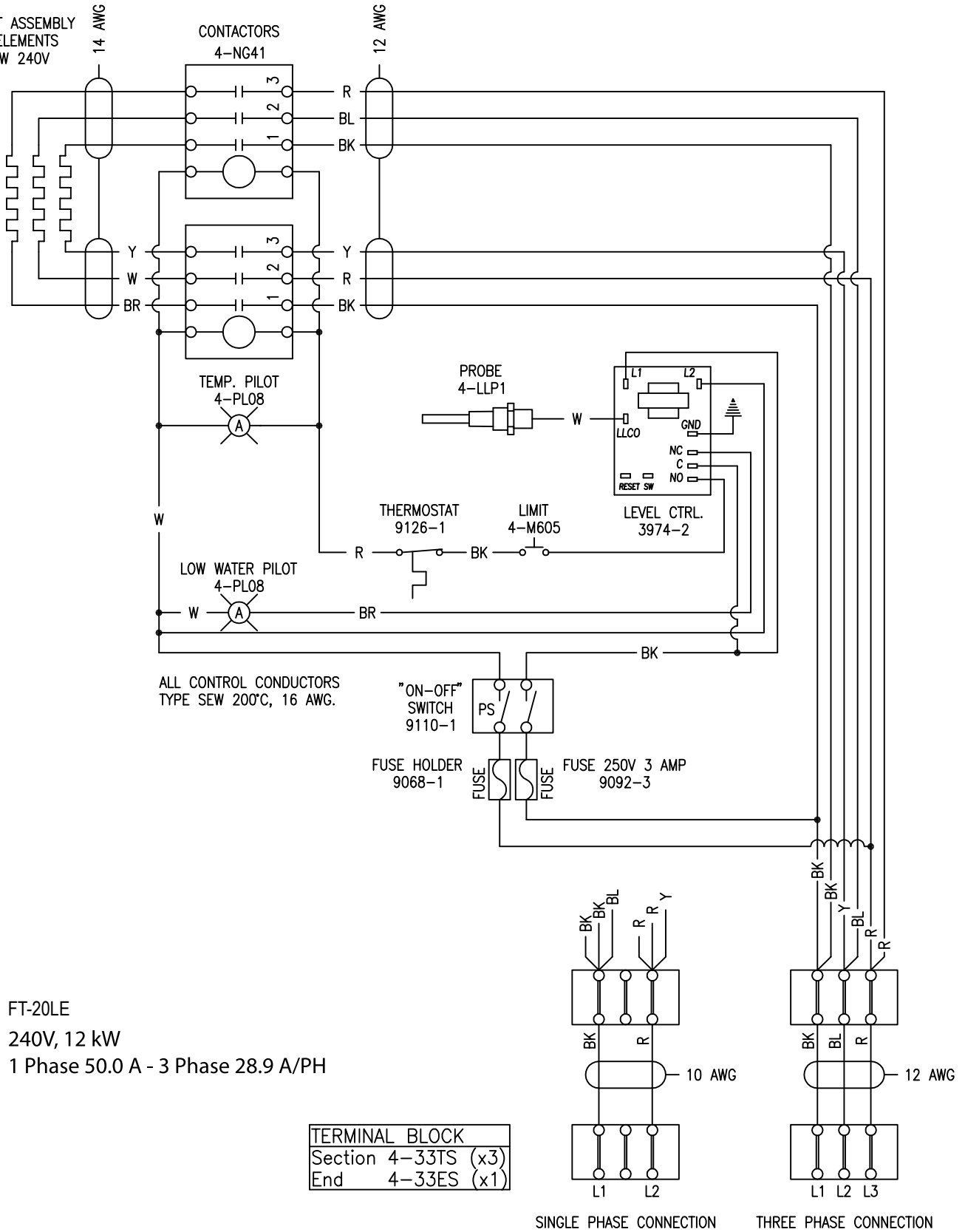
FT-20LE



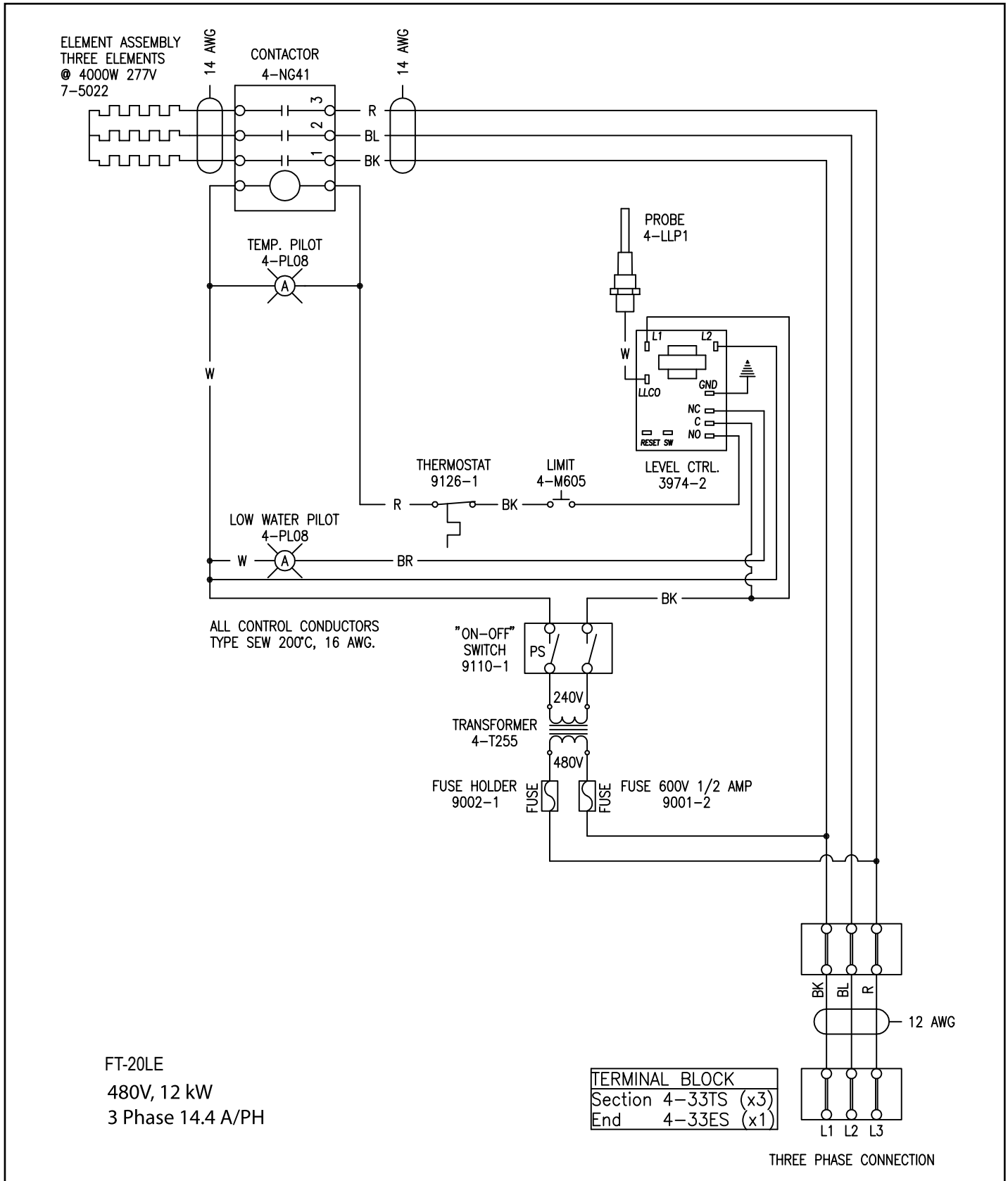
FT-20LE

ELEMENT ASSEMBLY
THREE ELEMENTS
Ⓢ 4000W 240V
7-5021

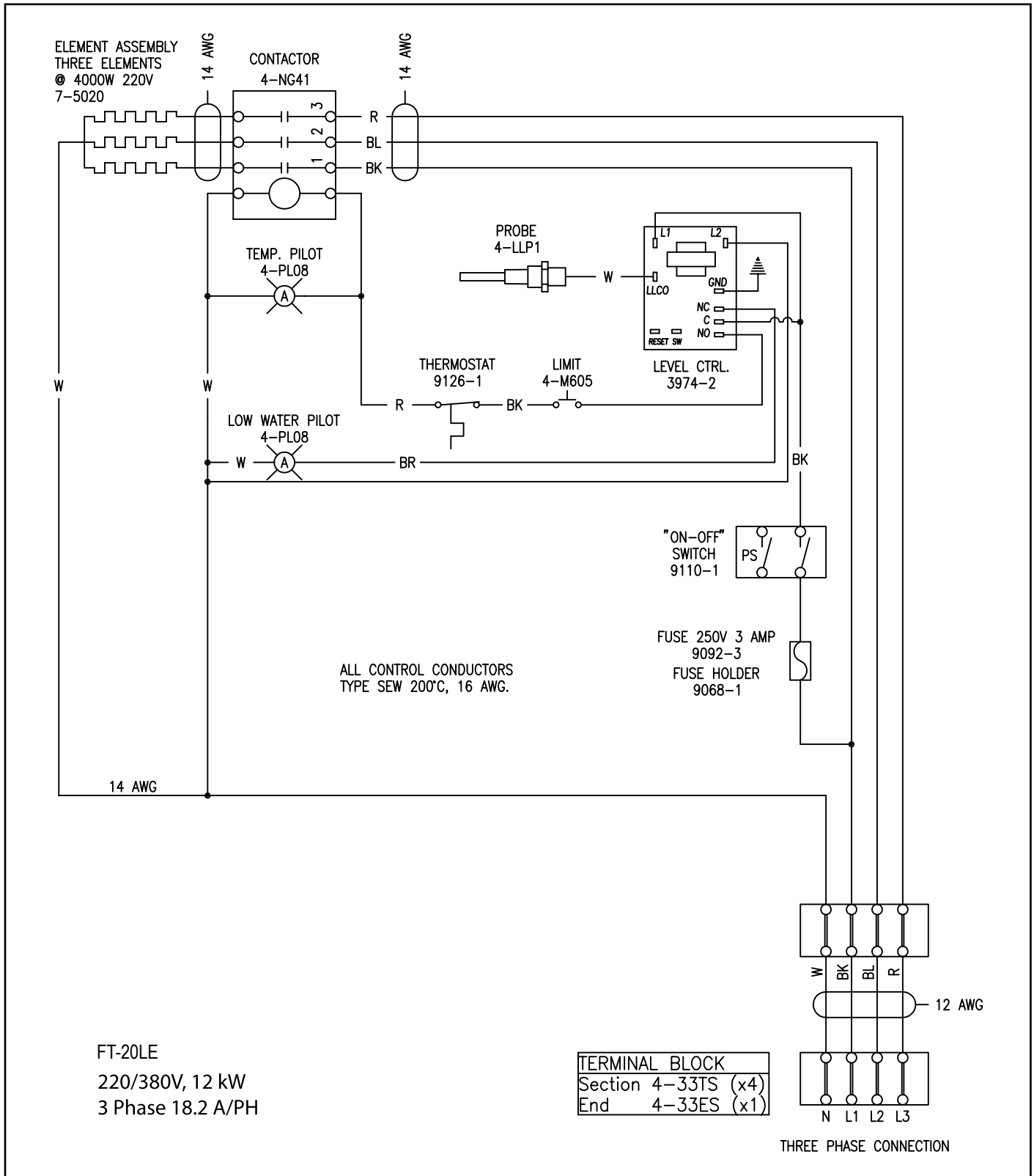
CONTACTORS
4-NG41



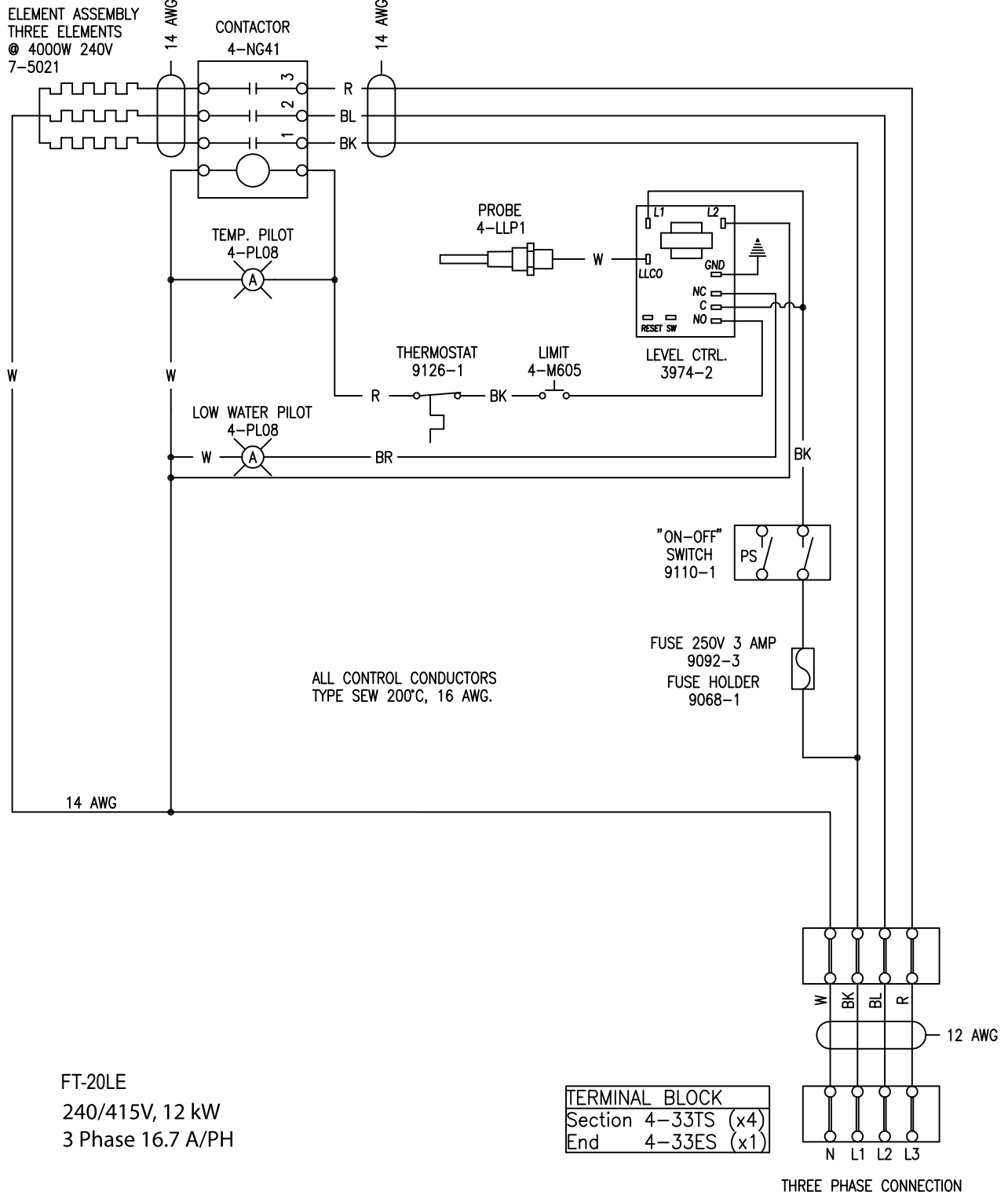
FT-20LE



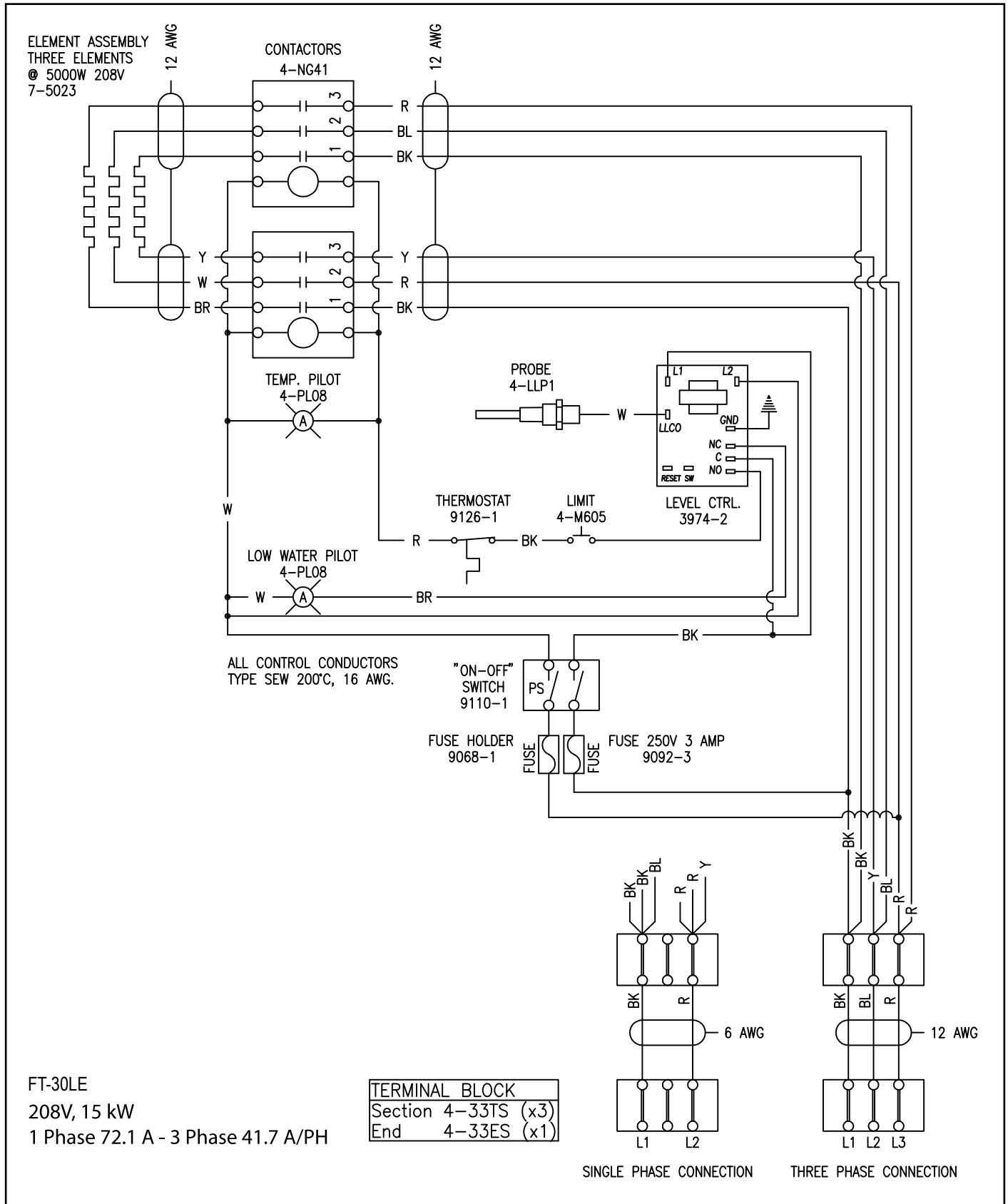
FT-20LE



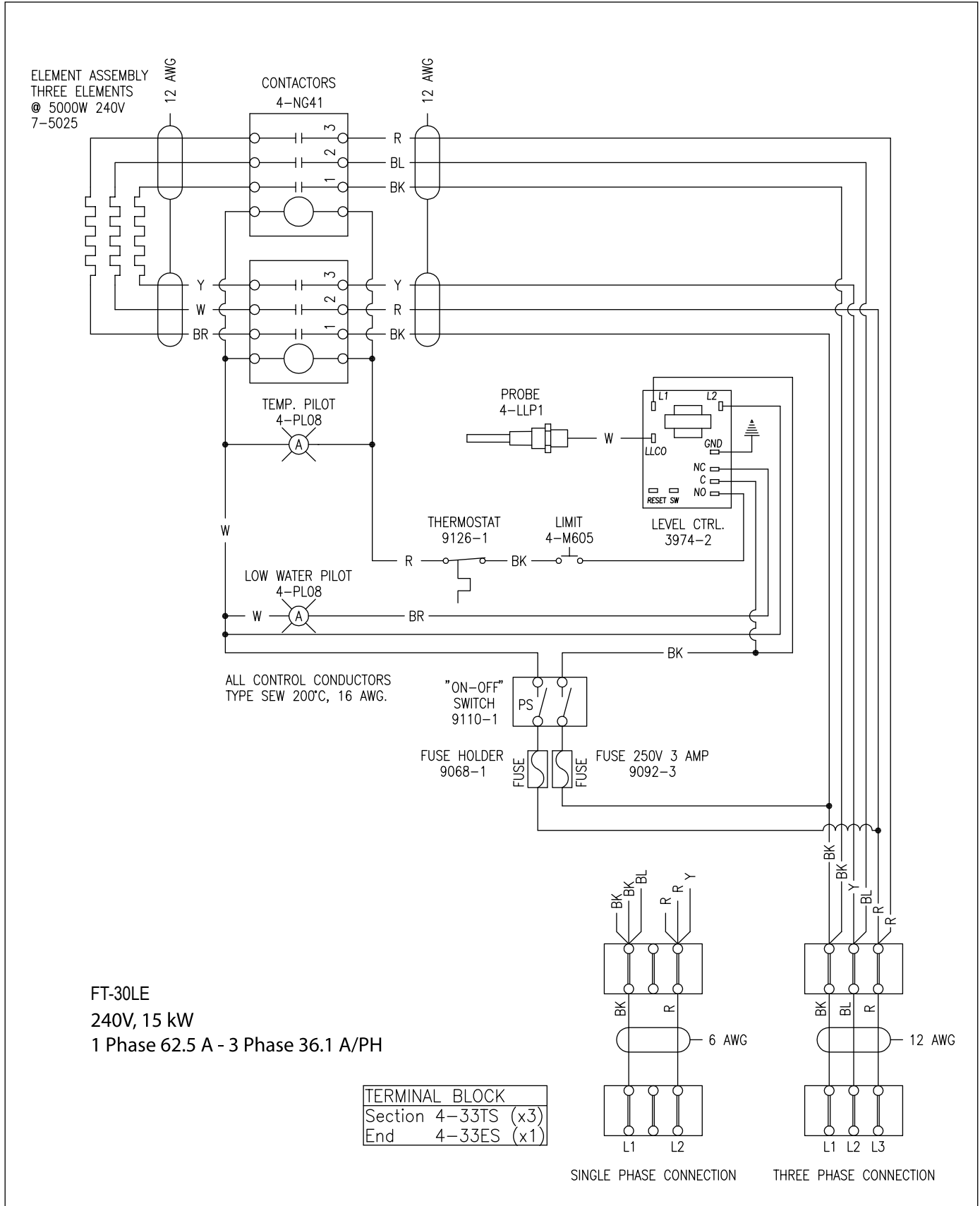
FT-20LE



FT-30LE



FT-30LE



FT-30LE

ELEMENT ASSEMBLY
THREE ELEMENTS
Ⓢ 5000W 277V
7-5026

CONTACTOR
4-NG41

TEMP. PILOT
4-PL08

LOW WATER PILOT
4-PL08

ALL CONTROL CONDUCTORS
TYPE SEW 200°C, 16 AWG.

"ON-OFF"
SWITCH
9110-1

TRANSFORMER
4-T255

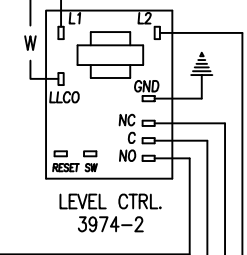
FUSE HOLDER
9002-1

PROBE
4-LLP1

LEVEL CTRL.
3974-2

THERMOSTAT
9126-1

LIMIT
4-M605

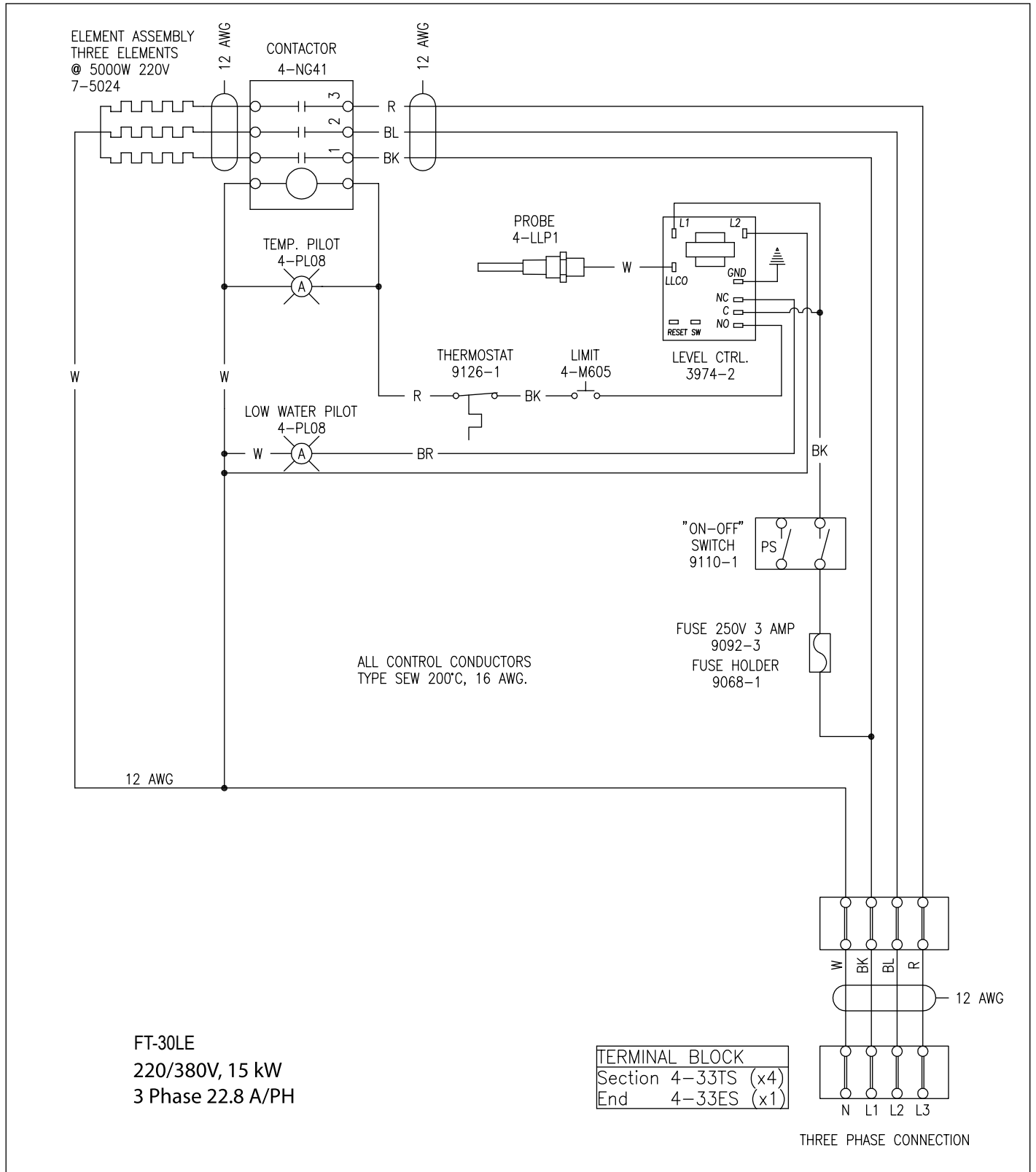


TERMINAL BLOCK	
Section	4-33TS (x3)
End	4-33ES (x1)

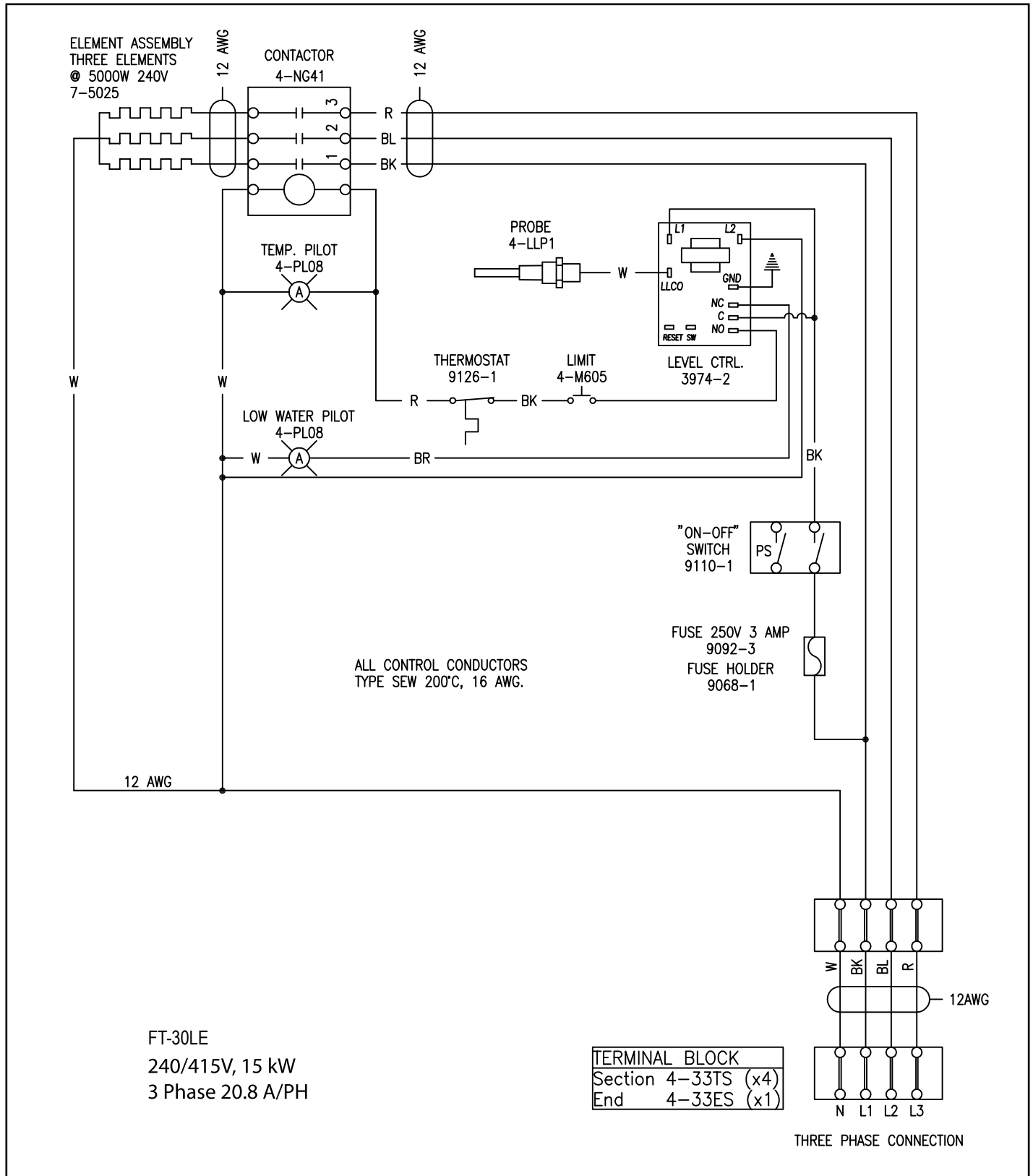
THREE PHASE CONNECTION

FT-30LE
480V, 15 kW
3 Phase 18.1 A/PH

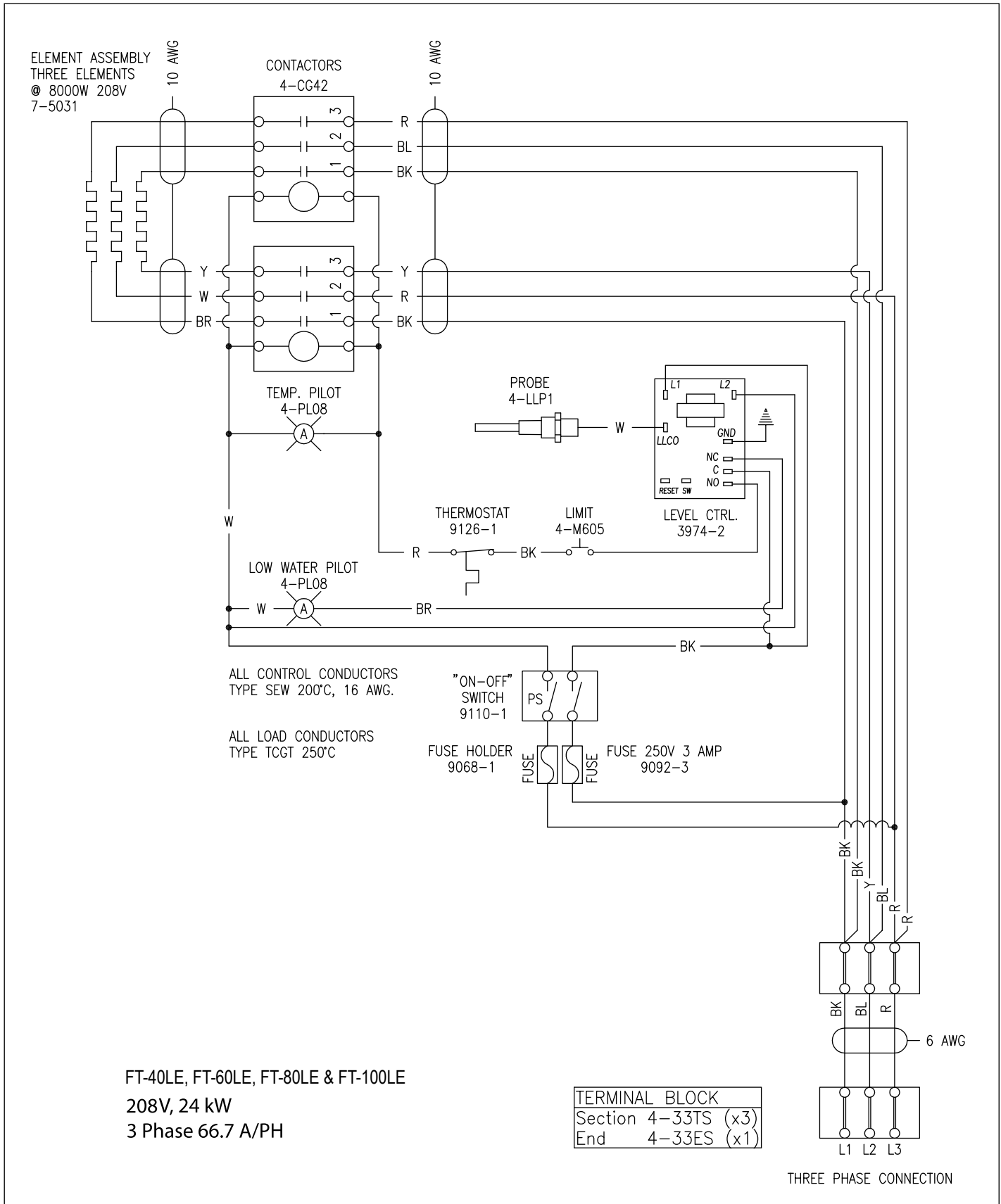
FT-30LE



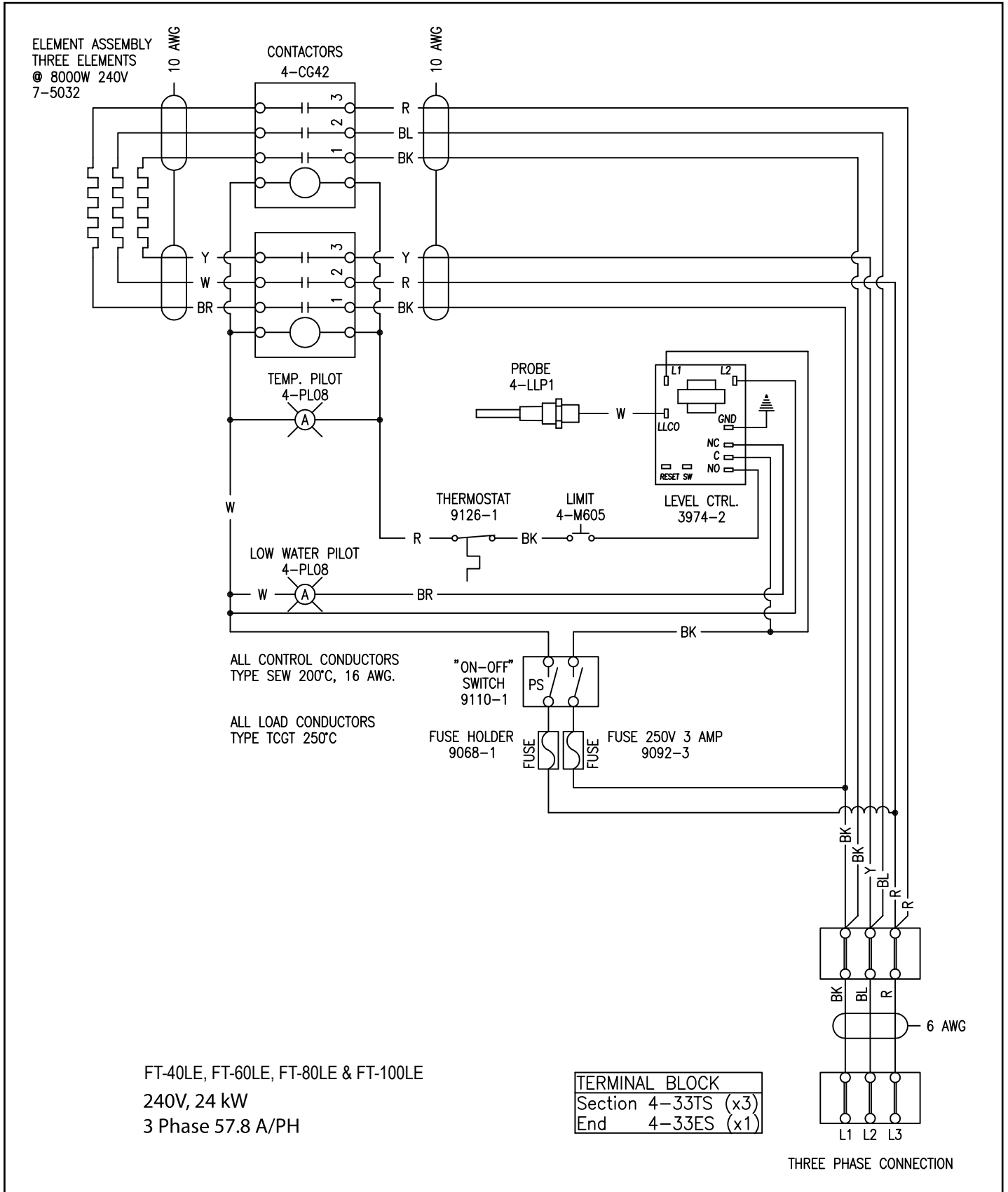
FT-30LE



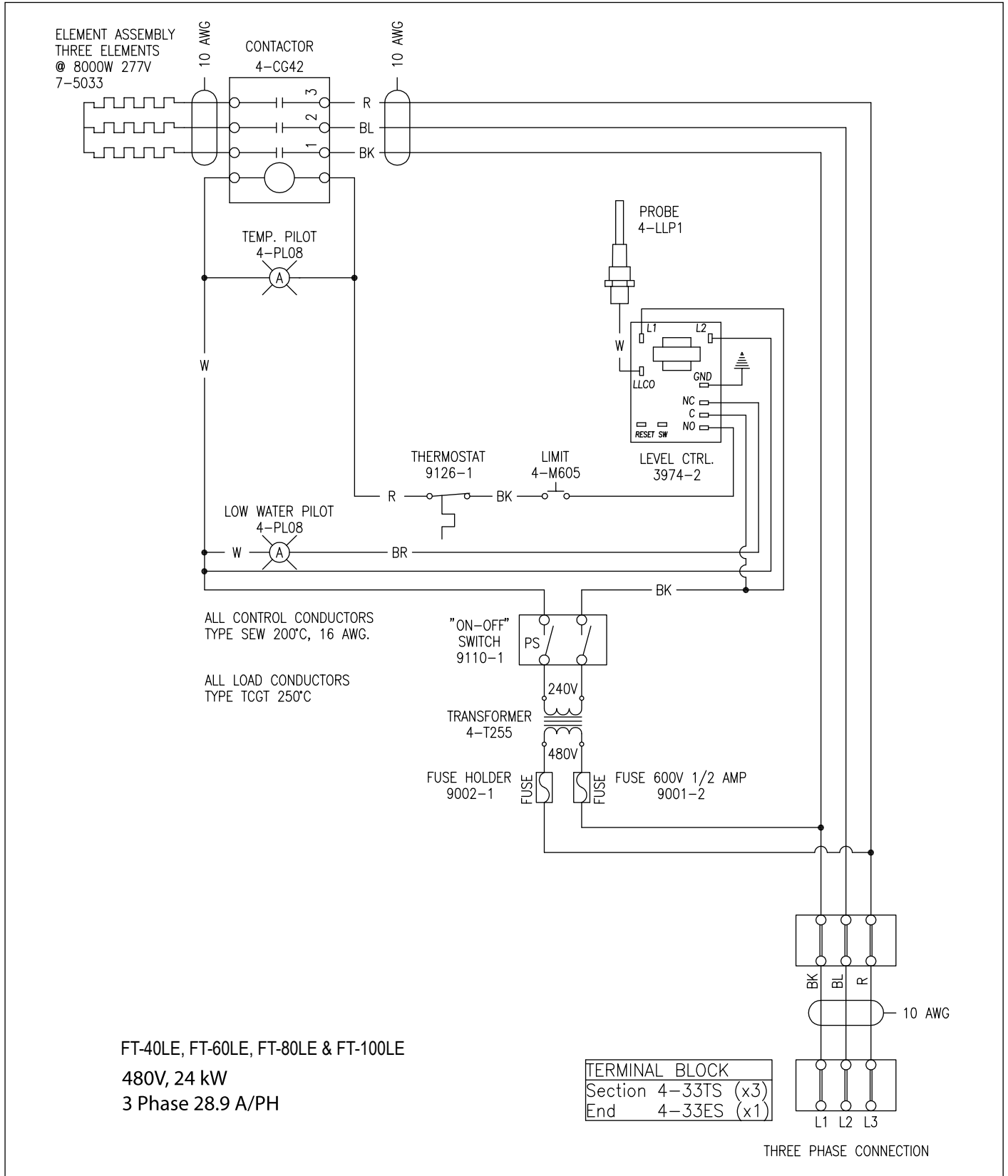
FT-40LE, FT-60LE, FT-80LE & FT-100LE



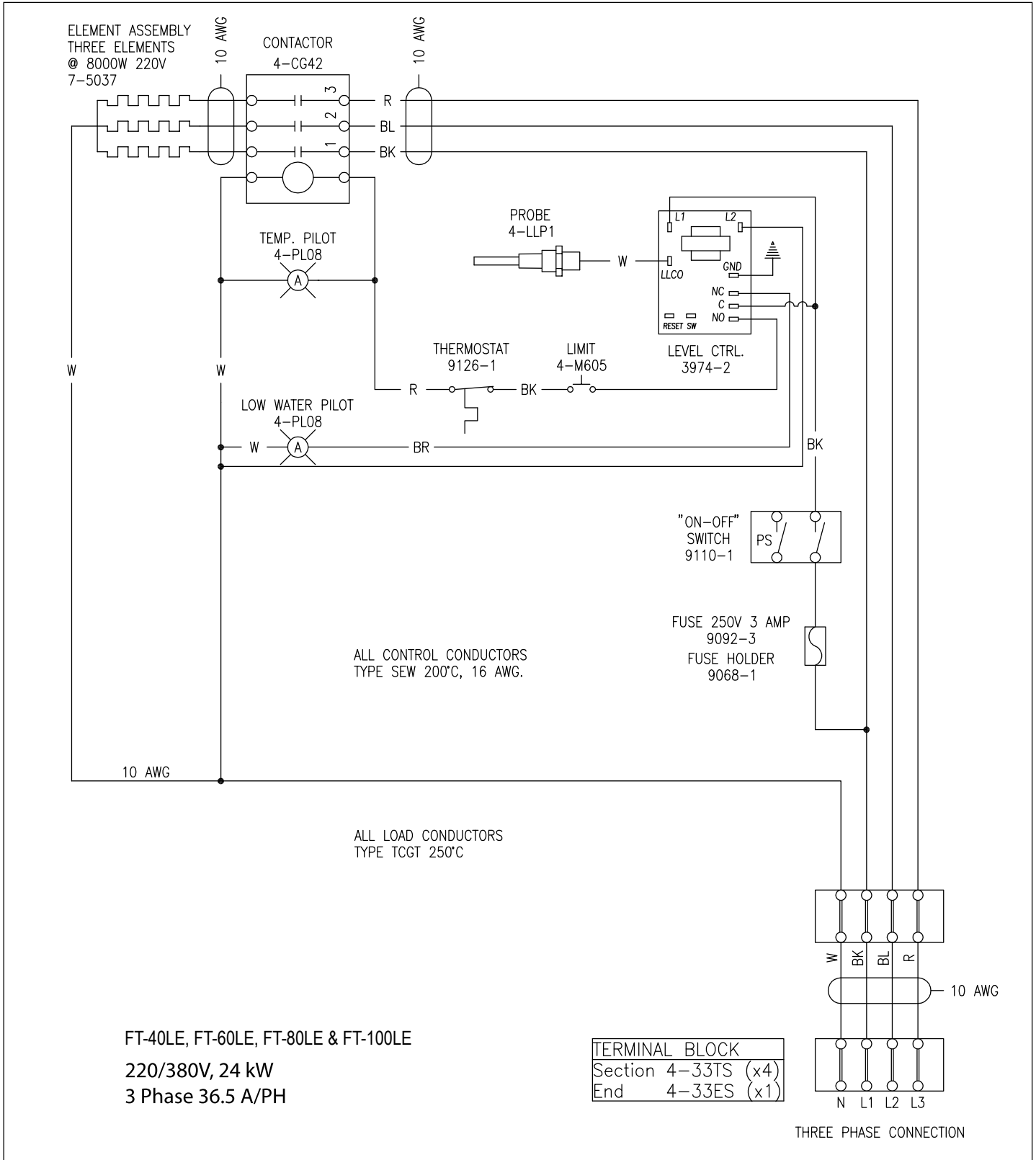
FT-40LE, FT-60LE, FT-80LE & FT-100LE



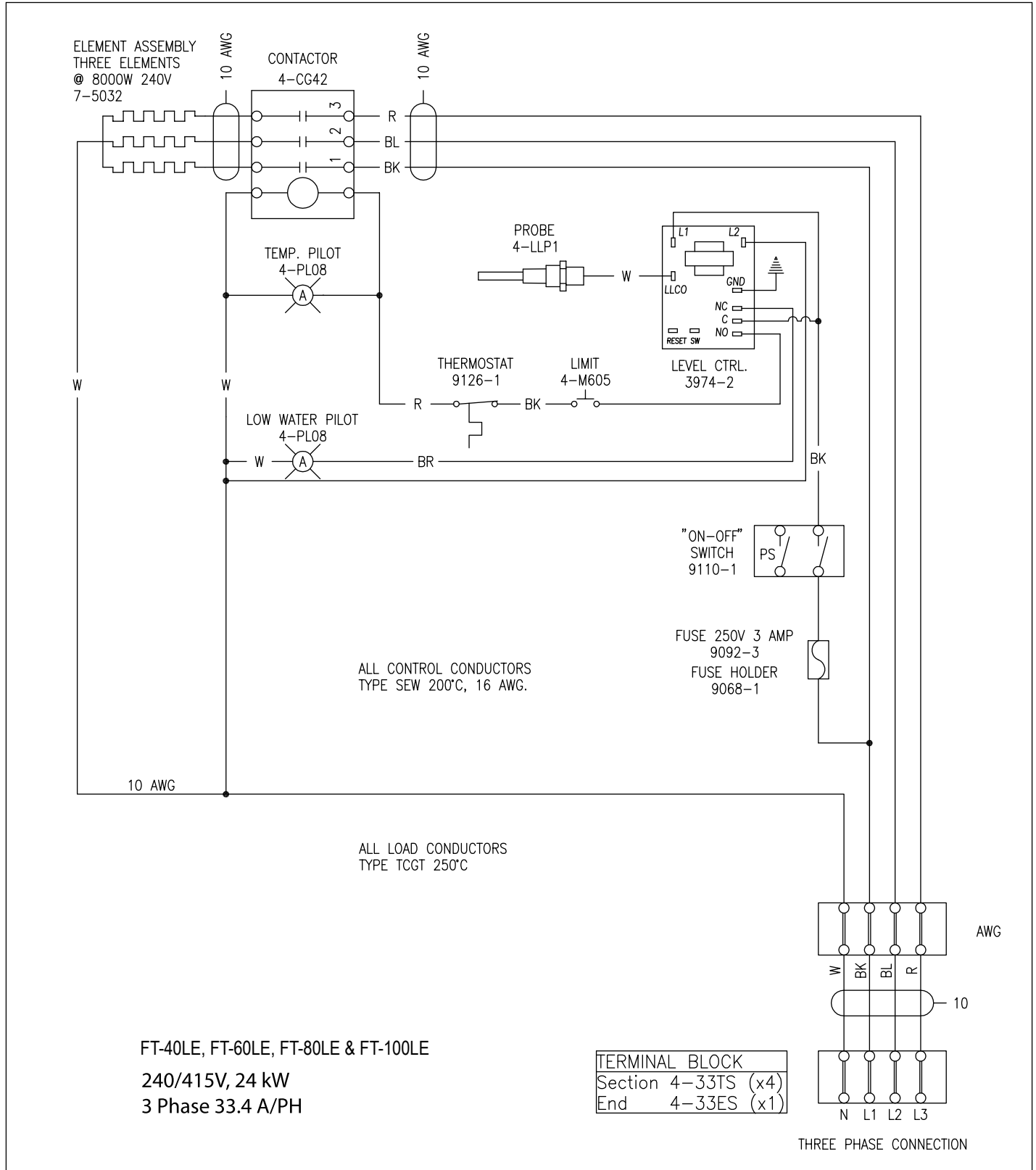
FT-40LE, FT-60LE, FT-80LE & FT-100LE



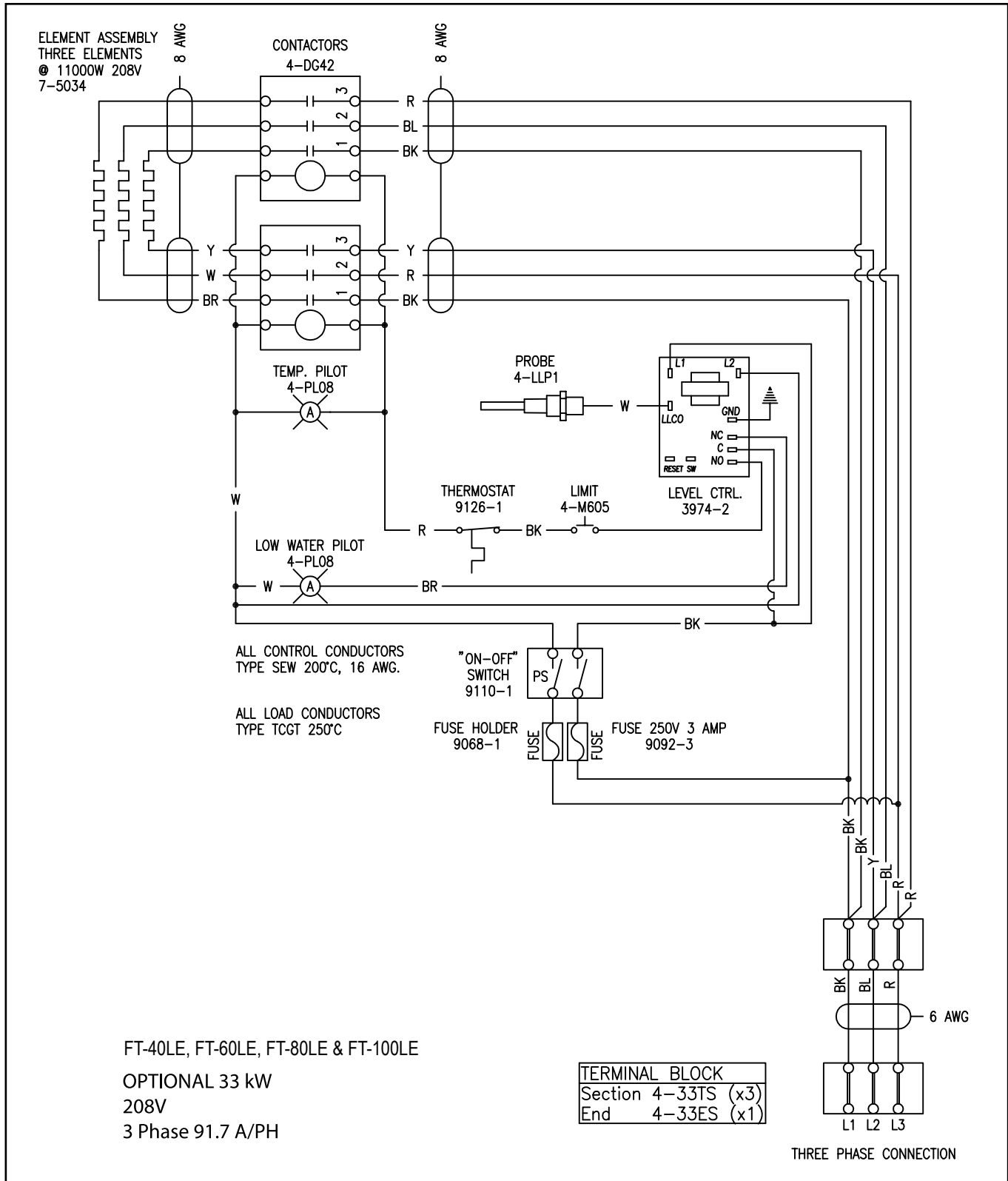
FT-40LE, FT-60LE, FT-80LE & FT-100LE



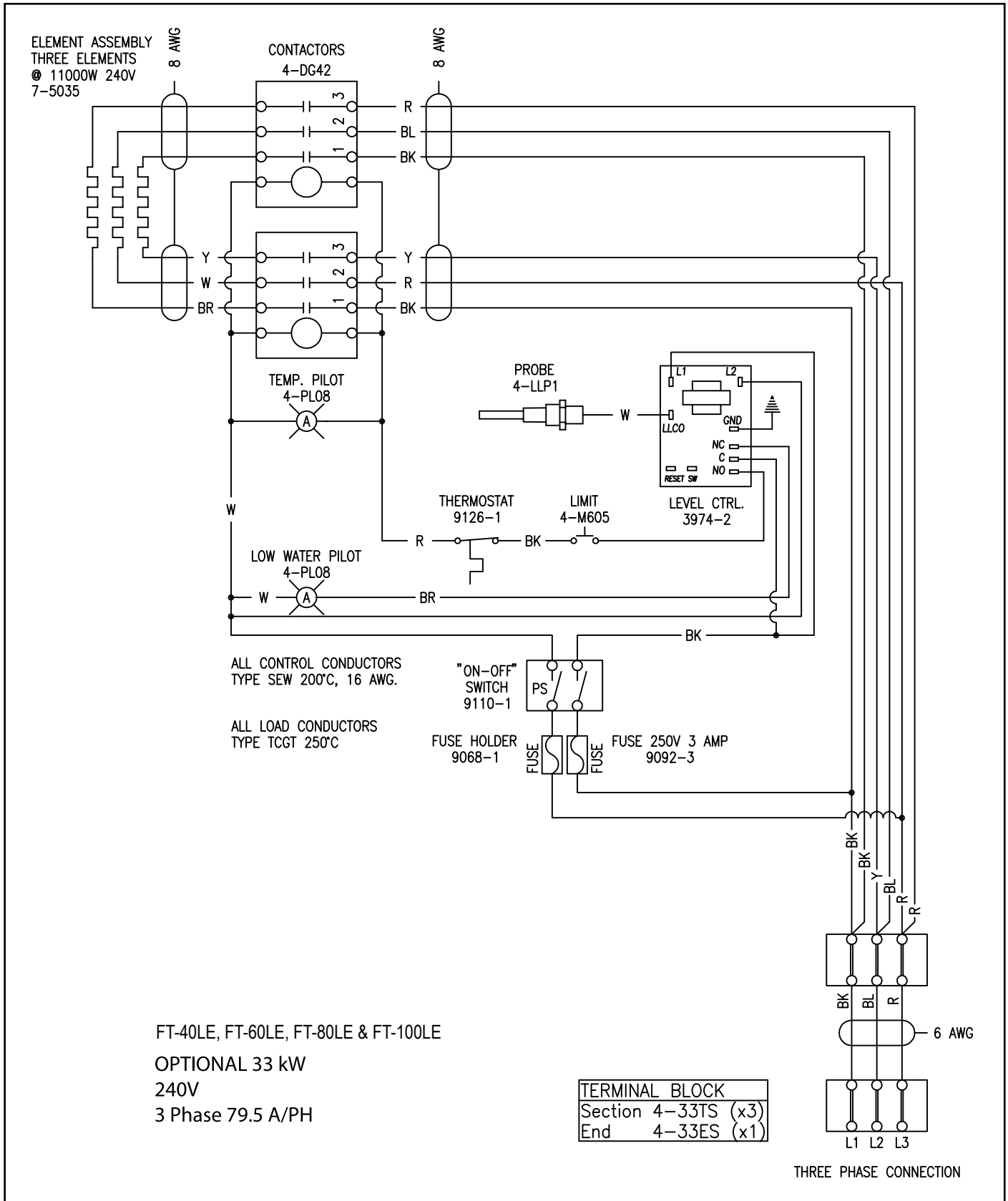
FT-40LE, FT-60LE, FT-80LE & FT-100LE



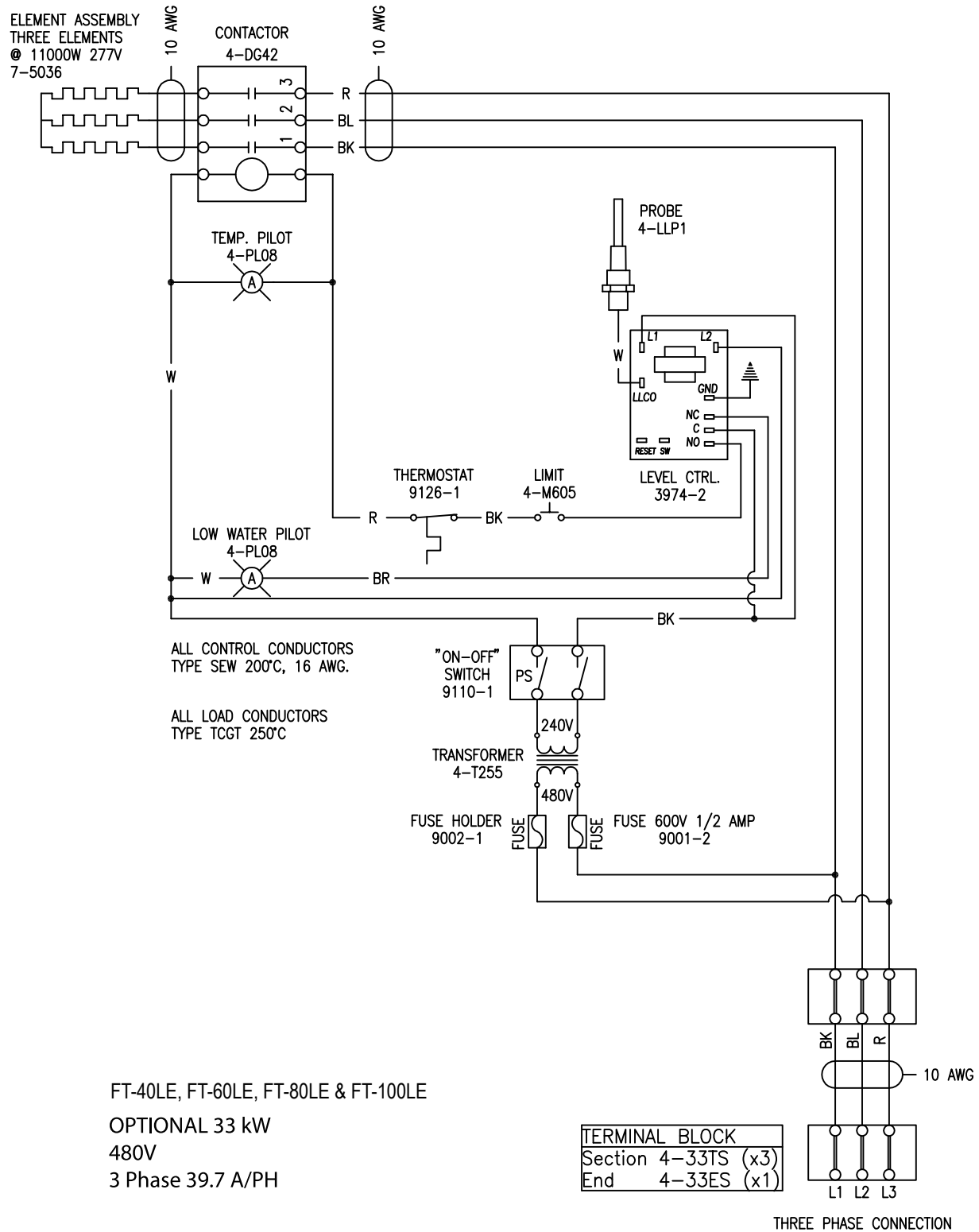
FT-40LE, FT-60LE, FT-80LE & FT-100LE OPTIONAL 33 KW



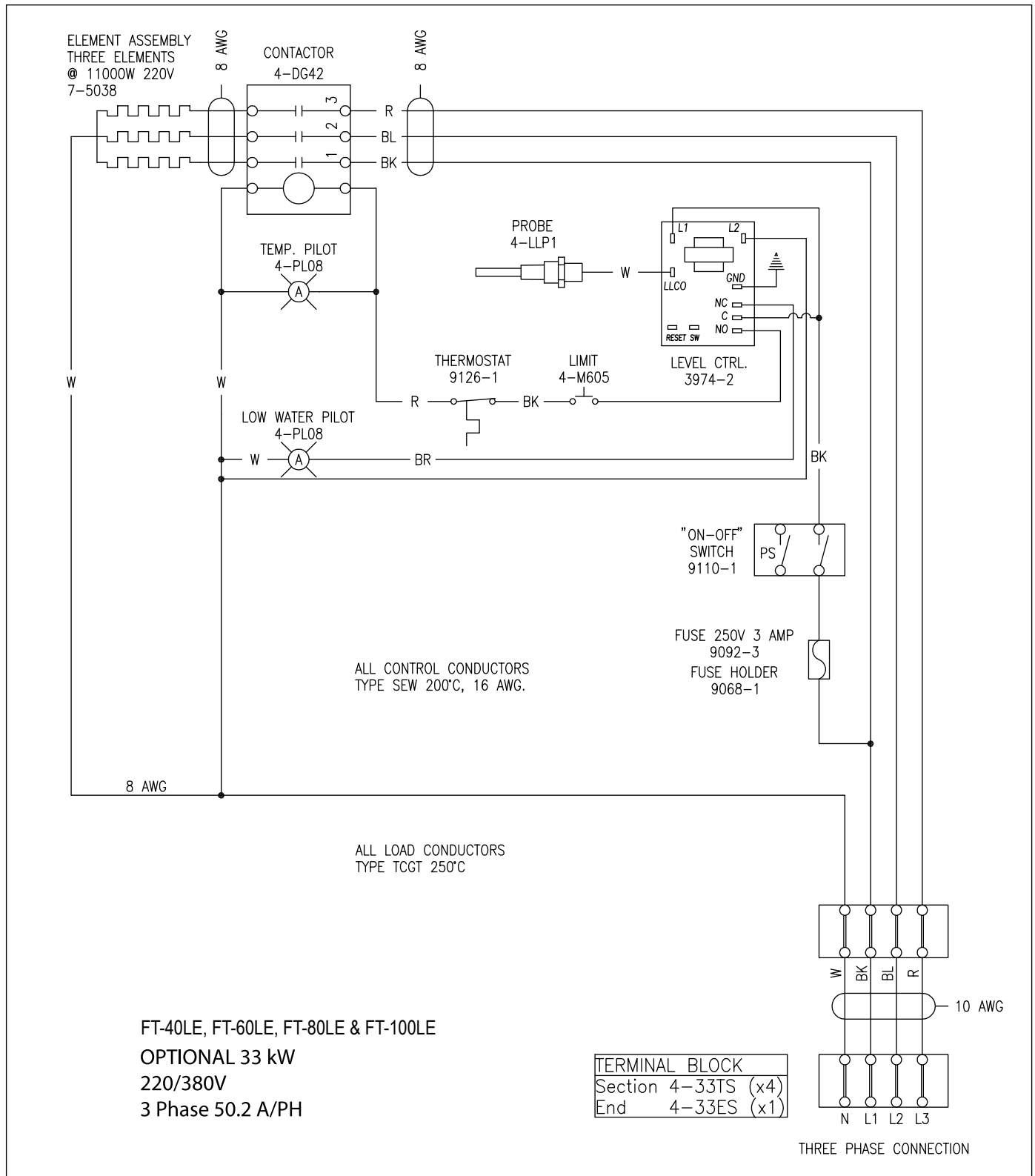
FT-40LE, FT-60LE, FT-80LE & FT-100LE OPTIONAL 33 KW



FT-40LE, FT-60LE, FT-80LE & FT-100LE
OPTIONAL 33 KW



FT-40LE, FT-60LE, FT-80LE & FT-100LE OPTIONAL 33 KW



FT-40LE, FT-60LE, FT-80LE & FT-100LE OPTIONAL 33 KW

