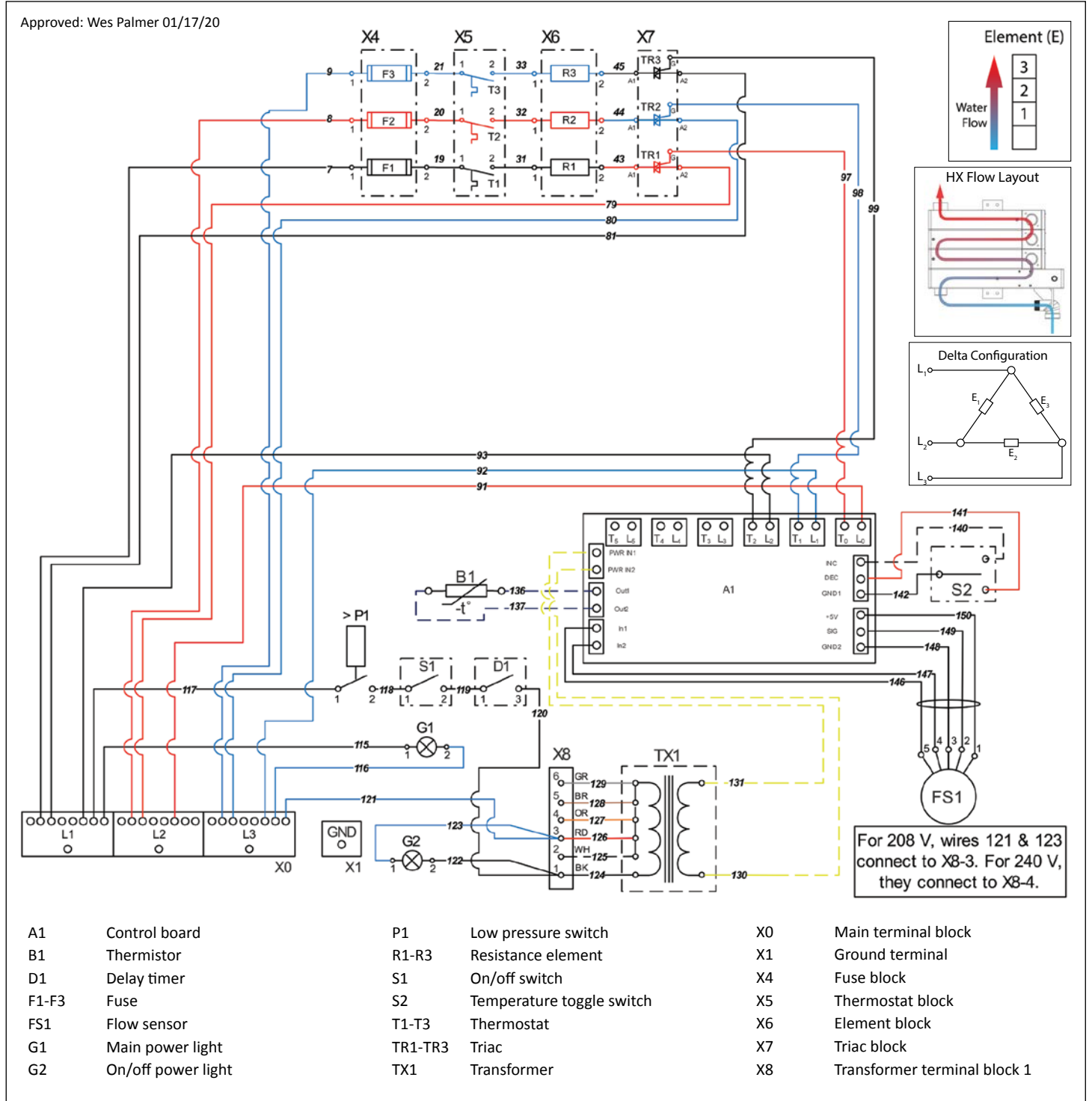


# INSTALLATION TECHNICAL DATA

## Wiring diagrams

### CE/CES/CERO 12-18, 208 V & 240 V Delta wiring diagram

This diagram is valid for: CE/CES/CERO 12 208/240 V, CE/CES/CERO 15 208/240 V, CE/CES/CERO 18 208/240 V

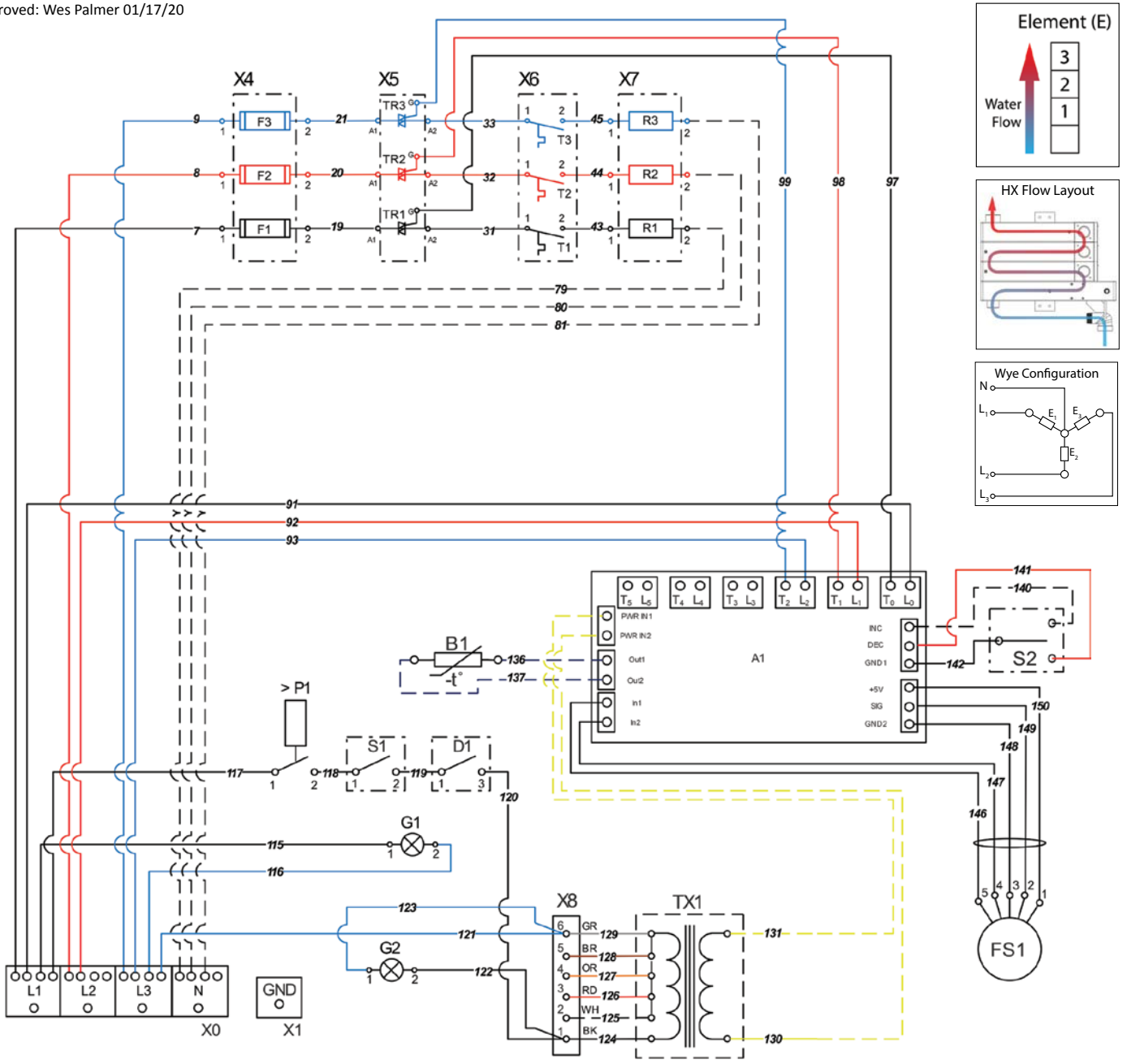


# INSTALLATION TECHNICAL DATA

## CE/CES/CERO 12-18 400 & 480 V Wye wiring diagram

This diagram is valid for: CE/CES/CERO 12 400/480 V Wye, CE/CES/CERO 15 400/480 V Wye, & CE/CES/CERO 18 400/480 V Wye

Approved: Wes Palmer 01/17/20

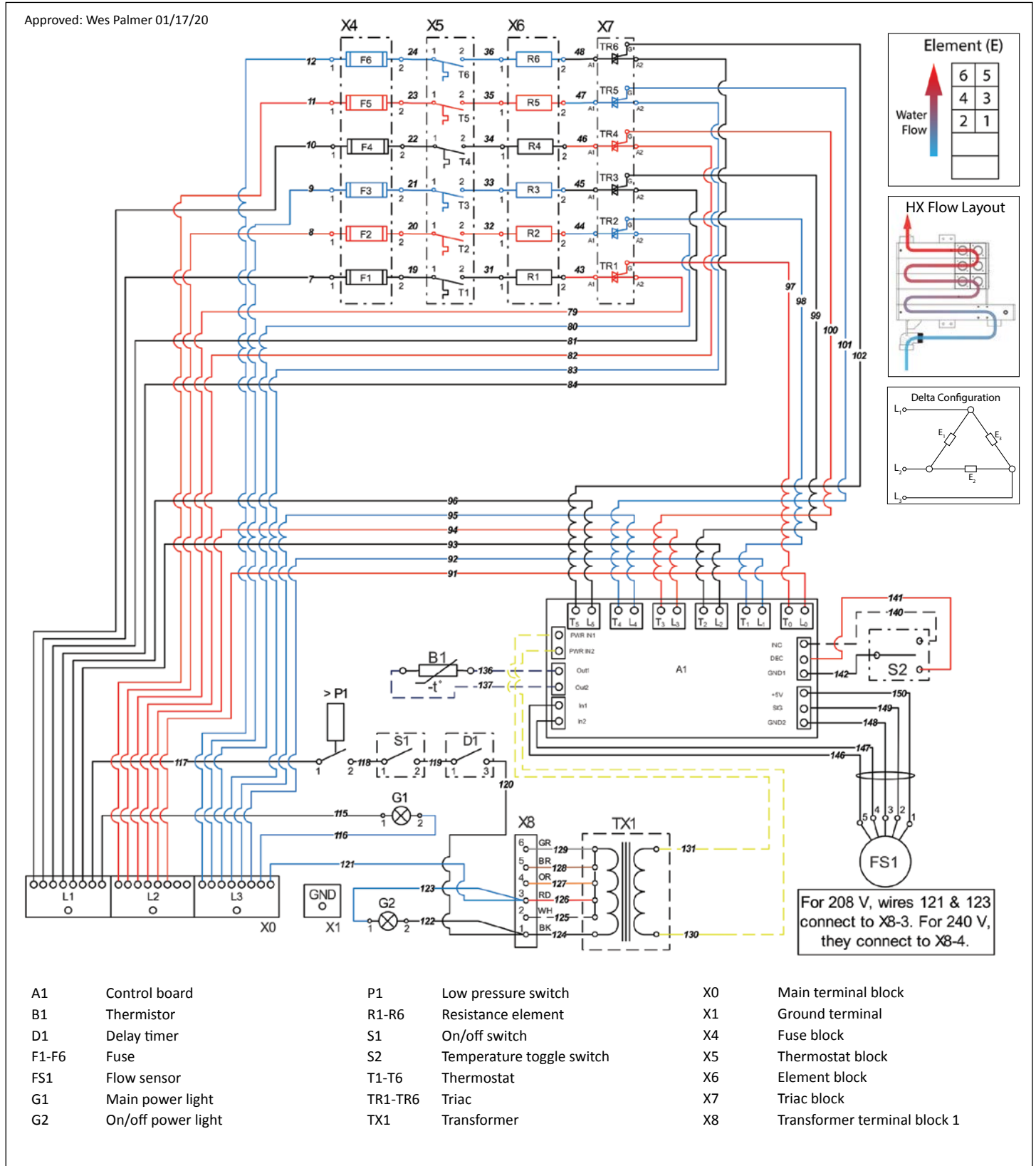


- |       |                    |         |                           |    |                              |
|-------|--------------------|---------|---------------------------|----|------------------------------|
| A1    | Control board      | P1      | Low pressure switch       | X0 | Main terminal block          |
| B1    | Thermistor         | R1-R3   | Resistance element        | X1 | Ground terminal              |
| D1    | Delay timer        | S1      | On/off switch             | X4 | Fuse block                   |
| F1-F3 | Fuse               | S2      | Temperature toggle switch | X5 | Triac block                  |
| FS1   | Flow sensor        | T1-T3   | Thermostat                | X6 | Thermostat block             |
| G1    | Main power light   | TR1-TR3 | Triac                     | X7 | Element block                |
| G2    | On/off power light | TX1     | Transformer               | X8 | Transformer terminal block 1 |

# INSTALLATION TECHNICAL DATA

## CE/CES/CERO 24-36, 208 V & 240 V Delta wiring diagram

This diagram is valid for: CE/CES/CERO 24 208/240 V, CE/CES/CERO 27 208/240 V, & CE/CES/CERO 36 208/240 V

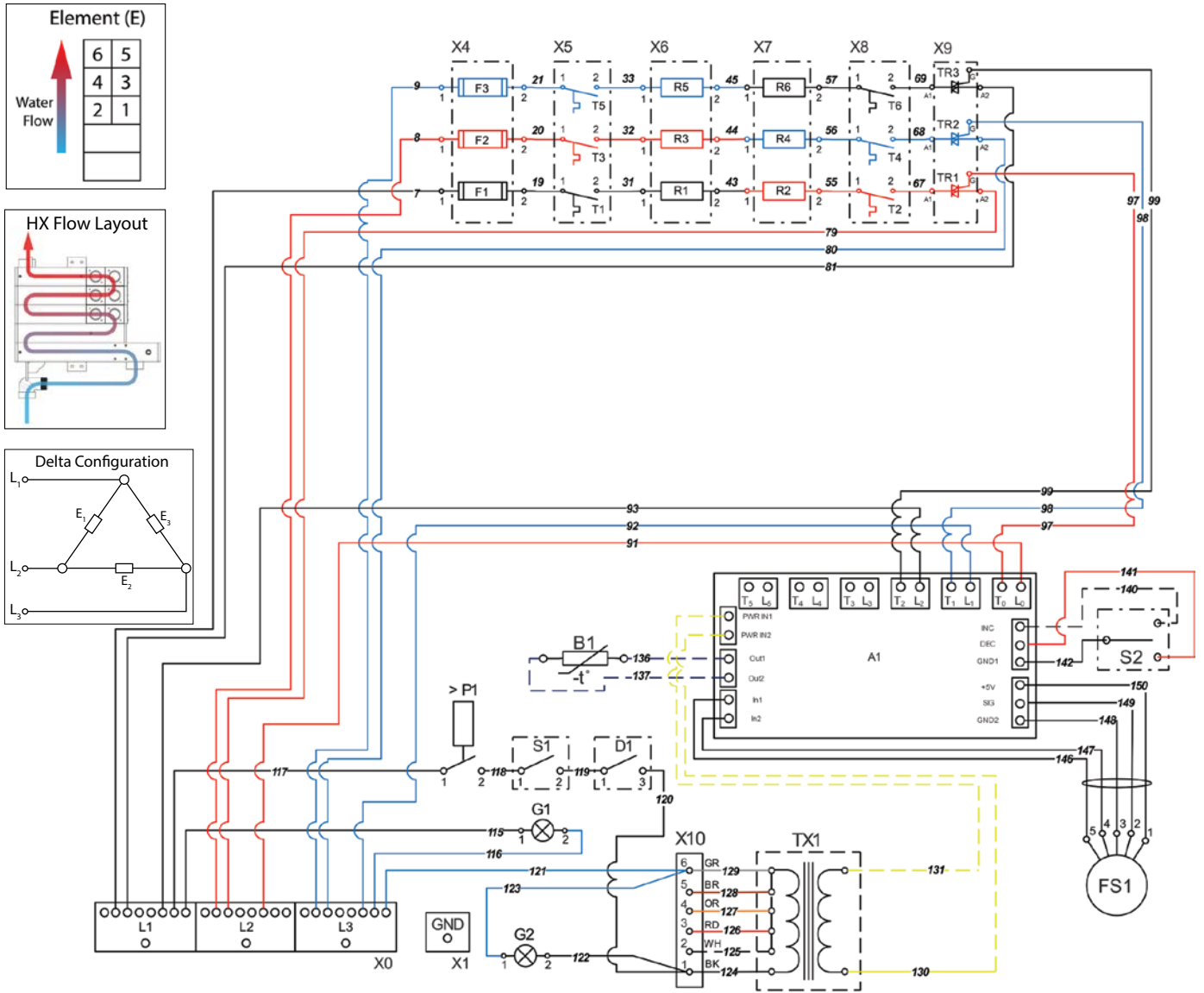


# INSTALLATION TECHNICAL DATA

## CE/CES/CERO 24-36, 400 V & 480 V Delta wiring diagram

This diagram is valid for: CE/CES/CERO 24 400/480 V, CE/CES 27 400/480 V, CERO 27 480 V, & CE/CES/CERO 36 400/480 V

Approved: Wes Palmer 01/17/20



A1 Control board  
 B1 Thermistor  
 D1 Delay timer  
 F1-F3 Fuse  
 FS1 Flow sensor  
 G1 Main power light  
 G2 On/off power light  
 P1 Low pressure switch

R1-R6 Resistance element  
 S1 On/off switch  
 S2 Temperature toggle switch  
 T1-T6 Thermostat  
 TR1-TR3 Triac  
 TX1 Transformer  
 X0 Main terminal block  
 X1 Ground terminal

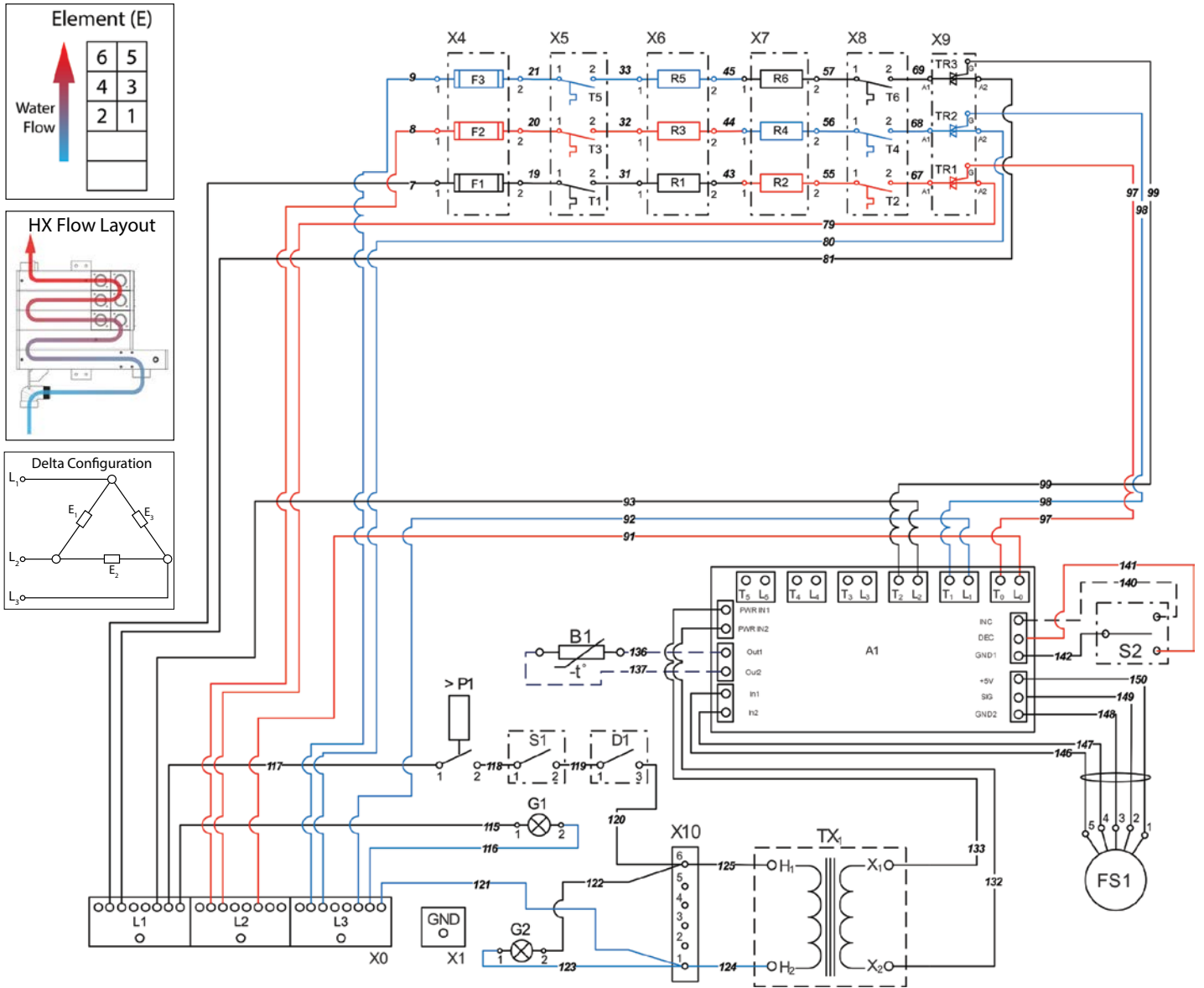
X4 Fuse block  
 X5 Thermostat block 1  
 X6 Element block 1  
 X7 Element block 2  
 X8 Thermostat block 2  
 X9 Triac block  
 X10 Transformer terminal block 1

# INSTALLATION TECHNICAL DATA

## CE/CES/CERO 24, CE/CES/CERO 36 575 V Delta wiring diagram

This diagram is valid for: CE/CES/CERO 24 575 V, & CE/CES/CERO 36 575 V

Approved: Wes Palmer 01/17/20



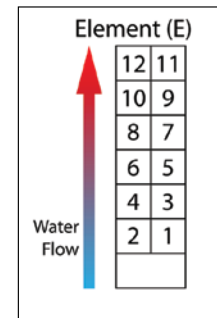
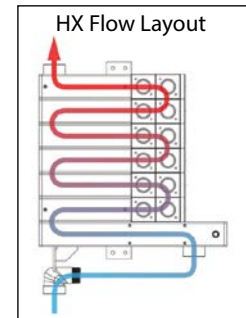
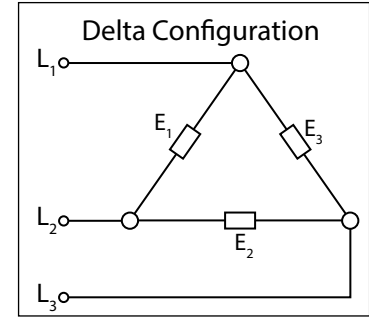
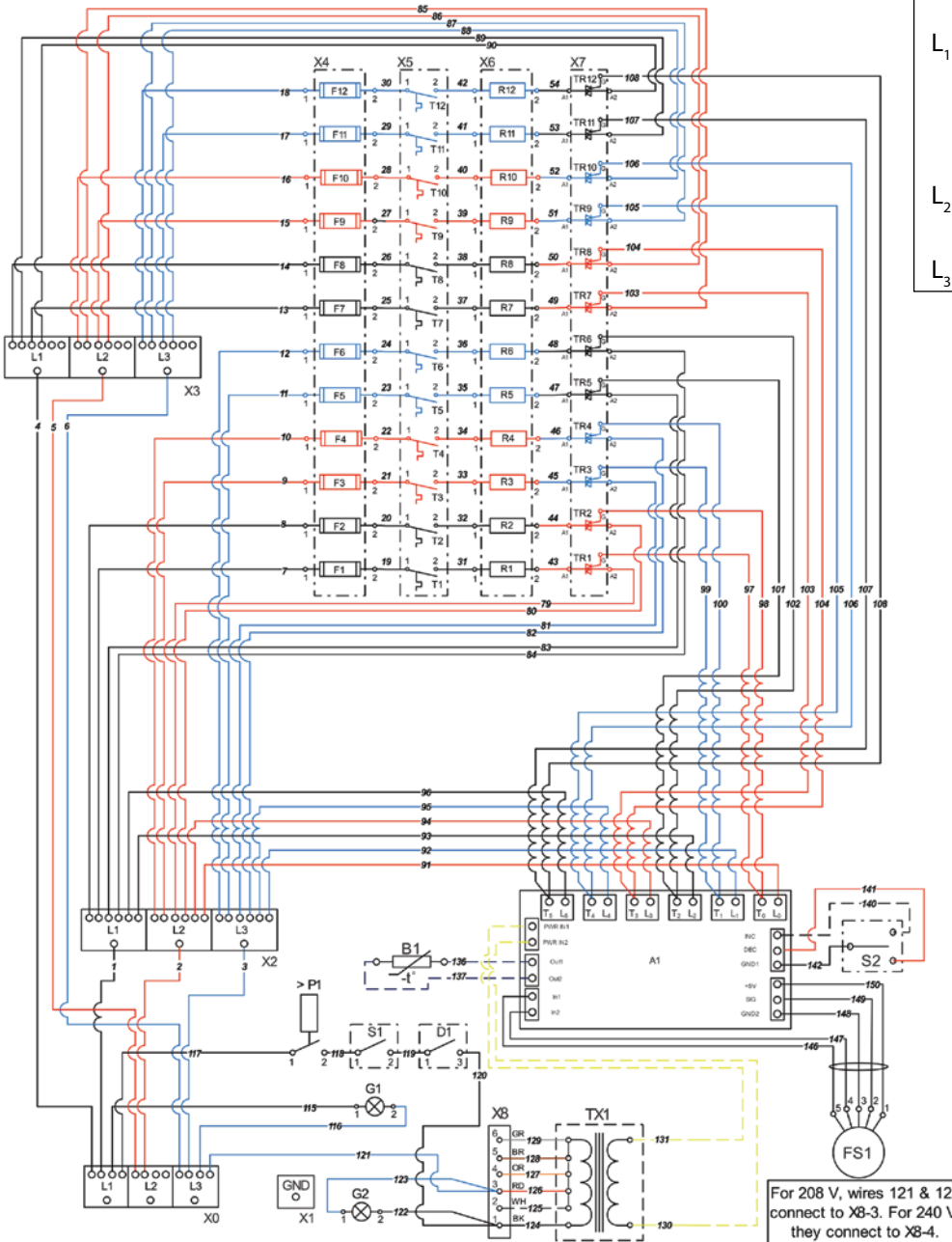
|       |                     |         |                           |     |                              |
|-------|---------------------|---------|---------------------------|-----|------------------------------|
| A1    | Control board       | R1-R6   | Resistance element        | X4  | Fuse block                   |
| B1    | Thermistor          | S1      | On/off switch             | X5  | Thermostat block 1           |
| D1    | Delay timer         | S2      | Temperature toggle switch | X6  | Element block 1              |
| F1-F3 | Fuse                | T1-T6   | Thermostat                | X7  | Element block 2              |
| FS1   | Flow sensor         | TR1-TR3 | Triac                     | X8  | Thermostat block 2           |
| G1    | Main power light    | TX1     | Transformer               | X9  | Triac block                  |
| G2    | On/off power light  | X0      | Main terminal block       | X10 | Transformer terminal block 1 |
| P1    | Low pressure switch | X1      | Ground terminal           |     |                              |

# INSTALLATION TECHNICAL DATA

## CE/CES/CERO 48-72, 208 V & 240 V Delta wiring diagram

This diagram is valid for: CE/CES 48 208/240 V, CERO 48 240 V, CE/CES 54 208/240 V, CERO 54 240 V, CE/CES 60 208/240 V, CE/CES 72 208/240 V, & CERO 72 240 V

Approved: Wes Palmer 01/17/20



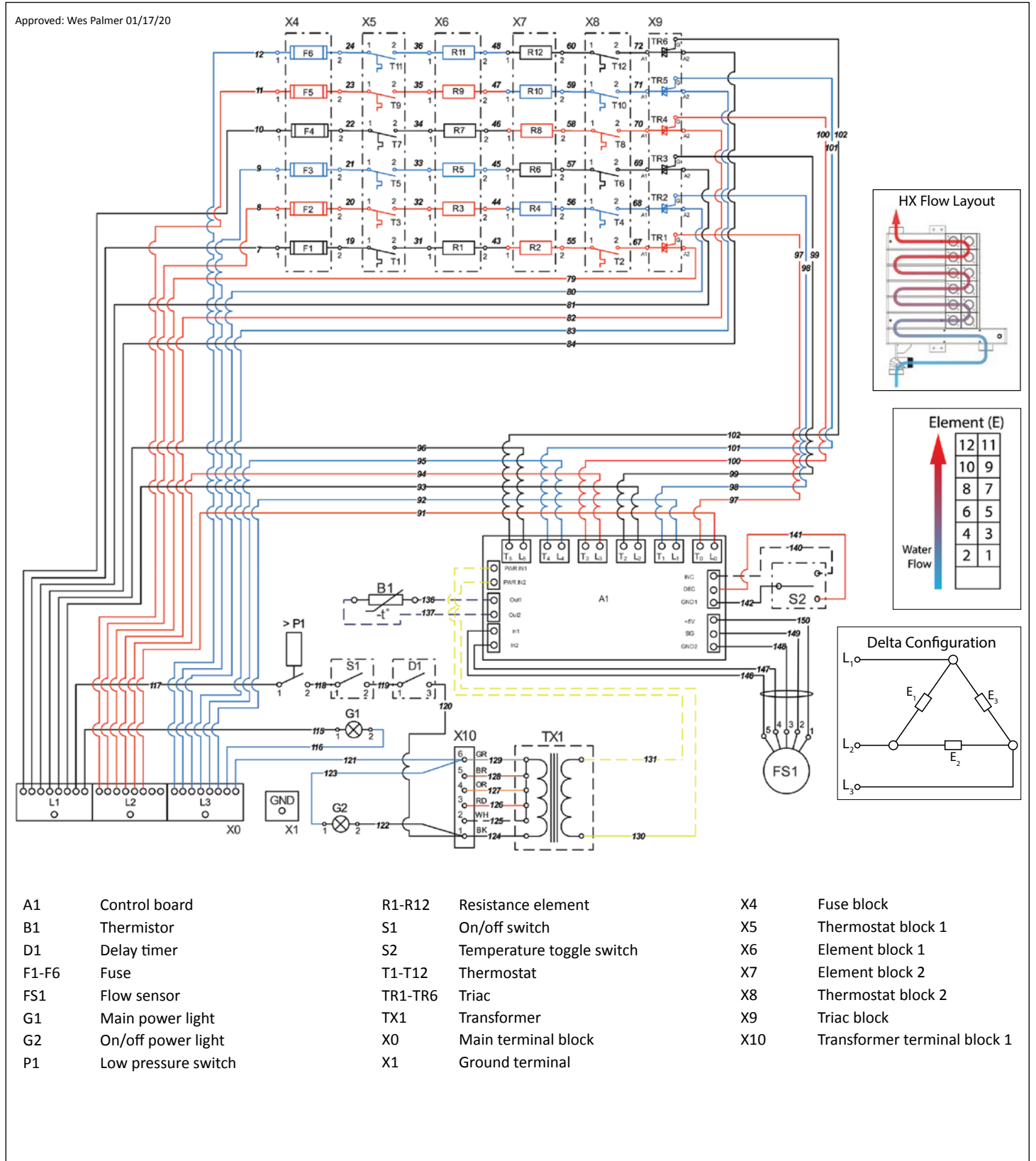
For 208 V, wires 121 & 123 connect to X8-3. For 240 V, they connect to X8-4.

- |        |                     |          |                           |    |                              |
|--------|---------------------|----------|---------------------------|----|------------------------------|
| A1     | Control board       | R1-R12   | Resistance element        | X2 | Secondary terminal block 1   |
| B1     | Thermistor          | S1       | On/off switch             | X3 | Secondary terminal block 2   |
| D1     | Delay timer         | S2       | Temperature toggle switch | X4 | Fuse block                   |
| F1-F12 | Fuse                | T1-T12   | Thermostat                | X5 | Thermostat block             |
| FS1    | Flow sensor         | TR1-TR12 | Triac                     | X6 | Element block                |
| G1     | Main power light    | TX1      | Transformer               | X7 | Triac block                  |
| G2     | On/off power light  | X0       | Main terminal block       | X8 | Transformer terminal block 1 |
| P1     | Low pressure switch | X1       | Ground terminal           |    |                              |

# INSTALLATION TECHNICAL DATA

## CE/CES/CERO 48-72, 400 V & 480 V Delta wiring diagram

This diagram is valid for: CE/CES/CERO 48 400/480 V, CE/CES 54 400/480 V, CERO 54 480 V, CE/CES 60 400/480V, CE/CES 72 480 V, & CERO 72 400/480 V

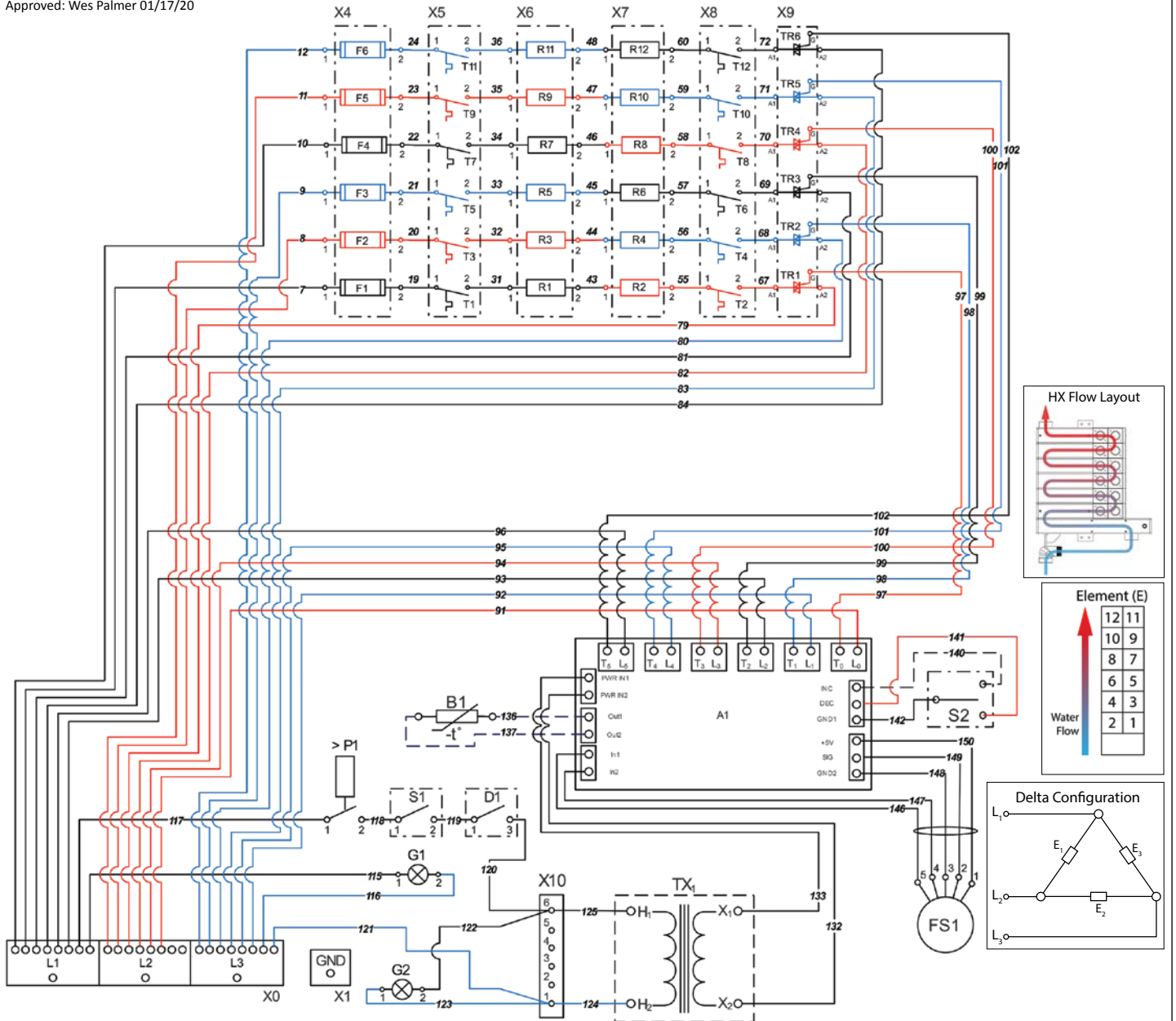


# INSTALLATION TECHNICAL DATA

## CE/CES/CERO 48, CE/CES/CERO 72 575 V Delta wiring diagram

This diagram is valid for: CE/CES/CERO 48 575 V, CE/CES/CERO 72 575 V

Approved: Wes Palmer 01/17/20



- |       |                     |         |                           |     |                              |
|-------|---------------------|---------|---------------------------|-----|------------------------------|
| A1    | Control board       | R1-R12  | Resistance element        | X4  | Fuse block                   |
| B1    | Thermistor          | S1      | On/off switch             | X5  | Thermostat block 1           |
| D1    | Delay timer         | S2      | Temperature toggle switch | X6  | Element block 1              |
| F1-F6 | Fuse                | T1-T12  | Thermostat                | X7  | Element block 2              |
| FS1   | Flow sensor         | TR1-TR6 | Triac                     | X8  | Thermostat block 2           |
| G1    | Main power light    | TX1     | Transformer               | X9  | Triac block                  |
| G2    | On/off power light  | X0      | Main terminal block       | X10 | Transformer terminal block 1 |
| P1    | Low pressure switch | X1      | Ground terminal           |     |                              |

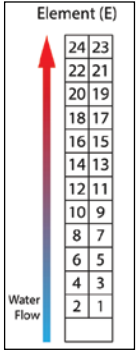
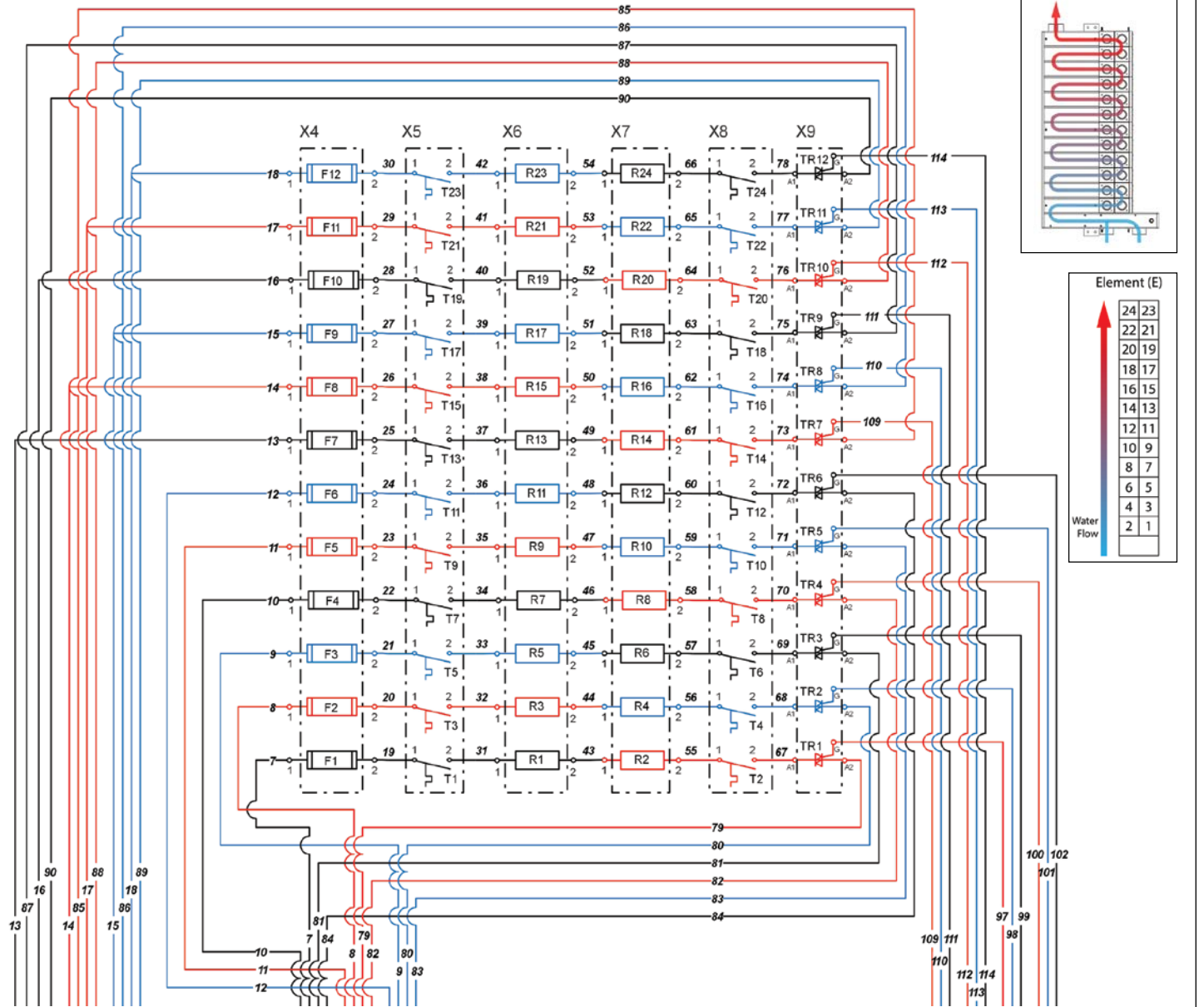


# INSTALLATION TECHNICAL DATA

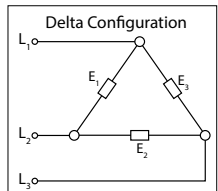
## CE/CES/CERO 120, CE/CES/CERO 144 400 V & 480 V Delta wiring diagram (page 1)

This diagram is valid for: CE/CES/CERO 120 400/480 V, CE/CES/CERO 144 400/480 V

Approved: Wes Palmer 01/17/20



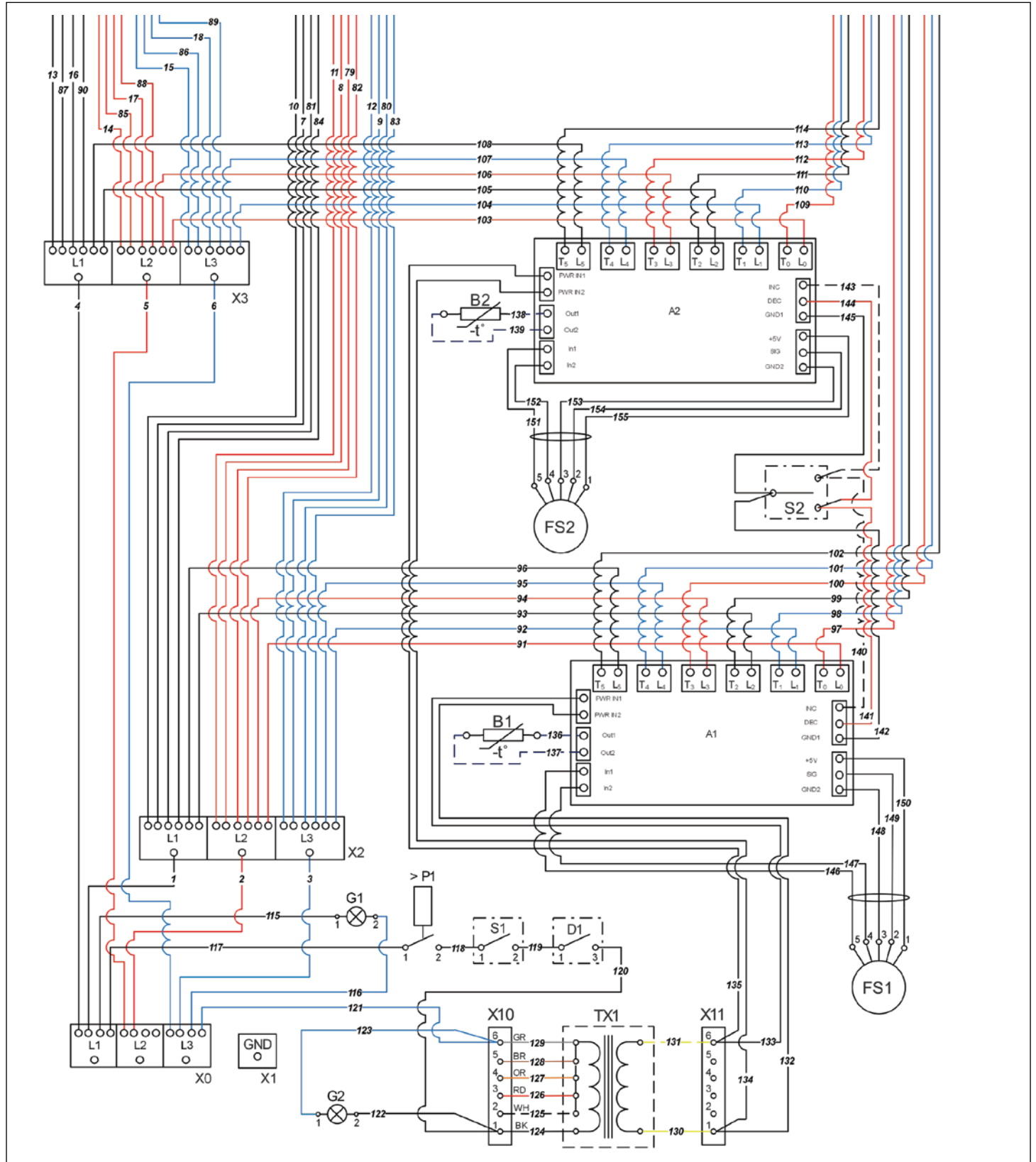
|        |                     |          |                            |     |                              |
|--------|---------------------|----------|----------------------------|-----|------------------------------|
| A1     | Control board 1     | S1       | On/off switch              | X7  | Element block 2              |
| A2     | Control board 2     | S2       | Temperature toggle switch  | X8  | Thermostat block 2           |
| B1     | Thermistor 1        | T1-T24   | Thermostat                 | X9  | Triac block                  |
| B2     | Thermistor 2        | TR1-TR12 | Triac                      | X10 | Transformer terminal block 1 |
| D1     | Delay timer         | TX1      | Transformer                | X11 | Transformer terminal block 2 |
| F1-F12 | Fuse                | X0       | Main terminal block        |     |                              |
| FS1    | Flow sensor 1       | X1       | Ground terminal            |     |                              |
| FS2    | Flow sensor 2       | X2       | Secondary terminal block 1 |     |                              |
| G1     | Main power light    | X3       | Secondary terminal block 2 |     |                              |
| G2     | On/off power light  | X4       | Fuse block                 |     |                              |
| P1     | Low pressure switch | X5       | Thermostat block 1         |     |                              |
| R1-R24 | Resistance element  | X6       | Element block 1            |     |                              |



# INSTALLATION TECHNICAL DATA

## CE/CES/CERO 120, CE/CES/CERO 144 400 V & 480 V Delta wiring diagram (page 2)

This diagram is valid for: CE/CES/CERO 120 400/480 V, CE/CES/CERO 144 400/480 V



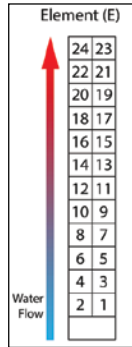
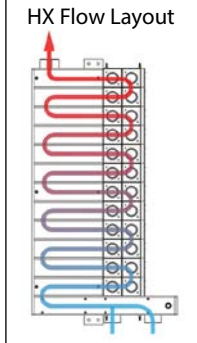
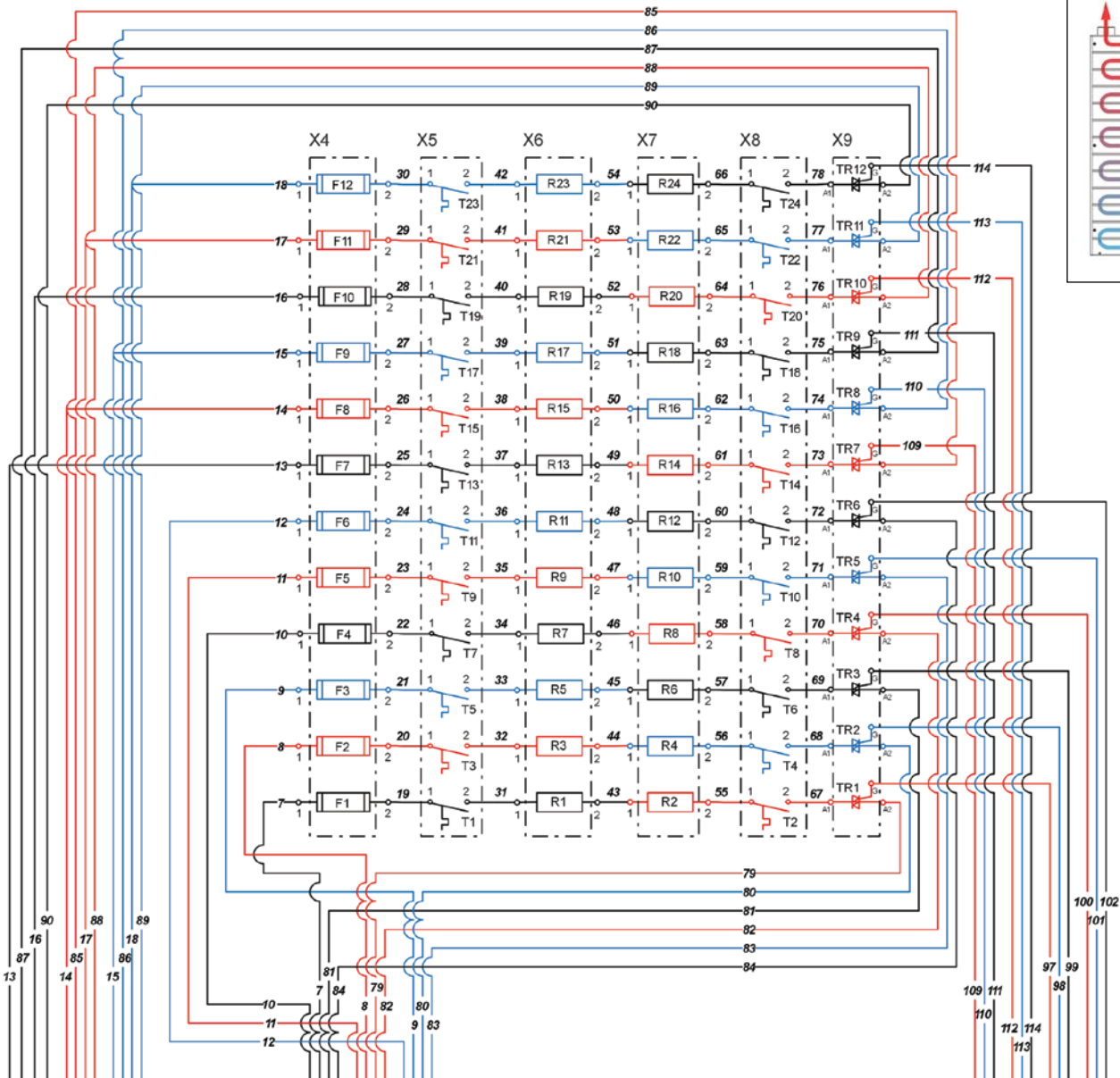
ENGLISH

# INSTALLATION TECHNICAL DATA

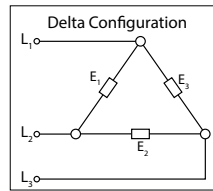
## CE/CES/CERO 144 575 V Delta wiring diagram (page 1)

This diagram is valid for: CE/CES/CERO 144 575 V

Approved: Wes Palmer 01/17/20



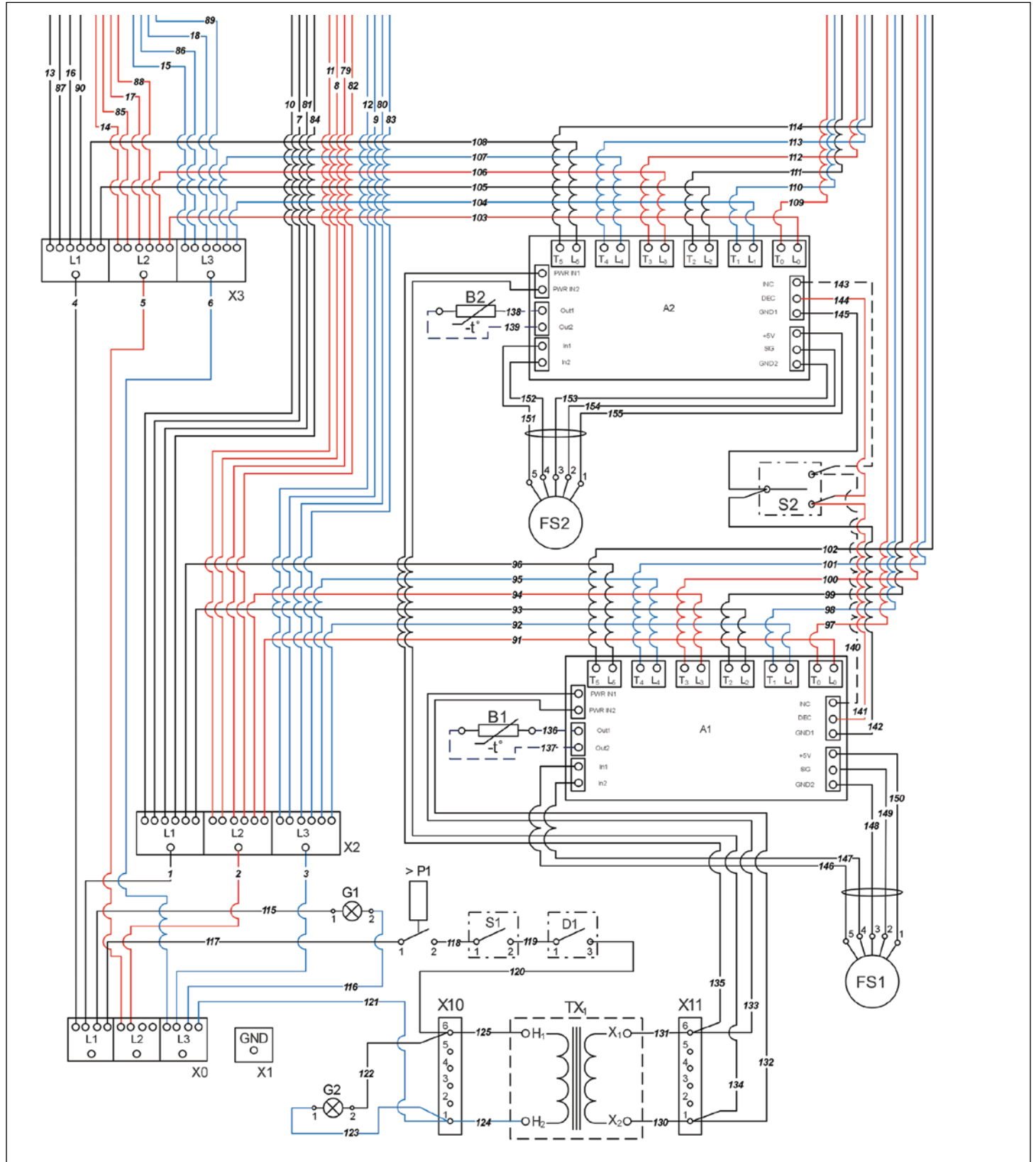
- |        |                     |          |                            |     |                              |
|--------|---------------------|----------|----------------------------|-----|------------------------------|
| A1     | Control board 1     | S1       | On/off switch              | X7  | Element block 2              |
| A2     | Control board 2     | S2       | Temperature toggle switch  | X8  | Thermostat block 2           |
| B1     | Thermistor 1        | T1-T24   | Thermostat                 | X9  | Triac block                  |
| B2     | Thermistor 2        | TR1-TR12 | Triac                      | X10 | Transformer terminal block 1 |
| D1     | Delay timer         | TX1      | Transformer                | X11 | Transformer terminal block 2 |
| F1-F12 | Fuse                | X0       | Main terminal block        |     |                              |
| FS1    | Flow sensor 1       | X1       | Ground terminal            |     |                              |
| FS2    | Flow sensor 2       | X2       | Secondary terminal block 1 |     |                              |
| G1     | Main power light    | X3       | Secondary terminal block 2 |     |                              |
| G2     | On/off power light  | X4       | Fuse block                 |     |                              |
| P1     | Low pressure switch | X5       | Thermostat block 1         |     |                              |
| R1-R24 | Resistance element  | X6       | Element block 1            |     |                              |



# INSTALLATION TECHNICAL DATA

## CE/CES/CERO 144 575 V Delta wiring diagram (page 2)

This diagram is valid for: CE/CES/CERO 144 575 V



ENGLISH