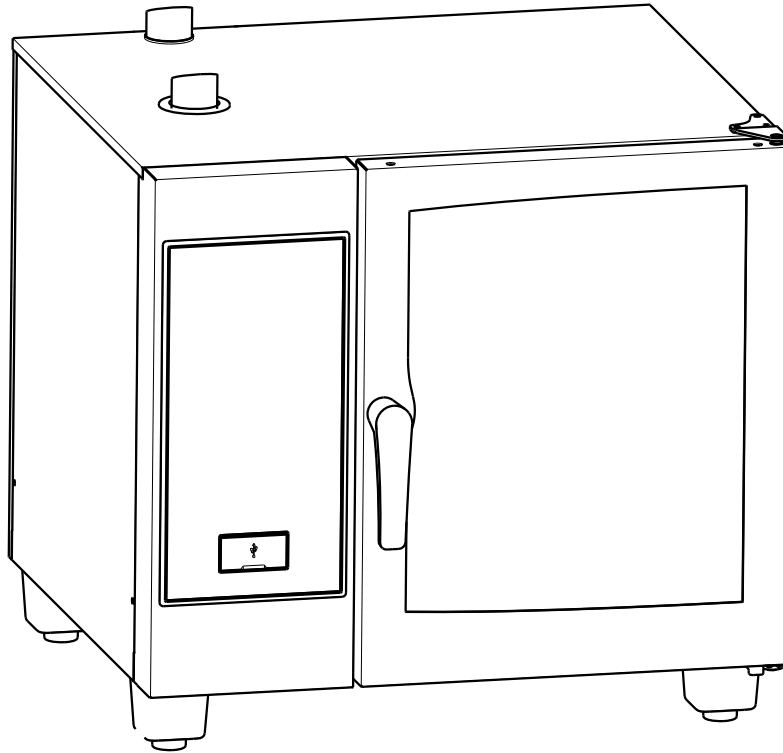
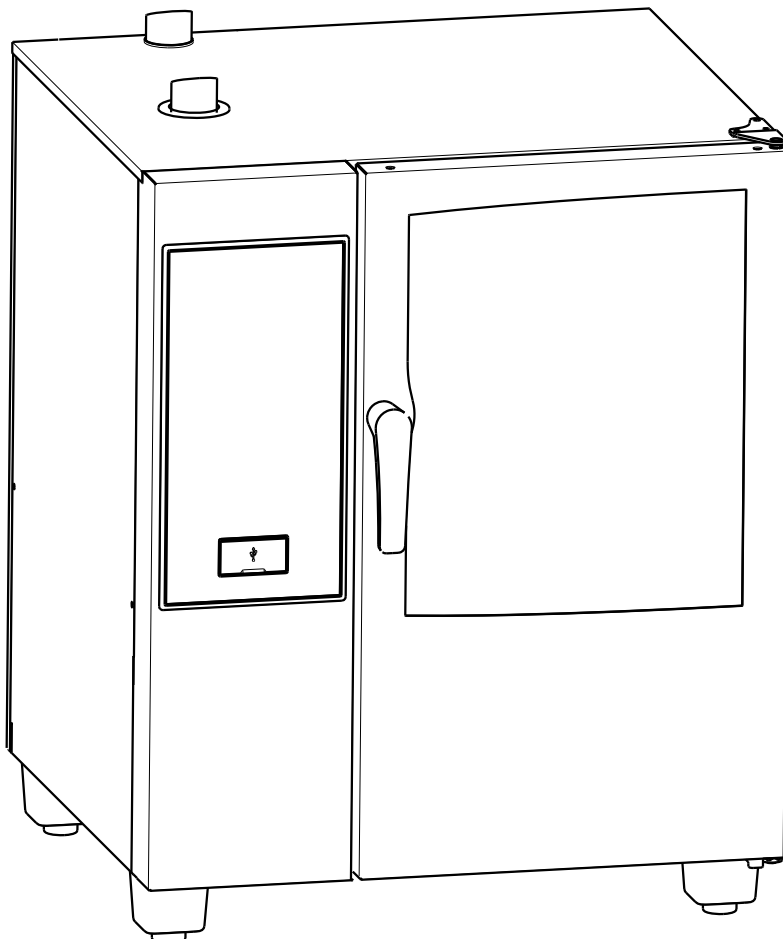


# **ELECTRIC** OVENS

## Electrical Documentation

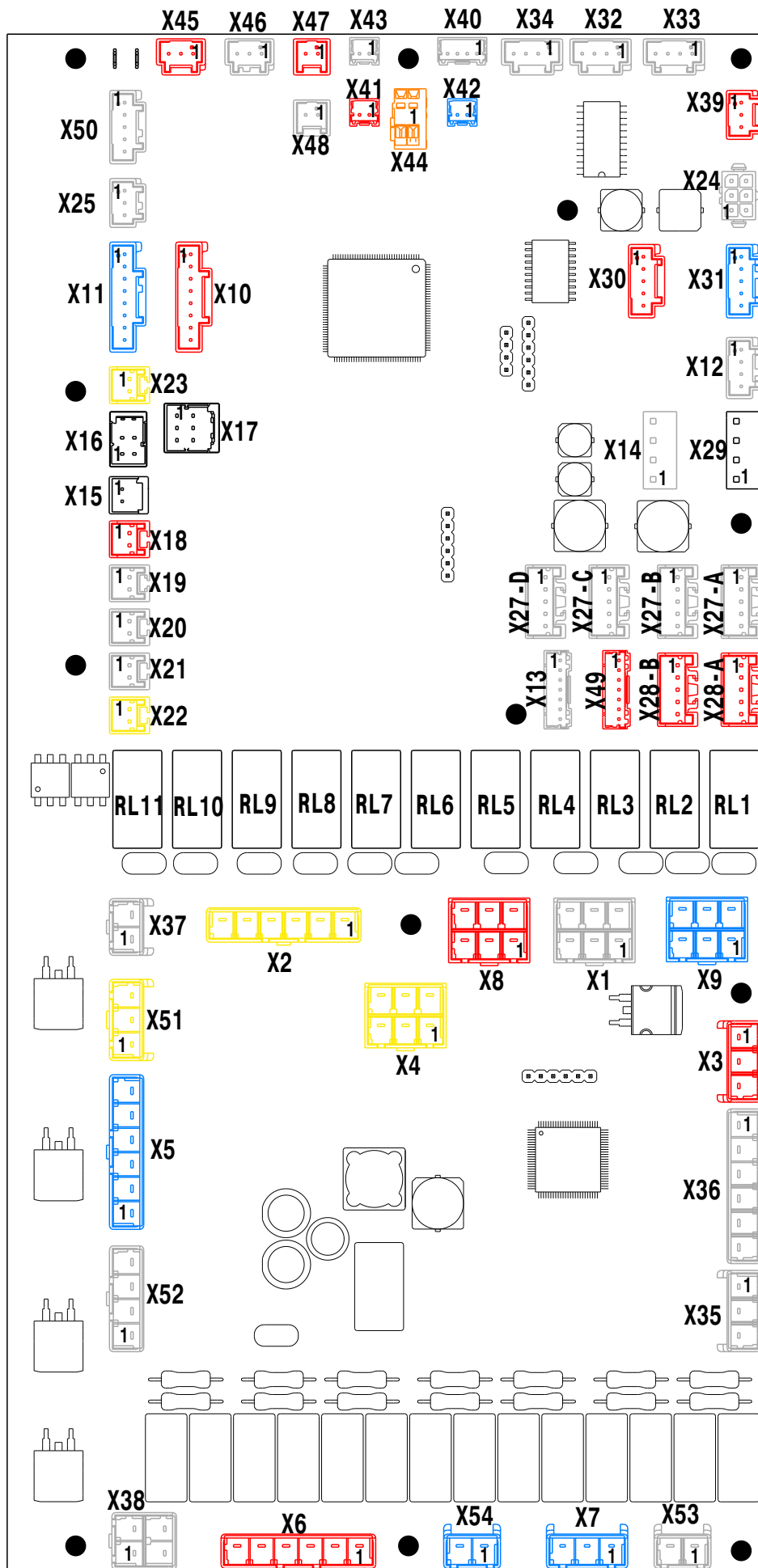


6 1/1  
&  
6 2/1



10 1/1  
&  
10 2/1

# MAIN BOARD ACU



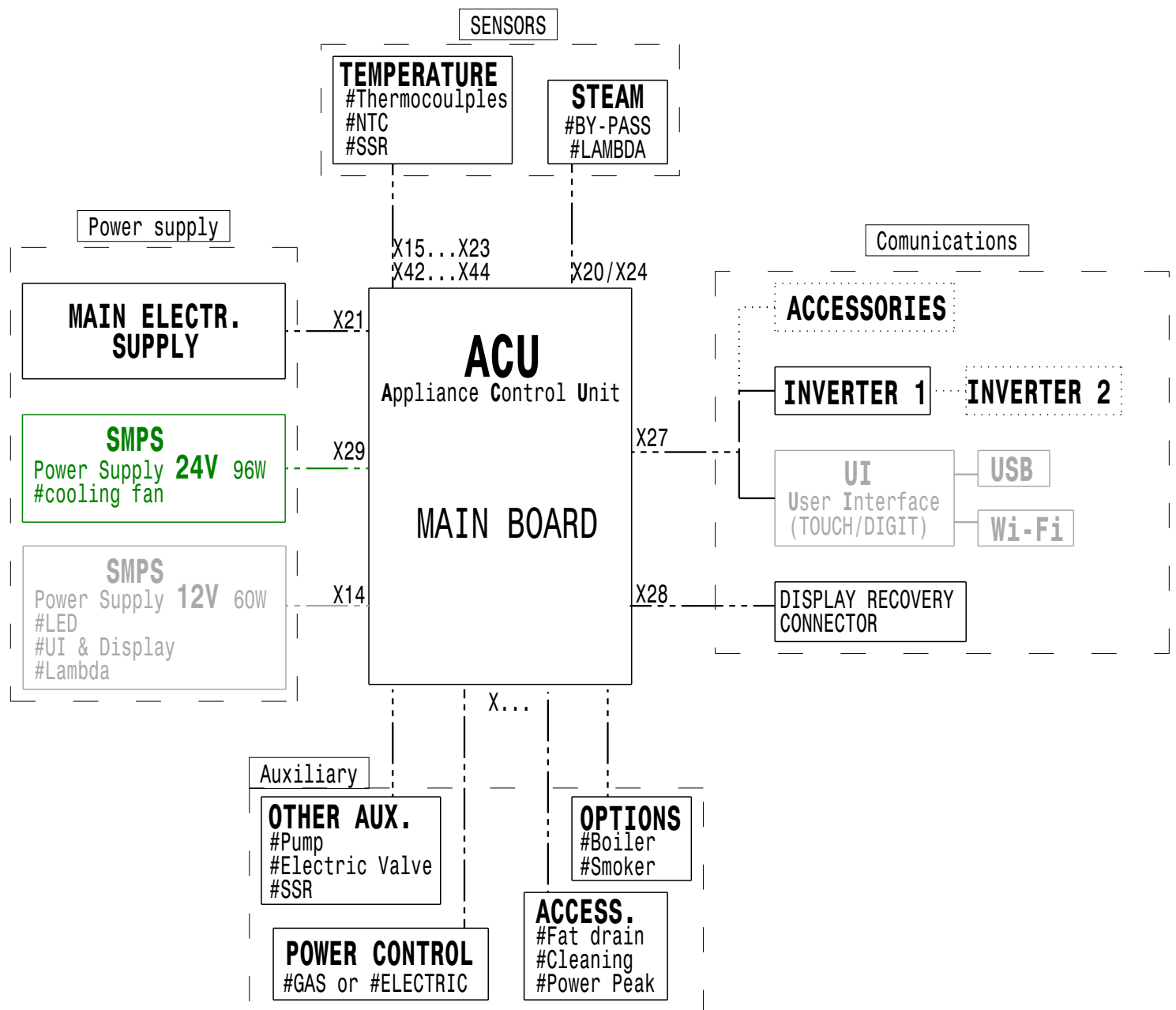
# ACU LEGENDA

| Ref. | Group                        | Pin | Direct. | Function                                       |
|------|------------------------------|-----|---------|------------------------------------------------|
| X1   | Power Supply                 | 1   | IN      | L Power Supply                                 |
|      |                              | 2   | IN      | N Power Supply                                 |
|      |                              | 3   | IN      | L Power Supply                                 |
|      |                              | 4   | IN      | N Power Supply                                 |
|      |                              | 5   | IN      |                                                |
|      |                              | 6   | OUT     | SW-OFF Auto switch off                         |
| X2   | Water Service                | 1   | OUT     | EV1 Instant steam solenoid valve               |
|      |                              | 2   | OUT     | EV2 Quenching solenoid valve                   |
|      |                              | 3   | OUT     | EV4 Spray unit solenoid valve                  |
|      |                              | 4   | OUT     | BV3 Cavity drain ball valve OPEN               |
|      |                              | 5   | OUT     | BV3 Cavity drain ball valve CLOSE              |
|      |                              | 6   | OUT     | N                                              |
| X3   | Clean. Syst. Basic           | 1   | OUT     | EV7 Cleaning water fill solenoid valve         |
|      |                              | 2   | OUT     | M8 Cleaning pump                               |
|      |                              | 3   | OUT     | N                                              |
| X4   | Cleaning System Drawer Rinse | 1   | OUT     | EV11 Drawer fill solenoid valve                |
|      |                              | 2   | OUT     | EV12 Drawer drain solenoid valve               |
|      |                              | 3   | OUT     |                                                |
|      |                              | 4   | OUT     |                                                |
|      |                              | 5   | OUT     |                                                |
|      |                              | 6   | OUT     | N                                              |
| X5   | Boiler Fill & Clean          | 1   | OUT     | EV5 Boiler fill solenoid valve                 |
|      |                              | 2   | OUT     |                                                |
|      |                              | 3   | OUT     | BV6 Boiler drain ball valve OPEN               |
|      |                              | 4   | OUT     | BV6 Boiler drain ball valve CLOSE              |
|      |                              | 5   | OUT     |                                                |
|      |                              | 6   | OUT     | N                                              |
| X6   | Sensing                      | 1   | IN      | TSC Cavity safety thermostat                   |
|      |                              | 2   | IN      | BBC1 Cavity gas blower burner                  |
|      |                              | 3   | IN      |                                                |
|      |                              | 4   | IN      | HVIA Motor drive fuse                          |
|      |                              | 5   | IN      |                                                |
|      |                              | 6   | IN      |                                                |
| X7   | Sensing                      | 1   | IN      | TSB Boiler safety thermostat                   |
|      |                              | 2   | IN      | BBB1 Boiler gas blower burner                  |
|      |                              | 3   | IN      |                                                |
| X8   | Cavity GAS burner            | 1   | OUT     | N                                              |
|      |                              | 2   | OUT     | FCU Cavity flame control unit reset            |
|      |                              | 3   | OUT     |                                                |
|      |                              | 4   | IN      | FCU Cavity flame control unit power supply IN  |
|      |                              | 5   | OUT     | FCU Cavity flame control unit power supply OUT |
|      |                              | 6   | OUT     |                                                |
| X9   | Boiler GAS burner            | 1   | OUT     | N                                              |
|      |                              | 2   | OUT     | FBU Boiler flame control unit reset            |
|      |                              | 3   | OUT     |                                                |
|      |                              | 4   | IN      | FBU Boiler flame control unit power supply IN  |
|      |                              | 5   | OUT     | FBU Boiler flame control unit power supply OUT |
|      |                              | 6   | OUT     |                                                |
| X10  | Cavity GAS blower            | 1   | OUT     | VTUC Cavity blower control Power supply        |
|      |                              | 2   | IN      | VTUC Cavity blower control Tachometer          |
|      |                              | 3   | IN      |                                                |
|      |                              | 4   | OUT     | VTUC Cavity blower control Speed               |
|      |                              | 5   | IN      |                                                |
|      |                              | 6   | IN      |                                                |
|      |                              | 7   | OUT     |                                                |
|      |                              | 8   | OUT     | VTUC Boiler blower control GND                 |
| X11  | Boiler GAS blower            | 1   | OUT     | VTBU Boiler blower control Power supply        |
|      |                              | 2   | IN      | VTBU Boiler blower control Tachometer          |
|      |                              | 3   | IN      |                                                |
|      |                              | 4   | OUT     | VTBU Boiler blower control Speed control       |
|      |                              | 5   | IN      |                                                |
|      |                              | 6   | IN      |                                                |
|      |                              | 7   | OUT     |                                                |
|      |                              | 8   | OUT     | VTBU Boiler blower control GND                 |

| Ref.  | Group        | Pin | Direct. | Function                                         |
|-------|--------------|-----|---------|--------------------------------------------------|
| X12   | Led          | 1   | OUT     | H1 LED lighting 1 anode                          |
|       |              | 2   | IN      | H1 LED lighting 1 catode                         |
|       |              | 3   | IN      | H2 LED lighting 2 catode                         |
|       |              | 4   | OUT     | H2 LED lighting 2 anode                          |
| X13   |              |     |         | Adress                                           |
| X14   | 12V          | 1   | IN      | +12V dc                                          |
|       |              | 2   | IN      |                                                  |
|       |              | 3   | IN      | 0V dc                                            |
|       |              | 4   | IN      |                                                  |
| X15   |              | A1  | IN      | TFP 1 <sup>st</sup> point food probe temperature |
|       |              | B1  | IN      |                                                  |
|       |              | A1  | IN      | TFP 2 <sup>nd</sup> point food probe temperature |
|       |              | B1  | IN      |                                                  |
| X16   |              | A2  | IN      | TFP 3 <sup>rd</sup> point food probe temperature |
|       |              | B2  | IN      |                                                  |
|       |              | A1  | IN      | TFP 4 <sup>th</sup> point food probe temperature |
|       |              | B1  | IN      |                                                  |
| X17   |              | A2  | IN      | TFP 5 <sup>th</sup> point food probe temperature |
|       |              | B2  | IN      |                                                  |
|       |              | A3  | IN      | TFP 6 <sup>th</sup> point food probe temperature |
|       |              | B3  | IN      |                                                  |
| X18   | Temper.      | 1   | IN      | TCAV Cavity Thermocouple                         |
|       |              | 2   | IN      |                                                  |
| X19   | Temper.      | 1   | IN      | TBOI Boiler Thermocouple                         |
|       |              | 2   | IN      |                                                  |
| X20   | Temper.      |     |         | -- NOT USE --                                    |
| X21   | Temper.      |     |         | -- NOT USE --                                    |
| X22   | Temper.      | 1   | IN      | TQS Quenching System Thermocouple                |
|       |              | 2   | IN      |                                                  |
| X23   | Temper.      | 1   | IN      | TAR Aromatizer Thermocouple                      |
|       |              | 2   | IN      |                                                  |
| X24   | Lambda       |     |         | Lambda sensor                                    |
| X25   | Boiler level | 1   | IN/OUT  | SL Boiler safety level dection probe             |
|       |              | 2   | IN/OUT  | WL Boiler working level dection probe            |
|       |              | 3   | IN      | REF Boiler level detection probes reference      |
| X27-A |              |     | IN/OUT  | PMACS communication BUS                          |
| X27-B |              |     | IN/OUT  | PMACS communication BUS                          |
| X27-C |              |     | IN/OUT  | PMACS communication BUS                          |
| X27-D |              |     | IN/OUT  | PMACS communication BUS                          |
| X28-A |              |     | IN/OUT  | PMACS Recovery communication BUS                 |
| X28-B |              |     | IN/OUT  | PMACS Recovery communication BUS                 |
| X29   | 24V          | 1   | IN      | +24V dc                                          |
|       |              | 2   | IN      |                                                  |
|       |              | 3   | IN      |                                                  |
|       |              | 4   | IN      | 0V dc                                            |
| X30   | Cavity SSR   | 1   | OUT     | KC1 Cavity 1 solid state relay                   |
|       |              | 2   | OUT     | KC2 Cavity 2 solid state relay                   |
|       |              | 3   | OUT     |                                                  |
|       |              | 4   | OUT     |                                                  |
|       |              | 5   | OUT     | 0V dc                                            |
| X31   | Boiler SSR   | 1   | OUT     | KB1 Boiler 1 solid state relay                   |
|       |              | 2   | OUT     | KB2 Boiler 2 solid state relay                   |
|       |              | 3   | OUT     |                                                  |
|       |              | 4   | OUT     |                                                  |
|       |              | 5   | OUT     | 0V dc                                            |

| Ref. | Group               | Pin | Direct. | Function                              |
|------|---------------------|-----|---------|---------------------------------------|
| X32  | Cooling Fan 1       | 1   | OUT     | FAN1 Cooling fan 1 power supply 24Vdc |
|      |                     | 2   | IN      | FAN1 Cooling fan 1 tachometer sensor  |
|      |                     | 3   | OUT     | FAN1 Cooling fan 1 speed control      |
|      |                     | 4   | OUT     | FAN1 Cooling fan 1 power supply 0Vdc  |
| X33  | Cooling Fan 2       |     |         | -- NOT USE --                         |
| X34  | Cooling Fan 3       |     |         | -- NOT USE --                         |
| X35  | Vent. Valve         | 1   | OUT     | VV1 Venting valve 1 cw rotation       |
|      |                     | 2   | OUT     | N                                     |
|      |                     | 3   | OUT     | VV1 Venting valve 1 ccw rotation      |
| X36  |                     |     |         | -- NOT USE --                         |
| X37  | KS                  | 1   | OUT     | KS Safety contactor                   |
|      |                     | 2   | OUT     |                                       |
| X38  | Smoker              | 1   | OUT     | N                                     |
|      |                     | 2   | OUT     | R1 (Smoker heating element)           |
|      |                     | 3   | OUT     |                                       |
|      |                     | 4   | IN      |                                       |
| X39  | Flow meter          | 1   |         |                                       |
|      |                     | 2   | OUT     | FM Flow meter reference               |
|      |                     | 3   | IN      | FM Flow meter feedback                |
| X40  | Temper.             | 1   | OUT     | NCC NTC cabinet components            |
|      |                     | 2   | IN      |                                       |
|      |                     | 3   | OUT     |                                       |
|      |                     | 4   | IN      |                                       |
| X41  | Temper.             | 1   | OUT     | NHSC NTC Cavity SSR heatsink          |
|      |                     | 2   | IN      |                                       |
| X42  | Temper.             | 1   | OUT     | NHSB NTC Boiler SSR heatsink          |
|      |                     | 2   | IN      |                                       |
| X43  | Temper.             |     |         | -- NOT USE --                         |
| X44  | Softner             | 1   | OUT     | SSW1 Softner interface                |
|      |                     | 2   | IN      |                                       |
| X45  | Switch              | 1   | OUT     | 24V Reference                         |
|      |                     | 2   | IN      | DS Door switch                        |
|      |                     | 3   | IN      | AFS Air filter switch                 |
| X46  | switch              | 1   | OUT     | 24V Reference                         |
|      |                     | 2   | IN      | SVV1 Venting valve CLOSE switch       |
|      |                     | 3   | IN      | SVV1 Venting valve OPEN switch        |
| X47  |                     | 1   | OUT     | 24V Reference                         |
|      |                     | 2   | IN      | SF Fat drain valve status switch      |
| X48  | Switch              | 1   | OUT     | 24V Reference                         |
|      |                     | 2   | IN      | DRS Cleaning drawer switch            |
| X49  |                     |     |         | Recovery Adress                       |
| X50  |                     | 1   | OUT     | 24V Reference                         |
|      |                     | 2   | IN      | HER Hood error                        |
|      |                     | 3   | IN      |                                       |
|      |                     | 4   | IN      |                                       |
|      |                     | 5   | IN      |                                       |
| X51  | Liquid Clean. Syst. | 1   | OUT     | P1 Liquid dergent pump                |
|      |                     | 2   | OUT     | P2 Liquid rinse pump                  |
|      |                     | 3   | OUT     | N                                     |
|      |                     |     |         |                                       |
| X52  |                     | 1   | OUT     | HS2 Hood speed 2                      |
|      |                     | 2   | OUT     | HS1 Hood speed 1                      |
|      |                     | 3   | OUT     | HON Hood ON                           |
|      |                     | 4   | OUT     | N Neutral                             |
| X53  |                     | 1   | IN      | PPM1 Peak power managment 1           |
|      |                     | 2   | IN      | PPM2 Peak power managment 2           |
| X54  |                     |     |         | -- NOT USE --                         |

# LOGIC DIAGRAM



# HARNESS DIAGRAM

Factory Customizations

**ELECTRICAL SUPPLY**

Type of POWER SUPPLY

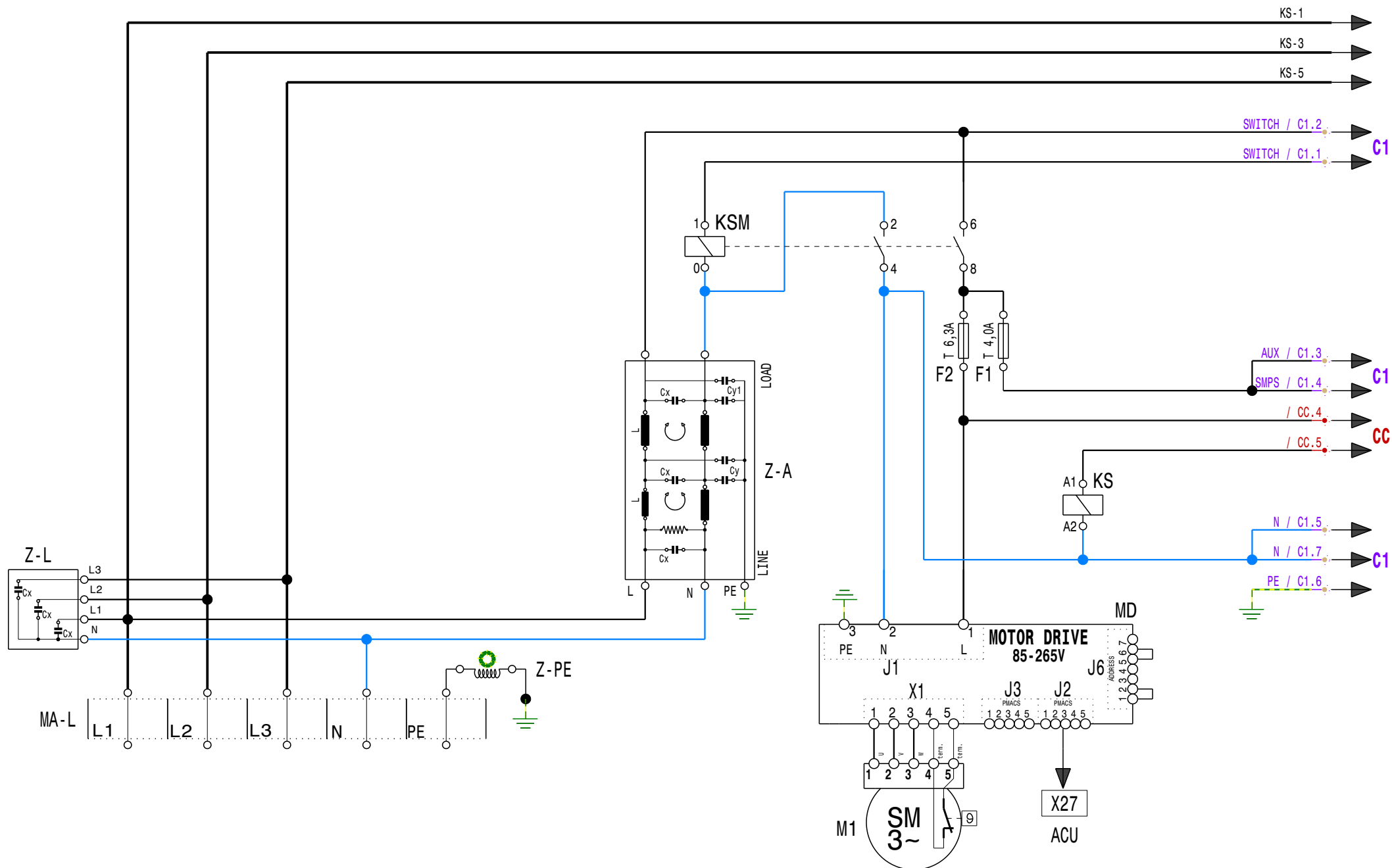
**COMMON**

Always connected

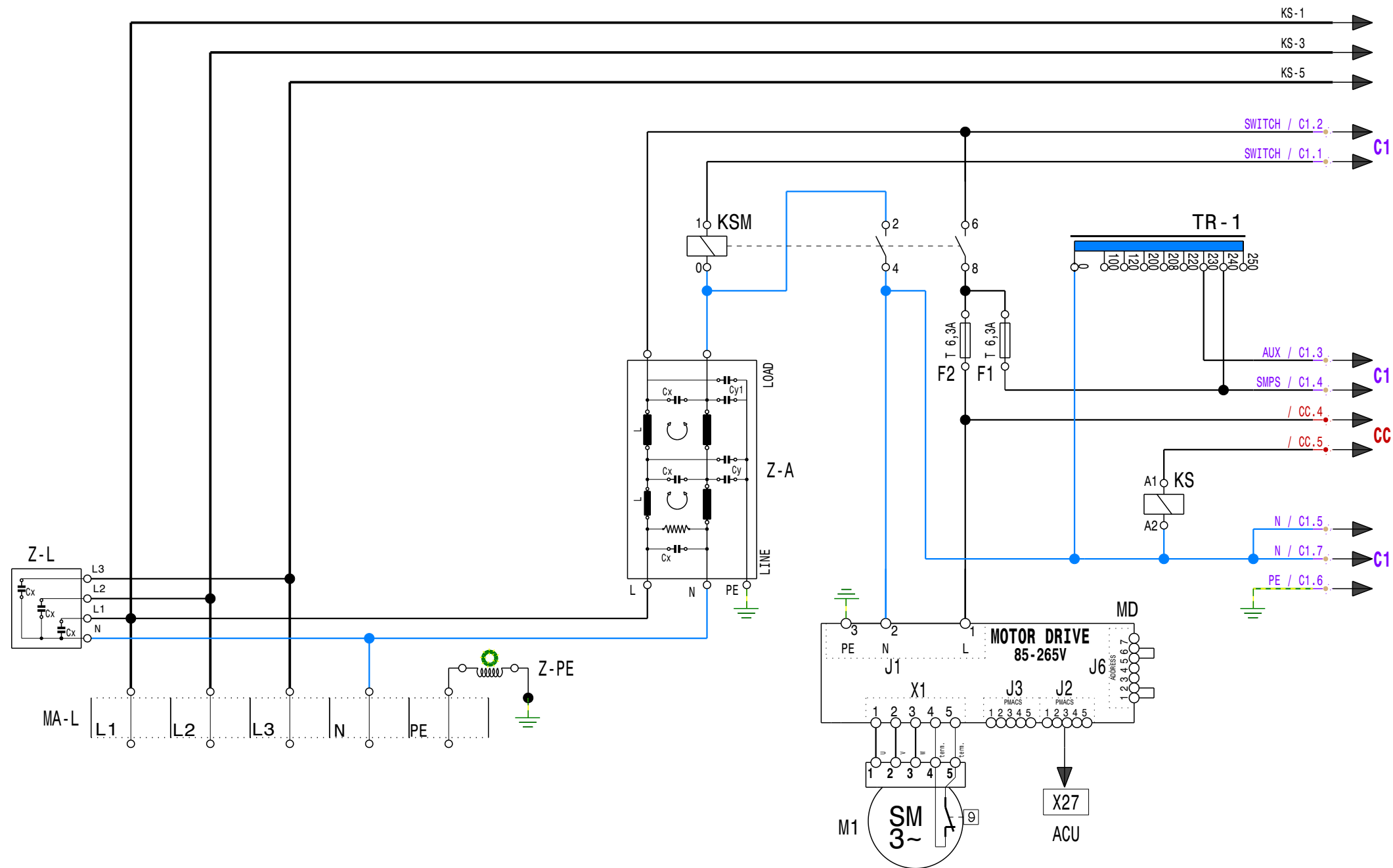
**OPTIONS**

**ACCESSORIES**

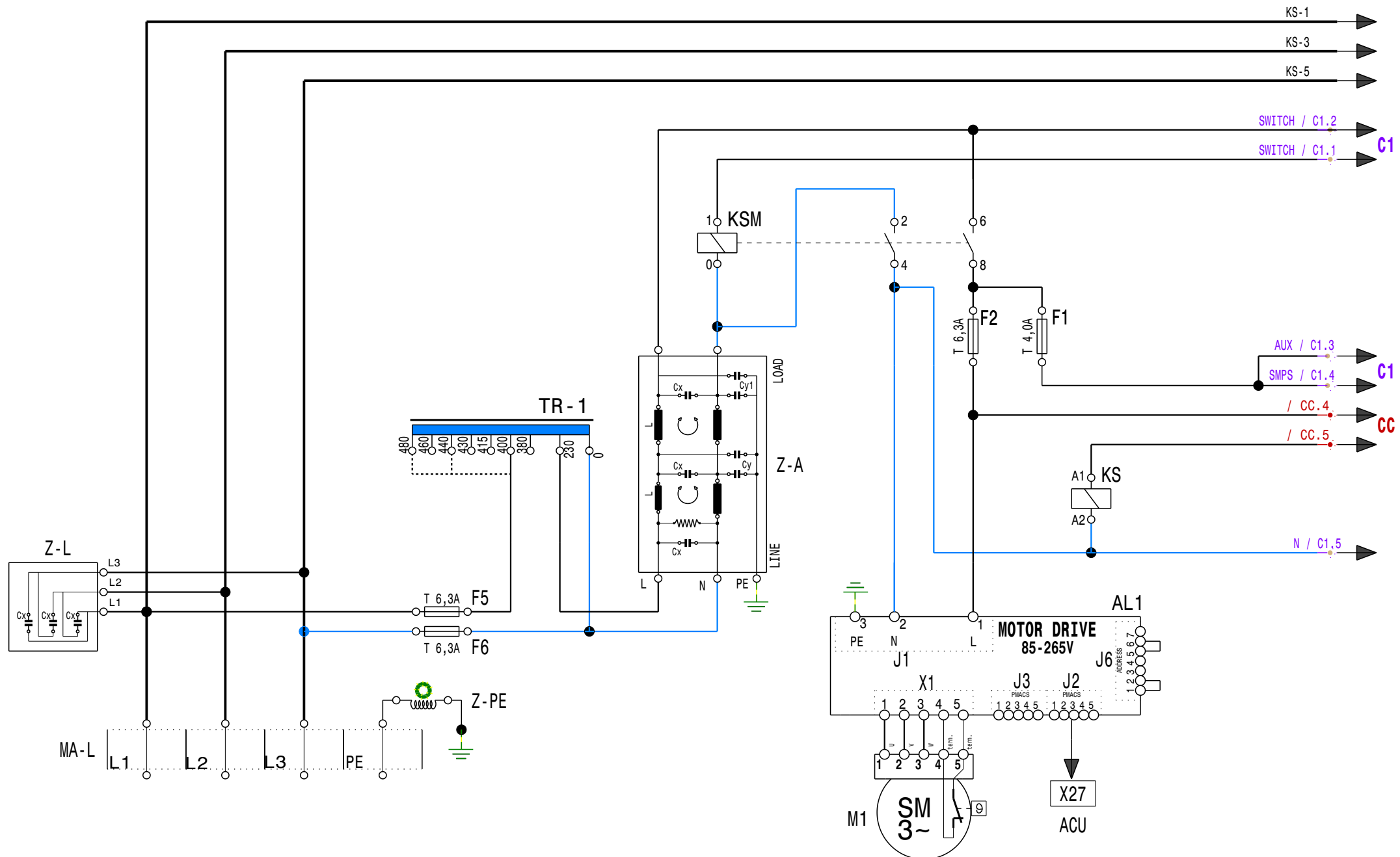
**ACCESSORIES**



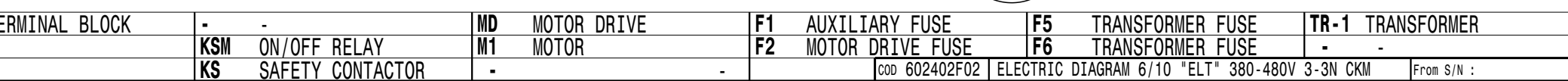
|                              |                             |                       |                            |   |               |                                               |            |
|------------------------------|-----------------------------|-----------------------|----------------------------|---|---------------|-----------------------------------------------|------------|
| <b>MA-L</b> TERMINAL BLOCK   | <b>Z-A</b> AUXILIARY FILTER | <b>MD</b> MOTOR DRIVE | <b>F1</b> AUXILIARY FUSE   | - | -             | -                                             | -          |
| <b>Z-L</b> CAPACITIVE FILTER | <b>KSM</b> ON/OFF RELAY     | <b>M1</b> MOTOR       | <b>F2</b> MOTOR DRIVE FUSE | - | -             | -                                             | -          |
| <b>Z-PE</b> GROUND FILTER    | <b>KS</b> SAFETY CONTACTOR  | -                     | -                          |   | COD 602402F02 | ELECTRIC DIAGRAM 6/10 "ELT" 380-480V 3-3N CKM | From S/N : |



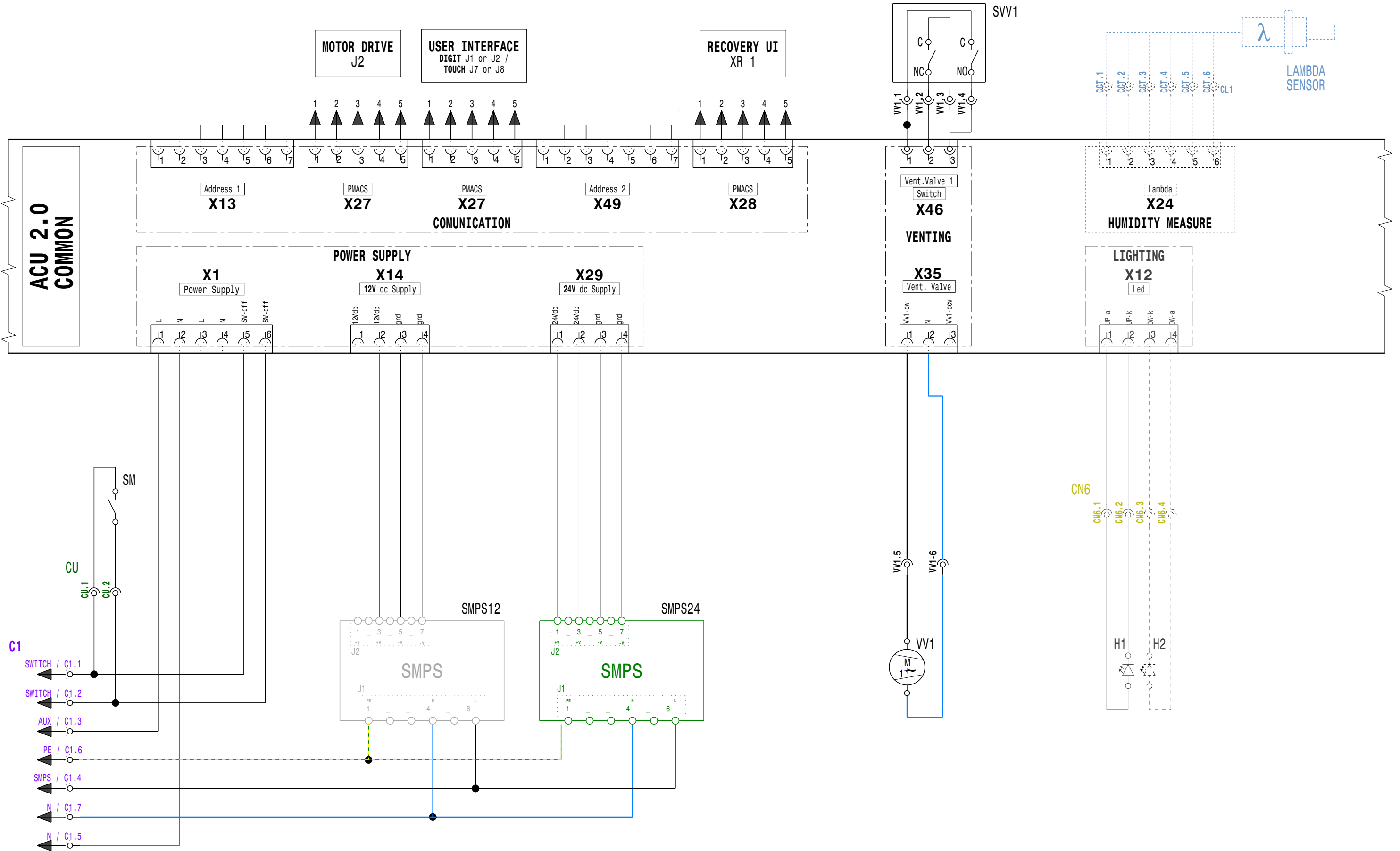
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|------|-------------------|-----|------------------|----|-------------|---------------------------------------------------------------|------------------|------|-------------|---|------------|
| MA-L | TERMINAL BLOCK    | Z-A | AUXILIARY FILTER | MD | MOTOR DRIVE | F1                                                            | AUXILIARY FUSE   | TR-1 | TRANSFORMER | - | -          |
| Z-L  | CAPACITIVE FILTER | KSM | ON/OFF RELAY     | M1 | MOTOR       | F2                                                            | MOTOR DRIVE FUSE | -    | -           | - | -          |
| Z-PE | GROUND FILTER     | KS  | SAFETY CONTACTOR | -  | -           | COD 602402F02   ELECTRIC DIAGRAM 6/10 "ELT" 380-480V 3-3N CKM |                  |      |             |   | From S/N : |



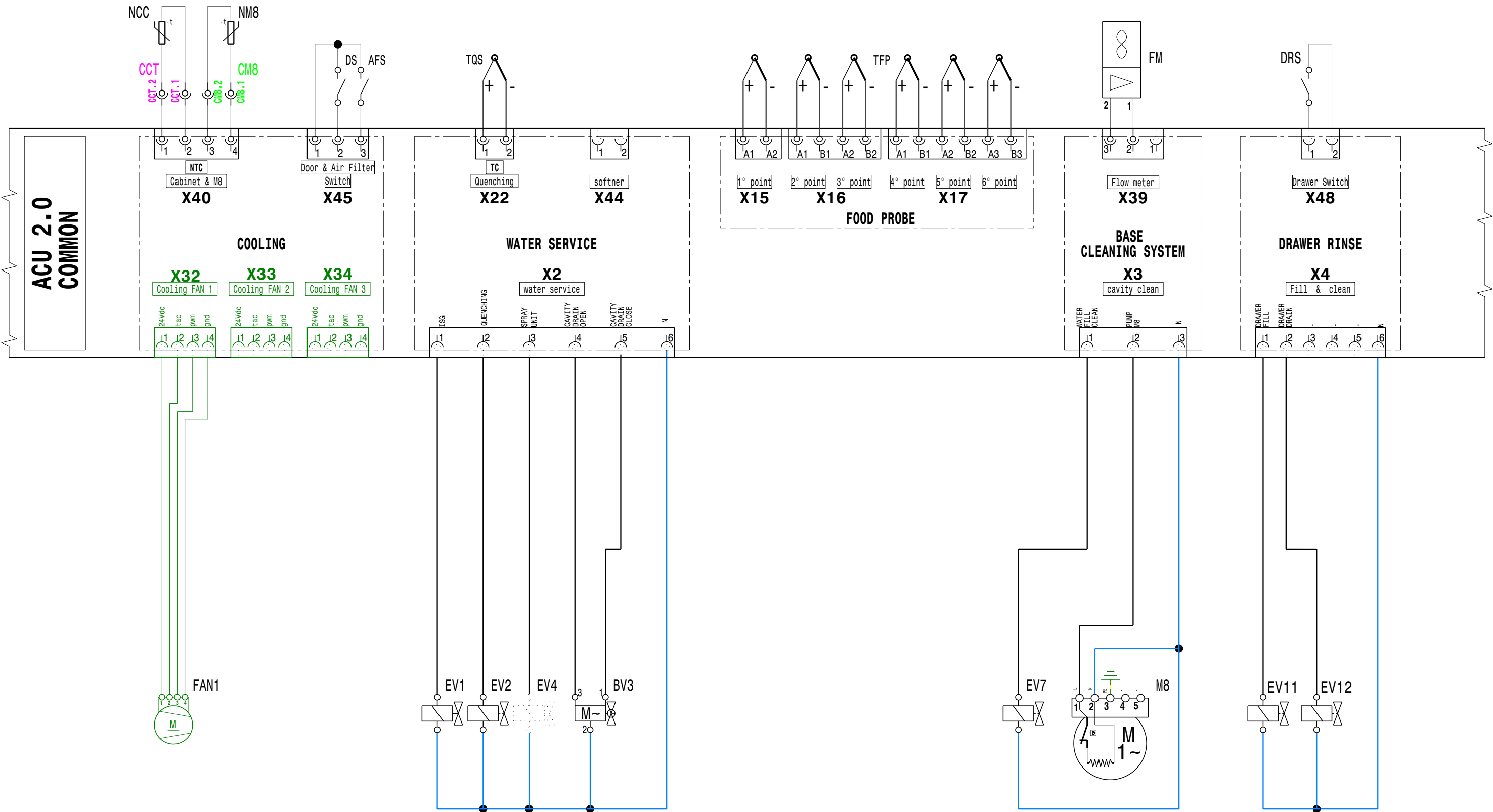
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|------------------------------|-----------------------------|-----------------------|----------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-------------------------|
| <b>MA-L</b> TERMINAL BLOCK   | <b>Z-A</b> AUXILIARY FILTER | <b>MD</b> MOTOR DRIVE | <b>F1</b> AUXILIARY FUSE   | <b>F5</b> TRANSFORMER FUSE                                                                                                        | <b>TR-1</b> TRANSFORMER |
| <b>Z-L</b> CAPACITIVE FILTER | <b>KSM</b> ON/OFF RELAY     | <b>M1</b> MOTOR       | <b>F2</b> MOTOR DRIVE FUSE | <b>F6</b> TRANSFORMER FUSE                                                                                                        | - -                     |
| <b>Z-PE</b> GROUND FILTER    | <b>KS</b> SAFETY CONTACTOR  | -                     | -                          | <div> <div> <div>COD 602402F02</div> <div>ELECTRIC DIAGRAM 6/10 "ELT" 380-480V 3-3N CKM</div> </div> <div>From S/N :</div> </div> |                         |







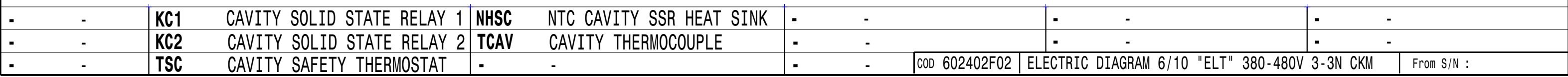
|    |             |   |   |        |          |      |                        |                                               |                |   |            |
|----|-------------|---|---|--------|----------|------|------------------------|-----------------------------------------------|----------------|---|------------|
| SM | MAIN SWITCH | - | - | SMPS12 | SMPS 12V | VV1  | VENTING VALVE 1        | H1                                            | LED LIGHTING 1 | - | -          |
| -  | -           | - | - | SMPS24 | SMPS 24V | SVV1 | VENTING VALVE SWITCHES | H2                                            | LED LIGHTING 2 | - | -          |
| -  | -           | - | - | -      | -        | -    | COD 602402F02          | ELECTRIC DIAGRAM 6/10 "ELT" 380-480V 3-3N CKM |                |   | From S/N : |



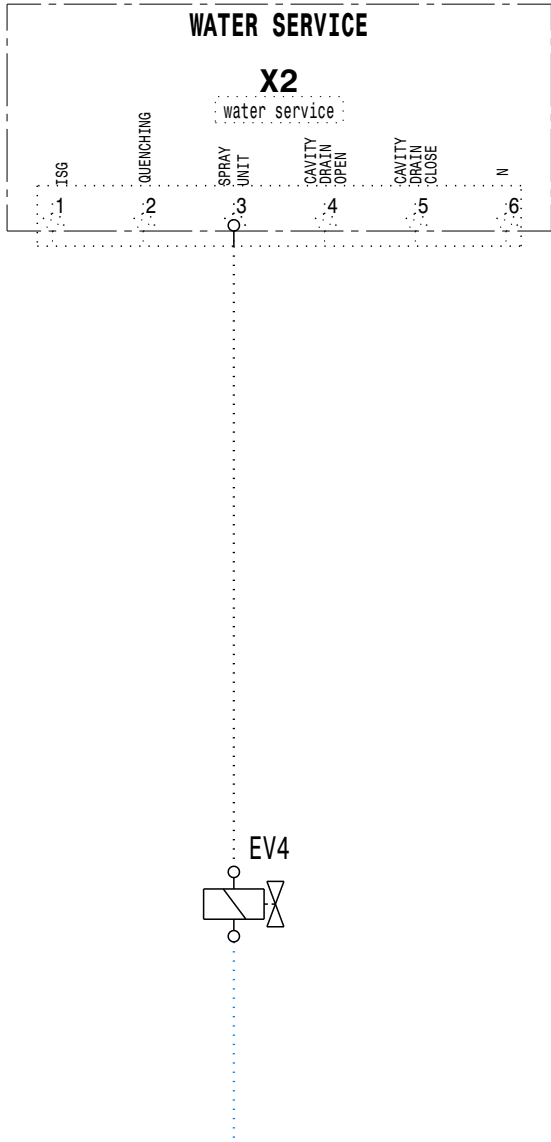
|      |                        |     |                    |     |                              |                                                               |                              |      |                       |
|------|------------------------|-----|--------------------|-----|------------------------------|---------------------------------------------------------------|------------------------------|------|-----------------------|
| FAN1 | COOLING FAN            | DS  | DOOR SWITCH        | TFP | FOOD PROBE TEMPERATURE       | FM                                                            | FLOW METER                   | DRS  | DRAWER SWITCH         |
| NCC  | NTC CABINET COMPONENTS | AFS | AIR FILTER SWITCH  | EV1 | INSTANT STEAM SOLENOID VALVE | EV7                                                           | CLEANING WATER FILL S. VALVE | EV11 | DRAWER FILL S. VALVE  |
| NM8  | NTC PUMP M8            | TQS | QUENCHING THERMOC. | EV2 | QUENCHING SOL.VALVE          | M8                                                            | CLEANING PUMP                | EV12 | DRAWER DRAIN S. VALVE |
| -    | -                      | -   | -                  | BV3 | CAVITY DRAIN BALL VALVE      | COD 602402F02   ELECTRIC DIAGRAM 6/10 "ELT" 380-480V 3-3N CKM |                              |      | From S/N :            |

# "ELECTRIC"

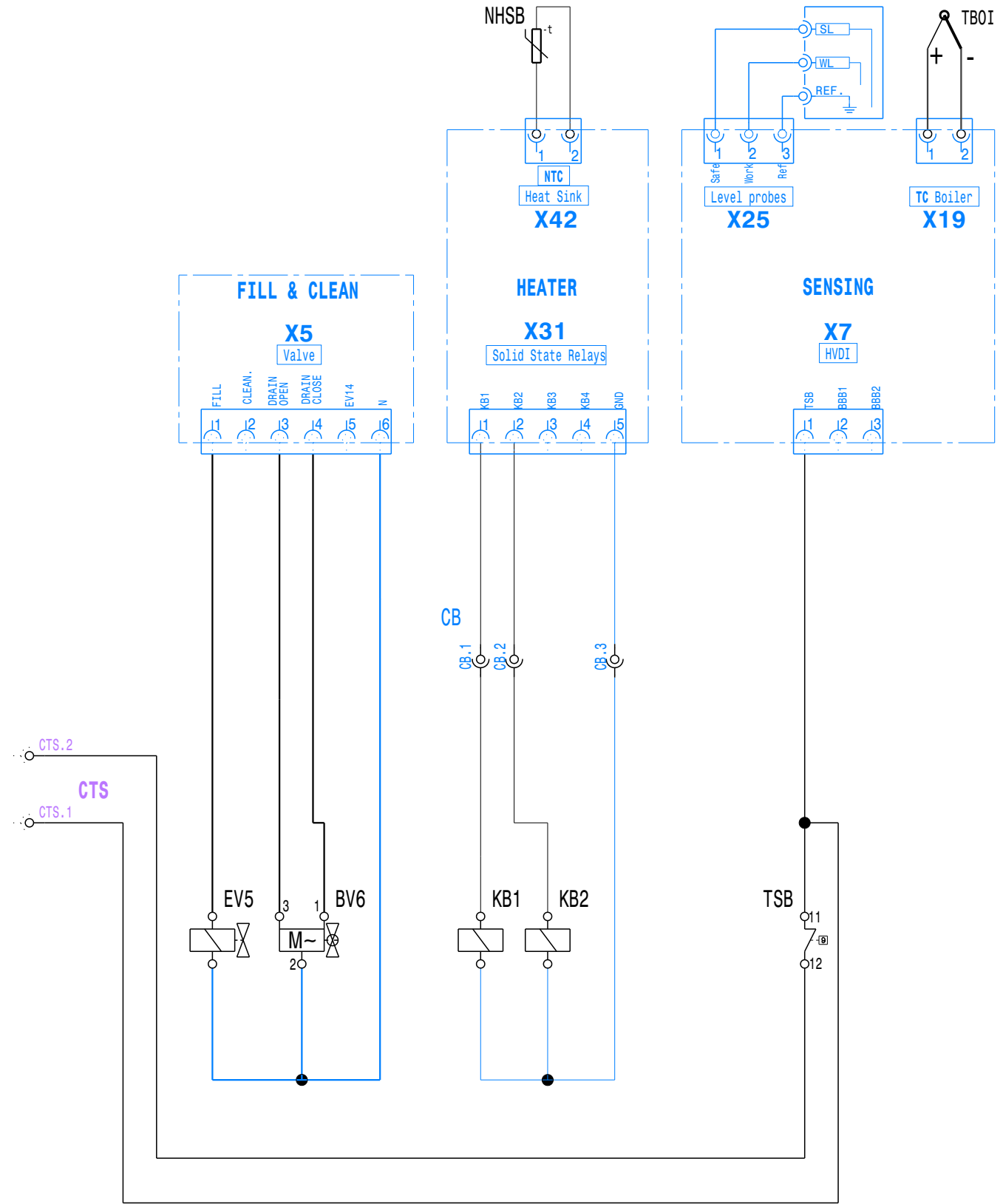
## ELECTRIC BOILER (OPTION)



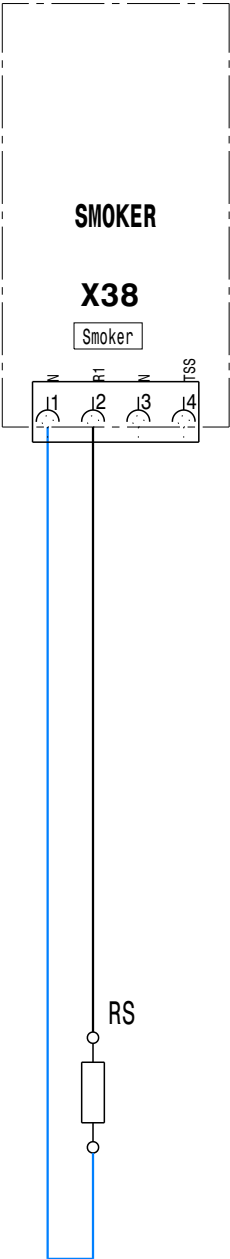
WATER SPRAY



ELECTRIC BOILER (OPTION)



SMOKER



|     |            |   |   |     |                            |      |                          |               |                                               |            |               |
|-----|------------|---|---|-----|----------------------------|------|--------------------------|---------------|-----------------------------------------------|------------|---------------|
| EV4 | SPRAY UNIT | - | - | EV5 | BOILER FILL SOLENOID VALVE | NHTB | NTC BOILER SSR HEAT SINK | -             | -                                             | RS         | SMOKER HEATER |
| -   | -          | - | - | BV6 | BOILER DRAIN BALL VALVE    | TSB  | BOILER SAFETY THERMOSTAT | -             | -                                             | -          | -             |
| -   | -          | - | - | KB1 | BOILER SOLID STATE RELAY 1 | TB0I | BOILER THERMOCOUPLE      | -             | -                                             | -          | -             |
| -   | -          | - | - | KB2 | BOILER SOLID STATE RELAY 2 | -    | -                        | COD 602402F02 | ELECTRIC DIAGRAM 6/10 "ELT" 380-480V 3-3N CKM | From S/N : |               |

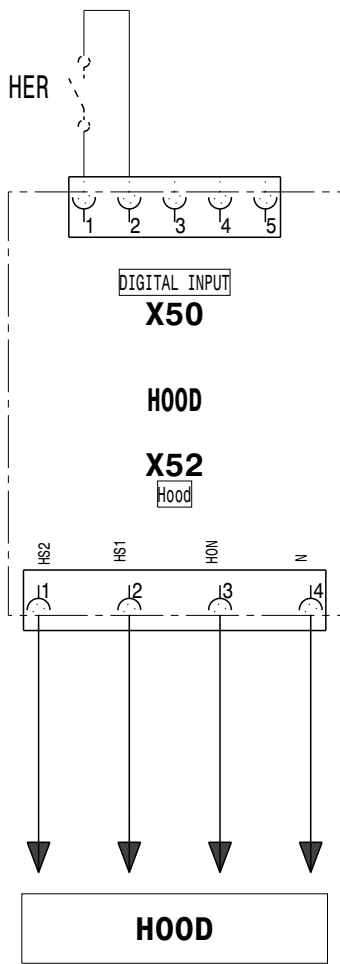
The diagram shows a vertical pipe with a switch labeled 'SF' and a rectangular box labeled 'Fat Drain SW' with terminals '1' and '2'.

The diagram illustrates the wiring for Peak Power Management. It features three modules at the top: X9, X8, and X53. X9 and X8 have six terminals each (N, Res UP, Res DW, L, Ps UP, Ps DW). X53 has two terminals (ppp1, ppp2). A TSC-12 component is connected to the L terminals of X9 and X8. X9's Ps UP terminal is connected to B1 of MA-PP. X8's Ps UP terminal is connected to C1 of MA-PP. X8's Ps DW terminal is connected to B2 of MA-PP. X53's ppp1 terminal is connected to C2 of MA-PP. X53's ppp2 terminal is connected to PE of MA-PP. MA-PP has terminals PK1, PK2, A, B1, C1, B2, C2, D, and PE. B1 and C1 are connected to a common ground point. B2 and C2 are connected to a common ground point. PE is connected to a common ground point. A note indicates: 'CONNECT THE EXTERNAL MANAGEMENT SYSTEM AND REMOVE THE BRIDGE'.

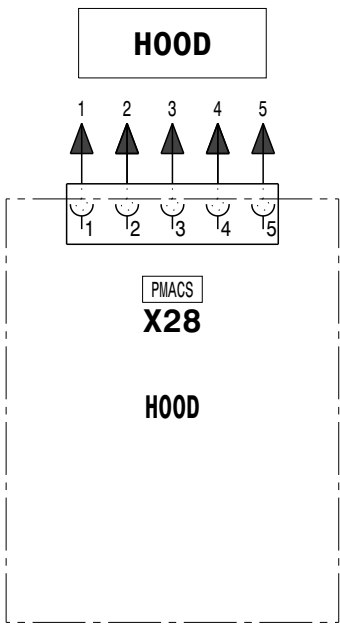
PK: PICK POWER CONTROL (POTENTIAL FREE CONTACT)  
A : POWER ON (KS CLOSED)  
B1: THERMOSTAT ON (HALF AND FULL POWER)  
B2: THERMOSTAT ON (FULL POWER)  
C1: RELEASE HEATING CONTACTOR (FIRST HALF POWER)  
C2: RELEASE HEATING CONTACTOR (SECOND HALF POWER)  
D : REFERENCE POTENTIAL (NEUTRAL)  
PE: GROUND

|           |                  |   |   |           |                |   |   |               |                                               |            |
|-----------|------------------|---|---|-----------|----------------|---|---|---------------|-----------------------------------------------|------------|
| <b>SF</b> | FAT DRAIN SWITCH | - | - | <b>P1</b> | RINSE PUMP     | - | - | <b>MA-PP</b>  | TERMINAL BLOCK PEAK POWER MANAGEMENT          |            |
| -         | -                | - | - | <b>P2</b> | DETERGENT PUMP | - | - | <b>TSC</b>    | CAVITY SAFETY THERMOSTAT                      |            |
| -         | -                | - | - | -         | -              | - | - | COD 602402F02 | ELECTRIC DIAGRAM 6/10 "ELT" 380-480V 3-3N CKM | From S/N : |

EXTRACTION HOOD  
CONDENSATION HOOD



ODOURLESS HOOD



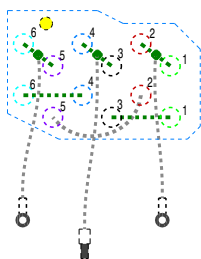
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|---|---|---|---------------|-----------------------------------------------|
| - | - | - | -             | -                                             |
| - | - | - | -             | -                                             |
| - | - | - | -             | -                                             |
|   |   |   | COD 602402F02 | ELECTRIC DIAGRAM 6/10 "ELT" 380-480V 3-3N CKM |
|   |   |   | From S/N :    |                                               |



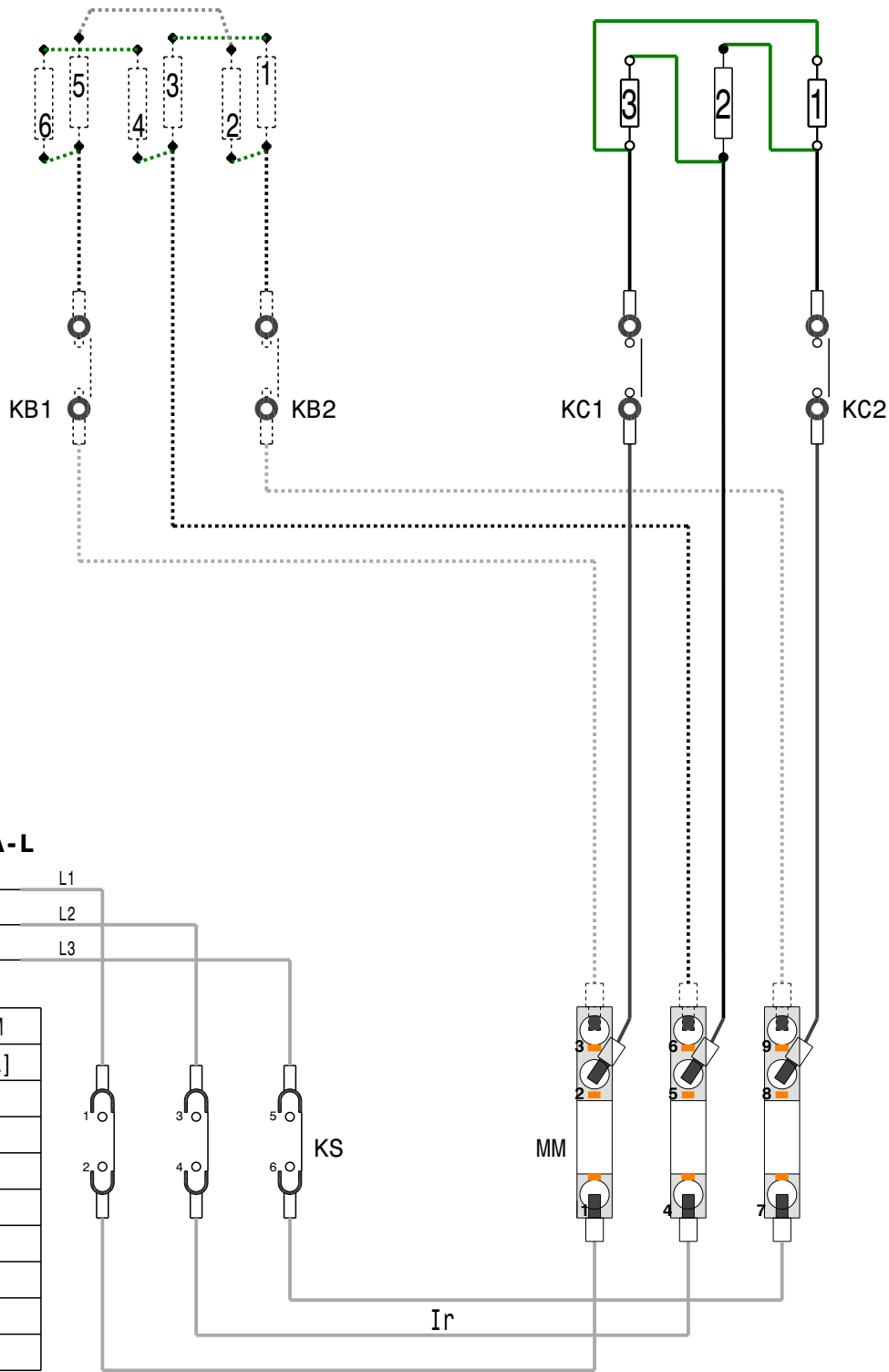
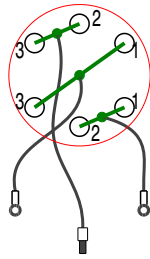
ELECTRICAL POWER WIRING

"ELECTRIC"

BOILER



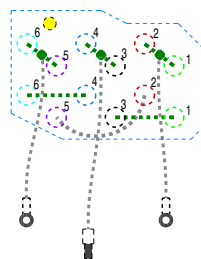
CAVITY



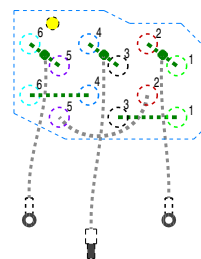
6 1/1  
380-480V

| Rated Voltage [V] | Supply Voltage [V] | CONVECTION | STEAM  |
|-------------------|--------------------|------------|--------|
|                   |                    | Ir [A]     | Ir [A] |
| 380-415           | 380                | 13.7       | 12.3   |
|                   | 400                | 14.4       | 13.0   |
|                   | 415                | 15.0       | 13.5   |
| 415-440           | 415                | 13.0       | 11.7   |
|                   | 430                | 13.4       | 12.1   |
|                   | 440                | 13.7       | 12.4   |
| 460-480           | 460                | 11.5       | 10.4   |
|                   | 480                | 12.0       | 10.8   |

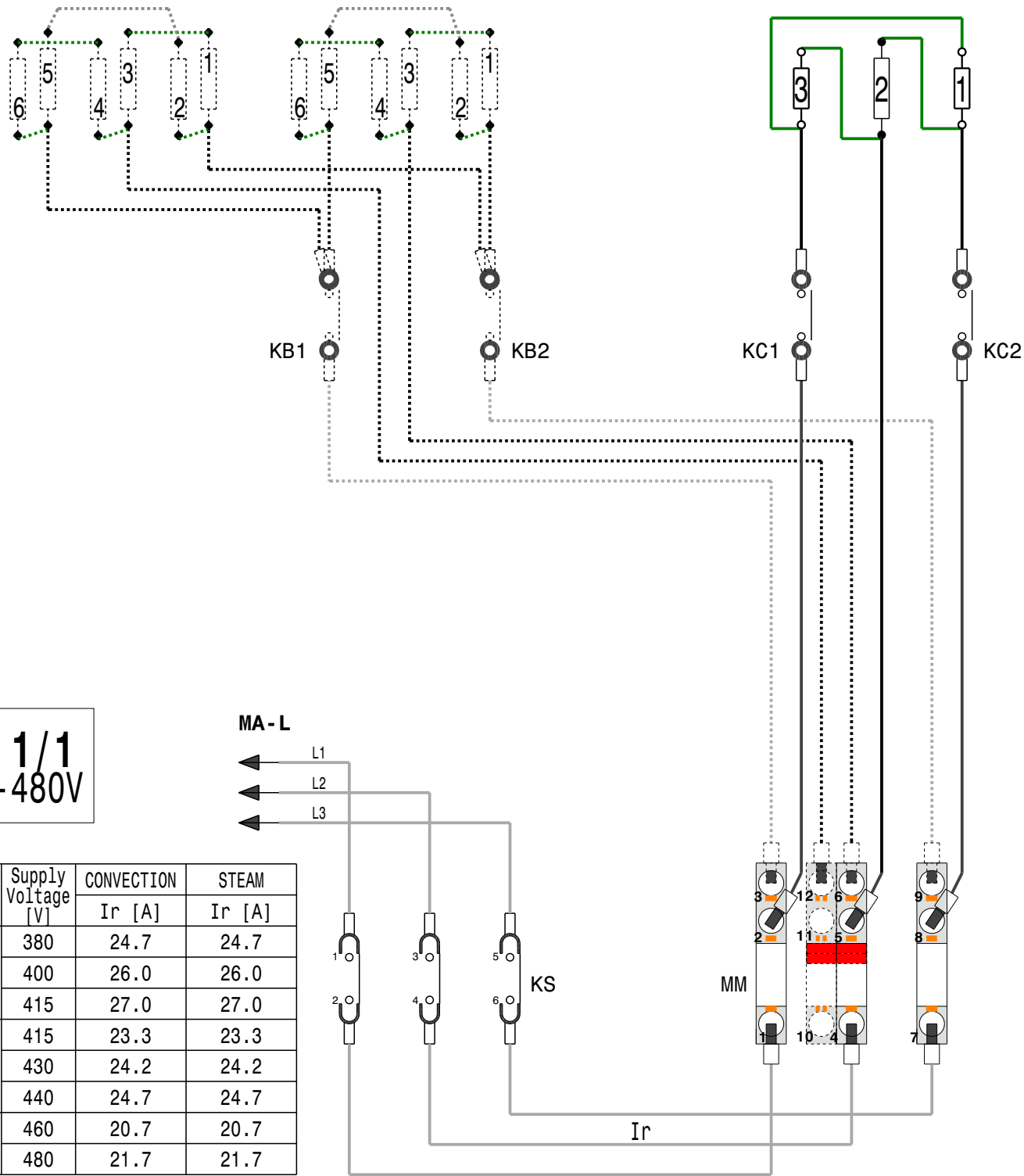
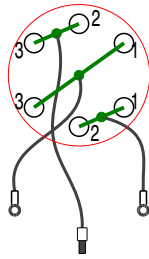
BOILER DOWN



BOILER UP



CAVITY



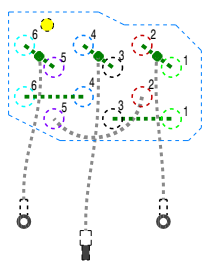
10 1/1  
380-480V

| Rated Voltage [V] | Supply Voltage [V] | CONVECTION | STEAM  |
|-------------------|--------------------|------------|--------|
|                   |                    | Ir [A]     | Ir [A] |
| 380-415           | 380                | 24.7       | 24.7   |
|                   | 400                | 26.0       | 26.0   |
|                   | 415                | 27.0       | 27.0   |
| 415-440           | 415                | 23.3       | 23.3   |
|                   | 430                | 24.2       | 24.2   |
|                   | 440                | 24.7       | 24.7   |
| 460-480           | 460                | 20.7       | 20.7   |
|                   | 480                | 21.7       | 21.7   |

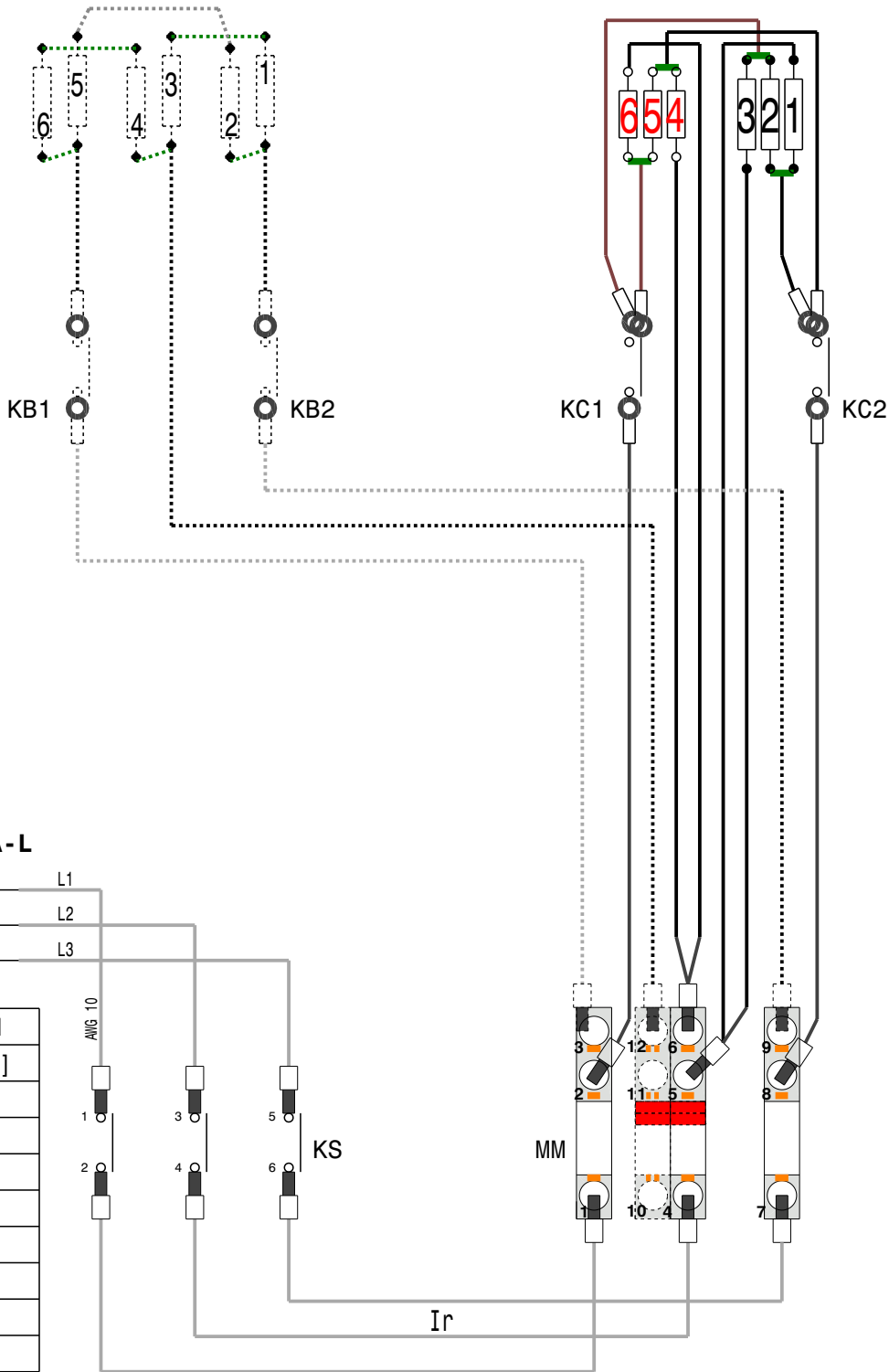
ELECTRICAL POWER WIRING

"ELECTRIC"

BOILER



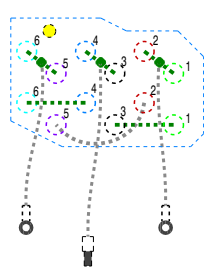
CAVITY



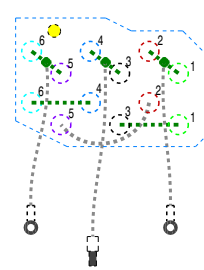
6 2/1  
380-480V

| Rated Voltage [V] | Supply Voltage [V] | CONVECTION | STEAM  |
|-------------------|--------------------|------------|--------|
|                   |                    | Ir [A]     | Ir [A] |
| 380-415           | 380                | 27.4       | 24.7   |
|                   | 400                | 28.9       | 26.0   |
|                   | 415                | 30.0       | 27.0   |
| 415-440           | 415                | 25.9       | 23.3   |
|                   | 430                | 26.9       | 24.2   |
|                   | 440                | 27.5       | 24.7   |
| 460-480           | 460                | 23.1       | 20.7   |
|                   | 480                | 24.1       | 21.7   |

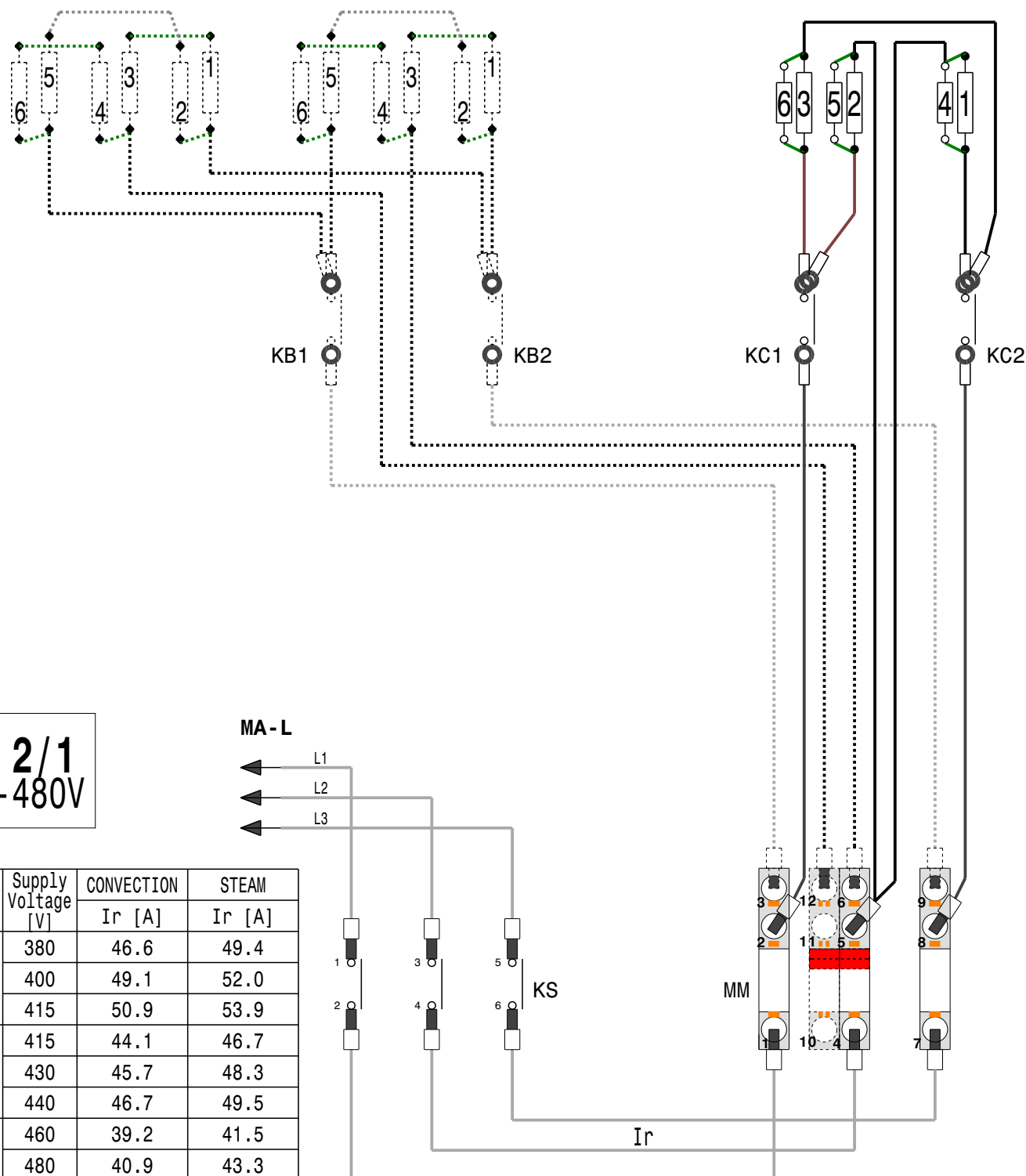
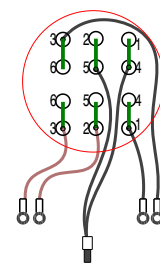
BOILER DOWN



BOILER UP



CAVITY



10 2/1  
380-480V

| Rated Voltage [V] | Supply Voltage [V] | CONVECTION | STEAM  |
|-------------------|--------------------|------------|--------|
|                   |                    | Ir [A]     | Ir [A] |
| 380-415           | 380                | 46.6       | 49.4   |
|                   | 400                | 49.1       | 52.0   |
|                   | 415                | 50.9       | 53.9   |
| 415-440           | 415                | 44.1       | 46.7   |
|                   | 430                | 45.7       | 48.3   |
|                   | 440                | 46.7       | 49.5   |
| 460-480           | 460                | 39.2       | 41.5   |
|                   | 480                | 40.9       | 43.3   |