EXPOBAR

Part No.: 1764327_05

DIAMANT Pro

TECHNICAL MANUAL

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MANUAL REVISIONS

Rev. #	Date	TSB#	Description
01	May 17, 2018	None	First draft released.
02	June 11, 2018	None	Update to remove duplicate data sourced from UM.
03	Oct. 31, 2018	None	Updates based on input from Crem Tech. Service Dept.
04	Nov. 23, 2018	None	Change text to match market material for SmartSteam and SmartTea.
05	Nov. 30, 2018	None	Update electrical diagrams.
06			
07			
08			
09			
10			

Explanation of descriptions

There are five different levels of notification intensity within this manual, as identified by the signal terms: DANGER, WARNING, IMPORTANT, NOTE and PRO TIP. The level of risk and importance of the notification is determined by the following definitions. Always observe the warnings to ensure safety and prevent potential injury and product damage.

Important:

Alerts against unsafe practices. Observe *Important* notifications to ensure food safety, prevent possible minor personal injury, or damage to the machine.

WARNING:

Indicates a potentially hazardous situation which, if the *WARNING* is ignored, could result in serious injury or even death.

DANGER:

INDICATES AN IMMINENTLY HAZARDOUS SITUATION WHICH, IF NOT AVOIDED, WILL LIKELY RESULT IN SERIOUS INJURY AND EVEN DEATH.

Note:

Gives additional information which may be helpful during the operation, routine maintenance, and cleaning of the machine.

Pro Tip:

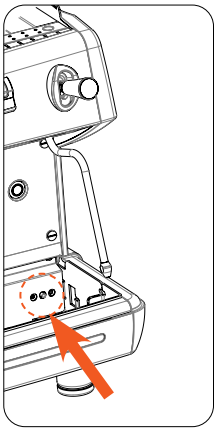
Gives helpful hints and suggestions from the manufacturer that take the guesswork out of choosing settings and care intervals.

RESETTING THE HIGH LIMIT SAFETY SWITCH

Important:

All versions of DIAMANT Pro are equipped with redundant overheat protection (via software in a water filing time-out feature and a mechanical EGO circuit interrupter high limit safety switch). The first line software protection can be reset by simply restarting the machine at the main power switch. However, if the mechanical high limit safety switch ever trips, it must be reset manually by pressing the reset button.

All versions



Remove the cup grill and drip tray. Press the overheating safety switch reset button to reset the device. Reassemble the machine in reverse order then power the machine on to test heating functions.

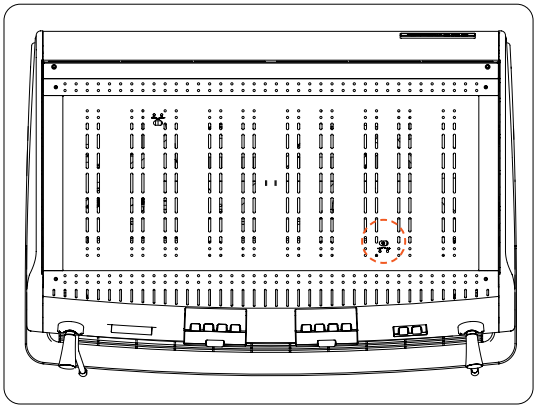
Pro Tip:

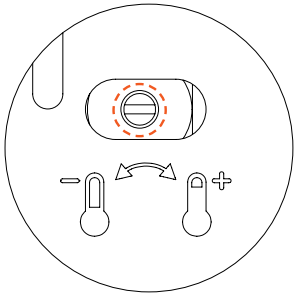
The simplest way to diagnose a tripped high limit safety switch is to turn the machine on at the main power switch and check for a functional displays and/or touchscreen, but with lower than expected water heating temperatures accompanied by a unilluminated heating lamp. This indicates that power to the boiler's heating element is being interrupted by the safety switch.

SMARTTEA TEMPERATURE ADJUSTMENT

All versions

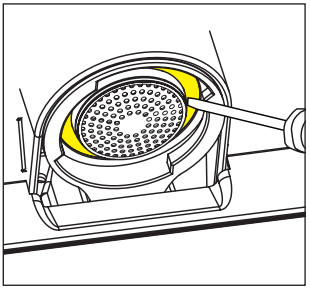
The output temperature of the smart-tea dispenser is adjusted through the screw of the cold water bypass, placed on the top panel of the machine, as shown below:



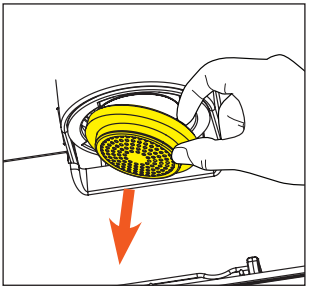


CHANGING THE GROUP GASKET

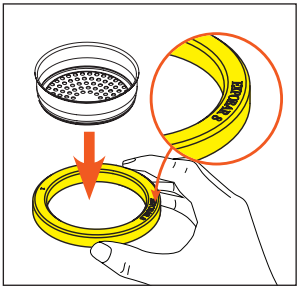
All versions



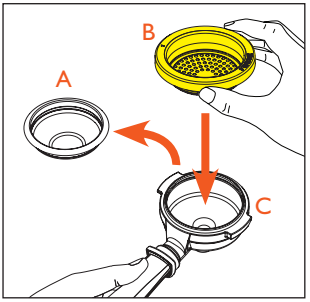
1. To remove the porta-filter, use a straight-blade screwdriver to release the shower by prying down with medium force.



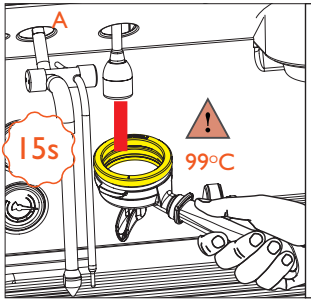
2. Remove the shower and gasket.

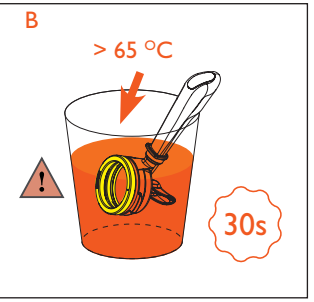


3. Remove and discard the old gasket. Insert the new gasket (chamfer and EXPOBAR logo facing up) into the shower.



4. Remove the filter basket(A), then place the new gasket and shower(B) into the porta-filter(C).





5. Preheat the gasket to soften the rubber. A - heat the gasket for 15 seconds using the water from the hot water outlet, or B - place the gasket, shower, and porta-filter in hot water for 30 seconds.

WARNING:

The water from the water tap is very hot! Handle with care to prevent scalding or burns.

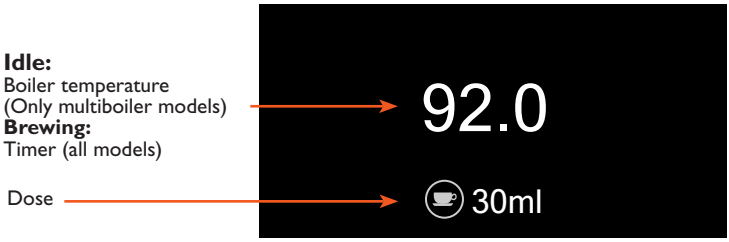
Service intervals

Main components	Part No.	Months (Cycles)			
		6 (12500)	12 (25000)	18 (37500)	24 (50000)
Boiler					
Non suction valve	65000210		Replace		Replace
Base Plate Electrovalve	60000105				Replace
Thermics Sup. Adaptor 1/2 X 1/2	30000200		Check		Replace
Thermics Inf. Adaptor-1/2X1/2X1/4	30000210		Check		Replace
3/8 Safety Valve	65000100		Check		Check
Brewing group					
Electrovalve 220V	60000112				Replace
Shower	75000010	Replace	Replace	Replace	Replace
8mm group head gasket	75000081	Replace	Replace	Replace	Replace
Taps					
Steam tap body	15000338		Clean	Replace	
Water tap electrovalves	60000124 + 60000125				Replace
SmartSteam electrov.	60000120				Replace
Motor-pump					
Pump head	60000030				Replace
Retention Valve	65000010				Replace
Pump Bypass	30400055				Replace

Important:
Always conduct the 6 month service intervals without delay to ensure excellent performance of the machine and to ensure full warranty coverage.

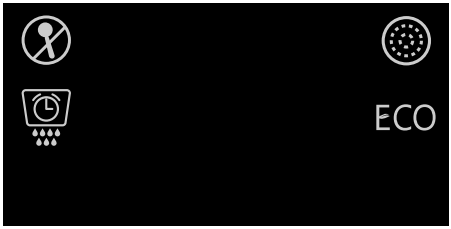
OLED displays

Diamant Pro features an OLED display on each group for monitoring machine status.



Icons of the OLED display

Icons and alarms of the OLED display



Group overused

Cleaning overdue

Grinder set too coarse

Grinder set too fine

ECO Eco mode activated

Entering Barista menu

To access the Barista menu, follow the steps below:

1. From the normal screen press top right icon (B) area for 3s.
2. Here you will see all the settings available for barista. Some of these are disabled by default and have to be enabled from the User / Technician settings.

Note:

You will find the barista menu programming instructions on the User Manual.

Entering technical menus (user, technician & factory)

To access the service programming menus, follow the steps below:

1. From the normal screen press top left icon ( ) area for 3s.
2. In the off screen press top right area ( ).
3. Here you can select if you want to go to the user settings, technician settings or factory (depends of the setting you want to change or access):
   - If you pressed "User settings", enter password "333" to access User settings
   - If you pressed "Technician settings", enter password "666" to access Technician settings
   - If you pressed "Factory settings", enter password "999" to access Factory settings.
4. In the different menus, press to go next setting and press to go previous setting

Restore factory settings

In order to restore default settings, follow the steps below.

1. Turn the machine off.
2. Turn on machine, wait 1s until it says "ReV 1.XX" in the OLED display and press K1, K3, K5 until the OLED shows "PRES". Then stop pressing K1,K3, K5 until it says in the Touch display "Preset… Done!".
3. After the main display shows "Preset… Done!" you can turn off machine and restart it normally. Settings are back to default.

Pro Tip:

Only technicians should do the reset. The machine might not be properly set up after a reset

Check heating groups, and steam boiler temperature)

OLED display preset

TFT display preset

The following parameters are set as default within the Technician Settings menu:

Machine version	Steam boiler temp.	N° heating groups	SmartSteam	E-Cup heater menu
Diamant Pro 2Gr Single Boiler	118°C	OFF	Enabled/Disabled (Optional)	Enabled/Disabled (Optional)
Diamant Pro 2Gr Multiboiler	120°C	2	Enabled/Disabled (Optional)	Enabled/Disabled (Optional)
Diamant Pro 3Gr Single Boiler	118°C	OFF	Enabled/Disabled (Optional)	Enabled/Disabled (Optional)
Diamant Pro 3Gr Multiboiler	120°C	2	Enabled/Disabled (Optional)	Enabled/Disabled (Optional)

Display language selection

To change the machine's operating language follow the steps below:

1. From the normal screen press top left icon ( ) area for 3s.
2. In the off screen press top right area ( ) and enter "User settings" (password : 333)
3. In the option "Select language", press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.
4. If you want to go to main screen again press ✗.

Programming the (Name) publicity message

To change the machine's display's welcome/publicity message follow the steps below:

1. Enter the 'User setting' menu.
2. When 'Machine name' is shown on the display, press ▲ to go next character and ▼ to go previous character, with the ▶ icon you forward one letter. Setting will be saved when pressed the icon ✓ and text is white.
3. If you want to go to main screen again press ✗.

Set keypad mode (traditional or barista)

To change the keypad mode follow the steps below:

1. Enter the 'User setting' menu.
2. When 'Select keypad mode' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.

   - Traditional: Gives user the ability to brew pressing from K1 to K5.

   - Barista: Gives user the ability first to select the dose then brew. Also having ability to flush the group pressing twice.
3. If you want to go to main screen again press ✗.

Display chrono settings

To change the brewing chrono settings follow the steps below:

1. Enter the 'User setting' menu.
2. When 'Chrono' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.

   - Timer: Displays timer in seconds when brewing.

   - Disabled: Shows empty display when brewing.
3. If you want to go to main screen again press ✗.

Enabling/disabling dose programming

To enable or disable the option for the user to adjust the dose programming follow the steps below:

1. Enter the 'User setting' menu.
2. When 'Dose settings' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.
   - Enabled: Shows the dose settings in the barista menu.
   - Disabled: Hides the dose settings in the barista menu and also disables manual dose programming.
3. If you want to go to main screen again press ✕.

Enabling/disabling ECO mode

To enable or disable the ECO mode (for energy savings) follow the steps below:

1. Enter the 'User setting' menu.
2. When 'ECO mode' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.
   - Enabled: Activates ECO mode.
   - Disabled: Deactivates ECO mode and the icon is hidden in the barista menu.
3. If you want to go to main screen again press ✕.

Adjusting the steam boiler ECO mode temperature settings

To change the machine's steam boiler ECO mode temperature settings follow the steps below:

1. Enter the 'User setting' menu.
2. When 'Boiler ECO temp' is shown on the display, press ▲ to increase temperature and ▼ to decrease temperature. Setting will be saved when pressed the icon ✓ and text is white.
3. If you want to go to main screen again press ✕.

Adjusting the group boilers ECO mode temperature settings

To change the machine's group boilers ECO mode temperature settings follow the steps below:

1. Enter the 'User setting' menu.
2. When 'Group ECO temp' is shown on the display, press ▲ to increase temperature and ▼ to decrease temperature. Setting will be saved when pressed the icon ✓ and text is white.
3. If you want to go to main screen again press ✕.

Enabling/disabling grinding warning alerts

To enable or disable the coffee grind warning option follow the steps below:

1. Enter the 'User setting' menu.
2. When 'Grinder alert' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.
   - Enabled: Shows the grinding alerts if 'too fine' or 'too coarse' triggers are achieved.
   - Disabled: Don't show grinding alerts.
3. If you want to go to main screen again press ✕.

Adjusting triggers for grinding alerts

With the 'Grinder alert' enable, adjust the triggers for grinding alerts follow the steps below:

1. Enter the 'User setting' menu.
2. When 'Grinder too fine alert' is shown on the display, press ▲ to increase value (in ml/s) and ▼ to decrease value (in ml/s). Setting will be saved when pressed the icon ✓ and text is white.
3. Repeat for 'Grind too coarse alert'.
4. If you want to go to main screen again press ✕.

Change Barista menu password

To change the password to access to the barista menu follow the steps below:

1. Enter the 'Barista password' menu.
2. When 'Change password' is shown on the display, press ▲ to increase value and ▼ to decrease value. Setting will be saved when pressed the icon ✓ and text is white.
3. Repeat for each entry.
4. If you want to go to main screen again press ✕.

Change user settings password

To change the password to access the user settings programming menu follow the steps below:

1. Enter the 'User setting' menu.
2. When 'Change password' is shown on the display, press ▲ to go next character and ▼ to go previous character, with the ▶ icon you forward one letter. Setting will be saved when pressed the icon ✓ and text is white.
3. If restored, the password will be reset to 333 as default.
4. If you want to go to main screen again press ✕.

Enabling/disabling Barista lights

To enable or disable the lights below the groups, follow the steps below:

1. Enter the 'User setting' menu.
2. When 'Barista lights' is shown on the display, press and to select the preferred setting. Setting will be saved when pressed the icon and text is white.
3. If you want to go to main screen again press .

Change Service phone nr.

To change the technical service phone number, follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'Service phone number' is shown on the display, press ▲ and ▼ to adjust each input then use the ▶ icon to go to the next input. Setting will be saved when pressed the icon ✓ and text is white.
3. If you want to go to main screen again press ✗.

Adjusting the steam boiler level sensor sensitivity

To change the machine's steam boiler water level sensor probe sensitivity follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'Boiler probe sensitivity' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.
3. If you want to go to main screen again press ✗.

Adjusting the display temperature units (°C or °F)

To adjust the temperature units shown on all displays follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'Temp units' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.
3. If you want to go to main screen again press ✗. All settings will be now in the temperature unit selected.

Enabling/disabling SmartTea

To enable or disable the SmartTea option follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'SmartTea' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.

   - Enabled (As default): Activates the water valve and then the motor-pump after a delay of 0.5s.

   - Disabled: Activates only the water valve.
3. If you want to go to main screen again press ✗.

Adjusting the steam boiler level sensor sensitivity

To change the machine's steam boiler water level sensor probe sensitivity follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'Boiler probe sensitivity' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.
3. If you want to go to main screen again press ✗.

Adjusting the display temperature units (°C or °F)

To adjust the temperature units shown on all displays follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'Temp units' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.
3. If you want to go to main screen again press ✗. All settings will be now in the temperature unit selected.

Enabling/disabling SmartTea

To enable or disable the SmartTea option follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'SmartTea' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.
   - Enabled (As default): Activates the water valve and then the motor-pump after a delay of 0.5s.
   - Disabled: Activates only the water valve.
3. If you want to go to main screen again press ✗.

Adjusting the number of heating groups

To adjust the number of groups that must be temperature controlled follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'Nr heating groups' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.
   - OFF: Used in single boiler machines.
   - 2: Used in 2Gr - 3 Boilers machines.
   - 3: Used in 3Gr - 4 Boilers machines.
3. If you want to go to main screen again press ✗.

Adjusting the boiler heating priority

To change the boiler heating priority follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'Heating priority' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.

   - Steam (As default): Steam boiler will be at temperature set before the group boilers start heating.

   - Coffee: Coffee boilers will be at temperature set before the steam boiler starts heating.

   - Toggle Steam / Coffee: Machine will heat up each heating element 2s (2 seconds steam boiler, 2 seconds group boilers).
3. If you want to go to main screen again press ✗.

Adjusting the dispensing offset temperature differential

To change the machine's dispensing temperature differential (the difference in temperature between the group boiler and group brewing head) for all groups follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'Group temp offset' is shown on the display, press ▲ to increase value and ▼ to decrease value. Setting will be saved when pressed the icon ✓ and text is white.
3. If you want to go to main screen again press ✗.

Enabling/disabling SmartSteam

To enable or disable the SmartSteam option follow the steps below:

1. Enter the 'User setting' menu.
2. When 'SmartSteam' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.

   - Enabled: Enable all functionality related with the SmartSteam.

   - Disabled: Disable all functionality related with the SmartSteam and hides icon from barista menu.
3. If you want to go to main screen again press ✗.

Enabling/disabling E-cup heater

To enable or disable the E-cup heater option follow the steps below:

1. Enter the 'User setting' menu.
2. When 'E-cup heater menu' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.

   - Enabled: Enable all functionality related with the E-cup heater menu.

   - Disabled: Disable all functionality related with the E-cup heater menu and hides icon from barista menu.
3. If you want to go to main screen again press ✗.

Enabling/disabling group cleaning warning

To enable or disable the group cleaning warning option follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'Cleaning warning' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.

   - Enabled (As default): Activates the group cleaning warning, which will be triggered after 'x'hours from the last group cleaning.

   - Disabled: Disables this alarm.
3. If you want to go to main screen again press ✗.

Enabling/disabling group over-use warning

To enable or disable the group over-use warning option follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'Group over-use warning' is shown on the display, press ▲ to go next option and ▼ to go previous option. Setting will be saved when pressed the icon ✓ and text is white.

   - Enabled (As default): Activates the group over-use warning, which will be triggered based in the triggers 'Group over-use trigger' and 'Group over-use minimum' from the Barista menu.

   - Disabled: Disables this alarm.
3. If you want to go to main screen again press ✗.

Adjusting the water softener/filter regeneration alert setting

To adjust the number of litres required to activate the water filter/softener change or regeneration alert follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'Water filter' is shown on the display, press ▲ to increase value and ▼ to decrease value. Setting will be saved when pressed the icon ✓ and text is white.
3. If you want to go to main screen again press ✗.

Adjusting the service cycle counter setting

To adjust the number of cycles required to activate the service alert follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'Service cycle' is shown on the display, press ▲ to increase value and ▼ to decrease value. Setting will be saved when pressed the icon ✓ and text is white.
3. If you want to go to main screen again press ✗.

FMU

To enable or disable the group cleaning warning option follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'FMU' is shown on the display, is shown on the display, press ▲ and ▼ to select the preferred setting. Setting will be saved when pressed the icon ✓ and text is white.
3. If you want to go to main screen again press ✗.

Change technician settings password

To change the password to access the technician settings programming menu follow the steps below:

1. Enter the 'Technician setting' menu.
2. When 'Change password' is shown on the display, press ▲ to go next character and ▼ to go previous character, with the ▶ icon you forward one letter. Setting will be saved when pressed the icon ✓ and text is white.
3. If restored, the password will be reset to 666 as default.
4. If you want to go to main screen again press ✗.

Adjusting the steam boiler KP, KI and KD settings

If it is ever necessary to adjust the steam boiler heating algorithm follow the steps below:

1. Enter the 'Factory setting' menu.
2. When 'Steam boiler PID setting' is shown on the display, press ▲ to increase temperature and ▼ to decrease temperature. Setting will be saved when pressed the icon ✓ and text is white.
3. If you want to go to main screen again press ✕.
4. Repeat for 'Steam boiler KP setting', 'Steam boiler KI setting' and 'Steam boiler KD setting'.

Pro Tip:
These settings shouldn't be changed by the user nor the technician as they are already adjusted by default.

Adjusting the group boilers KP, KI and KD settings

If it is ever necessary to adjust the group boilers heating algorithm follow the steps below:

1. Enter the 'Factory setting' menu.
2. When 'Group boiler PID setting' is shown on the display, press ▲ to increase temperature and ▼ to decrease temperature. Setting will be saved when pressed the icon ✓ and text is white.
3. If you want to go to main screen again press ✕.
4. Repeat for 'Group boiler KP setting', 'Group boiler KI setting' and 'Group boiler KD setting'.

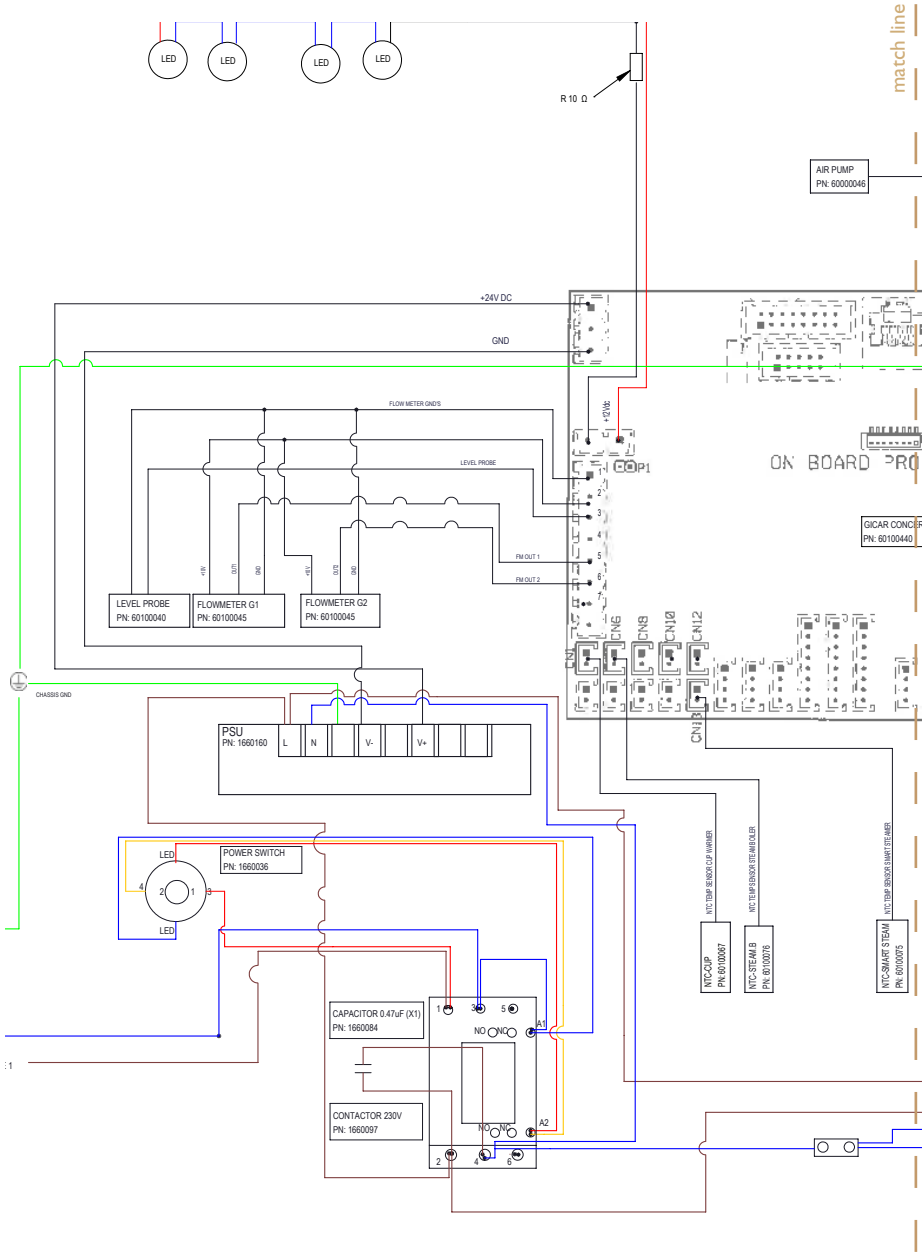
Pro Tip:
These settings shouldn't be changed by the user nor the technician as they are already adjusted by default.

Change factory settings password

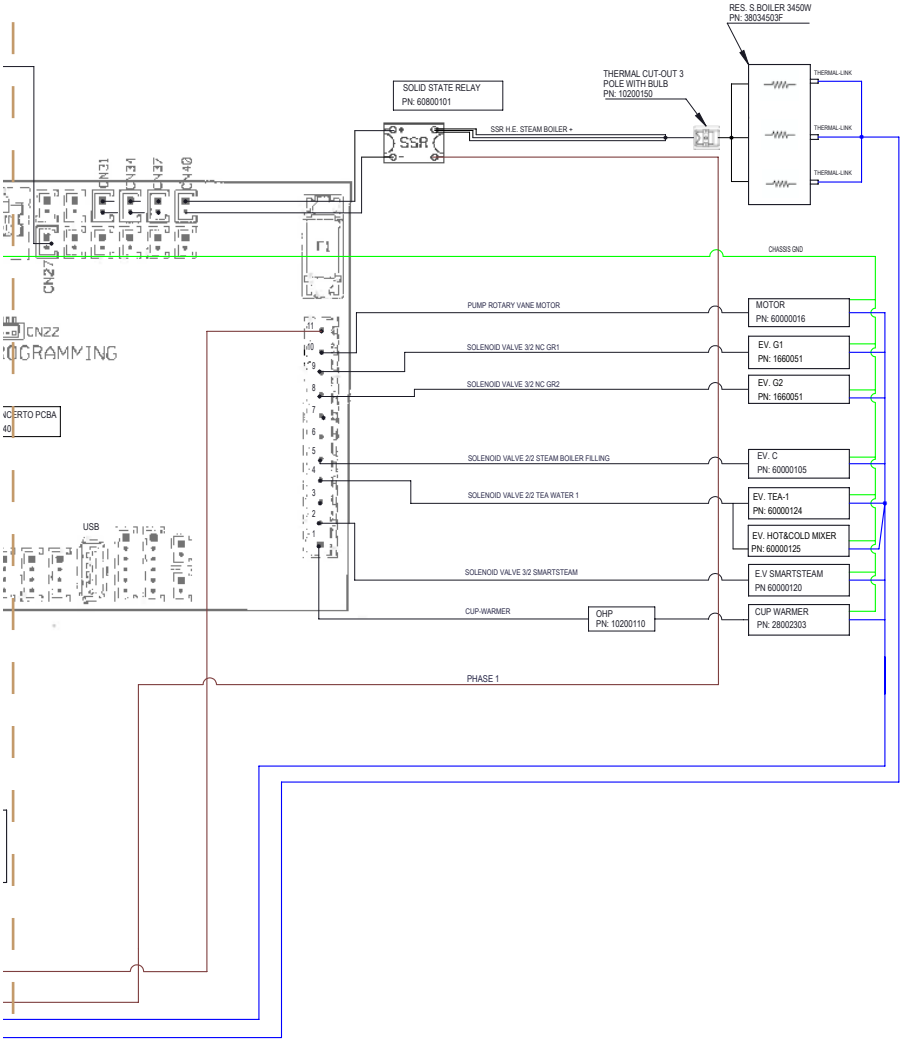
To change the password to access the factory settings programming menu follow the steps below:

1. Enter the 'Factory setting' menu.
2. When 'Change password' is shown on the display, press ▲ to go next character and ▼ to go previous character, with the ▶ icon you forward one letter. Setting will be saved when pressed the icon ✓ and text is white.
3. If restored, the password will be reset to 999 as default.
4. If you want to go to main screen again press ✕.

DIAMANT Pro 2GR 220-240V 1N~

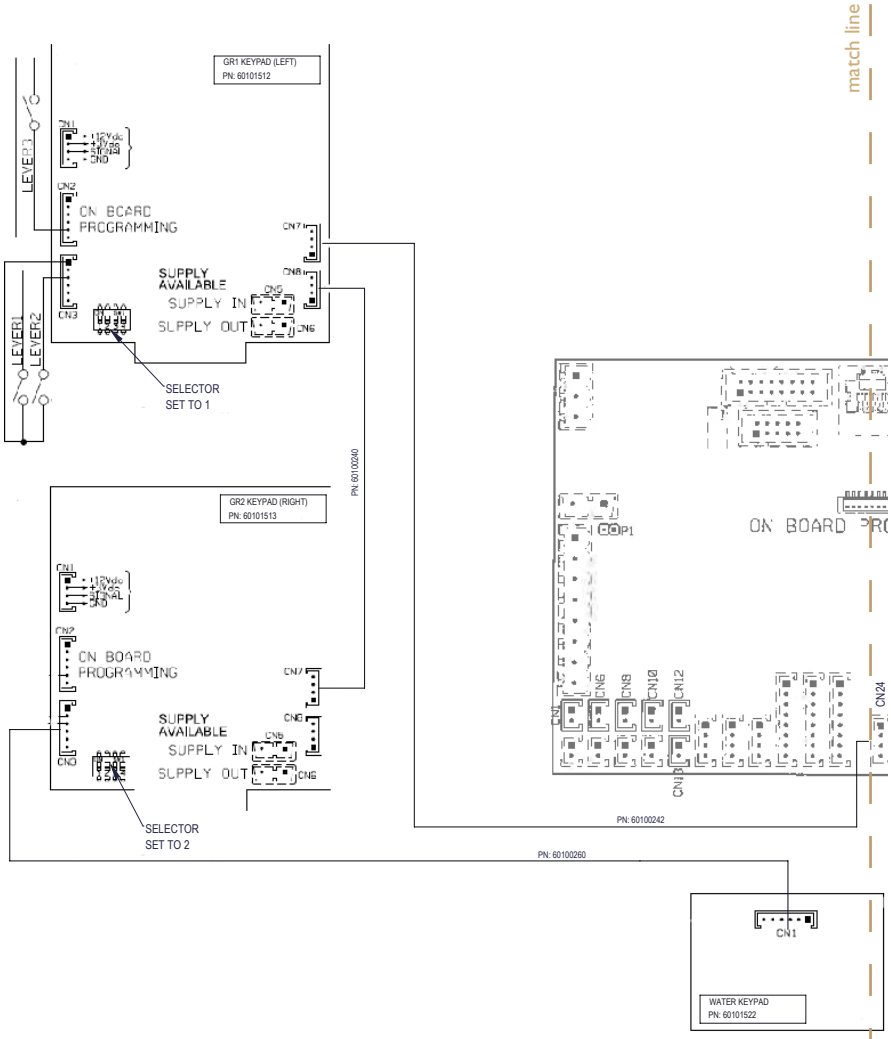


DIAMANT Pro 2GR 220-240V 1N~



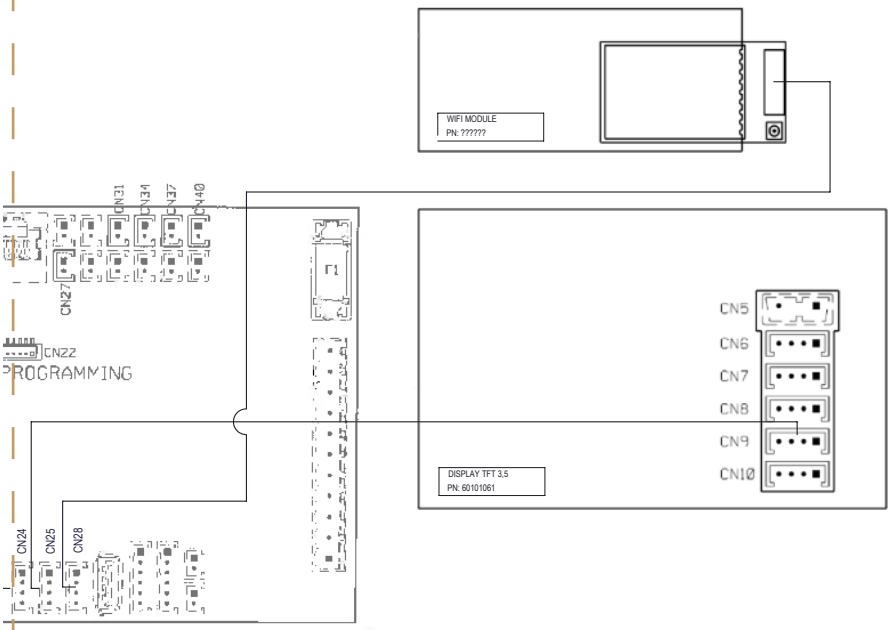
DIAMANT 2GR / 1B / 220-240 V F+N

DIAMANT Pro 2GR 220-240V 1N~



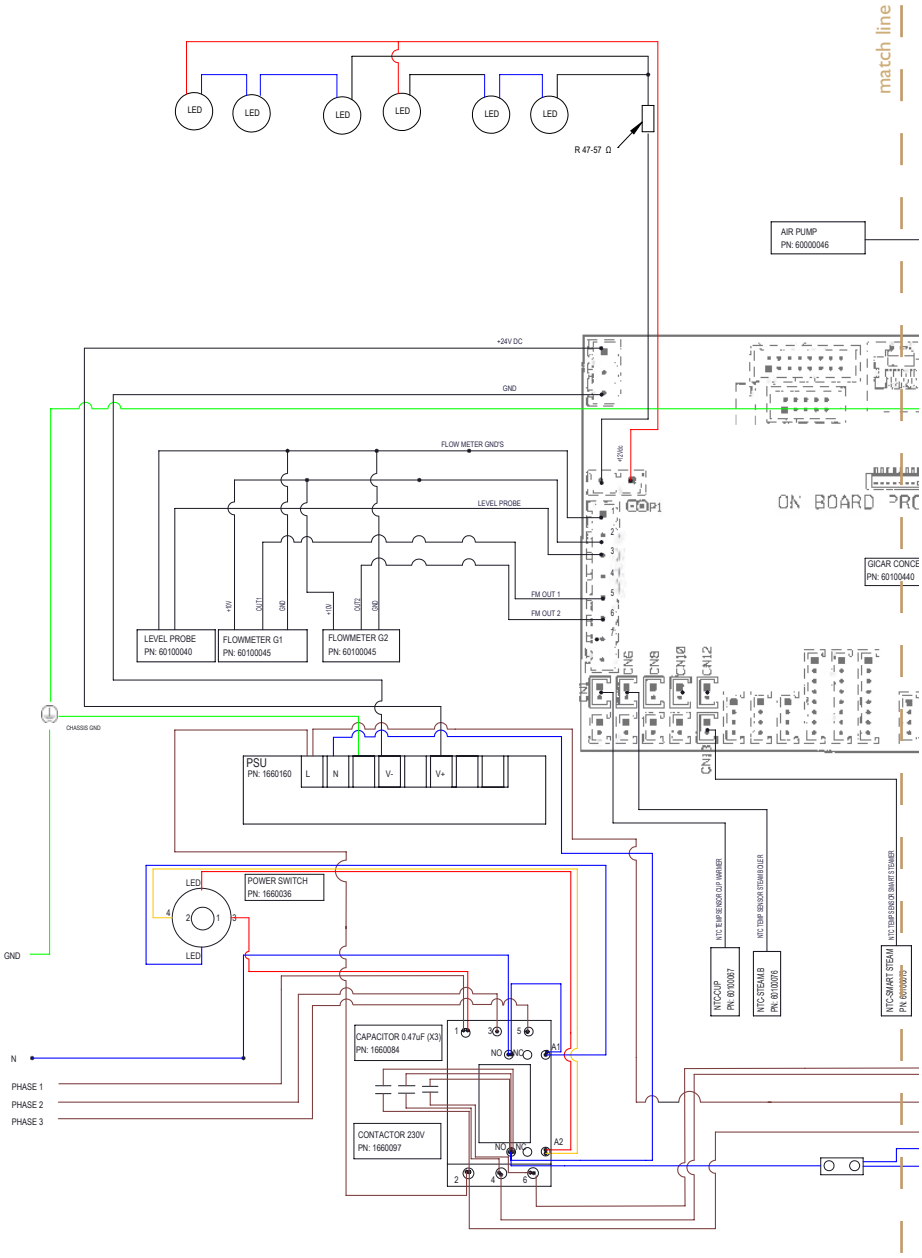
DIAMANT Pro 2GR 220-240V 1N~

match line

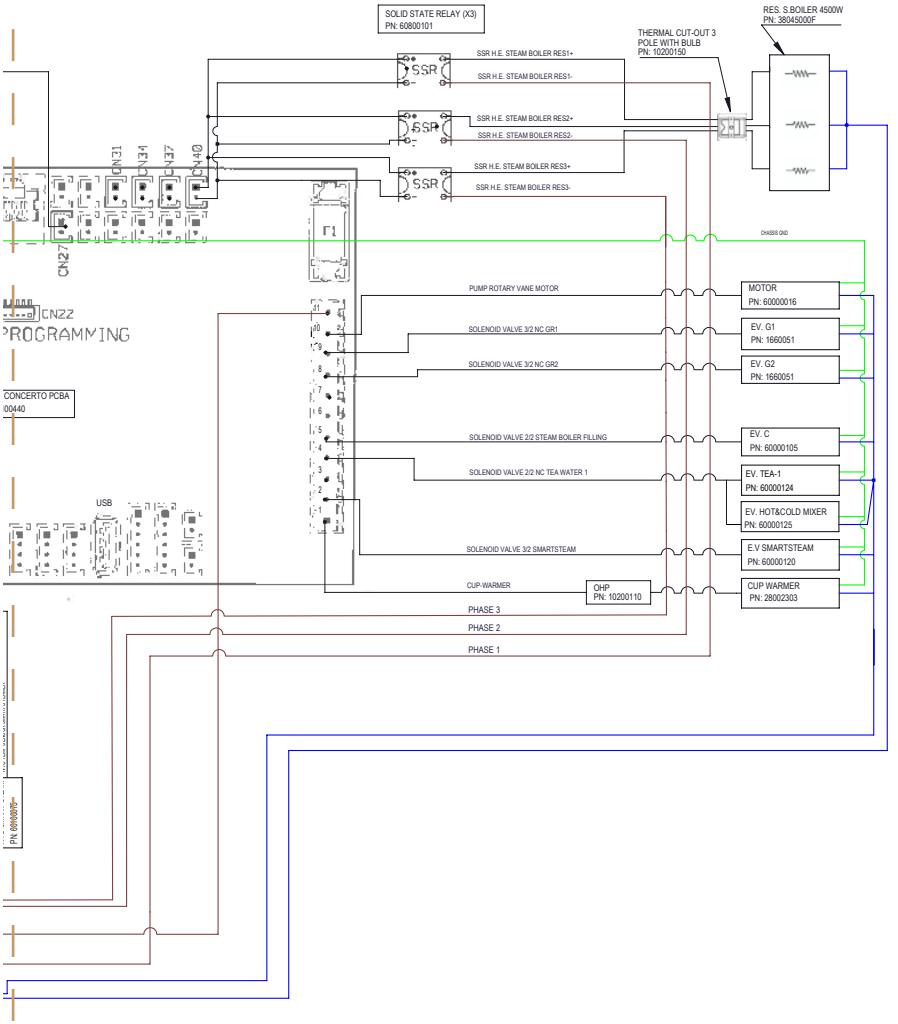


DIAMANT 2GR / 1B / 220-240 V F+N

DIAMANT Pro 2GR 380-415V 3N~

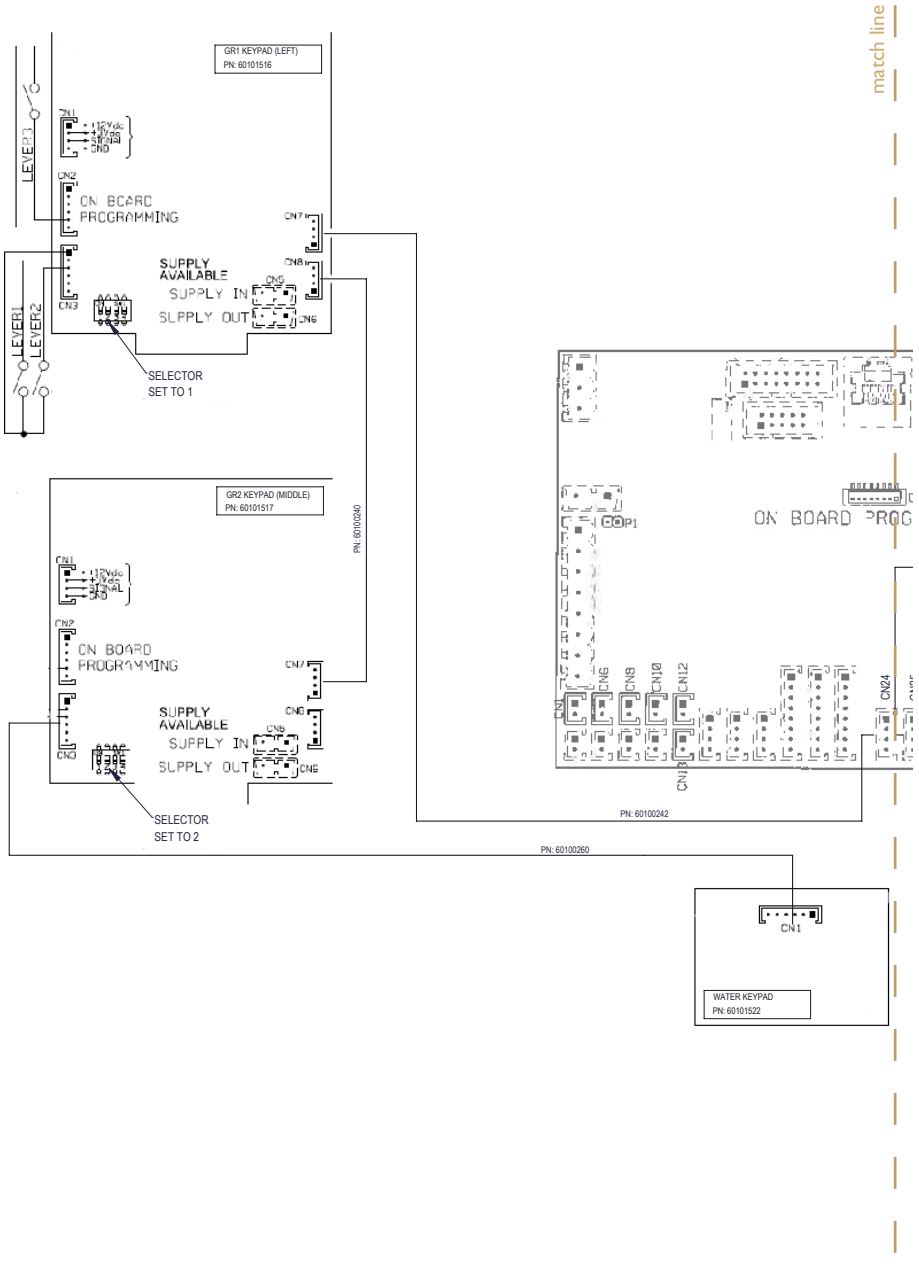


DIAMANT Pro 2GR 380-415V 3N~

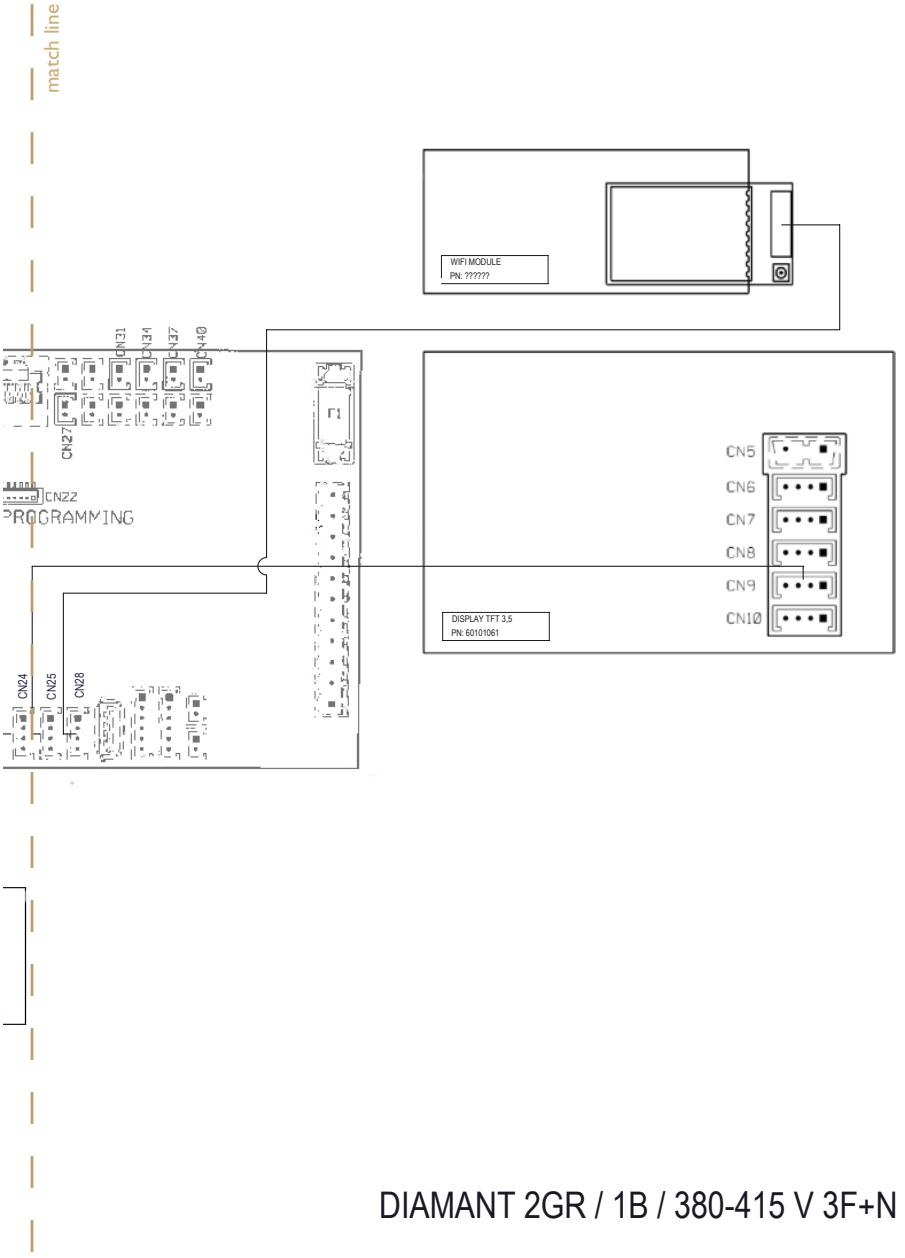


DIAMANT 2GR / 1B / 380-415 V 3F+N

DIAMANT Pro 2GR 380-415V 3N~

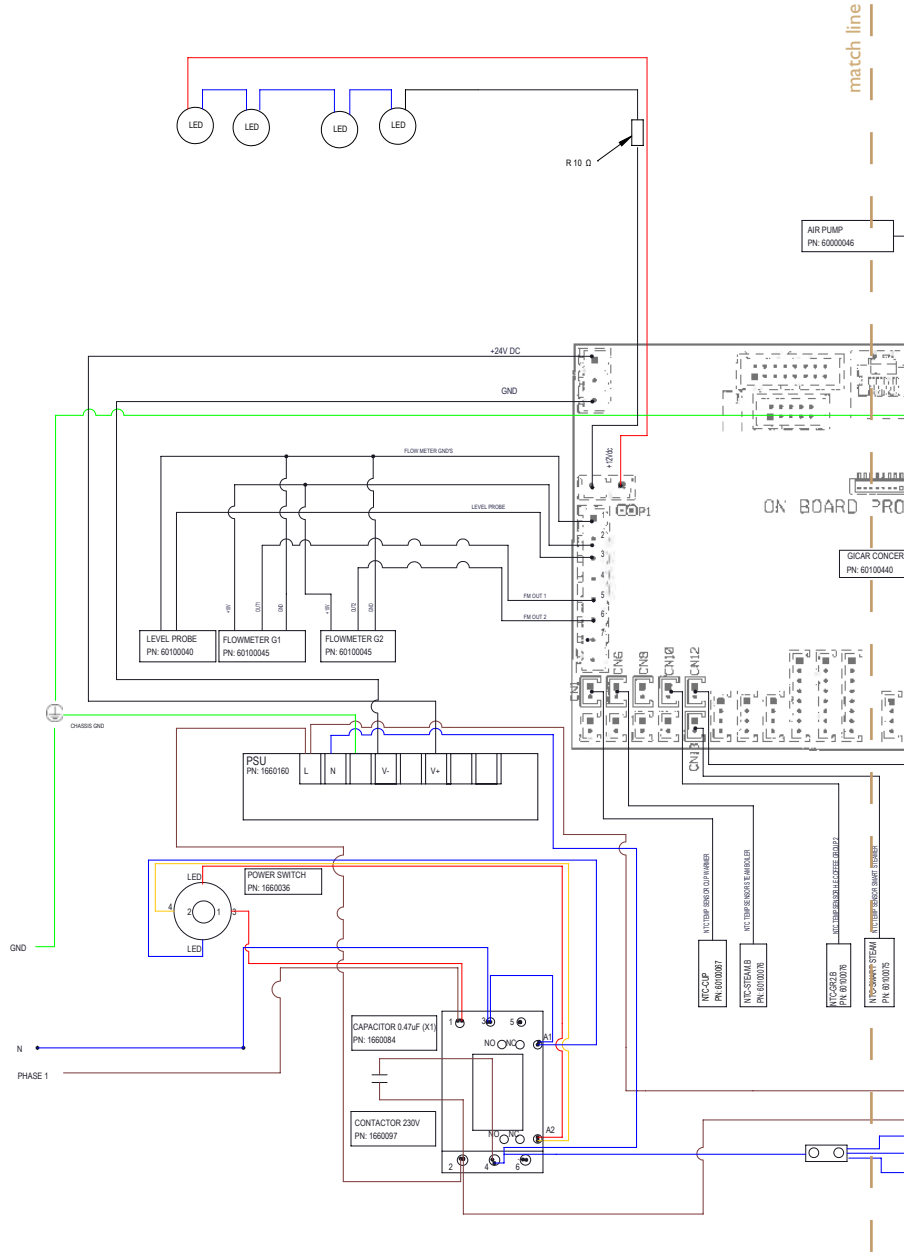


DIAMANT Pro 2GR 380-415V 3N~

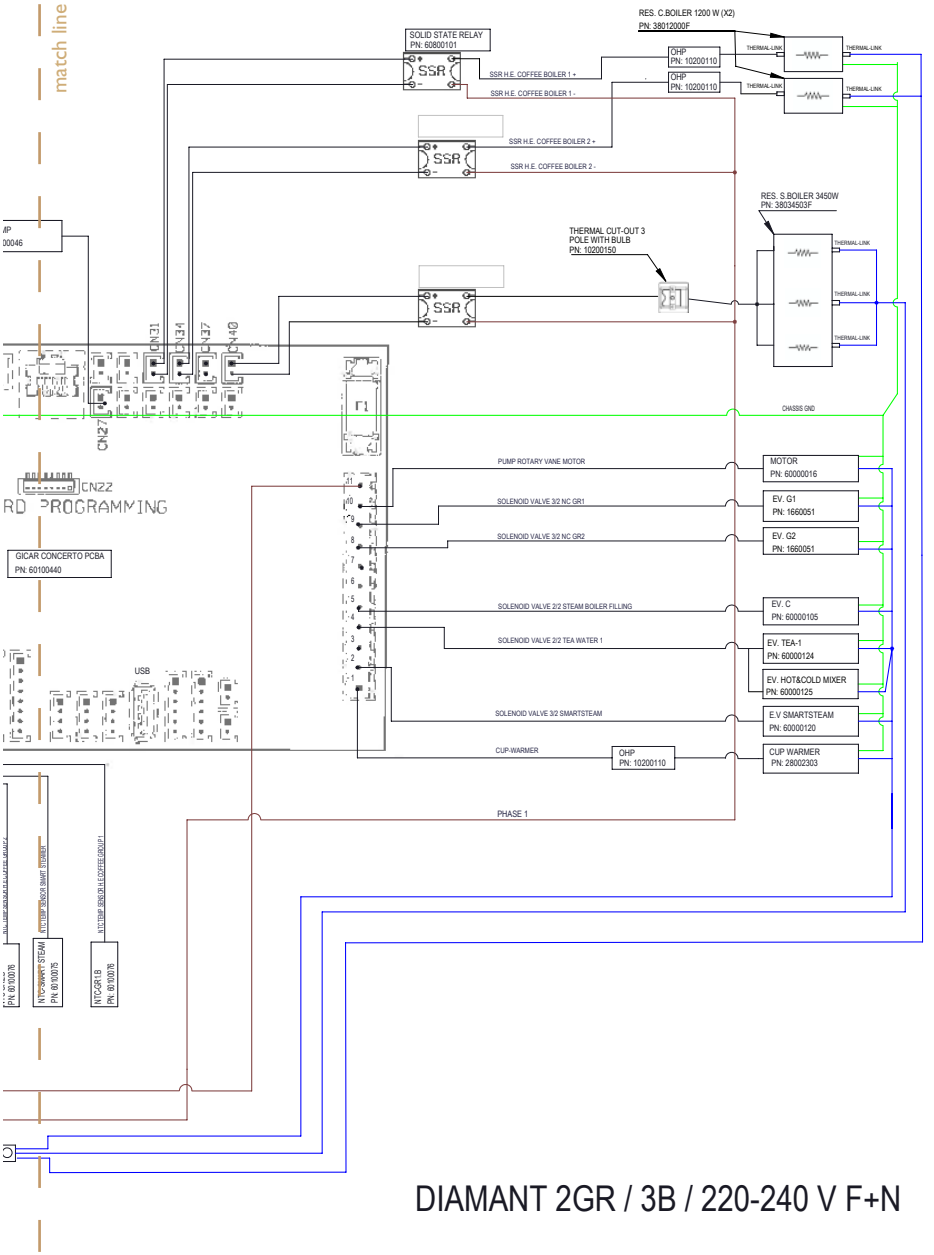


DIAMANT 2GR / 1B / 380-415 V 3F+N

DIAMANT Pro 2GR 3BOILERS 220-240V 1N~

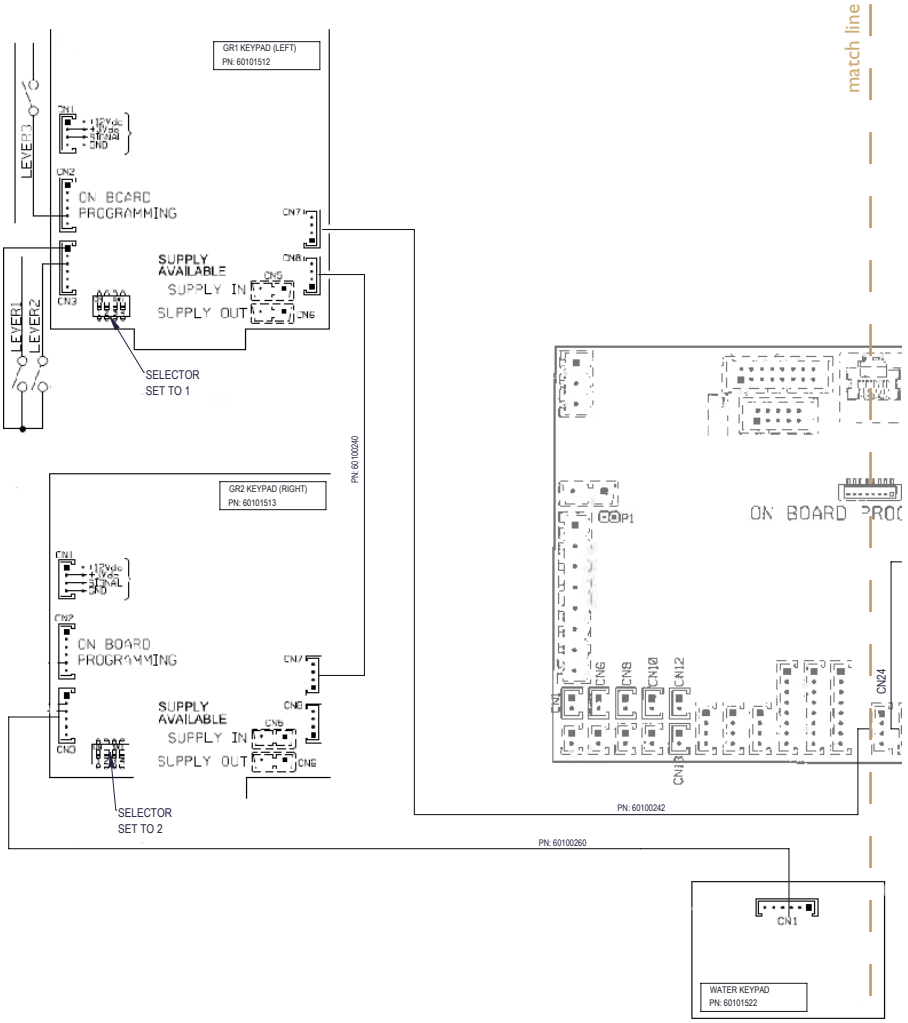


DIAMANT Pro 2GR 3BOILERS 220-240V 1N~

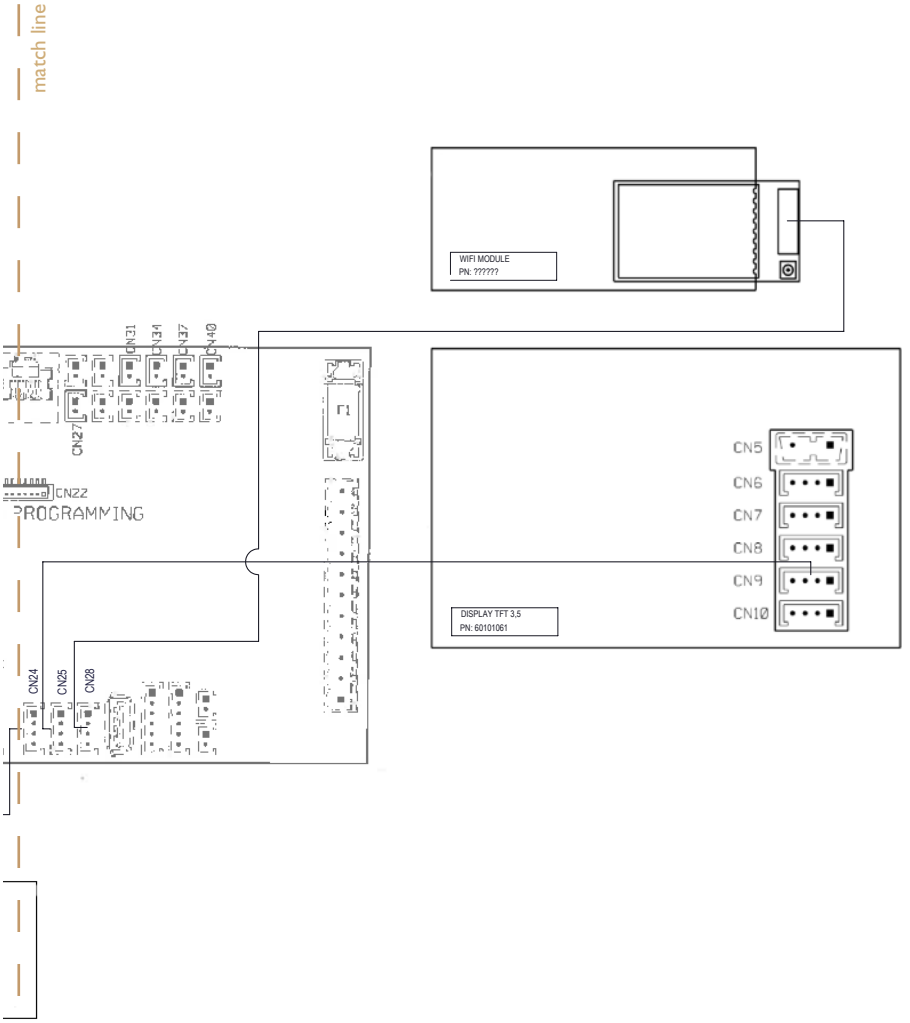


DIAMANT 2GR / 3B / 220-240 V F+N

DIAMANT Pro 2GR 3BOILERS 220-240V 1N~

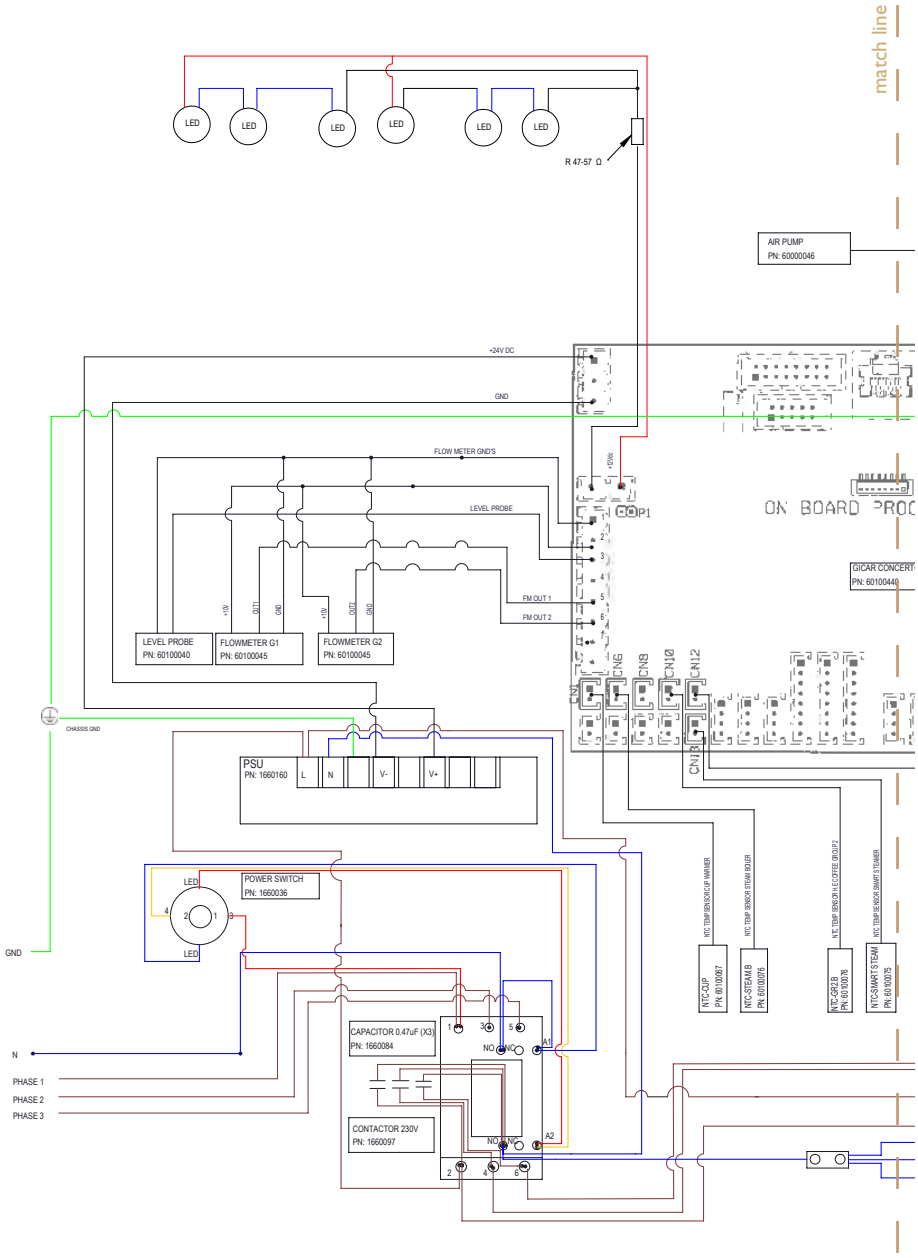


DIAMANT Pro 2GR 3BOILERS 220-240V 1N~

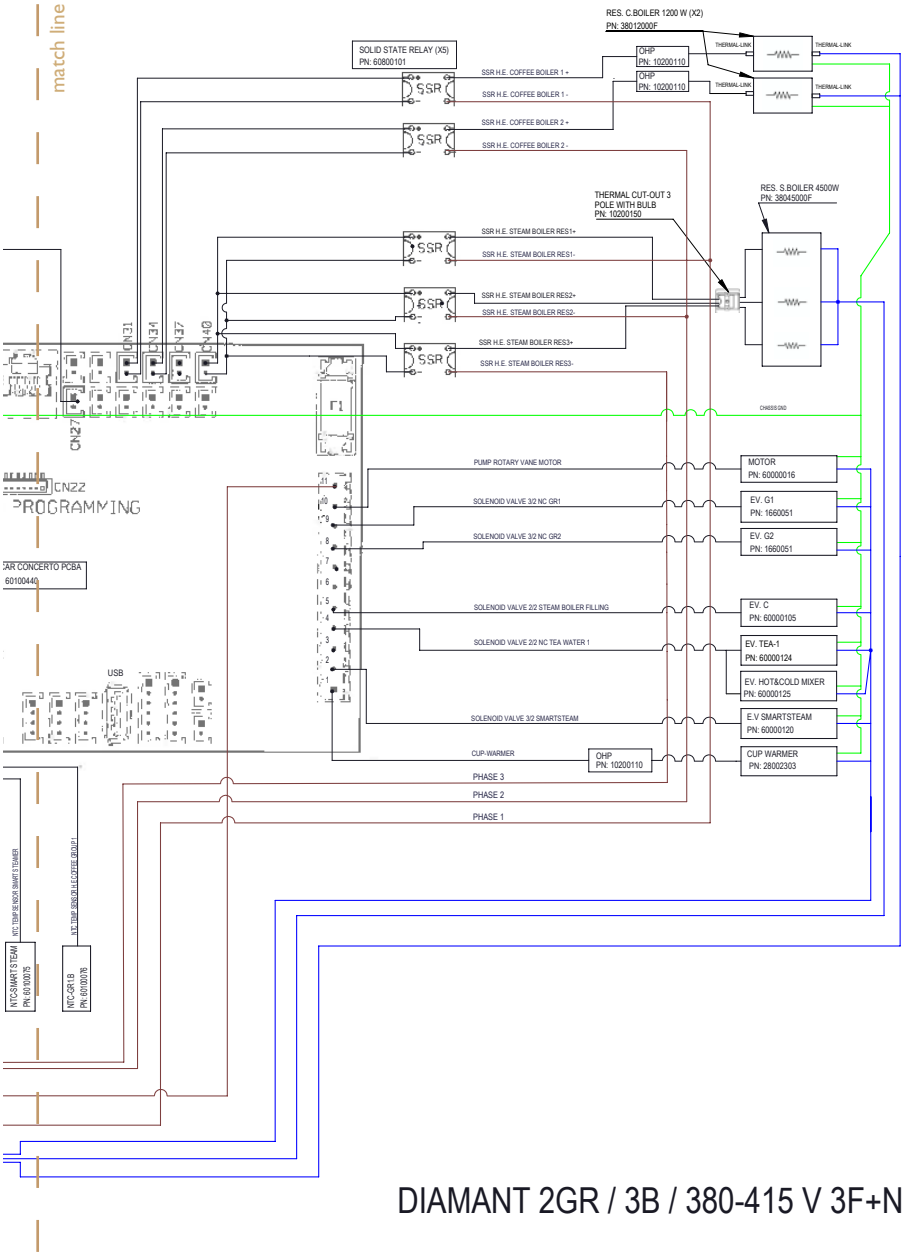


DIAMANT 2GR / 3B / 220-240 V F+N

DIAMANT Pro 2GR 3BOILERS 380-415V 3N~

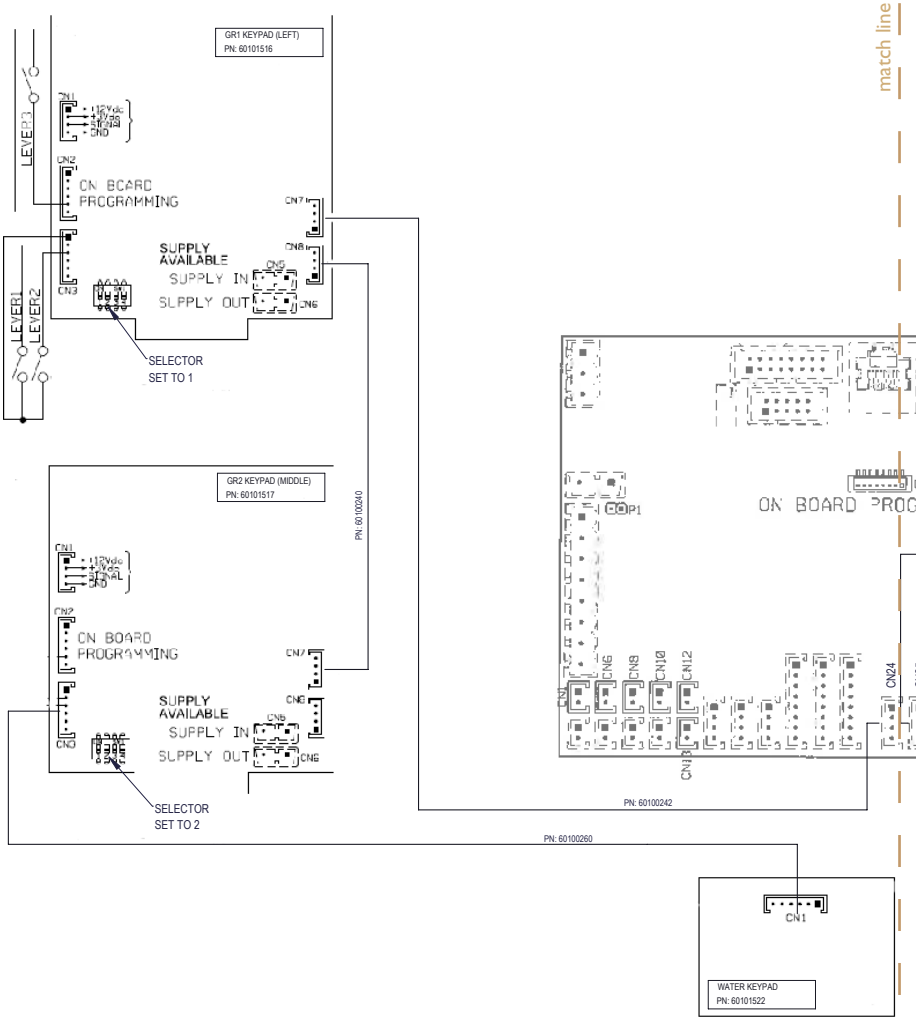


DIAMANT Pro 2GR 3BOILERS 380-415V 3N~

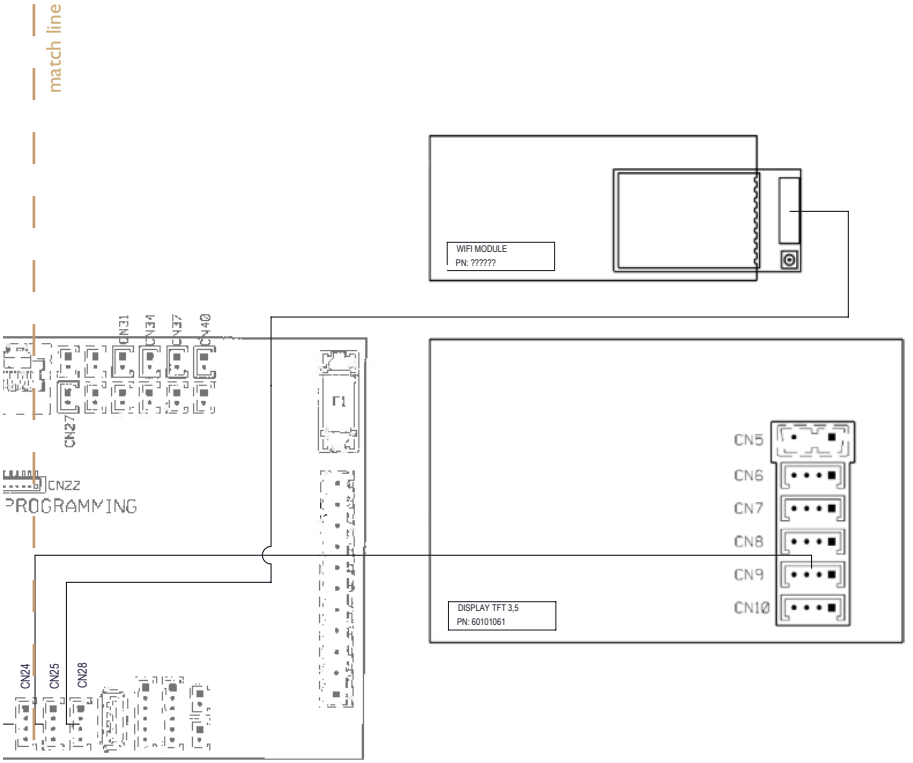


DIAMANT 2GR / 3B / 380-415 V 3F+N

DIAMANT Pro 2GR 3BOILERS 380-415V 3N~



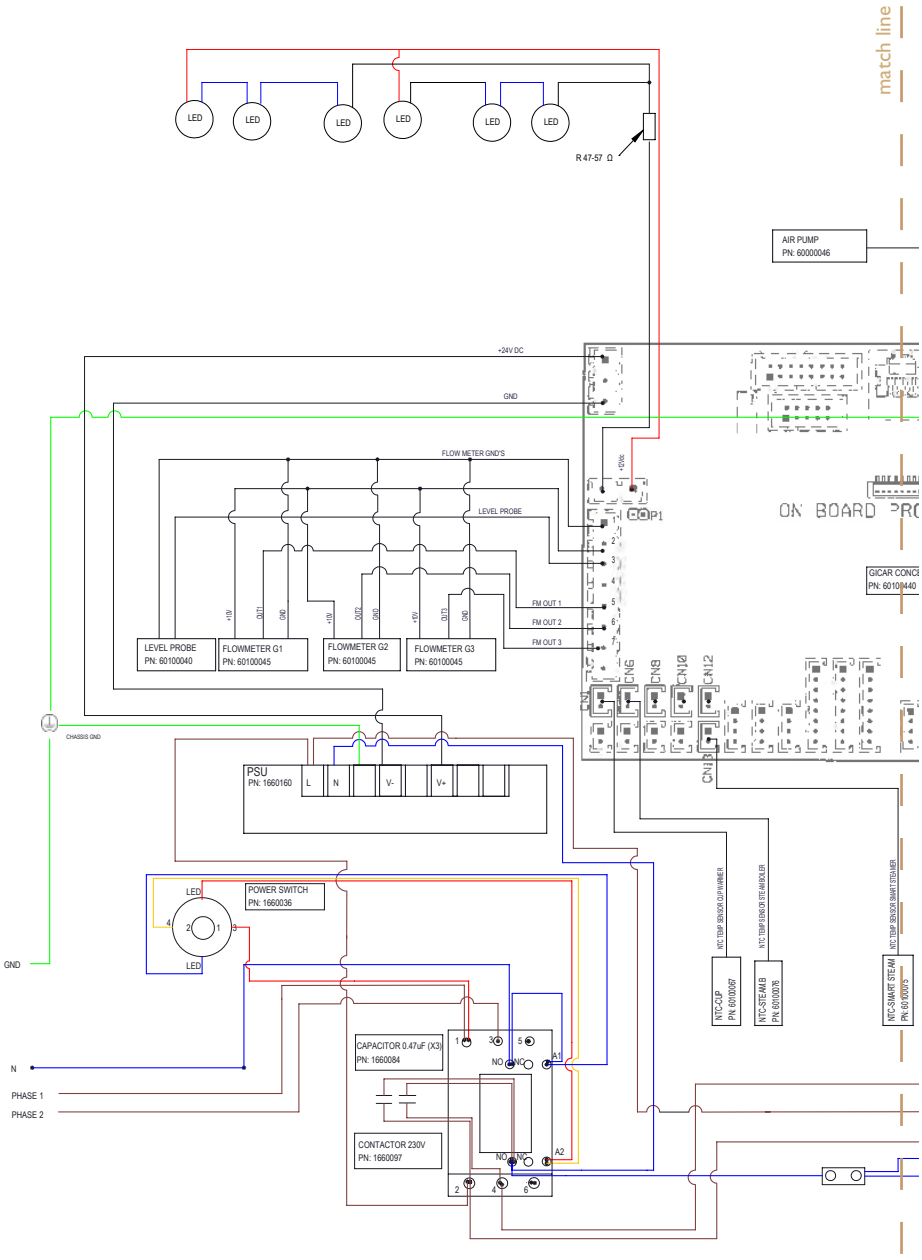
DIAMANT Pro 2GR 3BOILERS 380-415V 3N~



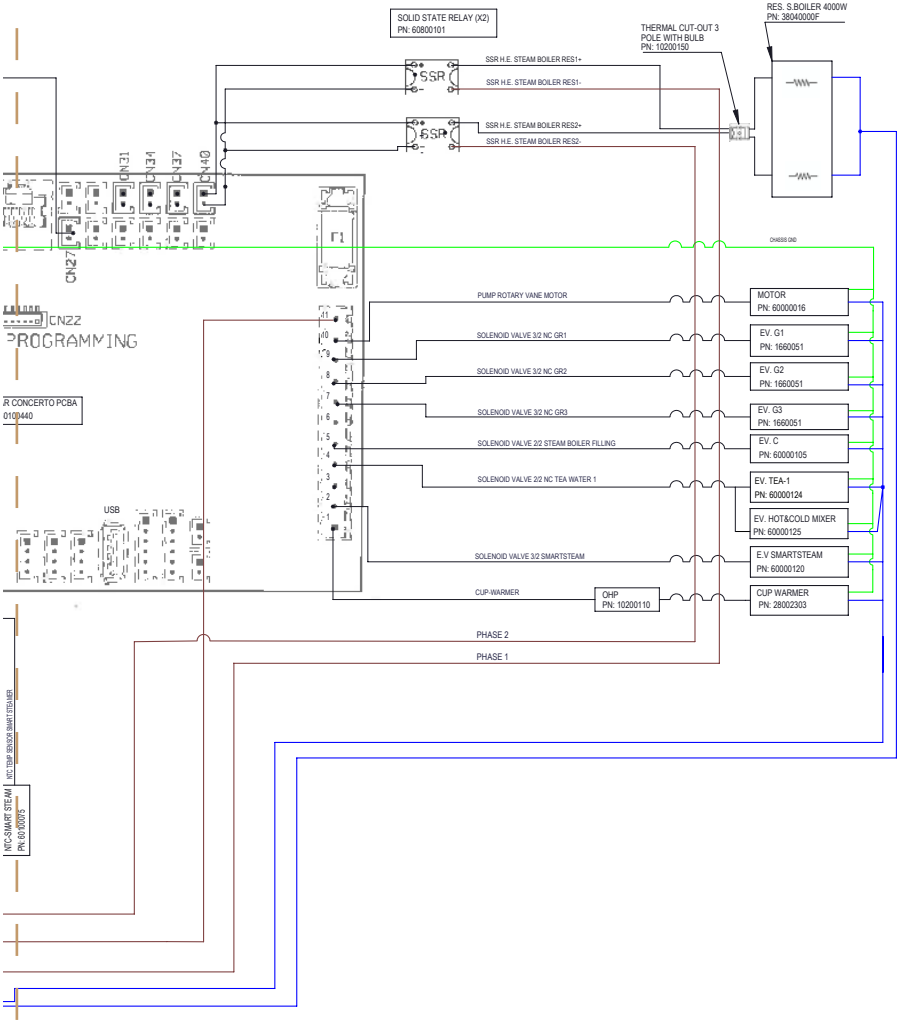
DIAMANT 2GR / 3B / 380-415 V 3F+N

ELECTRICAL DIAGRAM

DIAMANT Pro 3GR 380-415V 2N~

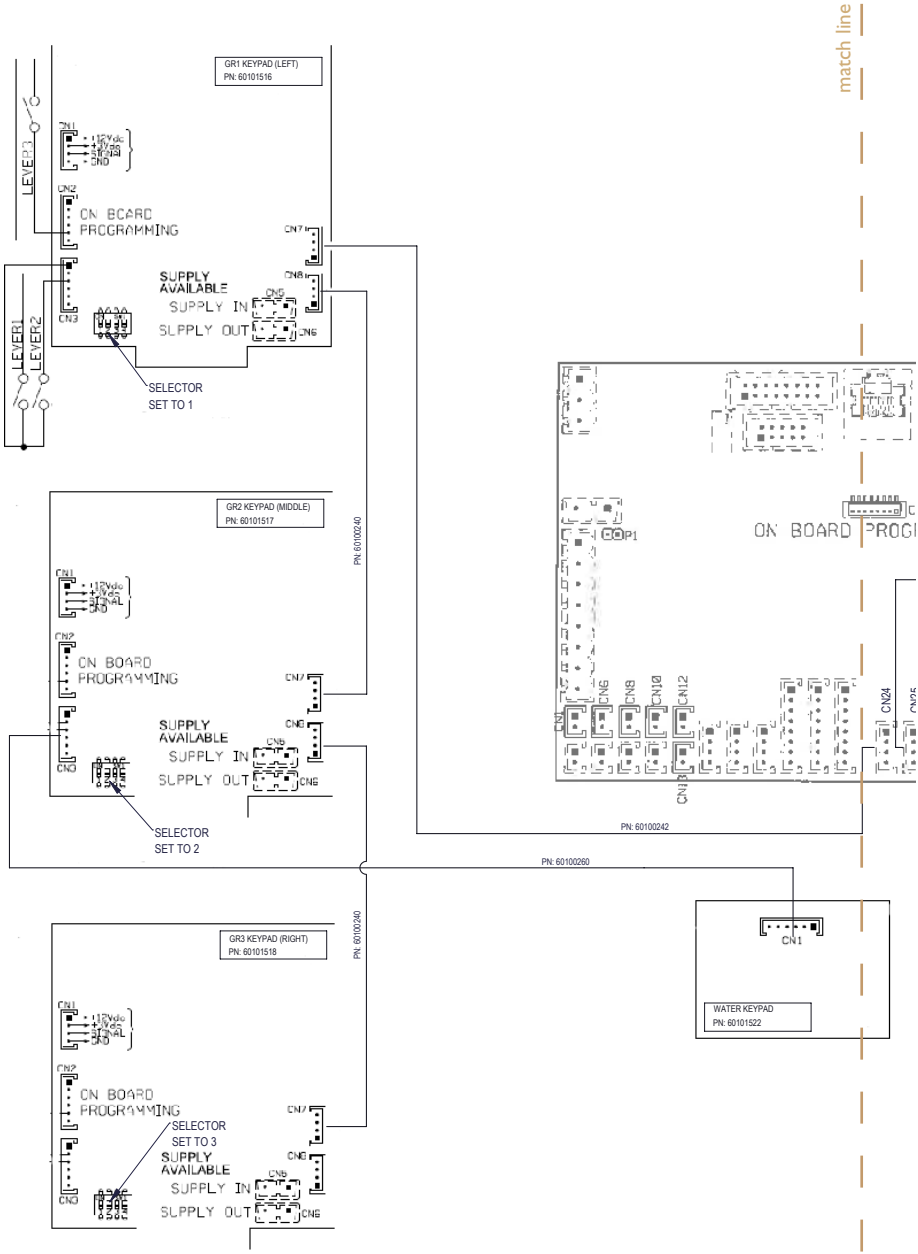


DIAMANT Pro 3GR 380-415V 2N~

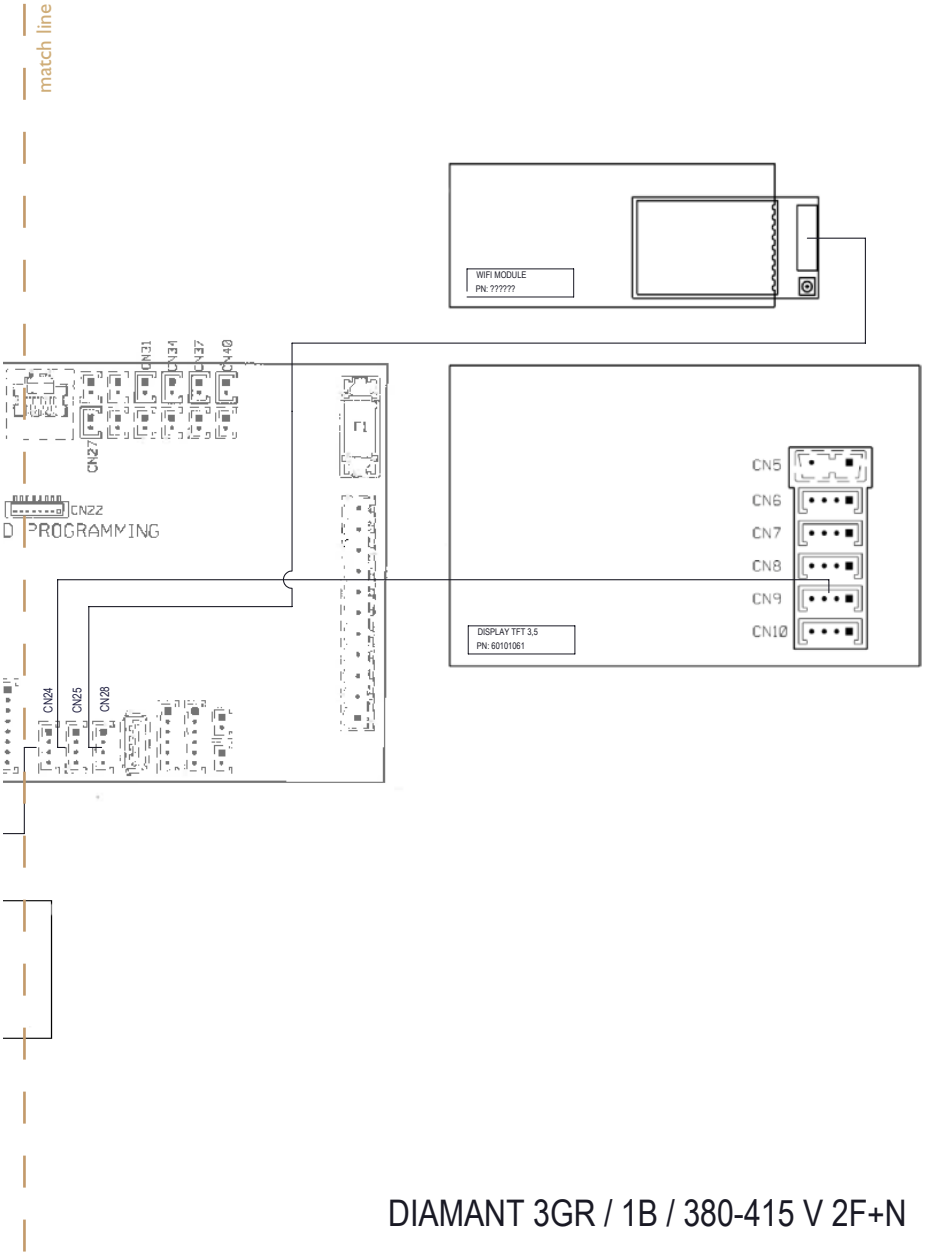


DIAMANT 3GR / 1B / 380-415 V 2F+N

DIAMANT Pro 3GR 380-415V 2N~

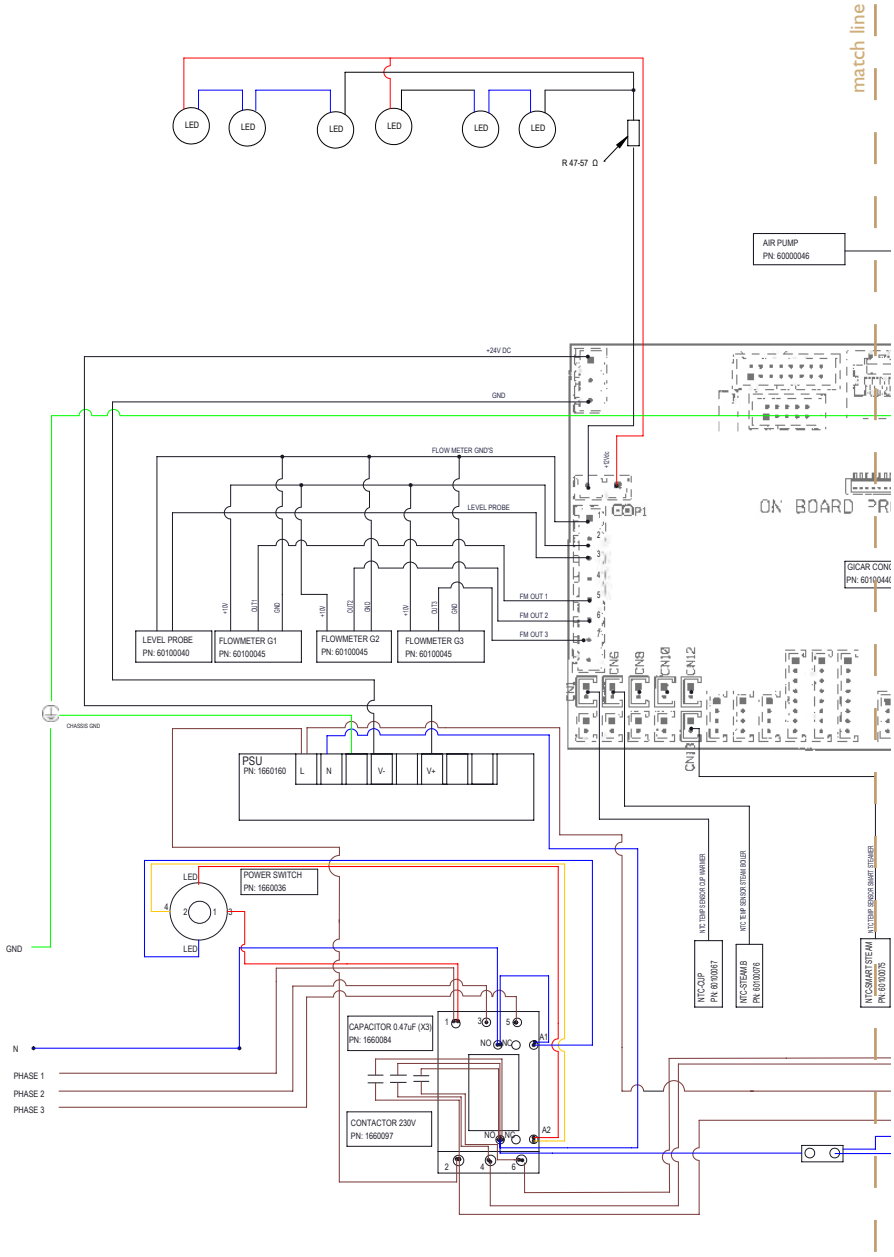


DIAMANT Pro 3GR 380-415V 2N~

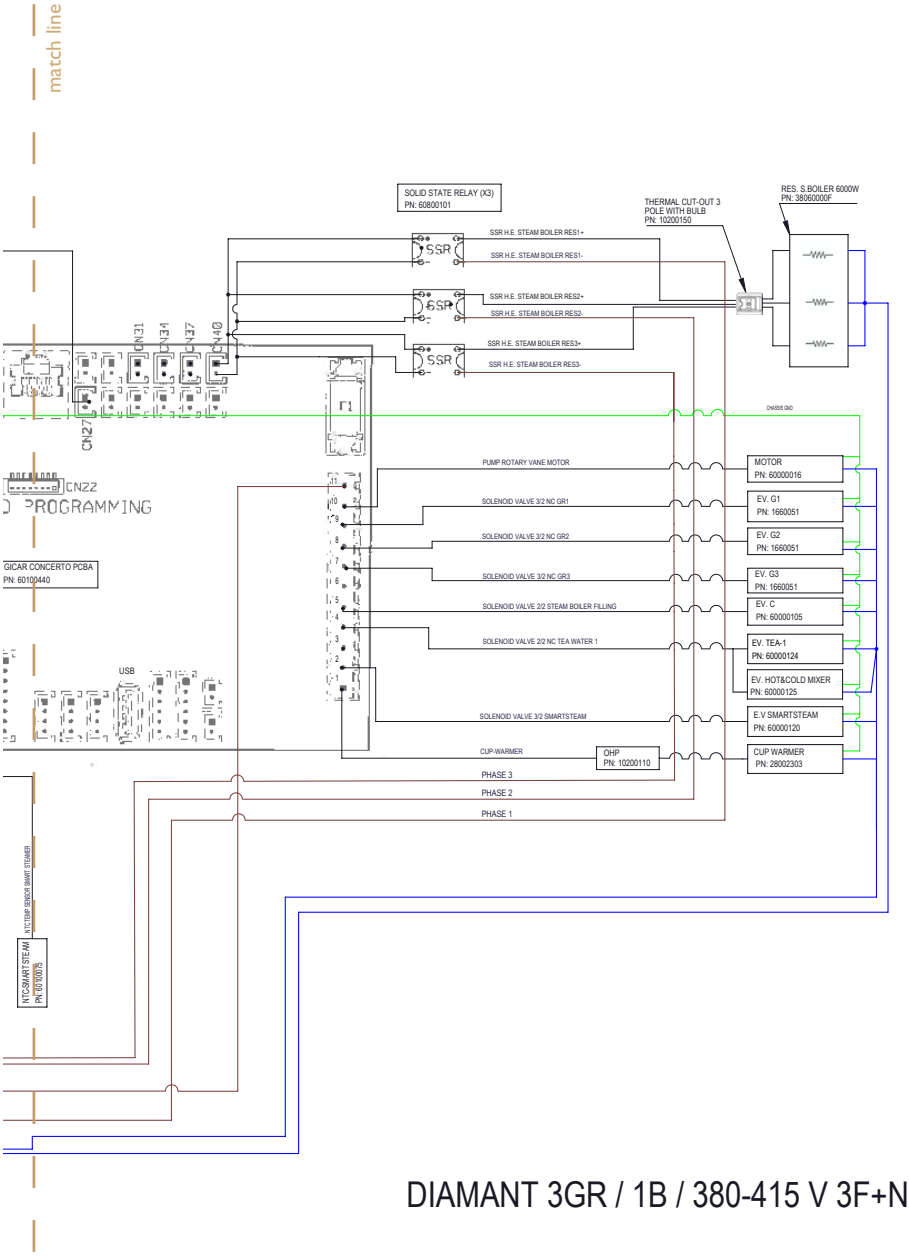


DIAMANT 3GR / 1B / 380-415 V 2F+N

DIAMANT Pro 3GR 380-415V 3N~

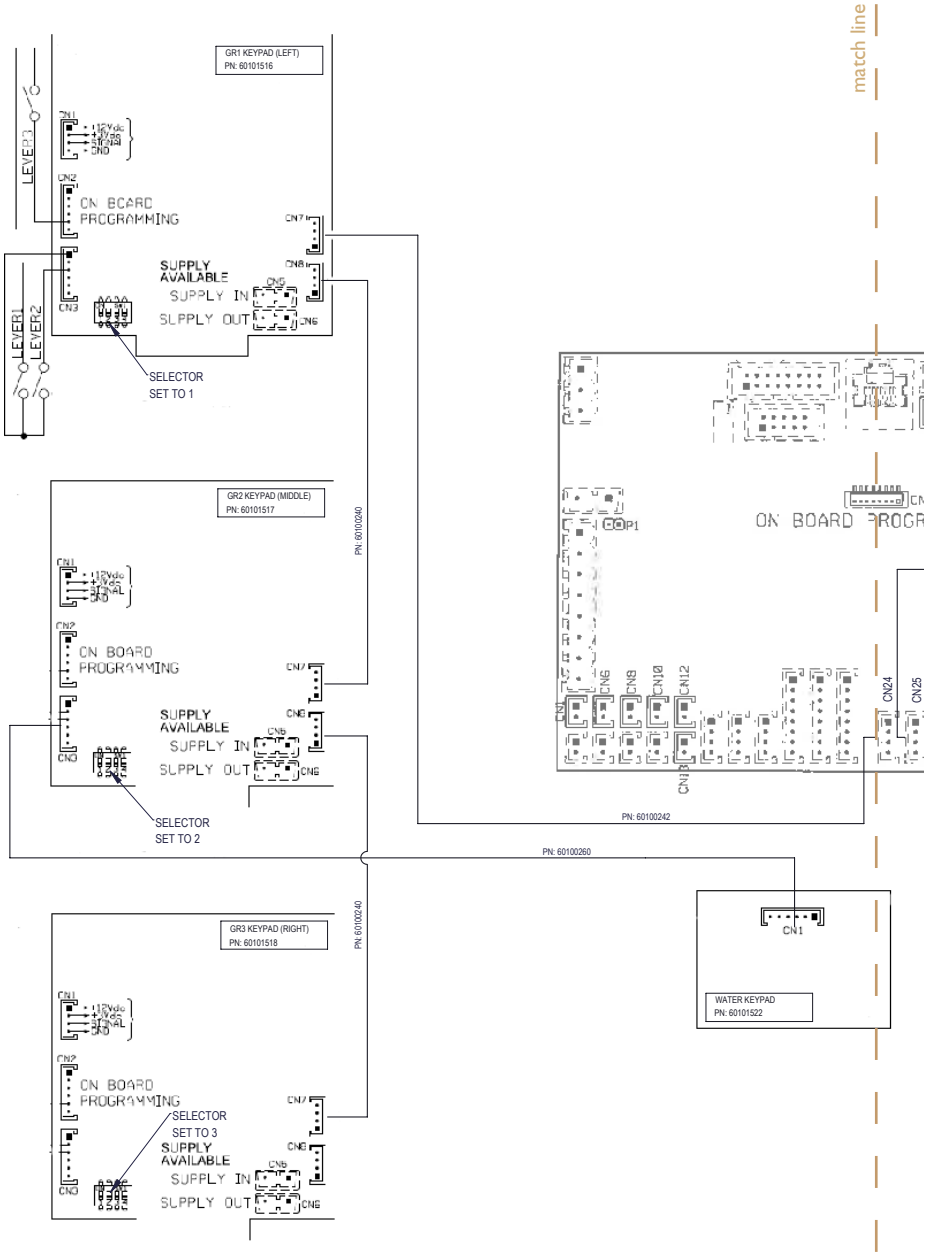


DIAMANT Pro 3GR 380-415V 3N~

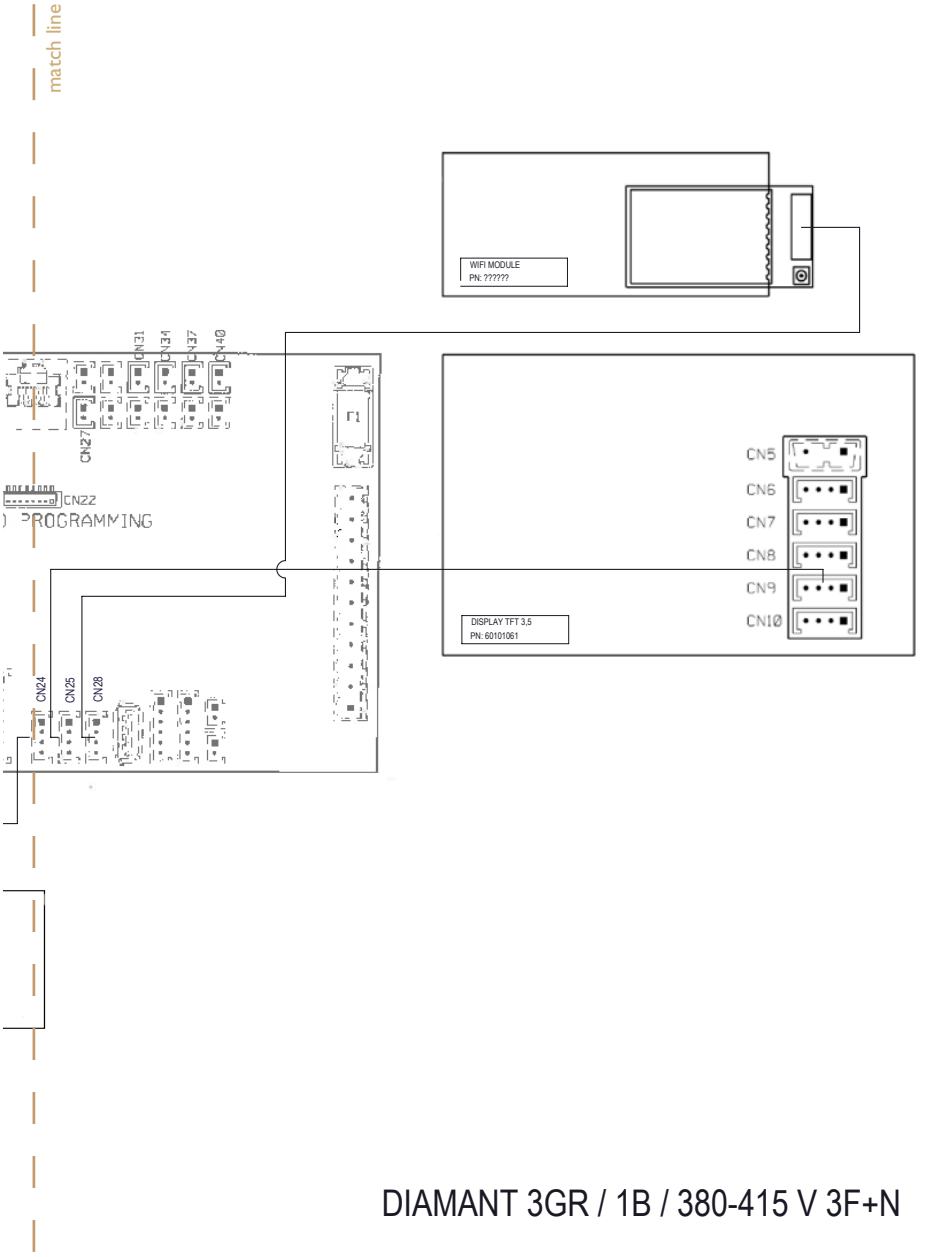


DIAMANT 3GR / 1B / 380-415 V 3F+N

DIAMANT Pro 3GR 380-415V 3N~

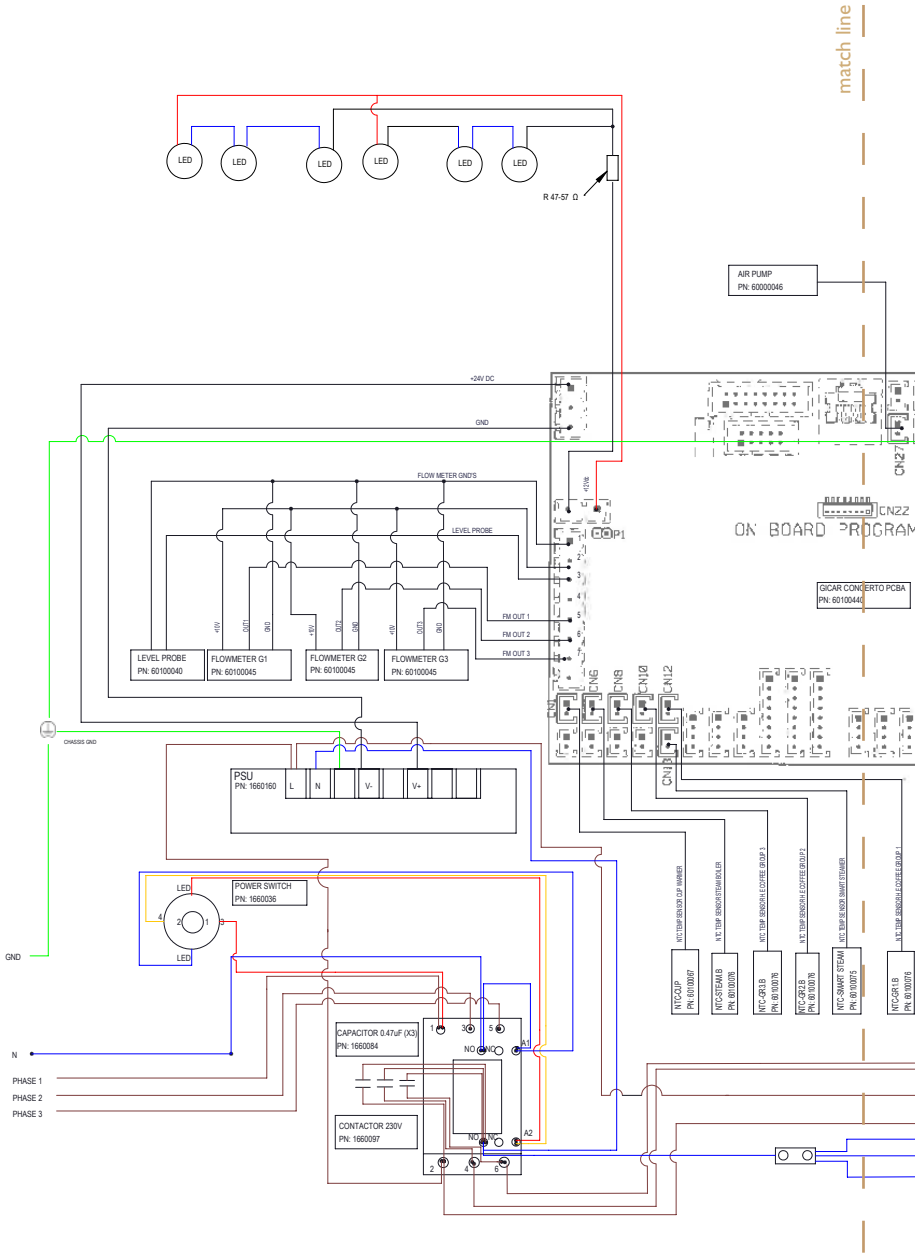


DIAMANT Pro 3GR 380-415V 3N~

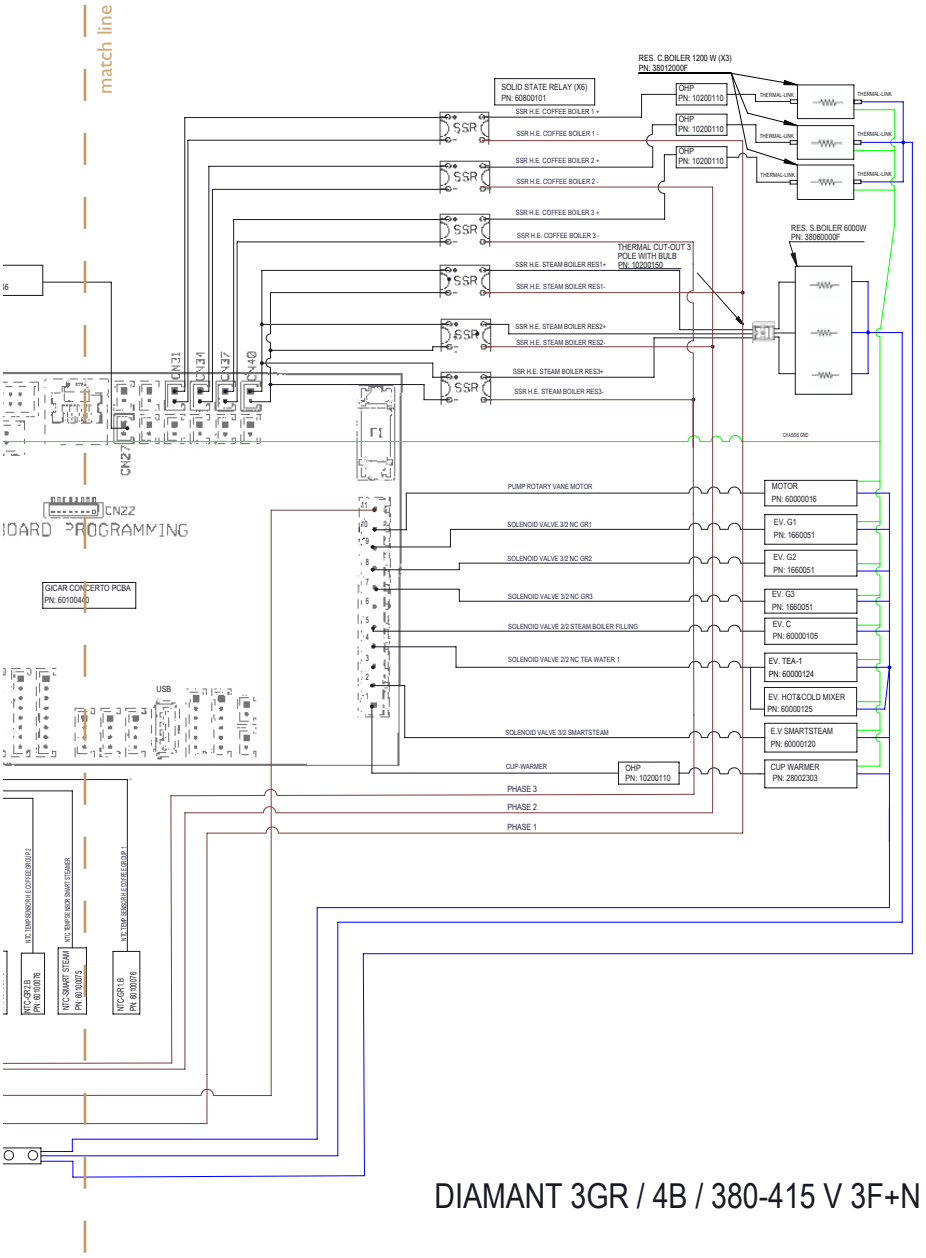


DIAMANT 3GR / 1B / 380-415 V 3F+N

DIAMANT Pro 3GR 4BOILERS 380-415V 3N~

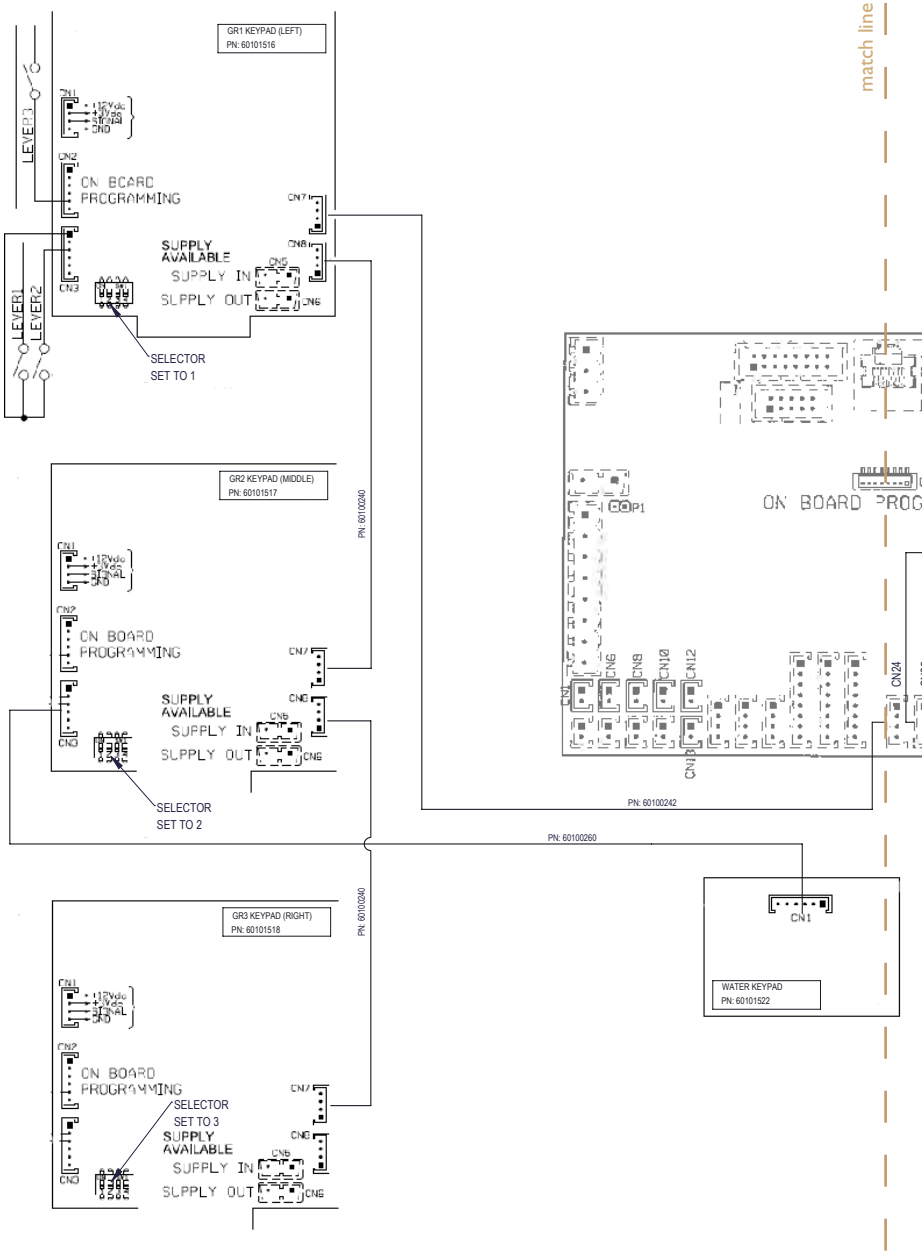


DIAMANT Pro 3GR 4BOILERS 380-415V 3N~

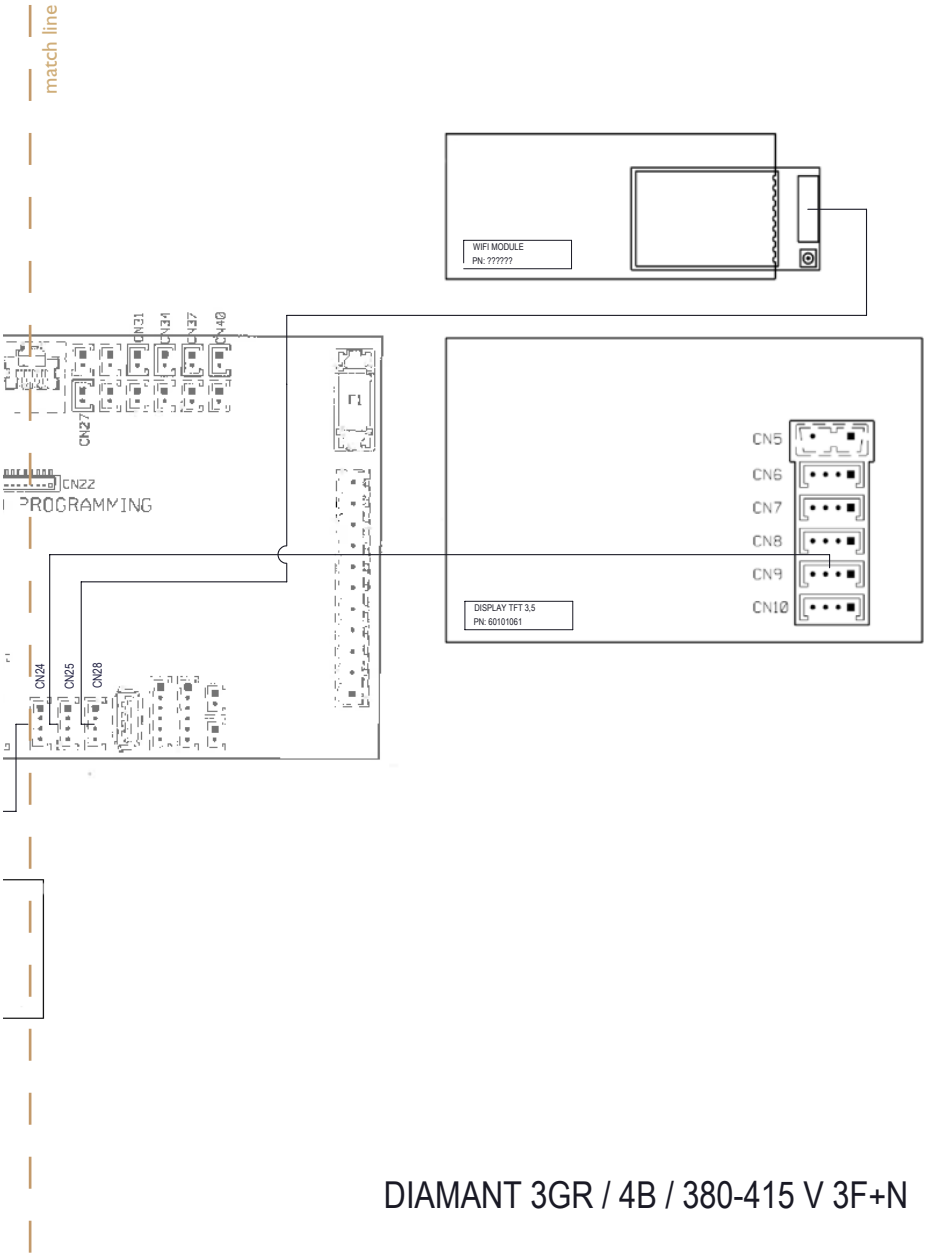


DIAMANT 3GR / 4B / 380-415 V 3F+N

DIAMANT Pro 3GR 4BOILERS 380-415V 3N~



DIAMANT Pro 3GR 4BOILERS 380-415V 3N~



DIAMANT 3GR / 4B / 380-415 V 3F+N

Notes:

For the warranty to be valid the conditions for maintenance must have been followed according to our instructions, proper precaution has been made and warranty claim been issued without delay.

The affected equipment may not be used during awaiting service if there is any risk that the damage or defect would worsen.

The warranty will not cover consumption supplies such as glassware, normal maintenance such as cleaning of filters, contaminations in water, lime, incorrect voltages, pressure or adjustment of water amounts.

The warranty will not cover damages of defects caused by incorrect handling and operation of the appliance.

FOR SERVICE

Please contact your dealer

Your Dealer

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