



Dough Retarder Prover

Service Manual

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1. INTRODUCTION

The cabinet is designed to retard, recover and prove dough products. When utilised correctly the unit will enable a more consistent product quality to be achieved.

It is therefore important that prior to working on this equipment that this manual is read and understood.

During this manual various terminology is used. Correct interpretation can be found in the Glossary on page 30.

If any point of operation is unclear the engineer should contact Foster Refrigerator (UK) Ltd on (01553) 691122.

The controller contains both 'User Parameters' and also 'Machine Operating Parameters'. Neither of these parameter sets are assessable to the store operators and as such should not be disclosed to any member of store personnel (including management).

Similarly the parameters are pre-set on commissioning to ensure consistent product quality and as such should not be adjusted under any circumstance without prior consent in writing from Head Office bakery personnel.

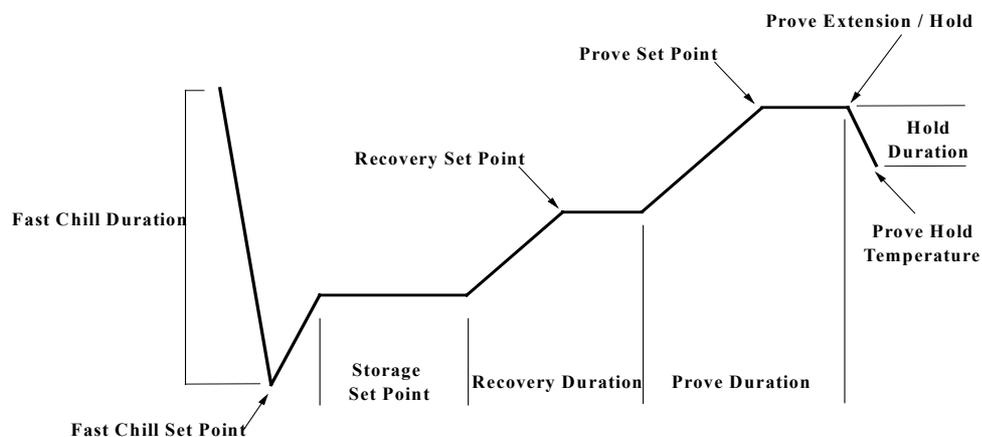
2. CONTROLLER OPERATION

2.1 PROCESS CYCLE OVERVIEW

2.1.1 The full automatic cycle consists of 4 stages. These are fast chill, storage, recovery and prove. The amount of time available between the bake time and current time will depend how much of each cycle is carried out.

For the purpose of this general overview it has been assumed that the controller has sufficient time with which to carry out a complete cycle.

Throughout paragraph 2.1.2 reference should be made to the process graph below.



2.1.2 Upon initiation of a complete cycle the controller will chill the chamber to a pre-set temperature (fast chill). When this temperature has been reached the machine will hold the chamber at a temperature (storage) for a time calculated by the controller. The controller calculates how long this temperature is maintained using the bake time and the remaining process times.

An illustration of this is;

Assuming that the current time is 09:00 and the bake time is 18:00 the total time for the cycle is 9 hours.

A program is selected where the recovery time added to prove time is 6 hours.

The controller would hold the chamber at the storage temperature for 3 hours.

When the time calculated for the next stage is reached the controller will change from the storage mode to the recovery mode. During the recovery mode the controller increases the temperature of the chamber linearly from the storage temperature to the recovery temperature over $\frac{3}{4}$ of the given period of time. If other parameters allow it steam may be introduced during the later parts of this stage.

Upon completion of the recovery cycle the prove cycle commences. The chamber is then increased to a higher temperature over $\frac{3}{4}$ of given set time period. During this stage steam is introduced into the chamber as required to maintain the required humidity.

When the prove part of the cycle is complete the operator is advised both audibly and visually that the current program is complete and is given an option to either extend the prove time or hold the product. Assuming that these options are not selected the cycle is complete and as such is halted.

If the product is not ready at the bake time then a prove extension can be selected. Similarly, if the product is ready but there is no oven capacity the product can be held. The duration of both prove extension and prove hold are governed by a number of machine parameters (see paragraph 2.4).

2.2. PARAMETERS

2.2.1 Within the controller there are 10 process operating programs numbered 0 to 9. These programs are selected automatically by the controller based on bake time and current time. More information on program selection is found in paragraph 3.5.

2.2.2 Programs 1 to 9 contain full automatic cycle parameter information with program 0 being a prove only program.

2.3 OPERATING PROGRAM PARAMETERS

2.3.1 PROGRAMS 1 - 9

Programs 1 - 9 each contain the parameters detailed below;

Fast Chill Duration

The time period at the start of the automatic cycle which the controller refrigerates continuously unless terminated by the 'Fast Chill Set Point'.

Fast Chill Set Point

Termination temperature during the fast chill operation if fast chill duration has not first been exceeded.

Storage Set Point

The temperature at the end of the fast chill stage at which the controller holds the chamber until the recovery stage begins.

Recovery Duration

The time taken for the temperature in the chamber too linearly rise from the storage temperature to the recovery temperature.

Recovery Set Point

Temperature to which the chamber will linearly increase too following the storage stage.

Prove Set Point

Temperature to which the chamber will linearly increase too following the recovery stage.

Prove Humidity

The relative humidity which the chamber is maintained at during the prove cycle subject to the 'Humidity Temperature Limit' parameter.

Prove Duration

The time taken for the chamber temperature too increase linearly from the recovery temperature to the prove temperature.

Final Product Loaded

The time prior to the bake time after which the no further product can be loaded. The display indicates when this time has passed.

Oven Contact

Time prior to the bake time that the oven contact operates.

2.3.2 PROGRAM 0

Program '0' is designed for proving only and as such only has the parameters listed below.

Prove Set Point

Temperature which the chamber achieves when program '0' is selected.

Prove Humidity

The relative humidity which the chamber is maintained at during the prove cycle subject to the 'Humidity Temperature Limit' parameter.

Final Product Loaded

The time prior to the bake time after which the no further product can be loaded prior to the bake time. This time is also used as the default end time when starting the cycle. The display indicates when this time has passed.

2.4 MACHINE / SERVICE PARAMETERS

Defrost Termination Temperature

The temperature which the coil probe must sense prior to the termination of a defrost.

Drip Time

The time at the end of a defrost prior to the refrigeration output switching on.

Humidity Hysteresis

The value about which the humidity cycles during the prove mode.

Humidity Temperature Limit

The temperature which the chamber must reach before the humidity system is permitted to operate during the prove and recovery stages.

Prove Hold Temperature

The temperature which the chamber will be maintained at if the prove hold option is selected at the end of the automatic cycle.

Prove Hold Humidity

The humidity which the chamber will be maintained at if the prove hold option is selected at the end of the automatic cycle.

Prove Hold Duration

The duration of each prove hold cycle. This will be governed by the 'Maximum Prove Hold' parameter such that if 'Maximum Prove Hold' is 20 minutes and 'Prove Hold Duration' is 15 minutes then one cycle of 15 minutes followed by one cycle of 5 minutes will be offered.

Maximum Prove Hold

The maximum total time that the product can be held.

Fan Speed Refrigeration Off

The fan speed during the storage stage when the refrigeration is off, listed as a percentage of full speed.

Fan Speed Refrigeration On

The fan speed during the storage stage when the refrigeration is on, listed as a percentage of full speed.

Fan Speed Recovery

The fan speed during the recovery stage, listed as a percentage of full speed.

Fan Speed Prove

The fan speed during the recovery stage, listed as a percentage of full speed.

Temperature Fault Difference

The temperature difference from correct temperature which must occur for the time set in the 'Temperature Fault Time Delay' prior to a fault being generated.

Temperature Fault Time Delay

The time which the temperature difference set in 'Temperature Fault Difference' must occur for prior to a fault being generated.

Maximum Prove Extension

The total number of times the controller asks if a prove extension is required before offering a prove hold.

Additional Prove Temperature

The temperature at which the chamber is held at during a prove extension.

Additional Prove Time

The time duration of each prove extension.

Hours Operation Refrigeration

The amount of time in hours that the refrigeration has been operating.

Hours Operation Heating

The amount of time in hours that the heating has been operating.

Hours Operation Humidity

The amount of time in hours that the humidity has been operating.

Humidity Control

The type of humidity generation system that is in operation.

Humidity On Time

When Humidity Control is set to pulse, the duration which the water solenoid valve is open for.

Humidity Off Time

When Humidity Control is set to pulse, the duration which the water solenoid valve is open for.

Plateau Prove

The percentage of the prove duration at which the prove temperature will be reached.

Plateau Retard

The percentage of the retard duration at which the retard temperature will be reached.

2.5 OPERATING PROGRAM SELECTION

The controller automatically selects the program it requires by calculating the total time between the start time and the bake time. The program selected is governed by the 'Automatic Program Selection' parameters.

In the event of a program being selected which does not have sufficient time to run completely the controller will operate as much of the program as possible. For example if program 3 had a total run time (Recovery Duration + Prove Duration) of 5 hours the time available was only 4 hours then the controller would operate the final 4 hours of the cycle.

2.6 USER OPERATION

The operator has no requirement to know the detailed working of the machine and simply has to follow the instructions on the following page. As previously stated no information regarding access to, or operation of, any parameters must be given to any store personnel (including management).

3. ENGINEERS CONTROLLER INFORMATION

3.1 CONTROLLER TERMINATIONS

The controller terminations are as detailed below;

Power Supply	1 & 2
External Alarm	Com. 4
	N/O 3
	N/C 5
Light	Com. 7
	N/O 6
Humidity	Com. 9
	N/O 8
	N/C 10
Heating	Com. 12
	N/O 11
	N/C 13
Refrigeration	Com. 15
	N/O 14
Oven Contact	Com. 18
	N/O 17
Defrost	Com. 20
	N/O 19
Evaporator Fans	21 & 22
Humidity Sensor	31 & 32
Evaporator Sensor	33 & 34
Air Sensor	35 & 36
Door Switch	26 & 30

3.2 CONTROLLER OUTPUT REGULATION

3.2.1 HEATING

The heating output will not be switched on in the Fast Chill or Storage.

Heating will not be switched on for 2 minutes after refrigeration has been switched off.

The heating output is switched on and off at intervals which relate how many degrees the chamber is below the set point. As the chamber reaches the set point the required the off interval increases and the on interval decreases.

When the chamber temperature is 5°C or more below the set point the heating is continuously switched on

3.2.2 REFRIGERATION

Refrigeration will not be switched on for 2 minutes after heating is switched off.

In prove or recovery mode and the chamber temperature has exceeded the set point the refrigeration is regulated 60 seconds on 60 seconds off.

3.2.3 HUMIDITY

Humidity can only operate in the Prove and Recovery modes.

The humidity will only operate in the Prove and Recovery modes if the chamber temperature is greater than that set in the service parameter 'Humidity Temperature Limit'.

Humidity will not be switched on while the refrigeration is operating.

3.2.4 EVAPORATOR FANS

The fan speed is controlled for Prove, Recovery and Storage modes using the service parameters 'Fan Speed Cooling On', 'Fan Speed Cooling Off', 'Fan Speed Recovery' and 'Fan Speed Prove'.

During the Fast Chill mode the fan speed will be maximum.

When the chamber is being cooled at the 'start' of a cycle, the evaporator fans will not be switched off until the evaporator coil temperature is 5°C below the air temperature.

During defrost mode the evaporator fans will be switched off. They will not 'start' until the defrost is finished and the evaporator coil temperature falls to 5°C below the air temperature after the drip time is complete.

At the 'start' of a cycle if the chamber is being increased in temperature the evaporator fans start immediately.

3.2.5 DEFROST

Defrosts do not occur in Fast Chill, Prove or Recovery modes.

Defrosts occur every 6 hours from when the evaporator coil falls below +7°C.

While in the Storage mode a defrost will occur 55 minutes prior to change over to recovery mode.

The defrost will end when the evaporator coil temperature reaches the value set in service parameter 'Defrost Termination Temperature'.

3.2.6 DOOR CONTACT

The door contact is closed when the door is closed and open when the door is open.

When the contact is opened the Heating, Humidity and Refrigeration is switched off immediately. After 30 seconds, if the contact is still open the evaporator fans are switched off. When the door contact is closed again all outputs operate as normal.

If the door is open for 30 minutes or more all outputs are switched on and the fault 'Door Open Fault' is generated.

3.2.7 OVEN CONTACT

The oven contact switches on for one second at a the bake time minus the time set in the operating program parameter 'Oven Contact'. After one second the contact switches off again.

3.2.8 LIGHT

The light is on if the door switch is open.

If the light is switched on from the display facia the light will not operate from the door switch.

If the light is switched on from the display facia the light will remain on for a maximum period of 10 minutes or until the light switch is operated again.

3.2.9 EXTERNAL ALARM

The alarm contact is activated if a fault condition occurs.

The contact will be held in on position until the alarm condition is rectified, the power is switched off or the 'Down Arrow' is pressed.

3.3 SYSTEM RESET

It is possible to carry out a total system reset. When this is carried out all service parameters and operating programs will return to their default values.

To carry out a system reset turn on the power with all buttons pressed. The display will then prompt Reset ? and this will be confirmed by pressing both the Up and Down buttons.

3.4 CONTROLLER FAULT INDICATION

3.4.1 The controller is capable of fault diagnosis within its own system. That is to say if a probe fails or a parameter is exceeded a fault will be generated.

When this happens the display will indicate to the operator that a fault is present. When

the cycle is stopped the faults can be displayed.

3.4.2 FAULT INDICATORS

Air Sensor Fault

Caused when the controller detects a fault with the air probe. The controller will now operate by using the evaporator probe.

Coil Sensor Fault

Caused when the controller detects a fault with the coil probe. The controller will now not carry out defrost operations and will not control the starting of the evaporator fans when cooling the chamber at the 'start' of a cycle.

Humidity Sensor Fault

Caused when the controller detects a fault with the humidity probe. The controller will now not operate the humidity system.

Defrost Termination Fault

Caused when the defrost termination temperature is not reached within 45 minutes.

Door Open

Caused when the door is open for more than 30 minutes.

Temperature Fault

Caused when the actual temperature is greater or less than the calculated temperature as specified in the service parameters 'Temperature Fault Difference' and 'Temperature Fault Time Delay'.

Over Temperature

Caused when the safety thermostat (set point 60°C) is operated by an over temperature condition.

3.5 DATA LOGGER

The controller records all temperature and humidity values for a 48 hour period. This information can be retrieved and viewed using a PC software package.

3.6 REMOTE ACCESS

All parameters can be downloaded from and uploaded to the controller a PC software package. This can be connected either directly using the serial port located on the front of the controller or remotely via a modem.

3.7 *PARAMETER ACCESS*

3.7.1 *TIME & DATE*

To access and set the time and date. Stop any cycle which is currently operating by holding the 'STOP' button for 5 seconds.

Hold the 'STOP' button and press the 'Down Arrow' and follow the prompt on the display.

There is no need to change the time for Summer and Winter time the controller will carry this out automatically.

3.7.2 *OPERATING PROGRAM / MACHINE PARAMETERS*

Stop any cycle which is currently operating by holding the 'STOP' button for 5 seconds.

Switch off the power then whilst holding down the 'START' and 'Up Arrow' switch the power on. Continue to hold the buttons until the display prompts 'Service Program'.

Press the 'Down Arrow' and follow the instructions on screen.

3.8 *ENGINEERS TEST*

Within the controller there is the facility to activate each output and view each input independently without having to operate a cycle.

To access this facility;

Stop any cycle which is currently operating by holding the 'STOP' button for 5 seconds.

Switch off the power then whilst holding down the 'START', 'Up Arrow' and 'Down Arrow' switch the power on. Continue to hold the buttons until the display prompts 'Engineers Test ?'.

Press the 'Up Arrow' and follow the instructions on screen.

Where there are several test options, for example in relay test use the 'Up Arrow' and 'Down Arrow' to select each item for test.

3.9 *CONTROLLER SOFTWARE*

The current revision of controller software is identified from the label on the EPROM.

Subsequent revisions of the software will be notified and details of changes contained in each revision can be found on the following page.

3.9.1 CONTROLLER SOFTWARE REVISIONS

SOFTWARE F147

Initial version operation as revision 0 of Service Manual

SOFTWARE F148

Increased system idle temperature from +18°C to +25°C

SOFTWARE F149

Removed Power Failure fault

SOFTWARE F150

Enabled 10 hour extension of prove to operate correctly.

SOFTWARE F151

Enable variable recovery and prove plateau times, German language addition and option for pulse steam system added.

SOFTWARE F152

Modification of Pulse steam system steam heater operation.

SOFTWARE F153

Dutch language added.

SOFTWARE F154

Extra operator prompts added at Extra Time and Prove Hold. Dip switch 1 activated for Summer/Winter time switching.

SOFTWARE F155

Pulse Humidity on/off time set in tenths of seconds.

SOFTWARE F156

Service parameter access changed to 'Em Stop' activated then 'Stop', 'Up' and 'Start'.

SOFTWARE F157

When Emergency Stop input is low all outputs are off until Emergency Stop goes high and 'Start' is pressed.

SOFTWARE F158

Automatic display reset in the event of fault.

SOFTWARE F159

Dip switch 3 activated for emergency stop simulation.

4. FAULT DIAGNOSIS

The following section details a number of faults which may occur and their possible causes. This list is not exhaustive.

4.1 TEMPERATURE

Slow Proving

Possible causes are prove heater failure or fan failure. The most likely would be heater related as a fan failure would also cause problems related to low humidity uneven proving and/or an over temperature fault.

Temperature Fault Activated

There are a number of possible causes for this fault. The easiest method of diagnosis is to ascertain the time that the error occurred. It should also be determined the exact condition which causes the fault (see paragraph 3.4.2). From the time of occurrence it can be determined via the operating program parameters which condition the machine was in at the time. For example if the machine was in storage mode at the time the fault occurred the likely (although not certain) cause would refrigeration related. Similarly if the machine was in recovery, heaters would probably be a good place to start.

Over Temperature Fault Activated

In all probability it is almost certain that this fault would be caused by one or all of the fans being rendered inoperative. The cause would most probably be controller output or solid state relay failure.

Another cause may be a contactor 'sticking' on thus causing the heaters to operate continuously.

4.2 HUMIDITY

Low Or No Humidity

This can be caused by a number of faults. First check that the water supply to the steam tank is operating. By energising the solenoid valve and ensuring that water is entering the tank (the later can usually be done audibly).

Confirm correct operation of the humidity sensor. As an initial indication use the display on the controller. For example if the room is obviously 'dry' but the display is showing 90% humidity the likely cause would be a humidity sensor failure. If everything appears normal use a calibrated hand held humidity device to compare the value indicated on the display with that on your meter. Small differences $\pm 15\%$ can be expected although more should be viewed with suspicion.

Ensure that the tank contains water (it may not be filling although water is connected). If this is the case check that the level controller is operating. Malfunction of the level controller is not necessarily an indication if a level controller failure (see water overflowing below) although failure to fill usually is.

Check the heater is operating correctly.

In all of the above prove negative ensure that the steam delivery pipes have not become scaled or the inside of the tank itself is not full of scale therefore preventing sufficient steam production.

4.3 WATER

Water Overflowing

The water system is controlled by the level controller situated in the control panel. The first check to make however is to ensure that no debris from the water supply has passed through the water strainer and become lodged in the solenoid valve, thus preventing the valve from closing completely.

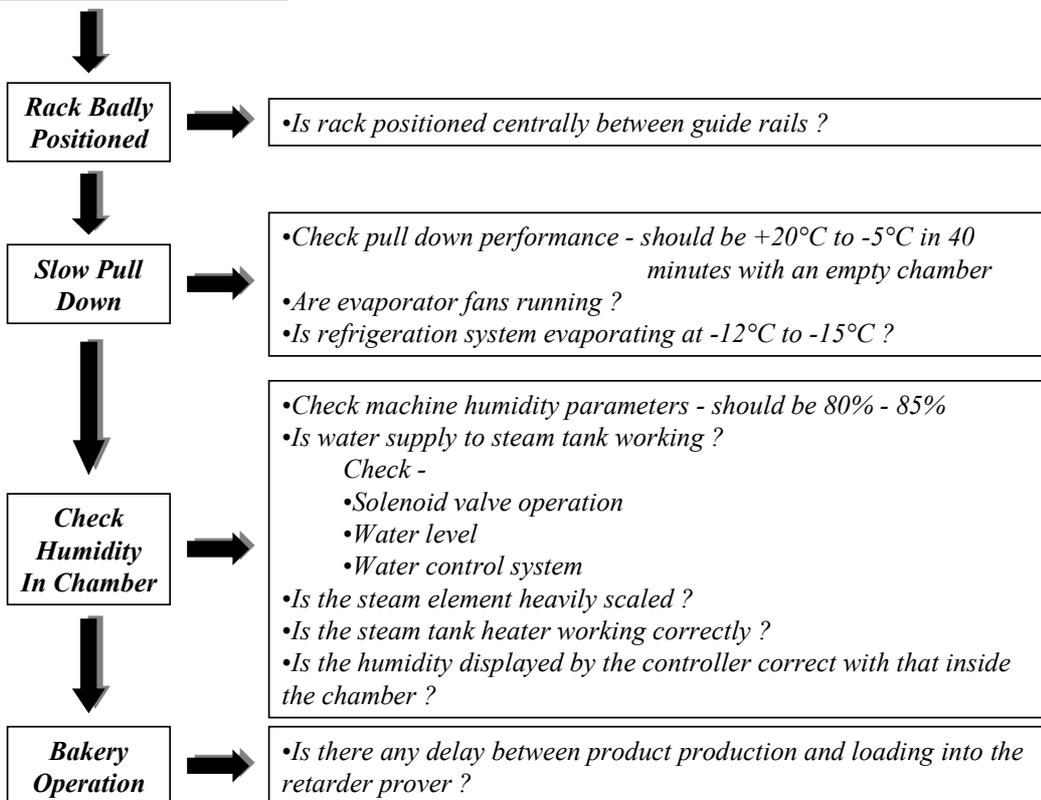
If the valve is permanently energised this can only be caused by the level controller. However this does not necessarily indicate a level controller fault. The level controller uses conductivity between the probes and the tank case to determine level. If the probes have become scaled due to water softening being inoperative this will prevent conductivity causing the controller to assume low level thus causing the solenoid valve to remain open. It should also be ensured that the earth connection between the level controller and tank has not been disrupted in any way as this will cause the same scenario.

Water Overflowing Drain Pan

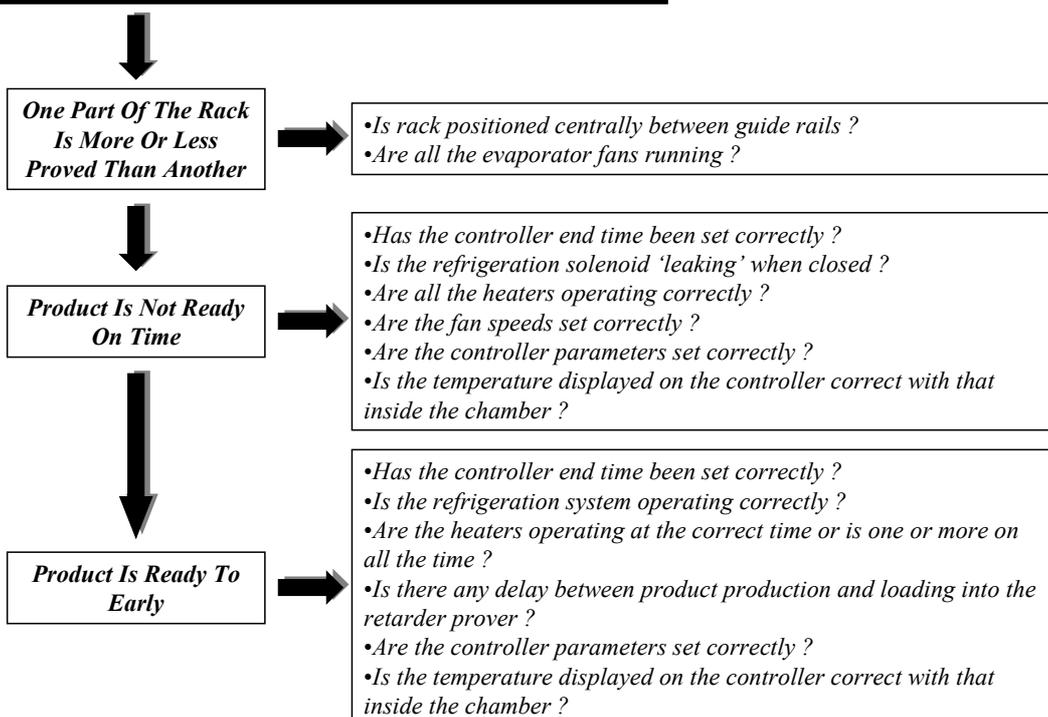
Most likely caused by a drain pipe blockage although this could be a symptom over water overflowing.

4.4 PRODUCT

DOUGH SKINNING



UNEVEN PRODUCT DEVELOPMENT



MODULAR PRODUCT
DRP RI 1 T

	A	B	C	D	E	F	G	H	J	K	L	M	N	P
1														
2														
3														
4														
5														
6														
7														
8														
9														

NOTES:

- ALL CABLES ARE Term UNLESS SHIELD
- ALL PHASE WIRING - BLACK
ALL CONTROL WIRING - RED
ALL SIGNAL WIRING - GREEN/YELLOW
ALL LIGHT WIRING - GREEN/YELLOW
- BLUE CABLES SHOULD ONLY BE USED AS NEUTRAL THROUGHOUT
ALL CABLES MUST BE FITTED WITH BONDANCE TERMOLES
ALL CABLES MUST BE NUMBERED AS PER DRAWING DETAIL
- HEADERS
1. - DEFROST/RECOVERY/PROBE
2. - MAIN
3. - HUMIDITY
4. - WAPROSER
5. - DRP TRAY
6. - HUMIDITY

DRP 22.1 - 4 + 4(OW) + 1 + 2(TH)

- CIRCUIT BREAKERS
MKB 1 - 10 AMP
MKB 2 - 16 AMP
MKB 3 - 2 AMP
MKB 4 - 2 AMP
MKB 5 - 6 AMP
MKB 6 - 2 AMP
- R.O NETWORKS
CONNECT R.O NETWORKS TO:
CONDUCTOR 1 TERMINALS A1 & A2
CONDUCTOR 2 TERMINALS B1 & B2
CONDUCTOR 3 TERMINALS C1 & C2
ACCESS TERMINALS T1 & T2
ACCESS TERMINALS T3 & T4

1	WIRMS SUPPLY (LINE)	1	SOLAR (1)
2	SOLAR (2)	2	MKB 1, 2, 3, 4, 5, 6
3	WIRMS SUPPLY (NEUTRAL)	3	SOLAR (3)
4	C1 (2)	4	COMPRESSOR
5	C2 (4)	5	DEFROST/RECOVERY/PROBE HEADERS
6	C3 (4)	6	DEFROST/RECOVERY/PROBE HEADERS
7	MKB 4	7	DEFROST/RECOVERY/PROBE HEADERS
8	SSR (2)	8	DEFROST/RECOVERY/PROBE HEADERS
9	R1 (1)	9	DRP TRAY HEADER
10	DRP CONTROLLER (A)	10	HUMIDITY HEADER
11	LC (2)	11	WIRMS SUPPLY (LINE)
12		12	WIRMS SUPPLY (NEUTRAL)
13	DRP CONTROLLER (B)	13	DRP TRAY HEADER
14	SHEET STAT. (2)	14	DEFROST/RECOVERY/PROBE HEADERS
15	WIRMS FILTER	15	DEFROST/RECOVERY/PROBE HEADERS
16	DRP CONTROLLER (A)	16	DEFROST/RECOVERY/PROBE HEADERS
17	LC (7)	17	DEFROST/RECOVERY/PROBE HEADERS
18	LC (8)	18	DEFROST/RECOVERY/PROBE HEADERS
19	LC (1)	19	DEFROST/RECOVERY/PROBE HEADERS
20	ISOLATOR (A)	20	DRP TRAY HEADER
21	C3 (A2)	21	HUMIDITY HEADER
22	C1 (A2)	22	WIRMS SUPPLY (LINE)
23	C2 (A2)	23	WIRMS SUPPLY (NEUTRAL)
24	SSR (A)	24	DRP TRAY HEADER
25	LC (2)	25	DEFROST/RECOVERY/PROBE HEADERS
26	DRP CONTROLLER (B)	26	DEFROST/RECOVERY/PROBE HEADERS
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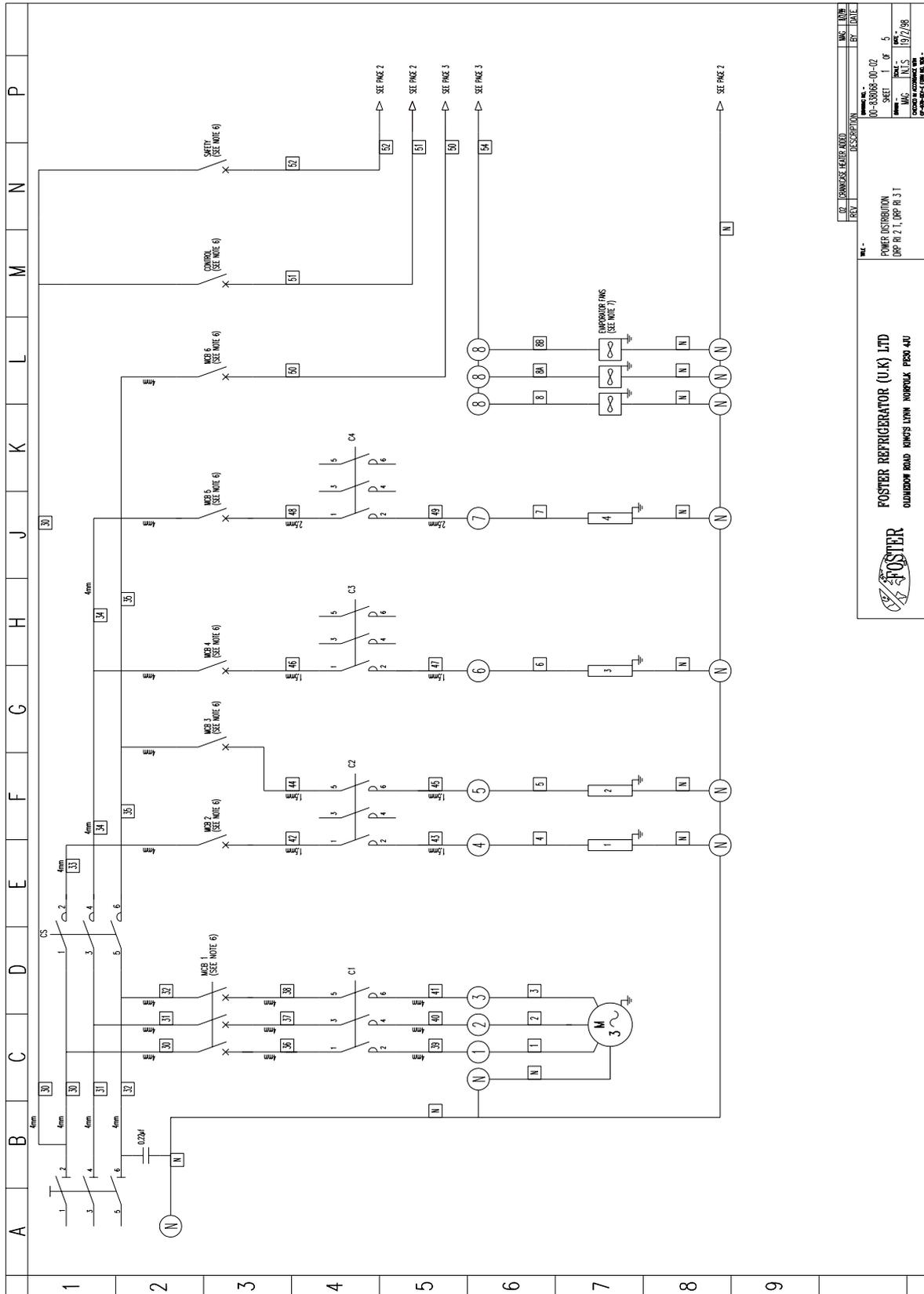
REV	DESCRIPTION	DATE
01	TERMINAL 3 POWER	17/7/98

FORM NO. 10-744539-00-03
SHEET 3 OF 3
DATE: 17/7/98
BY: NLS
FOR: DRP RI 1 T

TERMINAL LAYOUT AND NOTES
DRP 22.1
TESTED SPECIFICATION

FOSTER REFRIGERATOR (U.K.) LTD
OLMSTOCK ROAD KINGSTON URBAN WARRINGHAM P330 4HU

MODULAR PRODUCT DRP RI 2 T, DRP RI 3 T

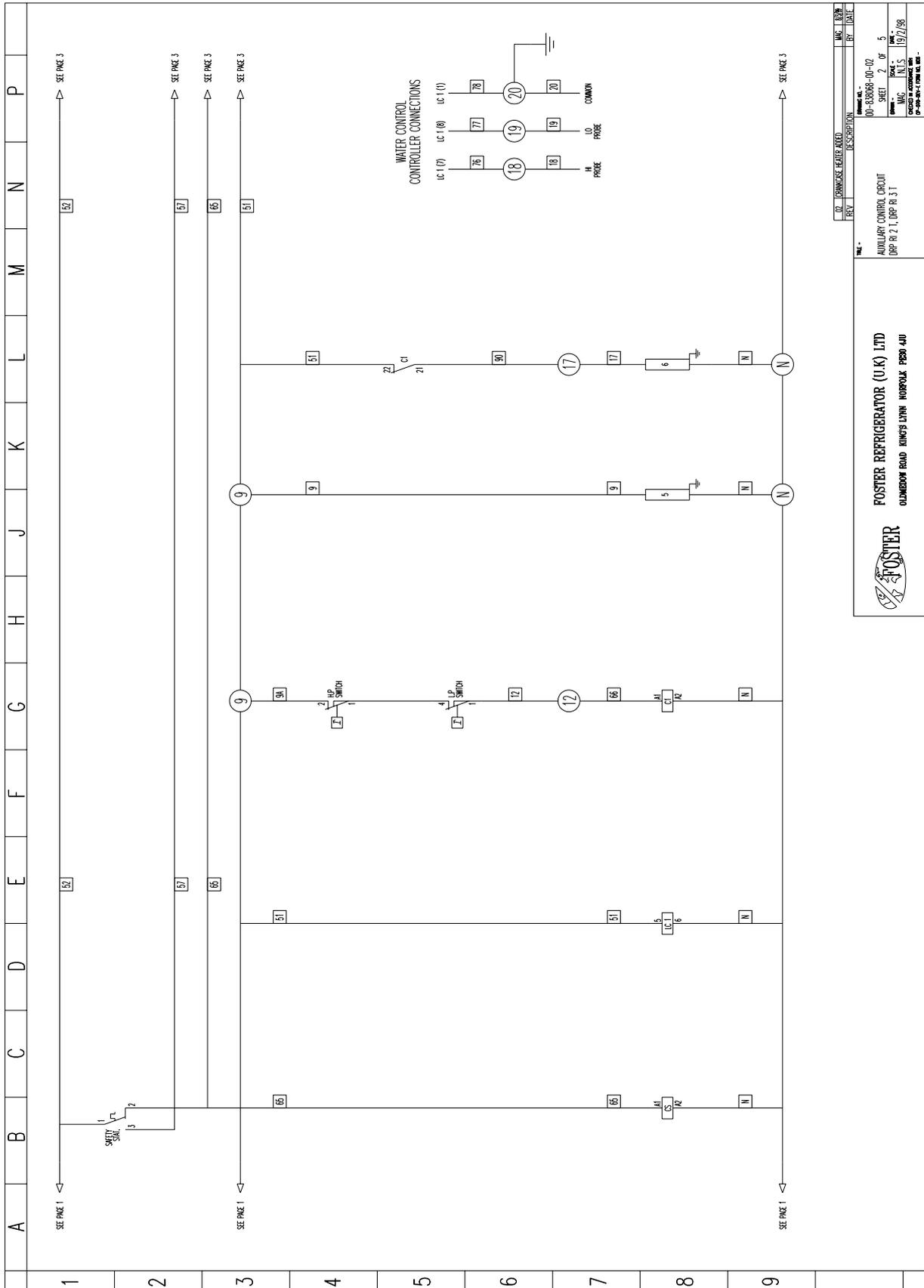


REV.	DESCRIPTION	DATE	BY
02	FORWARD REVISION		

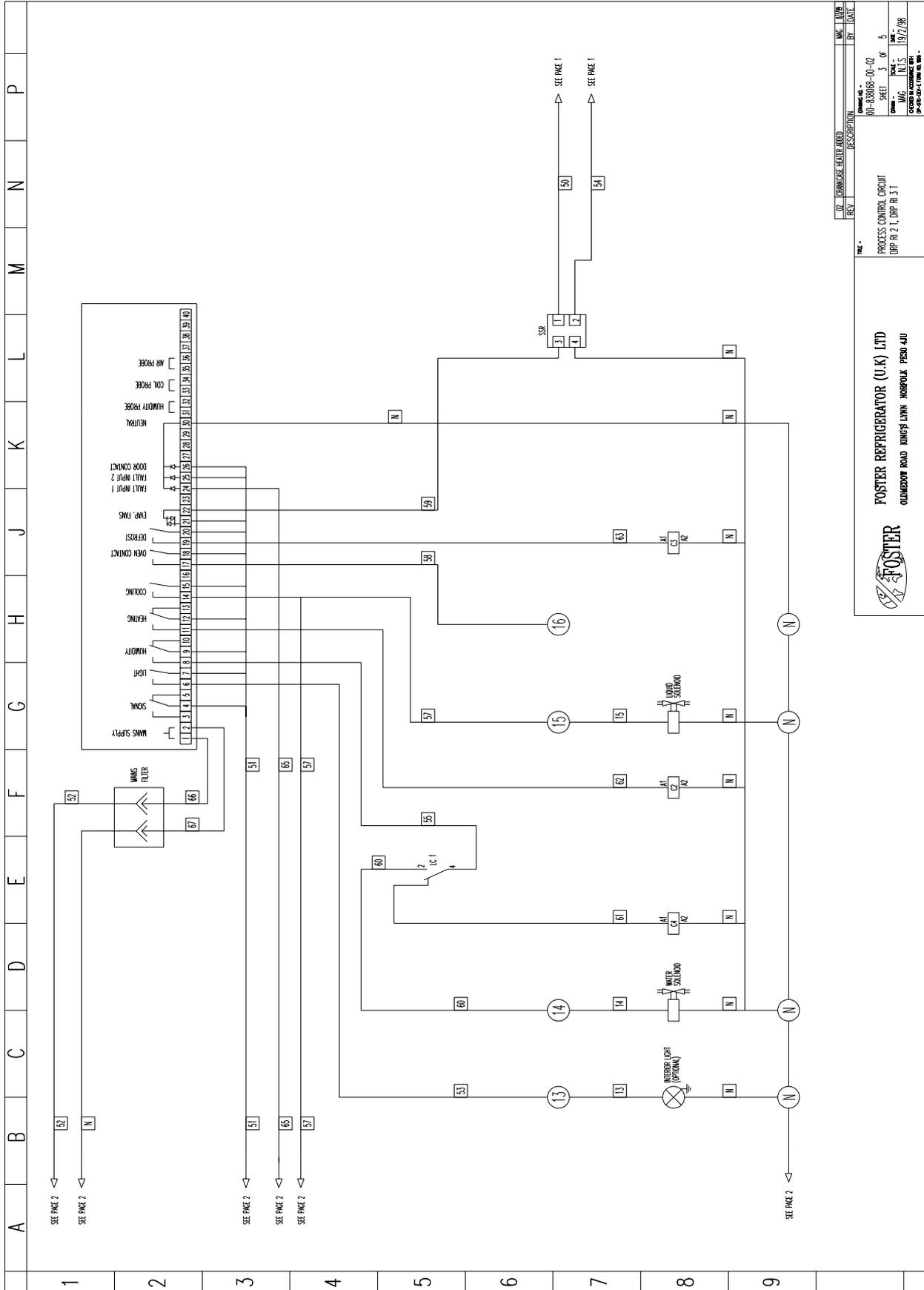
00-3000-00-02	DRP RI 2 T, DRP RI 3 T
1	OF 5
19/2/98	

FOSTER REFRIGERATOR (U.K.) LTD	OLINGHAM ROAD KINGS LYNN NORFOLK PE30 4JU
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MODULAR PRODUCT
DRP RI 2 T, DRP RI 3 T



MODULAR PRODUCT
DRP RI 2 T, DRP RI 3 T



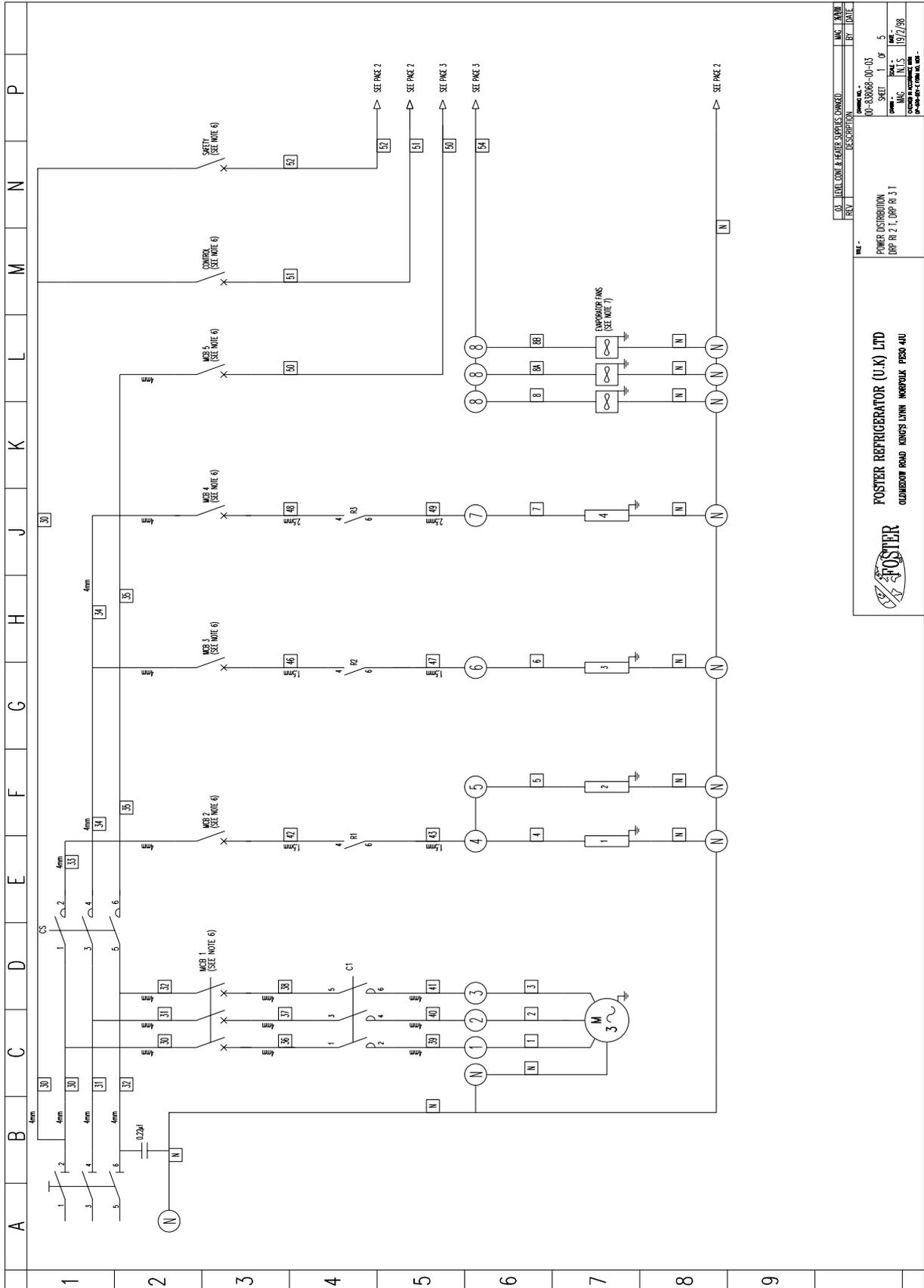


MODULAR PRODUCT
DRP RI 2 T, DRP RI 3 T

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QTY	REWORKS HEATER WROD	DESCRIPTION	DATE
		ORDER NO. - 00-438068-00-02 SHEET 5 OF 5 DATE - 19/7/2018 BY - 02-008-024-008 001 001	DRAWING NO. - 00-438068-00-02 SHEET 5 OF 5 DATE - 19/7/2018 BY - 02-008-024-008 001 001
POSTER REFRIGERATOR (U.K) LTD GARDINER ROAD FINCHES LYNN NORFOLK PE30 4JU		INSTALLATION CONNECTION DETAIL DRP RI 2 T, DRP RI 3 T	

MODULAR PRODUCT DRP RI 2 T, DRP RI 3 T



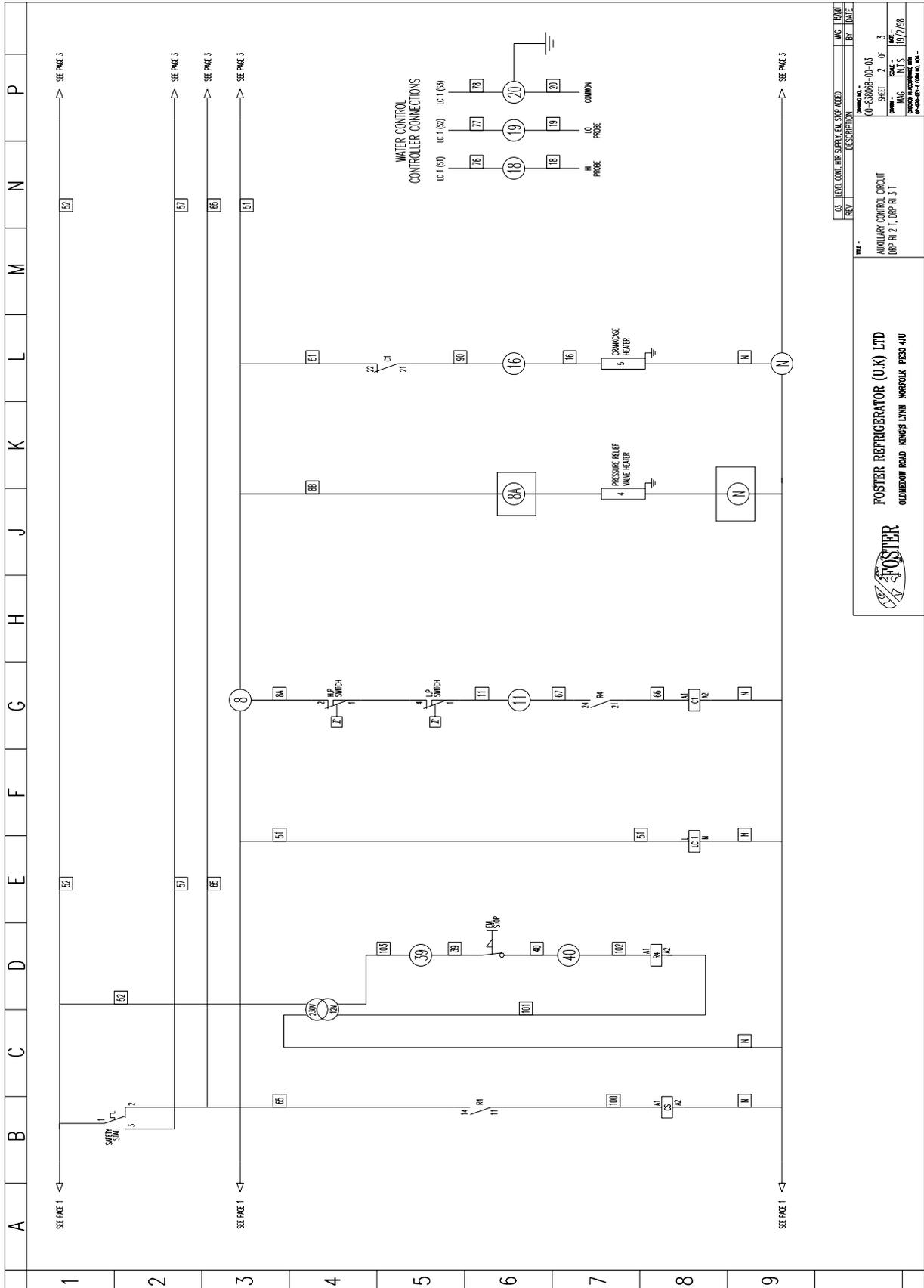
REV	DESCRIPTION	DATE
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POWER DISTRIBUTION
 DRP RI 2 T, DRP RI 3 T
 DRP RI 2 T, DRP RI 3 T

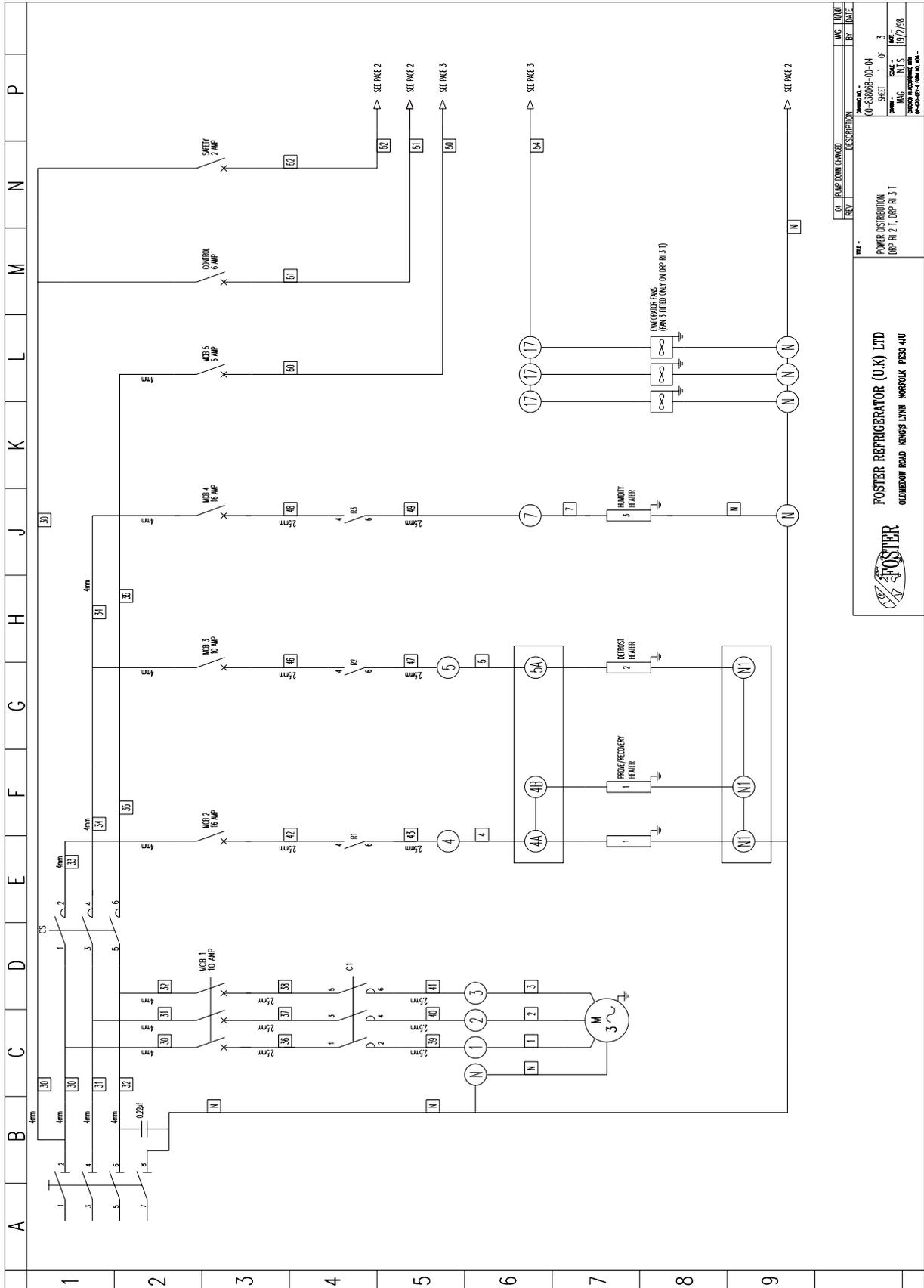
FOSTER REFRIGERATOR (U.K) LTD
 OULDMOUTH ROAD, KING'S LYNN, NORFOLK, PE30 4JU

REV	DESCRIPTION	DATE
01	INITIAL CONFL & WIRING SUPPLIES SHOWN	

MODULAR PRODUCT
DRP RI 2 T, DRP RI 3 T



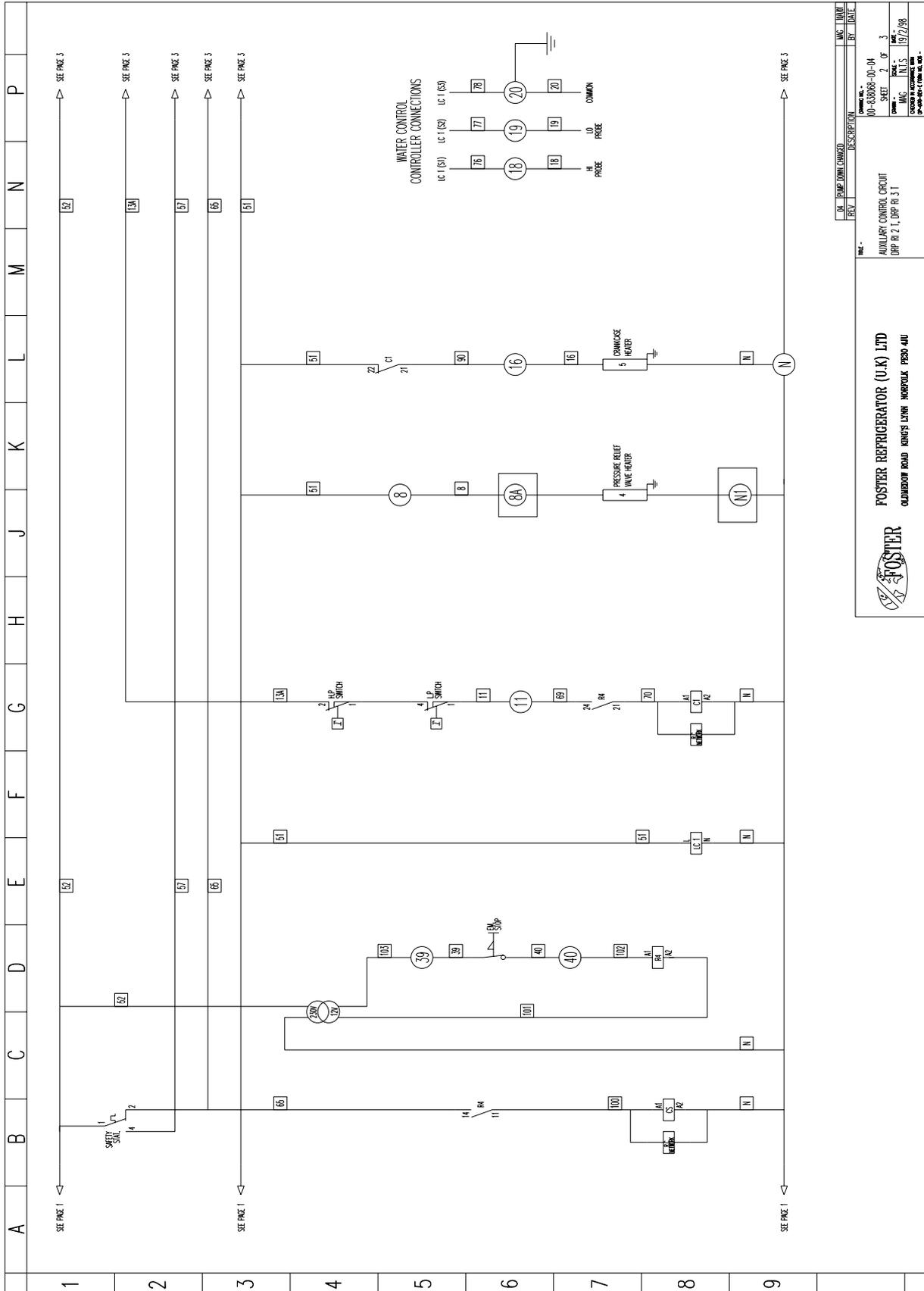
MODULAR PRODUCT
DRP RI 2 T, DRP RI 3 T



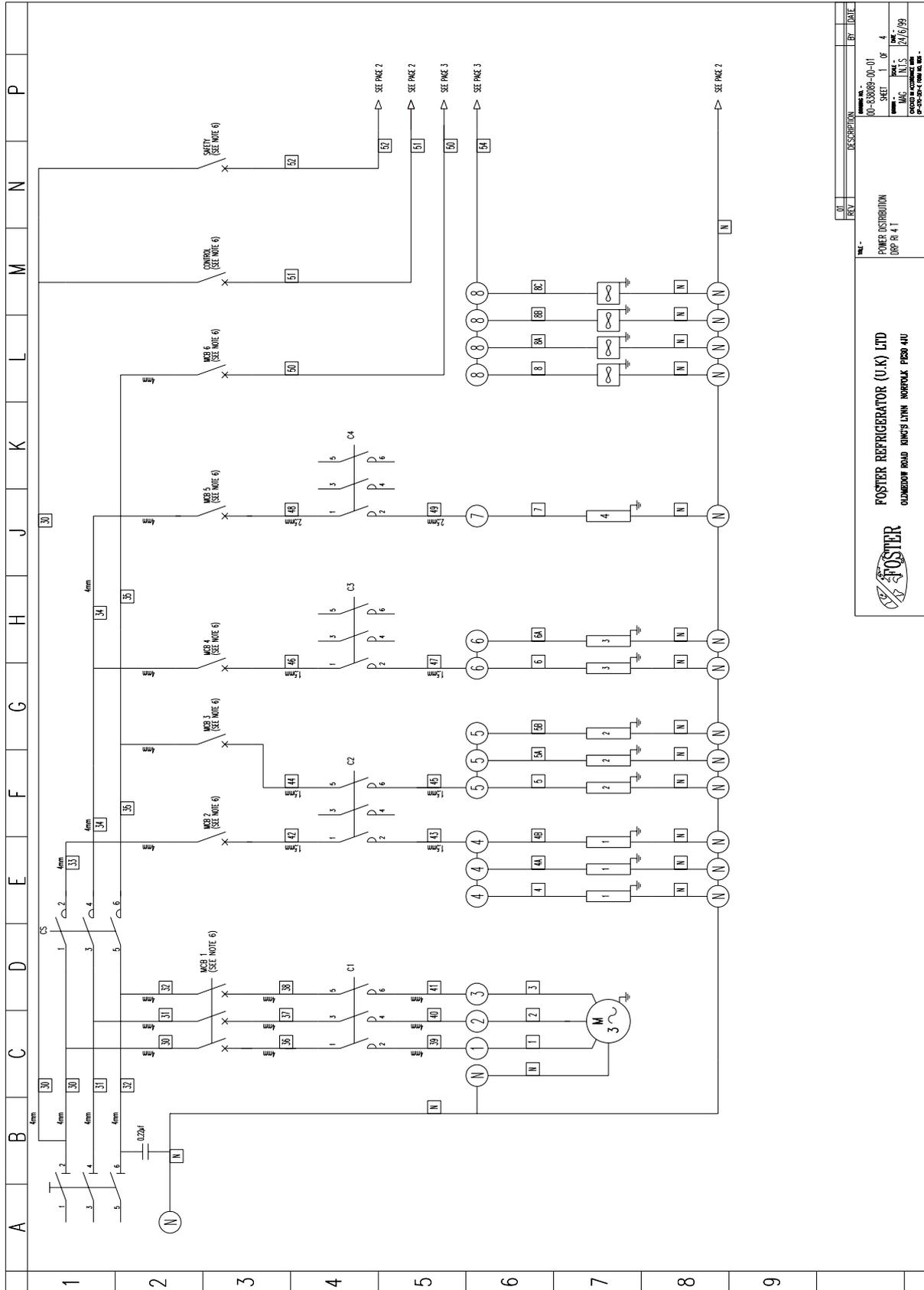
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FOSTER REFRIGERATOR (U.K) LTD
 OULINGDON ROAD, KINGS LYNN, NORFOLK, PE30 4JU

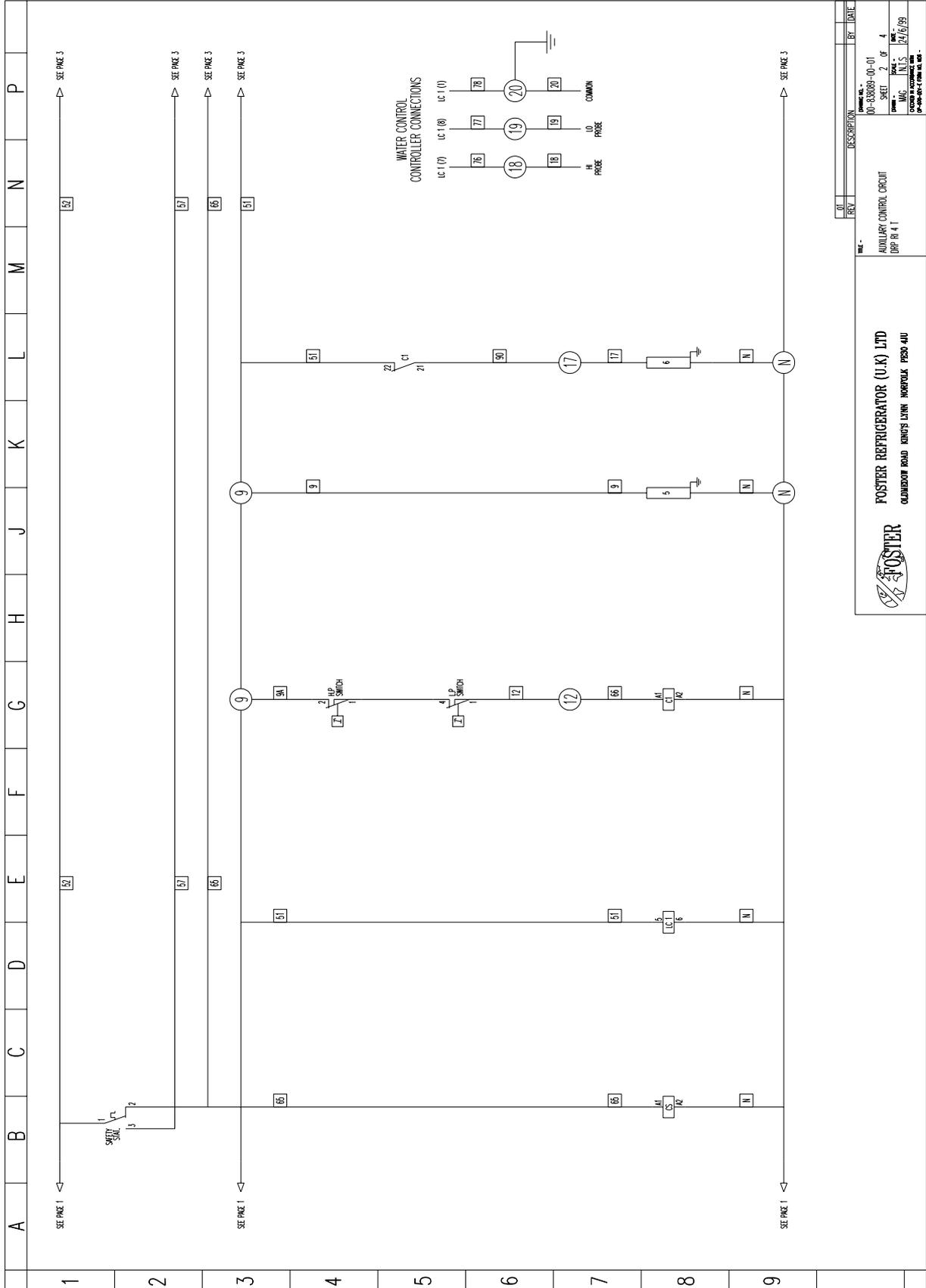
MODULAR PRODUCT DRP RI 2 T, DRP RI 3 T



MODULAR PRODUCT DRP RI 4 T



MODULAR PRODUCT
DRP RI 4 T



NO.	REV.	DESCRIPTION	BY	DATE
1		FOSTER RI 4 T		
2		FOSTER RI 4 T		
3		FOSTER RI 4 T		
4		FOSTER RI 4 T		
5		FOSTER RI 4 T		
6		FOSTER RI 4 T		
7		FOSTER RI 4 T		
8		FOSTER RI 4 T		
9		FOSTER RI 4 T		

FOSTER REFRIGERATOR (U.K) LTD
OJUNDOFF ROAD KING'S LYNN NORFOLK PE30 4JU

MODULAR PRODUCT DRP RI 4 T

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2														
3														
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5														
6														
7														
8														
9														

NOTES:

- ALL CABLES ARE 1mm UNLESS STATED
- CONTROL PANEL COLOUR CODE
 PHASE WIRING: - RED
 NEUTRAL WIRING: - BLACK
 EARTH WIRING: - GREEN/YELLOW
 WHERE FLEXIBLE CABLES ARE USED, STANDARD COLOUR CODE APPLIES
- R/C NETWORKS SHOULD BE CONNECTED ACROSS THE COILS OF C1, C2, C3, C4, C5, AND LIQUID/WATER SOLENOIDS
- HEATERS
 1 - PROOF/RECOVERY HEATER
 2 - PROOF/RECOVERY HEATER
 3 - DEFROST HEATER
 4 - HUMIDITY HEATER
 5 - PRESSURE RELIEF VALVE HEATER
 6 - CRANKCASE HEATER
- LEVEL CONTROLLER
 LC 1 - STEAM BATH WATER LEVEL
- CIRCUIT BREAKERS
 MCB 1 - 10 AMP
 MCB 2 - 16 AMP
 MCB 3 - 16 AMP
 MCB 4 - 16 AMP
 MCB 5 - 16 AMP
 MCB 6 - 6 AMP
 MCB 7 - 6 AMP
 MCB 8 - 2 AMP

1	CONDENSING UNIT	CONDENSING UNIT	CONDENSING UNIT	PROOF/RECOVERY HEATER	DEFROST HEATER	DEFROST HEATER	HUMIDITY HEATER	EMPOURATOR FAN 1	EMPOURATOR FAN 2	EMPOURATOR FAN 3	EMPOURATOR FAN 4	PRESSURE RELIEF VALVE HEATER	INTERIOR LIGHT (OPTIONAL)	WATER LEVEL SOLENOID	LIQUID LNK SOLENOID	OVEN CONTACT (OPTIONAL)	CRANKCASE HEATER						
2	CONDENSING UNIT	CONDENSING UNIT	CONDENSING UNIT	PROOF/RECOVERY HEATER	DEFROST HEATER	DEFROST HEATER	HUMIDITY HEATER	EMPOURATOR FAN 1	EMPOURATOR FAN 2	EMPOURATOR FAN 3	EMPOURATOR FAN 4	PRESSURE RELIEF VALVE HEATER	INTERIOR LIGHT (OPTIONAL)	WATER LEVEL SOLENOID	LIQUID LNK SOLENOID	OVEN CONTACT (OPTIONAL)	CRANKCASE HEATER						
3	CONDENSING UNIT	CONDENSING UNIT	CONDENSING UNIT	PROOF/RECOVERY HEATER	DEFROST HEATER	DEFROST HEATER	HUMIDITY HEATER	EMPOURATOR FAN 1	EMPOURATOR FAN 2	EMPOURATOR FAN 3	EMPOURATOR FAN 4	PRESSURE RELIEF VALVE HEATER	INTERIOR LIGHT (OPTIONAL)	WATER LEVEL SOLENOID	LIQUID LNK SOLENOID	OVEN CONTACT (OPTIONAL)	CRANKCASE HEATER						
4	CONDENSING UNIT	CONDENSING UNIT	CONDENSING UNIT	PROOF/RECOVERY HEATER	DEFROST HEATER	DEFROST HEATER	HUMIDITY HEATER	EMPOURATOR FAN 1	EMPOURATOR FAN 2	EMPOURATOR FAN 3	EMPOURATOR FAN 4	PRESSURE RELIEF VALVE HEATER	INTERIOR LIGHT (OPTIONAL)	WATER LEVEL SOLENOID	LIQUID LNK SOLENOID	OVEN CONTACT (OPTIONAL)	CRANKCASE HEATER						
5	CONDENSING UNIT	CONDENSING UNIT	CONDENSING UNIT	PROOF/RECOVERY HEATER	DEFROST HEATER	DEFROST HEATER	HUMIDITY HEATER	EMPOURATOR FAN 1	EMPOURATOR FAN 2	EMPOURATOR FAN 3	EMPOURATOR FAN 4	PRESSURE RELIEF VALVE HEATER	INTERIOR LIGHT (OPTIONAL)	WATER LEVEL SOLENOID	LIQUID LNK SOLENOID	OVEN CONTACT (OPTIONAL)	CRANKCASE HEATER						
6	CONDENSING UNIT	CONDENSING UNIT	CONDENSING UNIT	PROOF/RECOVERY HEATER	DEFROST HEATER	DEFROST HEATER	HUMIDITY HEATER	EMPOURATOR FAN 1	EMPOURATOR FAN 2	EMPOURATOR FAN 3	EMPOURATOR FAN 4	PRESSURE RELIEF VALVE HEATER	INTERIOR LIGHT (OPTIONAL)	WATER LEVEL SOLENOID	LIQUID LNK SOLENOID	OVEN CONTACT (OPTIONAL)	CRANKCASE HEATER						
7	CONDENSING UNIT	CONDENSING UNIT	CONDENSING UNIT	PROOF/RECOVERY HEATER	DEFROST HEATER	DEFROST HEATER	HUMIDITY HEATER	EMPOURATOR FAN 1	EMPOURATOR FAN 2	EMPOURATOR FAN 3	EMPOURATOR FAN 4	PRESSURE RELIEF VALVE HEATER	INTERIOR LIGHT (OPTIONAL)	WATER LEVEL SOLENOID	LIQUID LNK SOLENOID	OVEN CONTACT (OPTIONAL)	CRANKCASE HEATER						
8	CONDENSING UNIT	CONDENSING UNIT	CONDENSING UNIT	PROOF/RECOVERY HEATER	DEFROST HEATER	DEFROST HEATER	HUMIDITY HEATER	EMPOURATOR FAN 1	EMPOURATOR FAN 2	EMPOURATOR FAN 3	EMPOURATOR FAN 4	PRESSURE RELIEF VALVE HEATER	INTERIOR LIGHT (OPTIONAL)	WATER LEVEL SOLENOID	LIQUID LNK SOLENOID	OVEN CONTACT (OPTIONAL)	CRANKCASE HEATER						
9	CONDENSING UNIT	CONDENSING UNIT	CONDENSING UNIT	PROOF/RECOVERY HEATER	DEFROST HEATER	DEFROST HEATER	HUMIDITY HEATER	EMPOURATOR FAN 1	EMPOURATOR FAN 2	EMPOURATOR FAN 3	EMPOURATOR FAN 4	PRESSURE RELIEF VALVE HEATER	INTERIOR LIGHT (OPTIONAL)	WATER LEVEL SOLENOID	LIQUID LNK SOLENOID	OVEN CONTACT (OPTIONAL)	CRANKCASE HEATER						

NO.	REV.	DESCRIPTION	BY	DATE

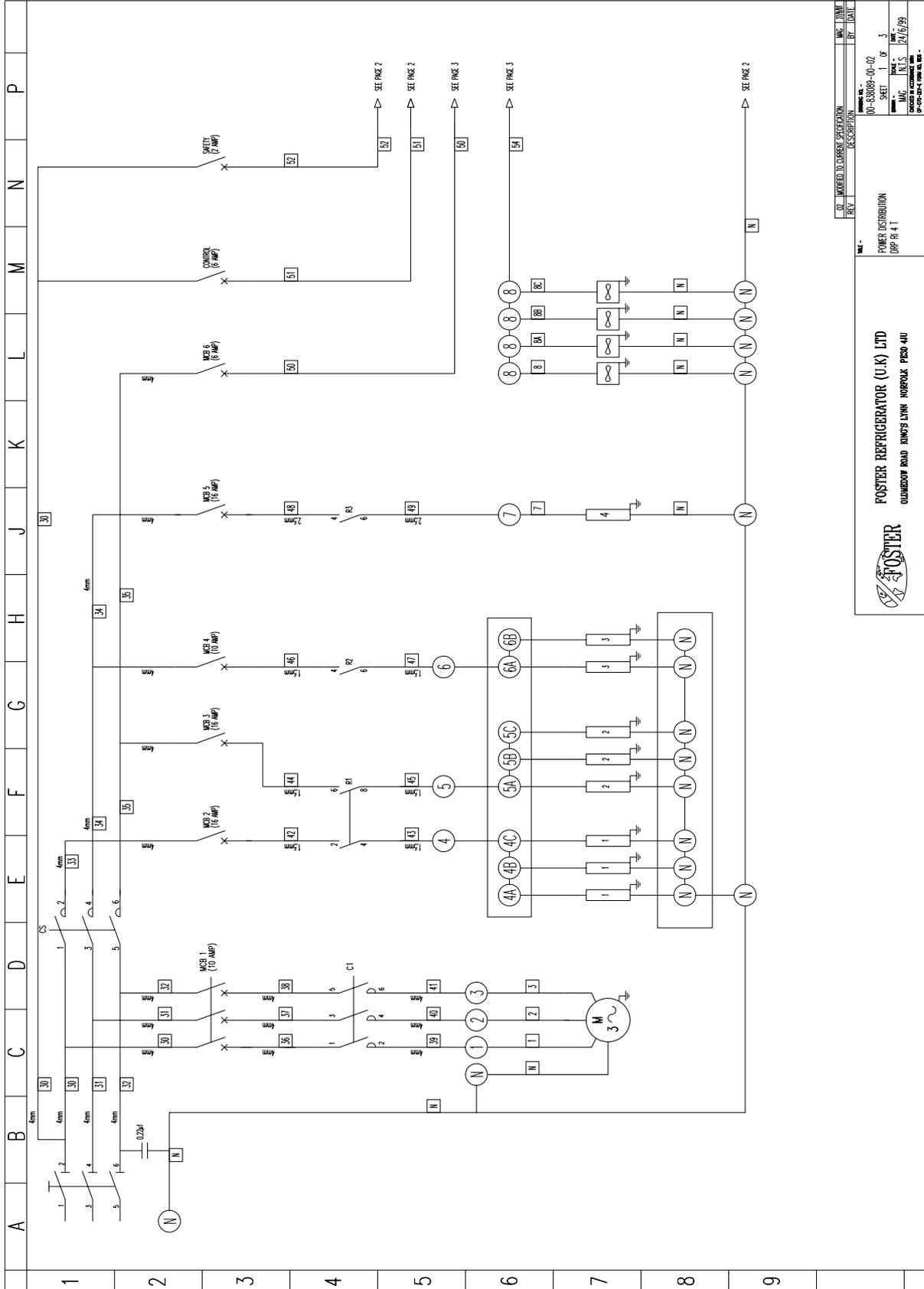
DRP RI 4 T

TERMINAL BLOCK LAYOUT AND GENERAL NOTES

FOSTER REFRIGERATOR (U.K) LTD
 OLDMANOR ROAD KING'S LYNN NORFOLK PE30 4UJ

Issue No. 00-53089-00-01
 SHEET 4 OF 4
 DATE 24/6/99
 CHECKED BY: [Signature]
 DRAWN BY: [Signature]

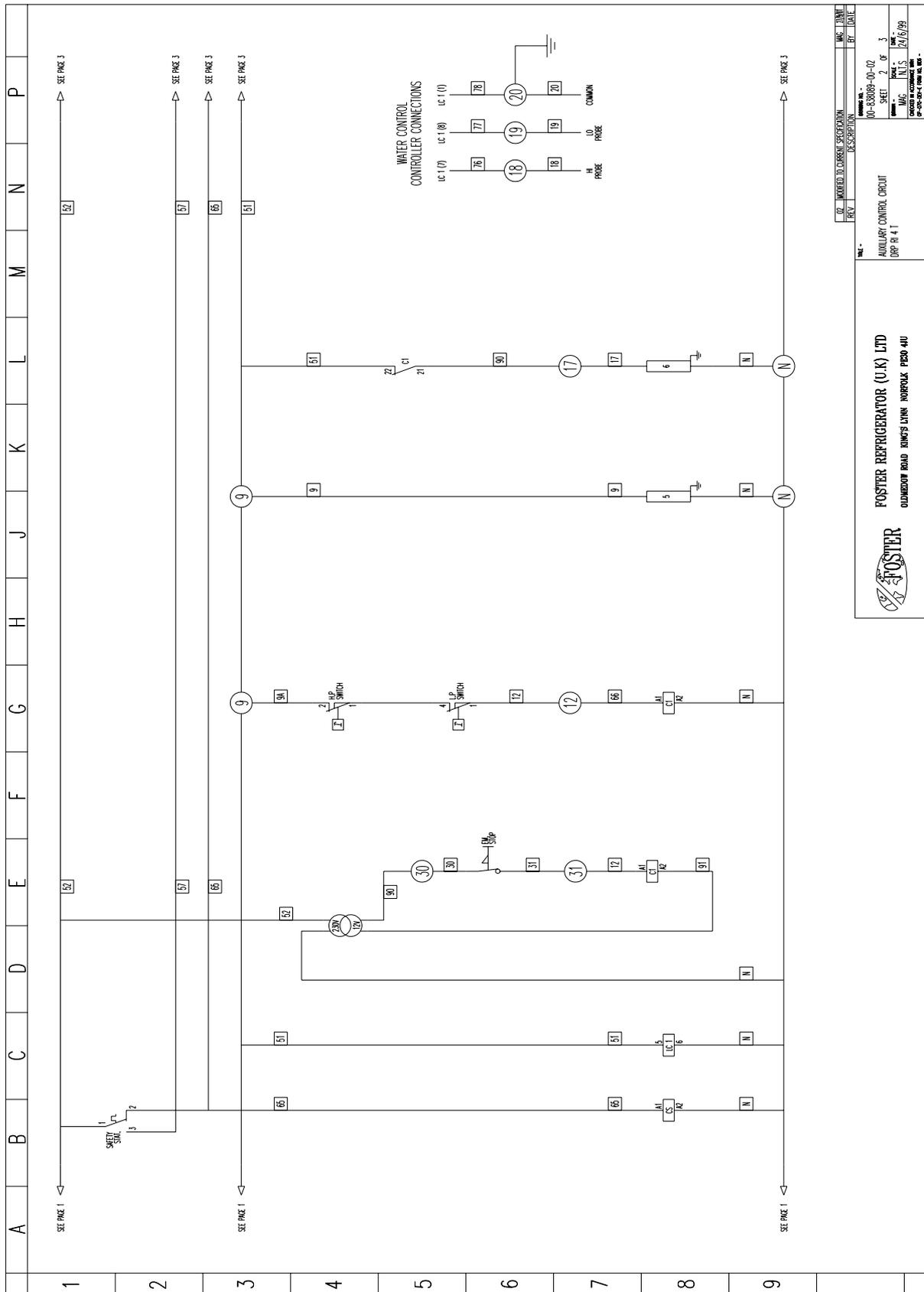
MODULAR PRODUCT DRP RI 4 T



REV.	NO.	DATE	DESCRIPTION
02	1	24/6/99	POWER DISTRIBUTION DRP RI 4 T

FOSTER REFRIGERATOR (U.K.) LTD
 OUDAMWOOD ROAD HUNTS LYNN NORFOLK PE30 4UJ

MODULAR PRODUCT
DRP RI 4 T

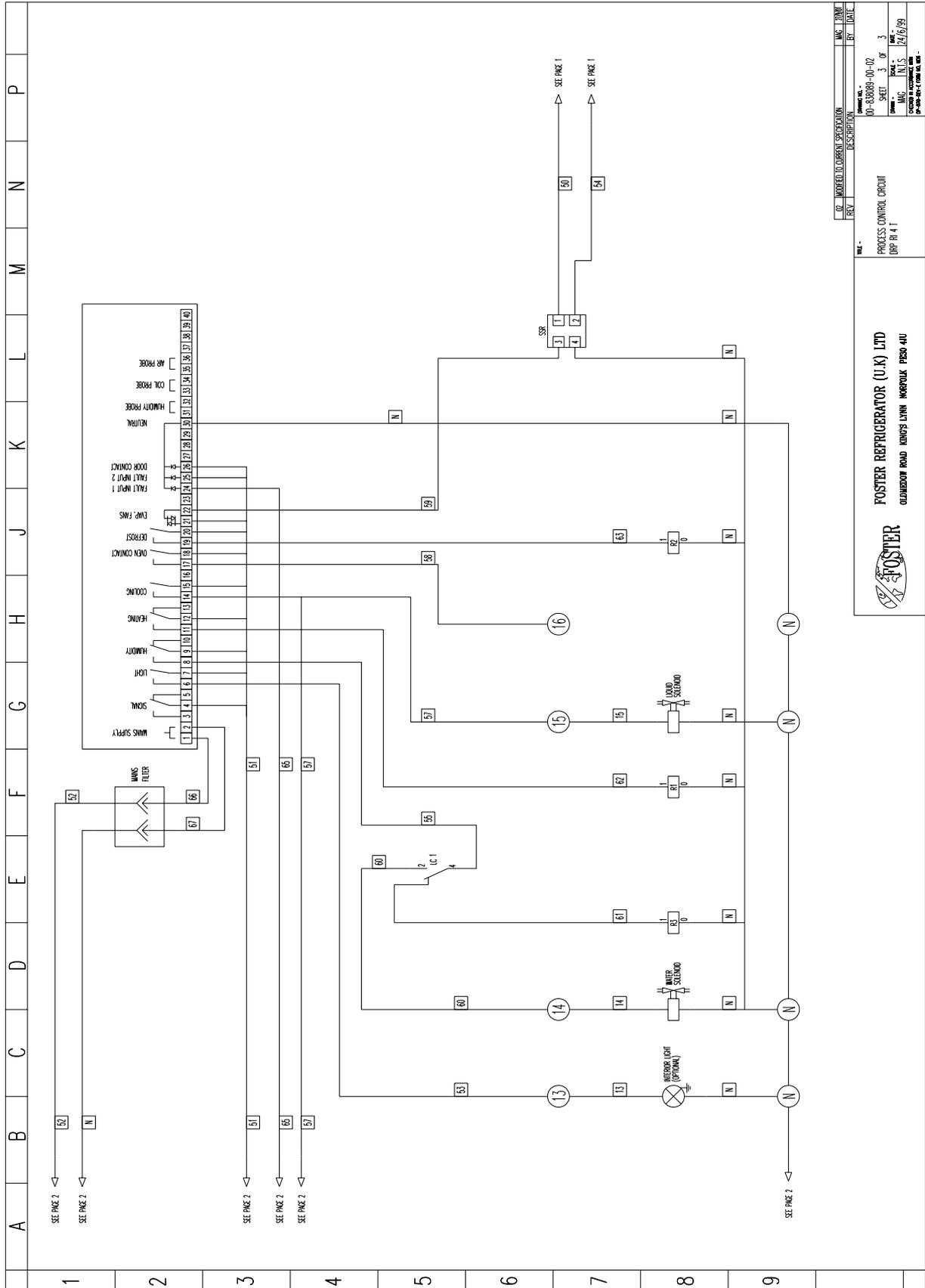


REV	DESCRIPTION	DATE
02	MODIFIED TO CORRECT SPECIFICATION	

DRAWING NO. 00-53089-00-02
 SHEET 2 OF 3
 DATE 11/5/2016/99
 CHECKED BY [Signature]
 P-10-100 (FORM 100)

FOSTER
 FOSTER REFRIGERATOR (U.K) LTD
 OUDAMWOOD ROAD HUNTS LYNN NORFOLK PE30 4HU

MODULAR PRODUCT
DRP RI 4 T

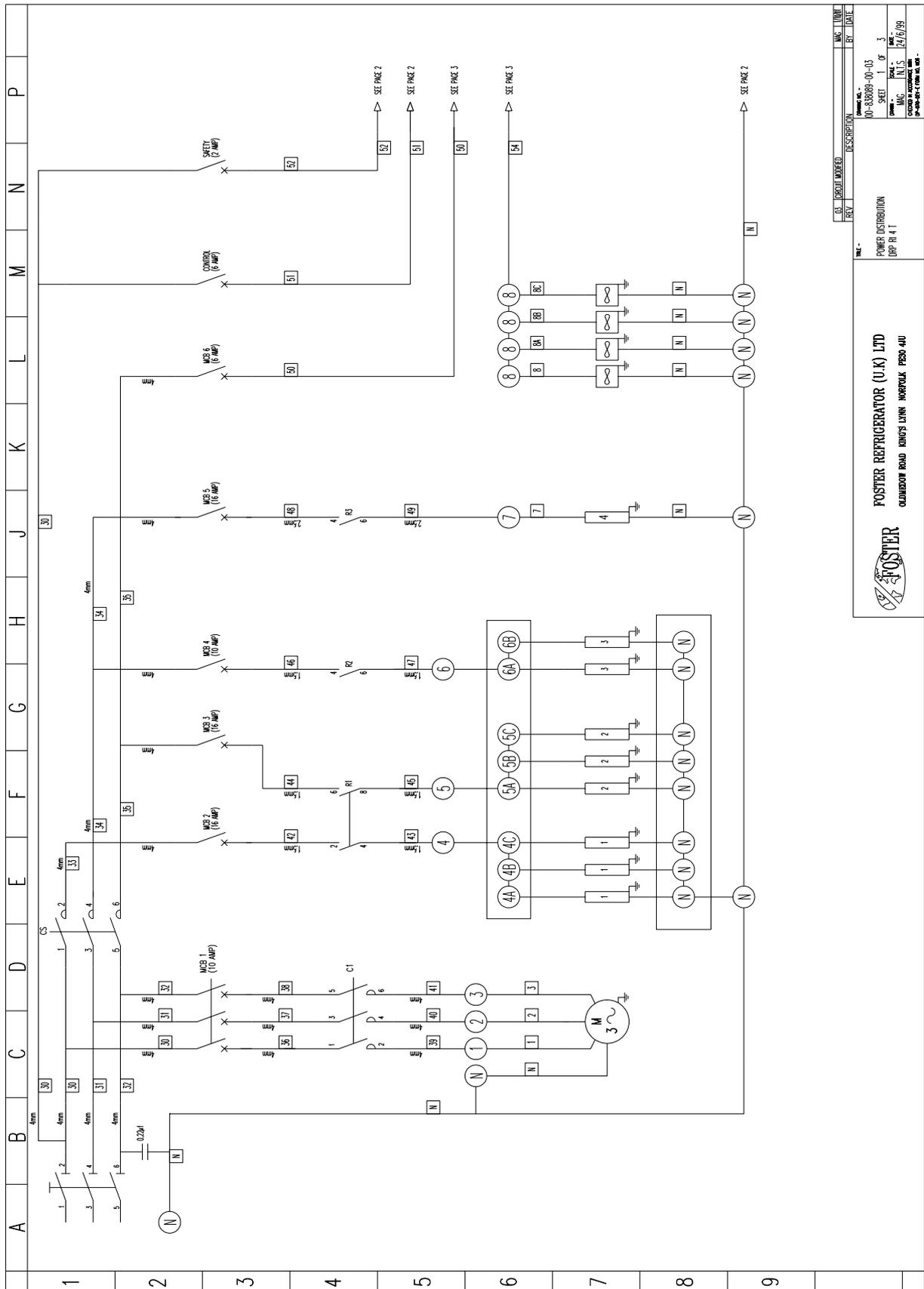


REV	DESCRIPTION	DATE
02	MODIFIED TO CORRECT SPECIFICATION	24/6/99

PROCESS CONTROL CIRCUIT
DRP RI 4 T

FOSTER REFRIGERATOR (U.K) LTD
OJLIMBOUR ROAD, KING'S LYNN, NORFOLK, PE30 4U

MODULAR PRODUCT DRP RI 4 T

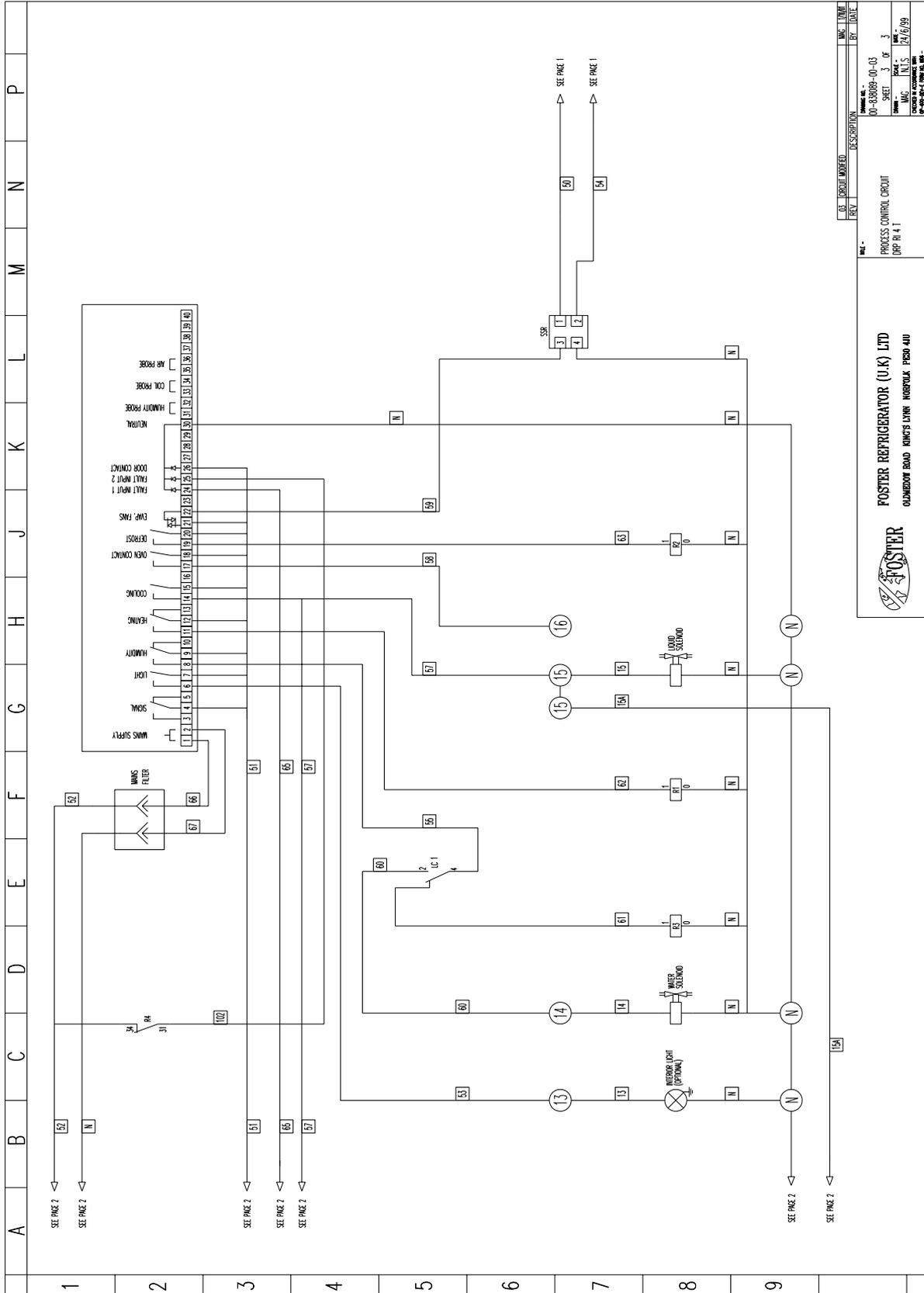


REV	DESCRIPTION	DATE	BY	CHKD
01	POWER DISTRIBUTION DRP RI 4 T	04.08.2009	01	03
02				
03				

FOSTER REFRIGERATOR (U.K) LTD
 OULINGHAM ROAD KING'S LYNN NORFOLK PE30 4JU



MODULAR PRODUCT
DRP RI 4 T



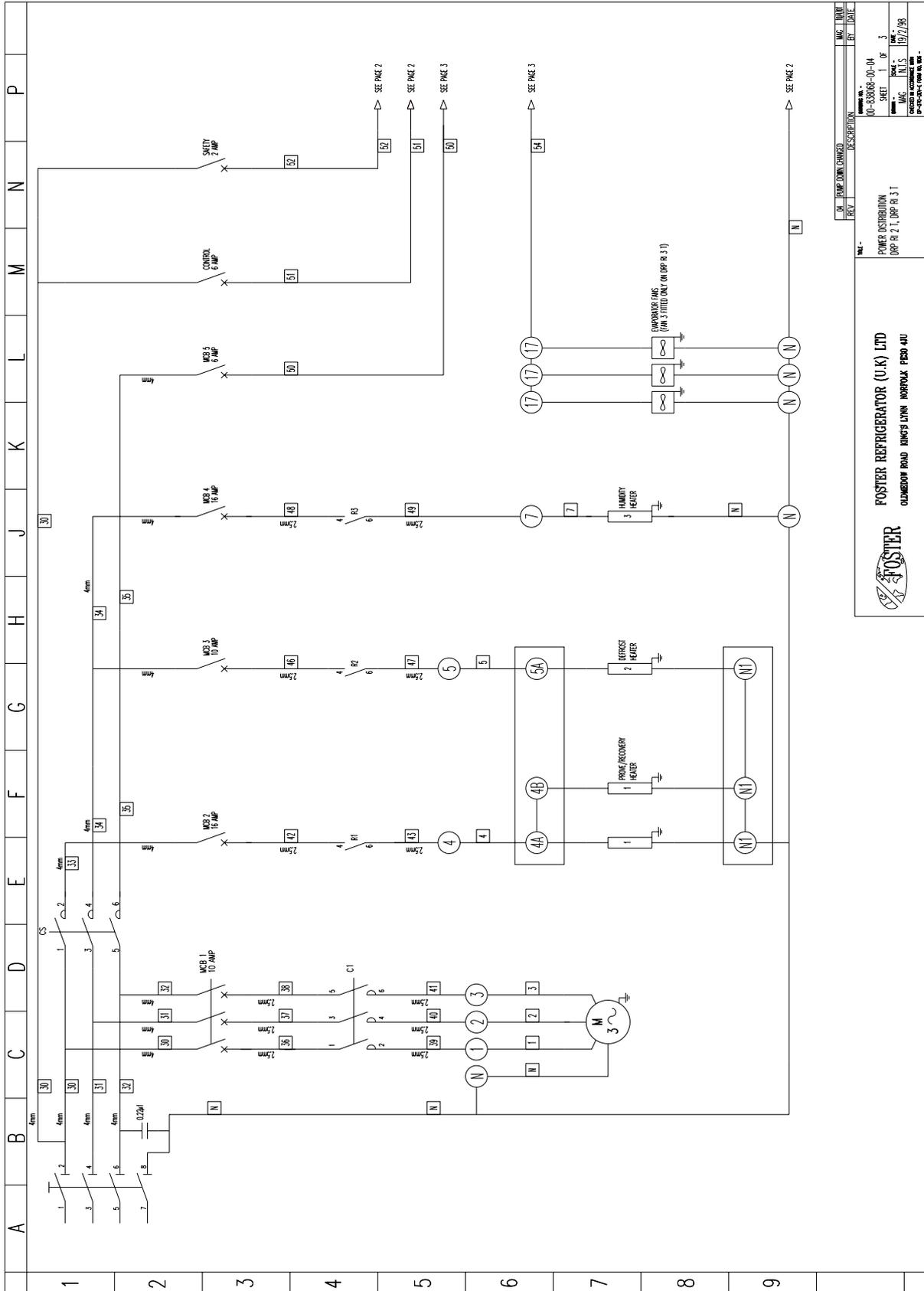
REV	DESCRIPTION	DATE
1	ISSUE	

DRAWING NO. 00-33089-00-03
 SHEET 3 OF 3
 DRAWING DATE 11/15/09
 CHECKED BY ACCOUNTS 1001
 © 2009 FOSTER REFRIG. CO.

FOSTER REFRIGERATOR (U.K) LTD
 OLDFORD ROAD, RAMSLEY, HERTS, SG8 4UJ



MODULAR PRODUCT
DRP RI 4 T

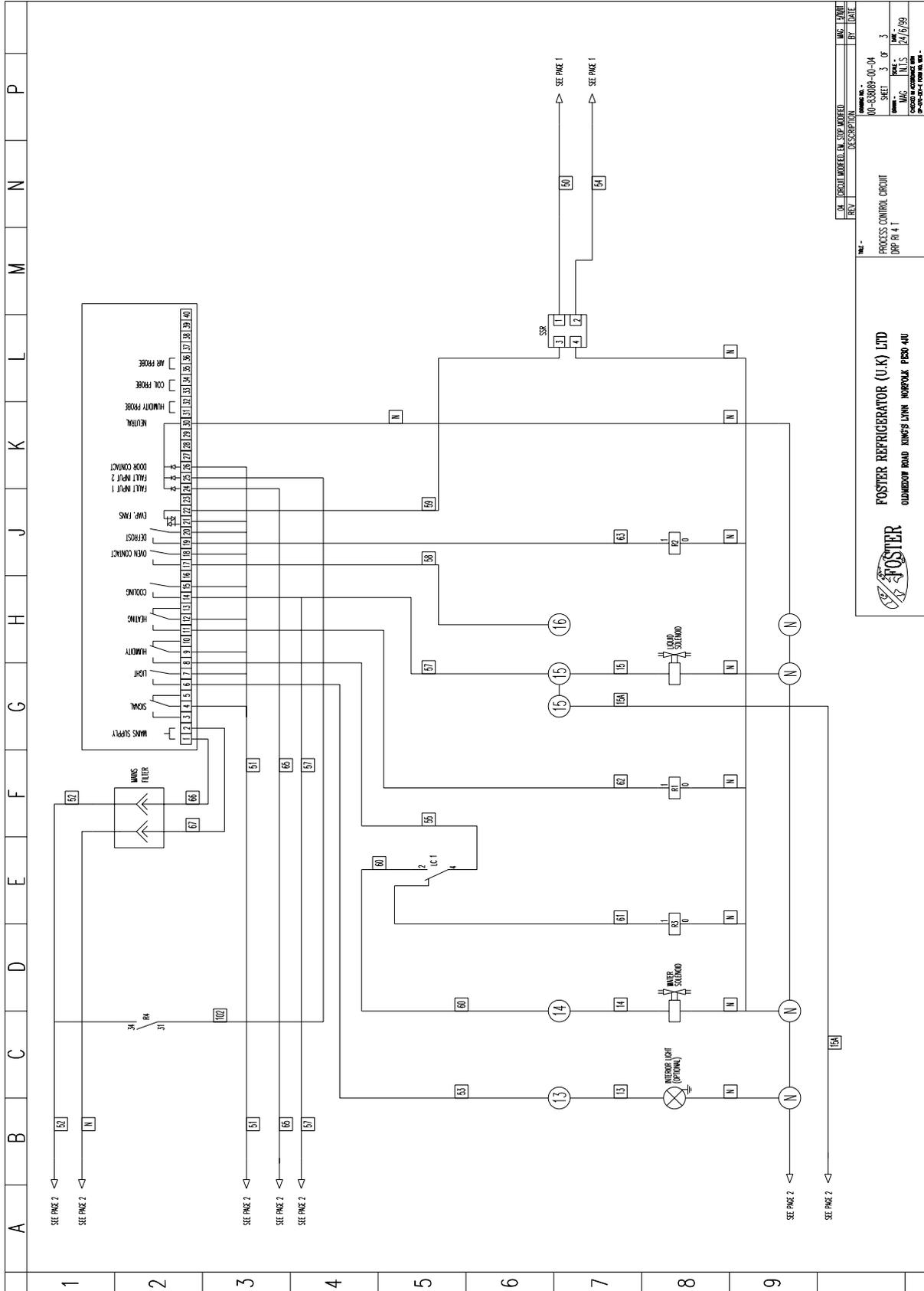


REV.	DATE	DESCRIPTION
1	19/7/99	POWER DISTRIBUTION DRP RI 4 T, DRP RI 3 T
2		
3		

DRAWING NO. 00-53088-00-04
 SHEET 1 OF 3
 DATE 11/5
 CHECKED BY
 DRAWN BY

FOSTER REFRIGERATOR (U.K.) LTD
 QUADROW ROAD HUNTS LYNN NORWICH PE30 4AU

MODULAR PRODUCT
DRP RI 4 T

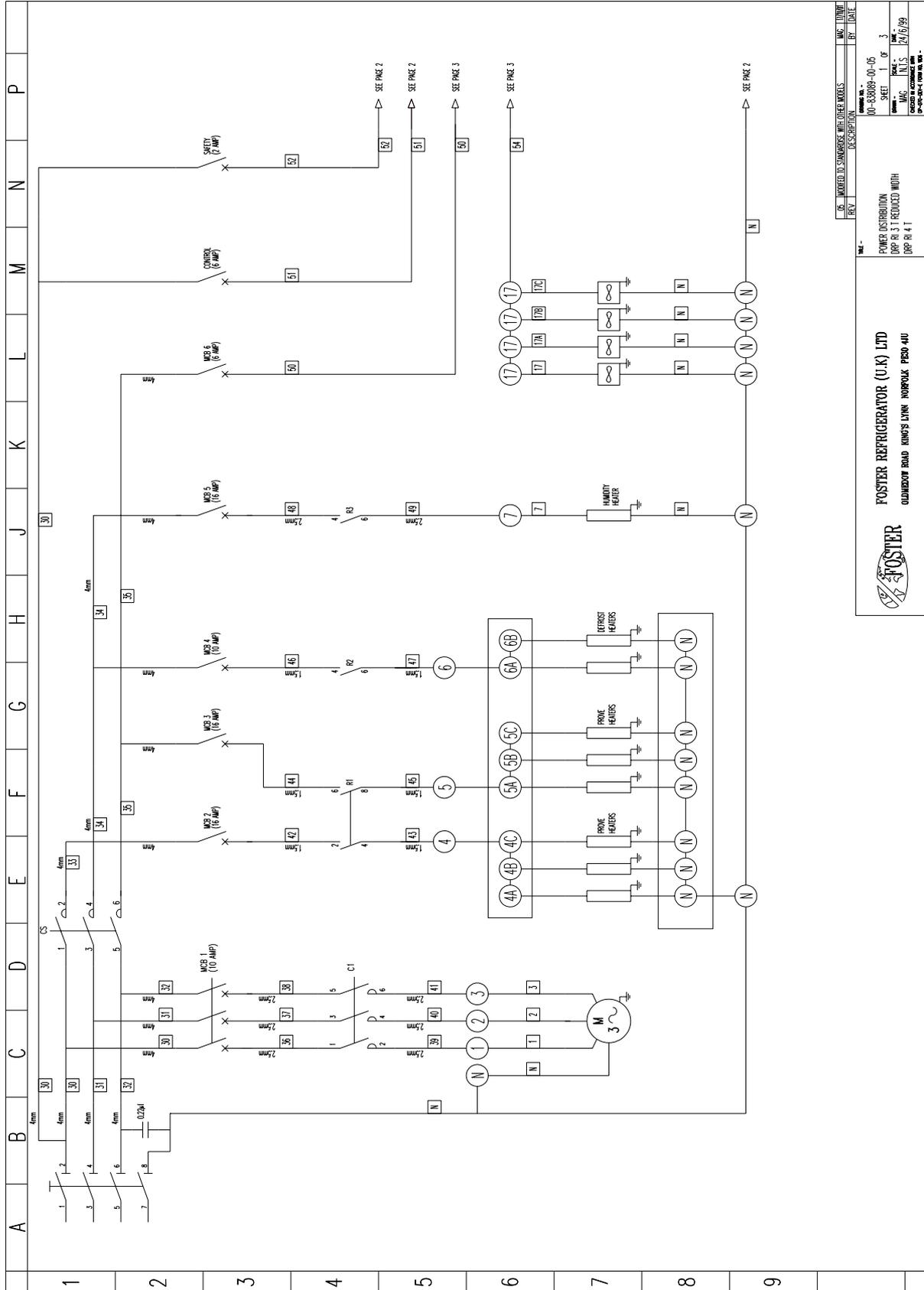


REV.	DESCRIPTION	DATE
1	DRP RI 4 T	24/6/09

PROCESS CONTROL CIRCUIT
DRP RI 4 T

FOSTER
FOSTER REFRIGERATOR (U.K.) LTD
OLDHAM ROAD, HUNTS LYNN, NORWICH, PE20 4AU

MODULAR PRODUCT
DRP RI 4 T



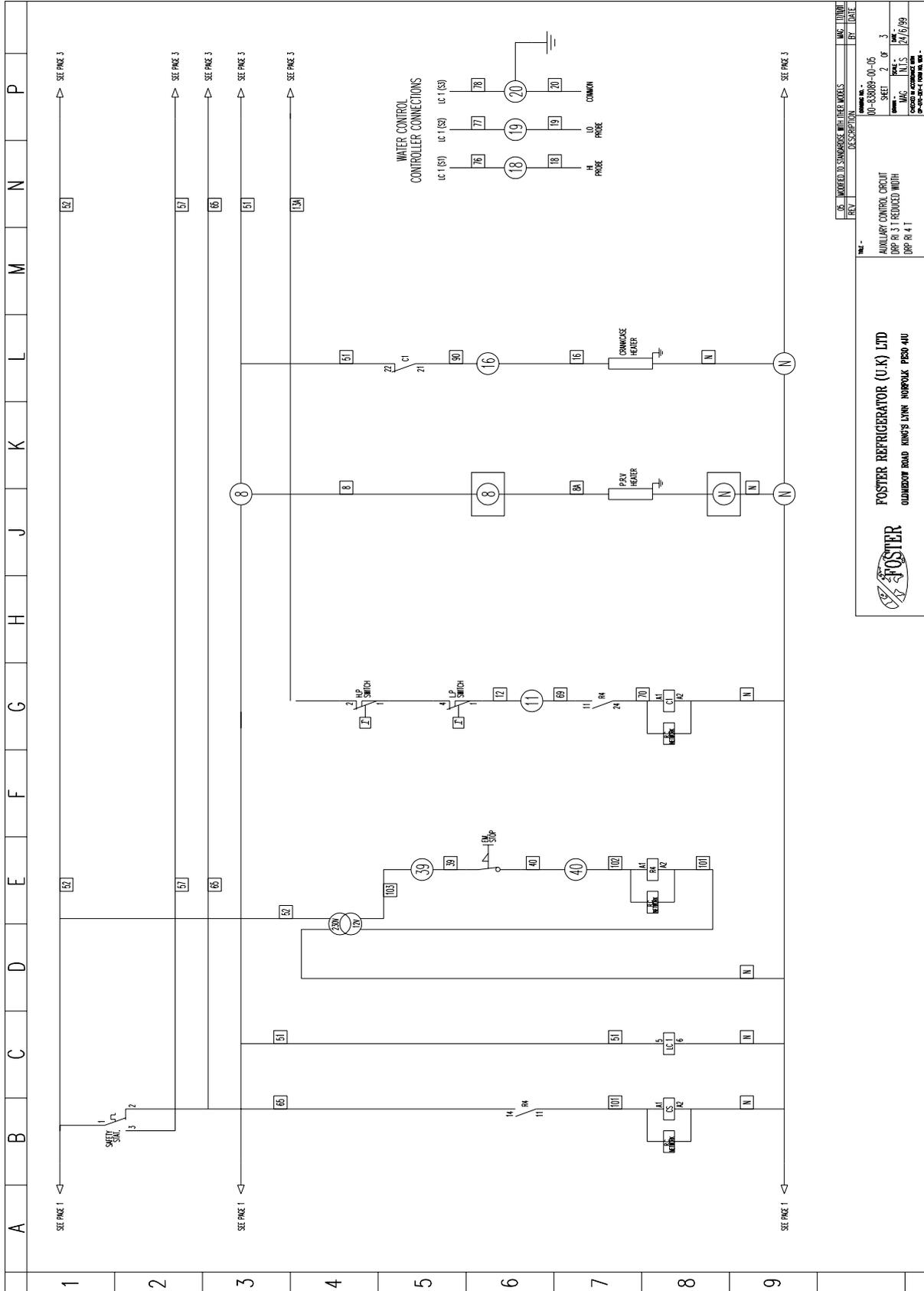
REV.	DESCRIPTION	DATE
06	WORKED TO STANDARDS WITH OTHER WORKS	

01-83089-00-05	REV. 3

POWER DISTRIBUTION
DRP RI 3 T REDUCED WIDTH
DRP RI 4 T

FOSTER REFRIGERATOR (U.K.) LTD
GUDMANS ROAD HUNTS LYNN NORFOLK PE30 4UJ

MODULAR PRODUCT
DRP RI 4 T



REV.	DESCRIPTION	DATE
05	WORKED TO STANDARD WIRE TABLES	

MODEL -
 AUXILIARY CONTROL CIRCUIT
 DRP RI 3 T REDUCED WIDTH
 DRP RI 4 T
 FOSTER
 FOSTER REFRIGERATOR (U.K.) LTD
 GUDENHOV ROAD HUNTS LYNN NORFOLK PE20 4UJ

REV.	DESCRIPTION	DATE
01	01-83089-00-05	
02	SHEET 2 OF 3	
03	DATE: 24/6/99	

SPARES LIST

GLOSSARY

BAKE DAY	The day on which the product is required baking.
BAKE TIME	The time on the bake day at which the product is required for baking.
DOWN ARROW	The operator button on the controller facia used to adjust parameters.
FAST CHILL	The time at the start of a cycle during which the temperature of the chamber is lowered quickly to a lower temperature than that of storage.
LIGHT SWITCH	Operator button used to switch on the interior light (where fitted)
MACHINE PARAMETERS	Parameter set containing settings common to all programmes.
OPERATING PARAMETERS	The operating programme parameters sets. Used to run the automatic cycles.
PROVE	The period following recovery where the temperature of the chamber is increased linearly to the prove temperature.
RECOVERY	The period following storage during which the chamber temperature is increased linearly from storage temperature to recovery temperature.
START BUTTON	Operator button on the controller facia used to start and select the automatic programme.
STOP BUTTON	Operator button used to halt the cycle currently operating.
STORAGE	The time prior to recovery commencing.
THE CHAMBER	The inside of the machine which is controlled in temperature.
UP ARROW	The operator button on the controller facia used to adjust parameters.