



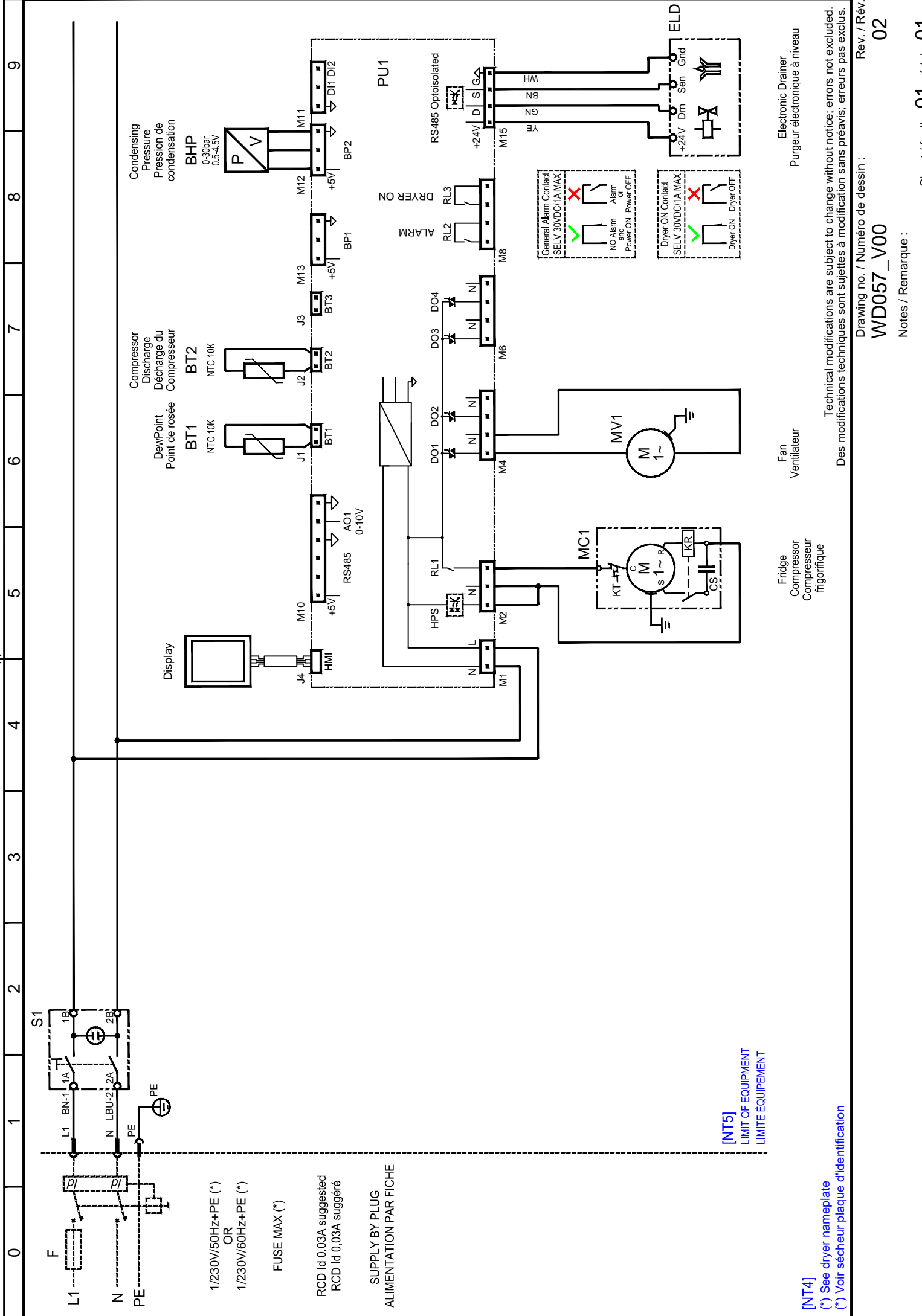
Electrical diagrams

Compressed air refrigeration dryer DRYPOINT® RA III

- | | |
|-------|----------|
| > 20 | > 370 |
| > 35 | > 490 |
| > 50 | > 630 |
| > 70 | > 750 |
| > 110 | > 750 WC |
| > 135 | > 870 |
| > 190 | > 870 WC |
| > 240 | > 960 |
| > 330 | > 960 WC |

Electrical diagrams

DRYPOINT® RA III	Electrical diagram
20 – 110	WD057_V00_R02
135 – 240	WD059_V00_R02
330 @50Hz	WD059_V50_R02
330 @60Hz	WD059_V00_R02
370 @50Hz	WD060_V50_R01
370 @60Hz	WD060_V00_R01
490 – 960 @50Hz	WD061_V50_R01
490 – 960 @60Hz	WD061_V00_R01
370 – 490 3ph	90BKG490CEP00_R01
630 3ph	90BKG630CEP00_R01
750 – 960 3ph	90BKG960CEP00_R01



1/230V/50Hz+PE (*)
OR
1/230V/60Hz+PE (*)
FUSE MAX (*)

RCD Id 0.03A suggested
RCD Id 0,03A sugg  r  

SUPPLY BY PLUG
ALIMENTATION PAR FICHE

[NT5]
LIMIT OF EQUIPMENT
LIMITE   QUIPEMENT

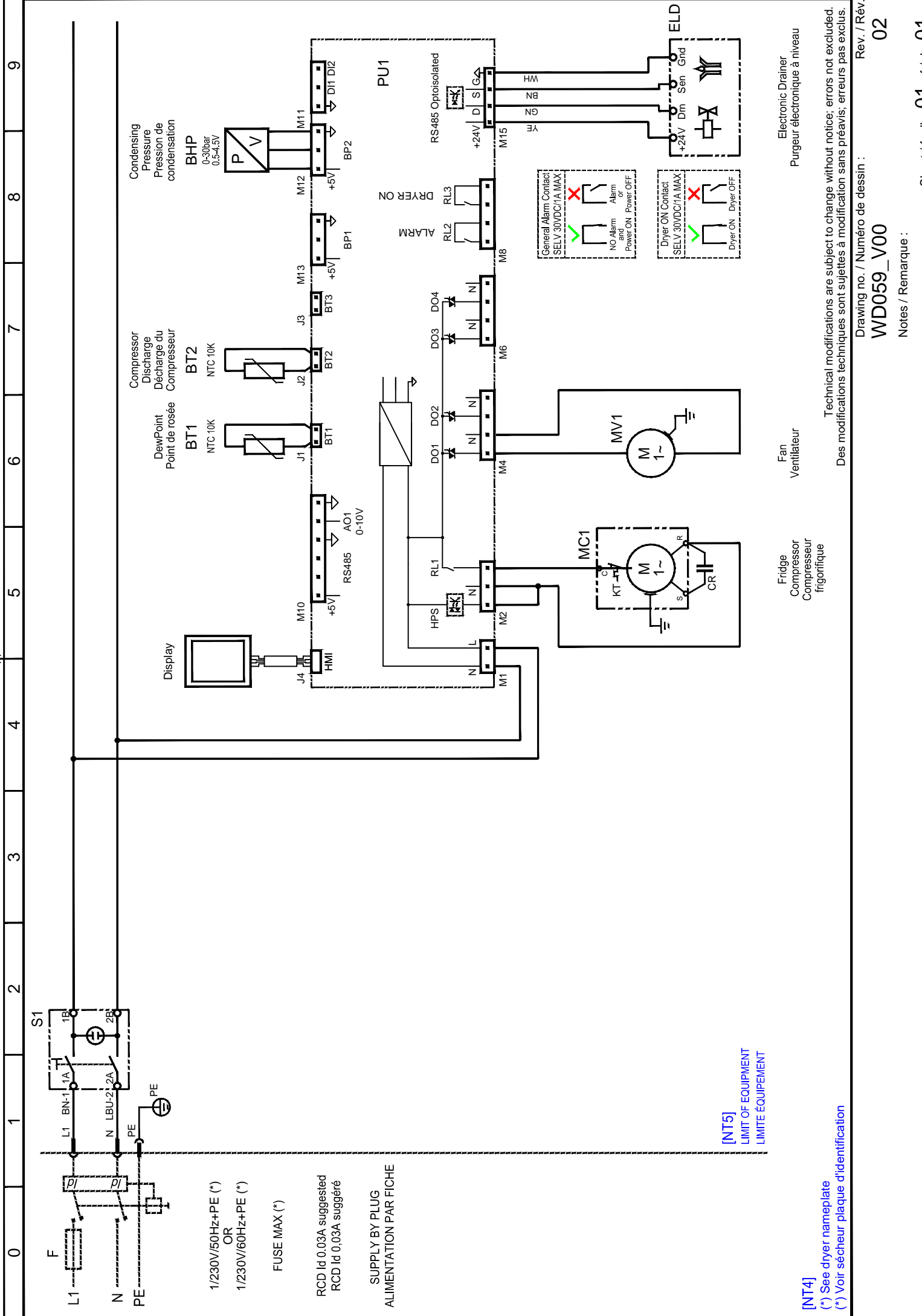
Fridge
Compressor
Compresseur
frigorifique

Fan
Ventilateur

Electronic Drainer
Purgeur   lectronique    niveau

[NT4]
(*) See dryer nameplate
(*) Voir s  cheur plaque d'identification

Technical modifications are subject to change without notice; errors not excluded.
Des modifications techniques sont sujettes    modification sans pr  avis; erreurs pas exclus.



0 1 2 3 4 5 6 7 8 9

[NT5]
LIMIT OF EQUIPMENT
LIMITE ÉQUIPEMENT

[NT4]

(*) See dryer nameplate
(**) Voir sécheur plaque d'identification

Fridge
Compressor
Compresseur
frigorifique

Fan
Ventilateur

Electronic Drainer
Purgeur électronique à niveau

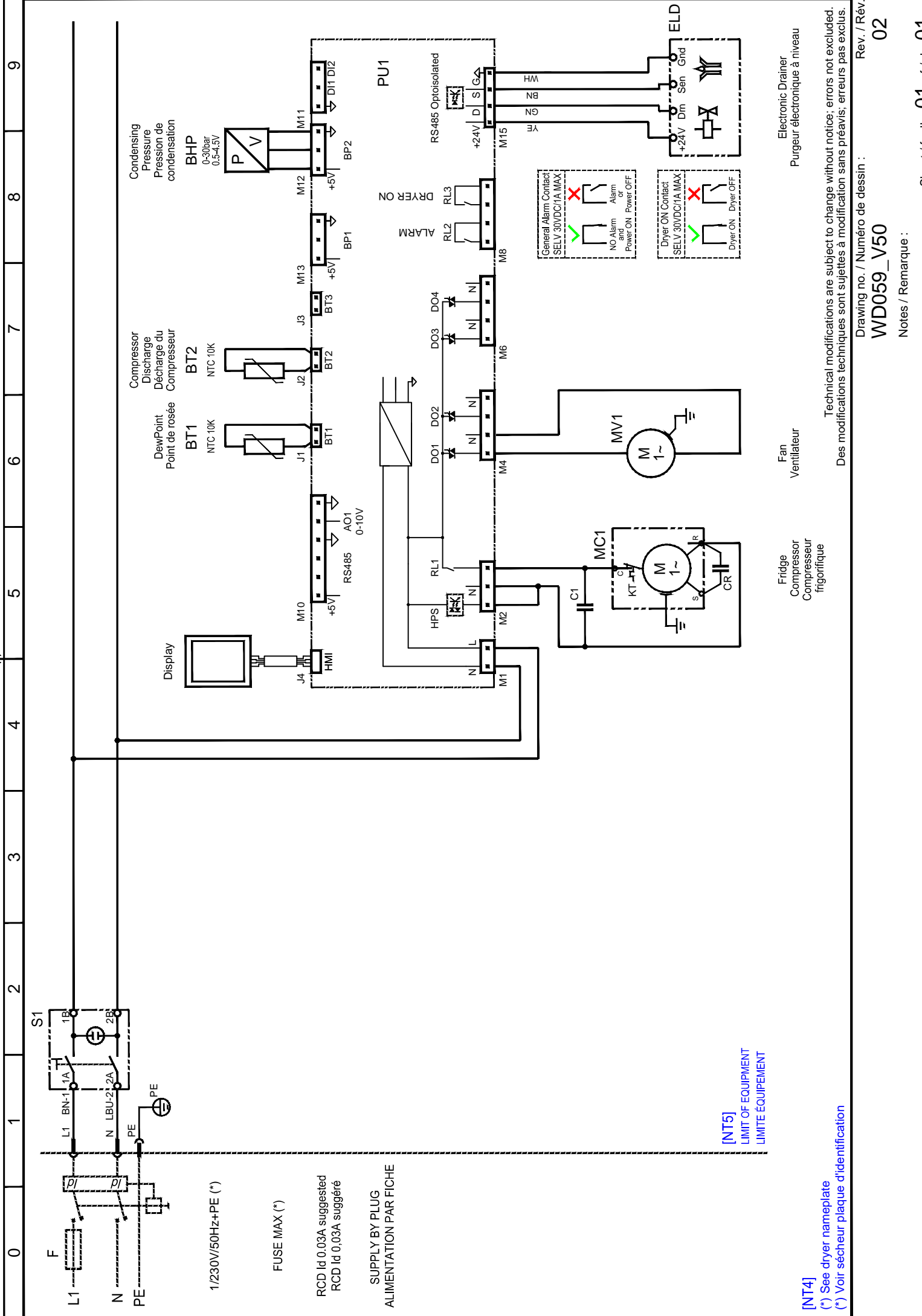
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Des modifications techniques sont sujettes à modification sans préavis; erreurs pas exclus.

Drawing no. / Numéro de dessin : WD059_V00

Rev. / Rév. 02

Notes / Remarque :

Sheet / feuille 01 of / de 01



1/230V/50Hz+PE (*)
 FUSE MAX (*)
 RCD Id 0.03A suggested
 RCD Id 0,03A suggéré

SUPPLY BY PLUG
 ALIMENTATION PAR FICHE

[NT5]
 LIMIT OF EQUIPMENT
 LIMITE ÉQUIPEMENT

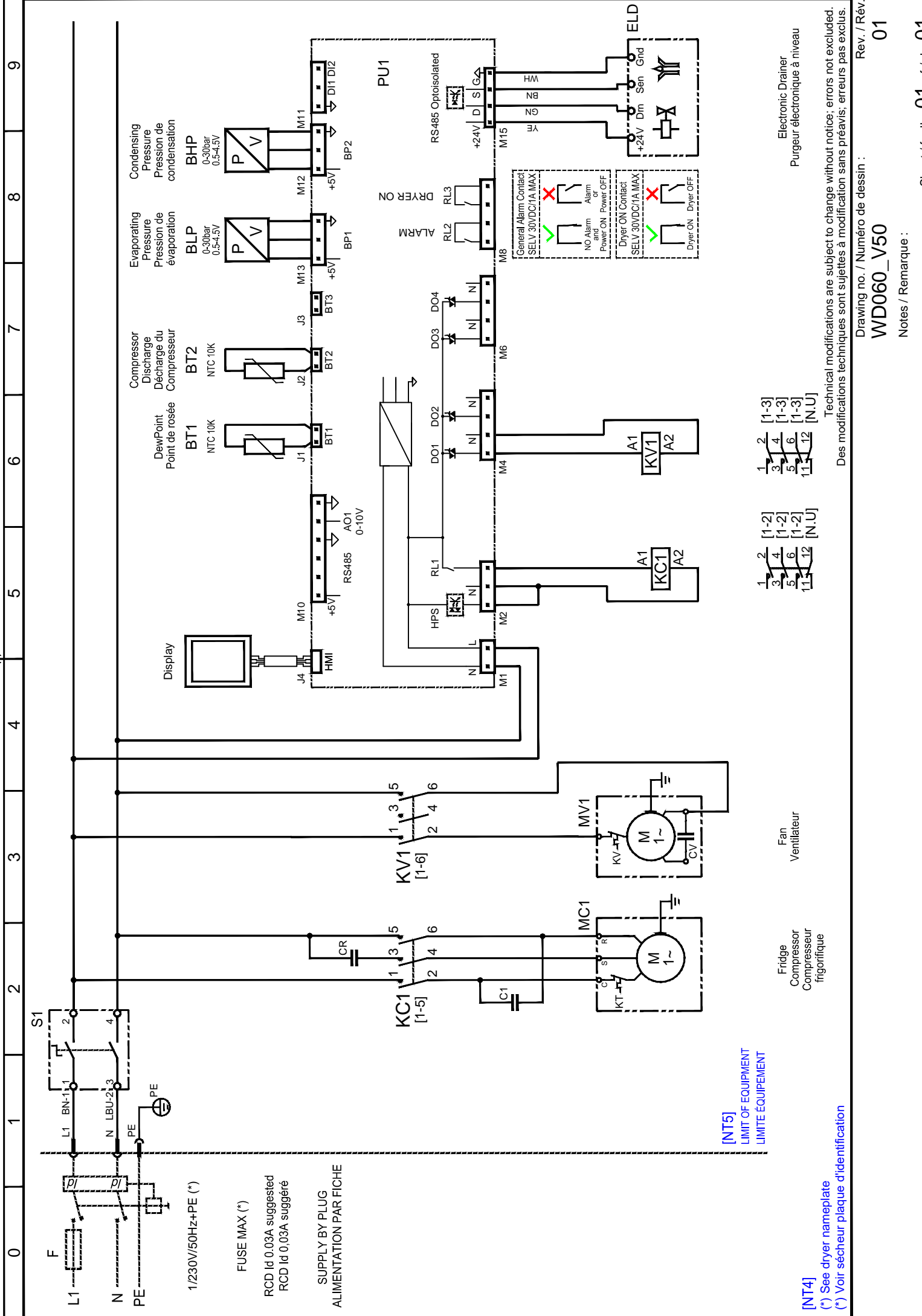
Fridge
 Compresseur
 frigorifique

Fan
 Ventilateur

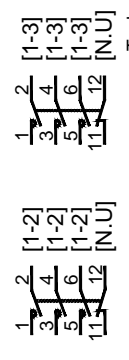
Electronic Drainer
 Purgeur électronique à niveau

[NT4]
 (*) See dryer nameplate
 (*) Voir sécheur plaque d'identification

Technical modifications are subject to change without notice; errors not excluded.
 Des modifications techniques sont sujettes à modification sans préavis; erreurs pas exclus.



0 1 2 3 4 5 6 7 8 9



Electronic Drainer
Purgeur électronique à niveau

Fan
Ventilateur

Fridge
Compresseur
frigorifique

[NT5]
LIMIT OF EQUIPMENT
LIMITE ÉQUIPEMENT

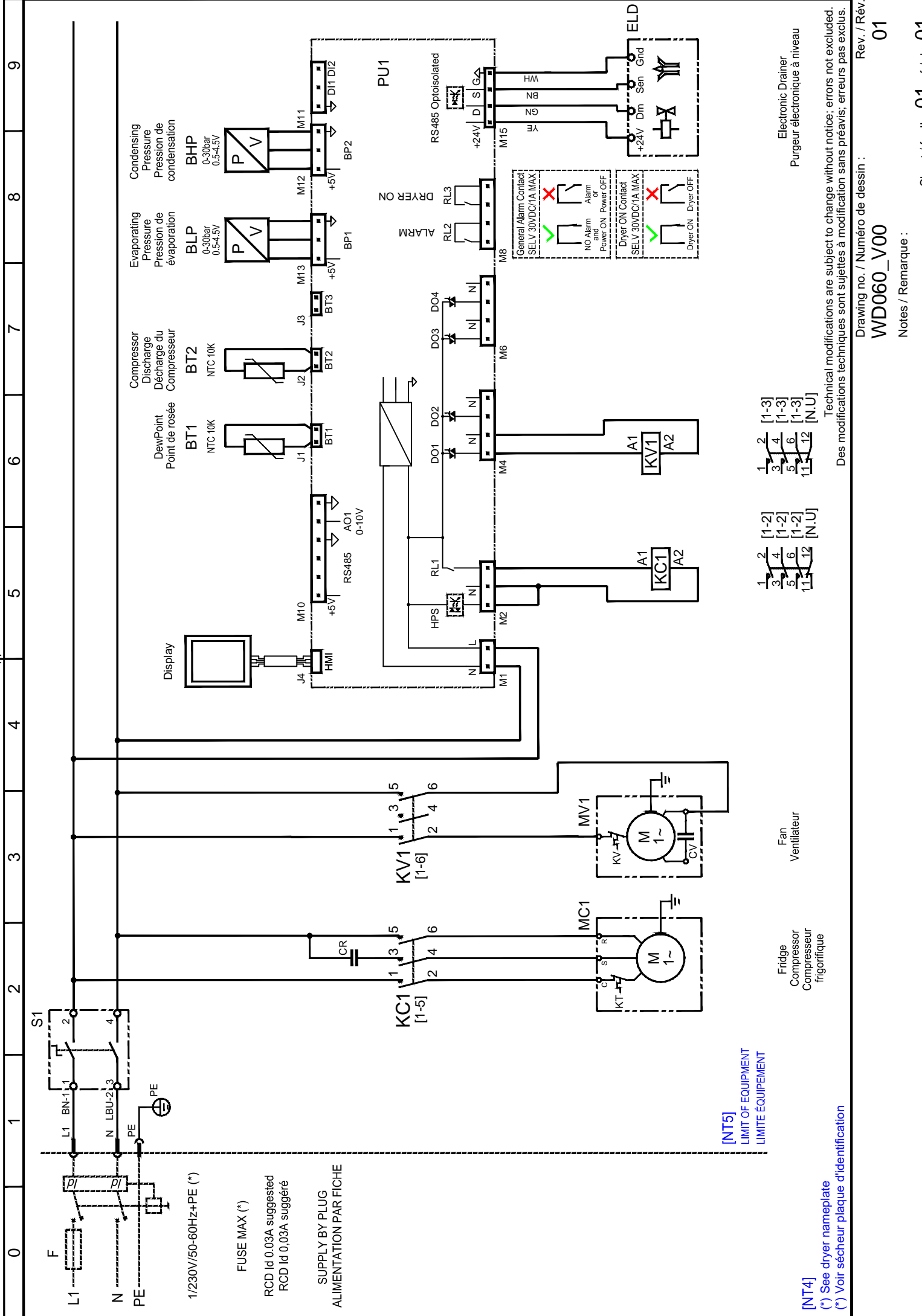
[NT4]
(*) See dryer nameplate
(*) Voir sécheur plaque d'identification

Technical modifications are subject to change without notice; errors not excluded.
Des modifications techniques sont sujettes à modification sans préavis; erreurs pas exclus.

Drawing no. / Numéro de dessin :
WD060_V50

Rev. / Rév. :
01

Notes / Remarque :
Sheet / feuille 01 of / de 01



0 1 2 3 4 5 6 7 8 9

Condensing
Pressure
Pression de
condensation

BHP
0-30bar
0,5-4,5V

Evaporating
Pressure
Pression de
évaporation

BLP
0-30bar
0,5-4,5V

Compressor
Discharge
Décharge du
Compresseur

BT2
NTC 10K

DewPoint
Point de rosée

BT1
NTC 10K

Display

PU1

ALARM

DRYER ON

Electronic Drainer
Purgeur électronique à niveau

Fan
Ventilateur

Fridge
Compressor
Compresseur
frigorifique

General Alarm Contact
SELV 30VDC/1A MAX

NO Alarm
Power ON Power OFF

Dryer ON Contact
SELV 30VDC/1A MAX

Dryer ON Dryer OFF

[NT5]
LIMIT OF EQUIPMENT
LIMITE ÉQUIPEMENT

[NT4]
(*) See dryer nameplate
(*) Voir sécheur plaque d'identification

FUSE MAX (*)
RCD Id 0.03A suggested
RCD Id 0.03A suggéré

SUPPLY BY PLUG
ALIMENTATION PAR FICHE

1/230V/50-60Hz+PE (*)

1 2 3 4 5 6 11 12

1 2 3 4 5 6 11 12

1 2 3 4 5 6 11 12

1 2 3 4 5 6 11 12

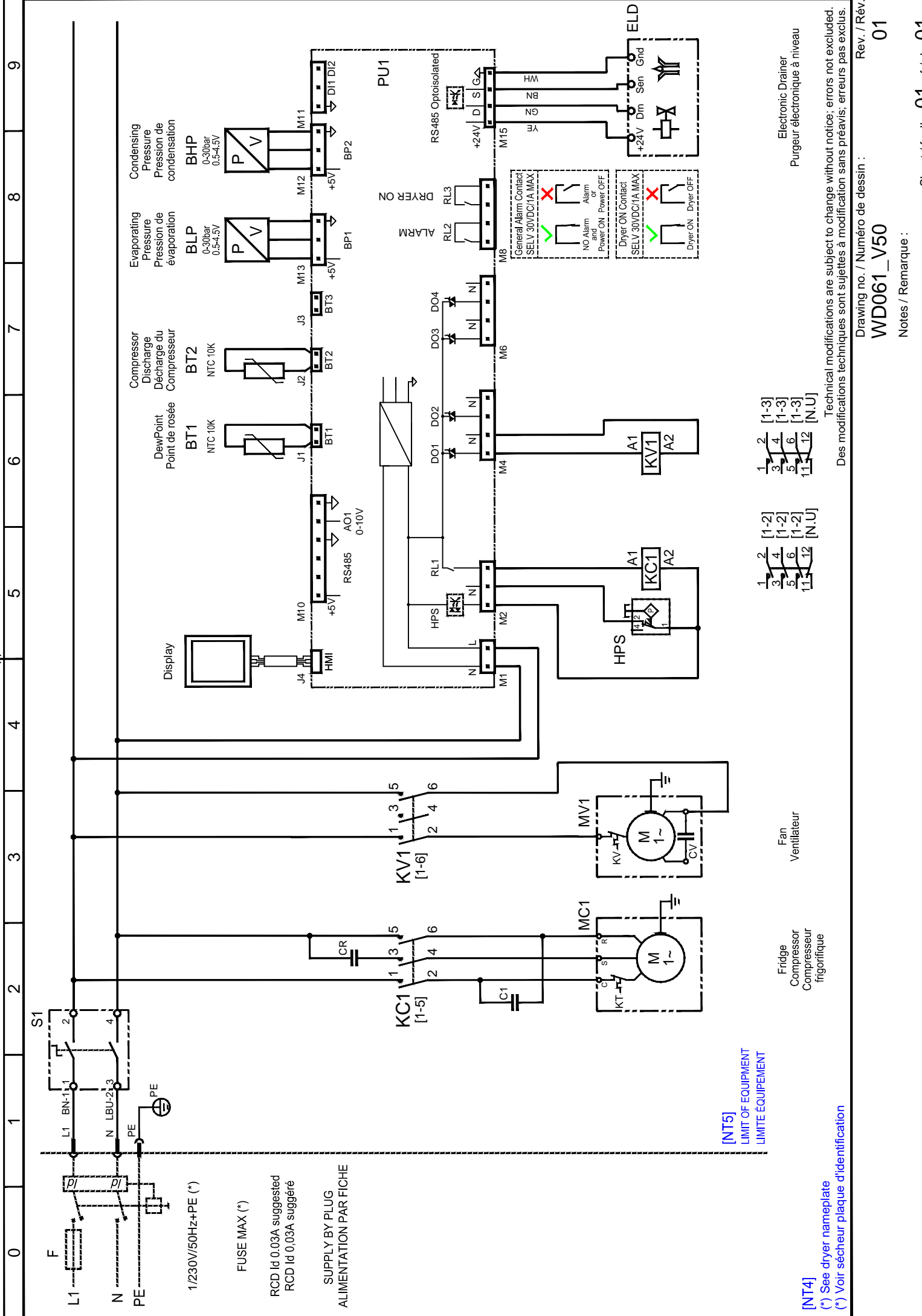
1 2 3 4 5 6 11 12

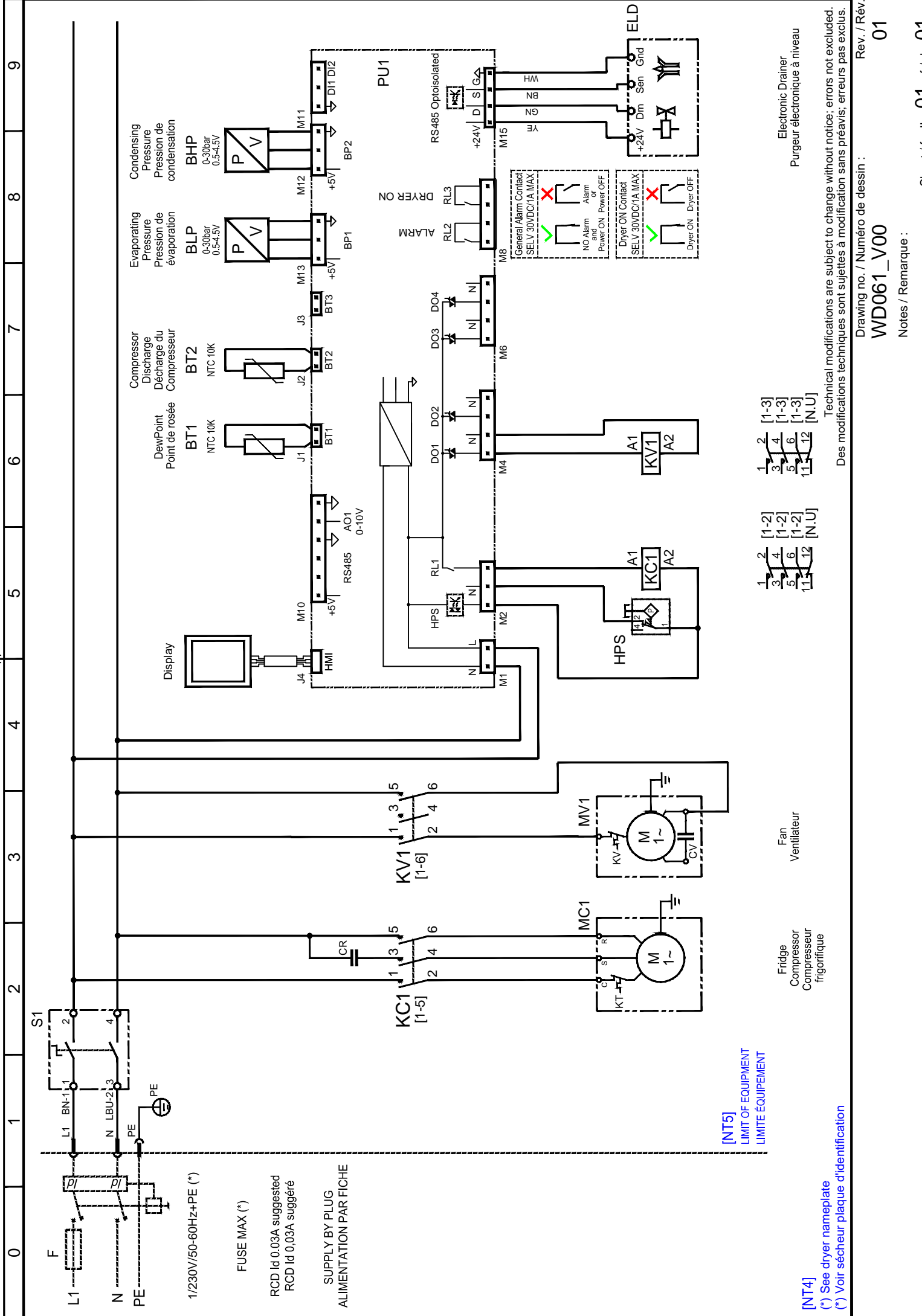
1 2 3 4 5 6 11 12

1 2 3 4 5 6 11 12

1 2 3 4 5 6 11 12

1 2 3 4 5 6 11 12





Condensing
Pressure
Pression de
condensation

Evaporating
Pressure
Pression de
évaporation

Compressor
Discharge
Décharge du
Compresseur

DewPoint
Point de rosée

Display

RS485 AO1
0-10V

PU1

RS485 Optoisolated

Electronic Drainer
Purgeur électronique à niveau

BHP
0-30bar
0,5-4,5V

BLP
0-30bar
0,5-4,5V

BT2
NTC 10K

BT1
NTC 10K

M10
+5V

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
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M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

M13
+5V

M8
ALARM

M6
DO1 DO2

M4
DO3 DO4

M1
N

M2
N

M15
+24V Dm Sen Gnd

M12
+5V

M11
BP2

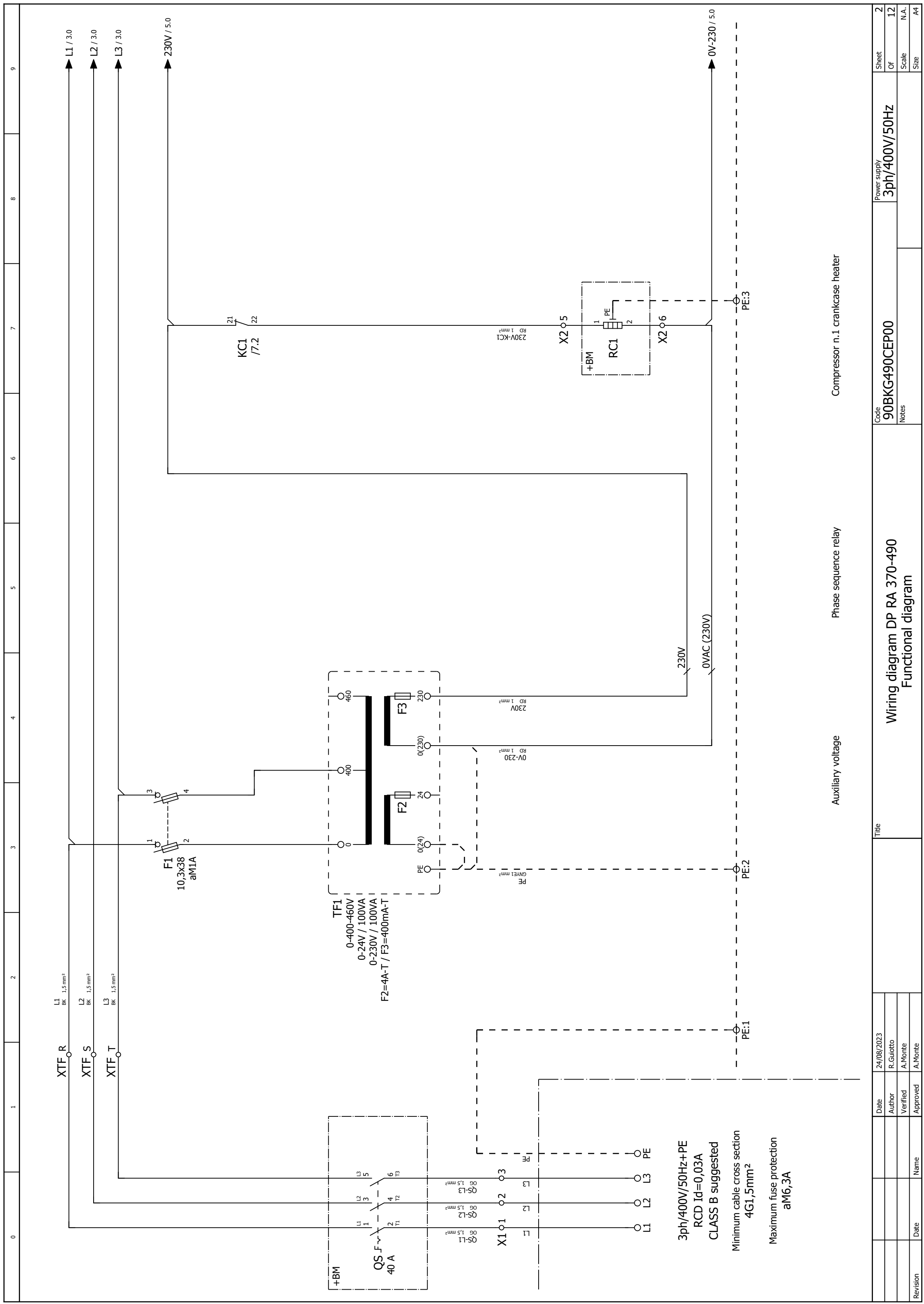
M13
+5V

M8
ALARM

M6
DO1 DO2

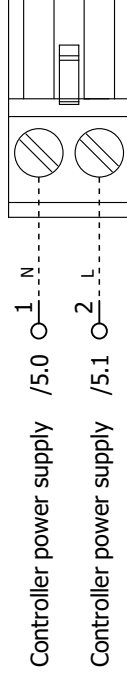


Project description	Wiring diagram DP RA 370-490
Power supply	3ph/400V/50Hz
Job number	90BKG490CEP00
Revision	REV01

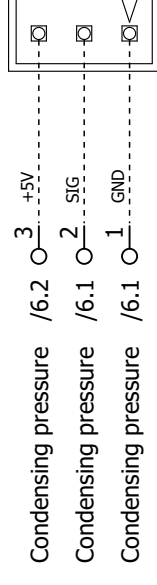


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<p>Power supply: 3ph/400V/50Hz</p>									
<p>Title: Wiring diagram DP RA 370-490 Functional diagram</p>									
Date	24/08/2023								
Author	R.Guioetto								
Verified	A.Monte								
Approved	A.Monte								
Revision	Date	Name							
Sheet	2								
Of	12								
Scale	N.A.								
Size	A4								

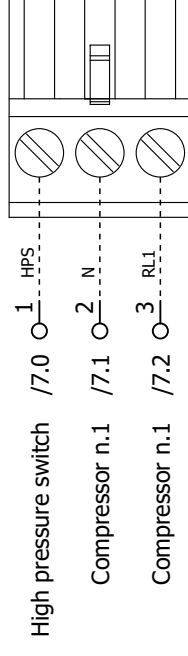
M1



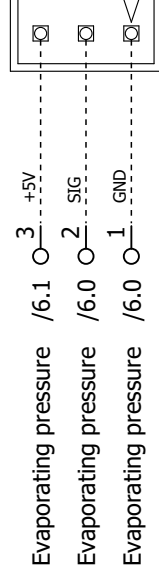
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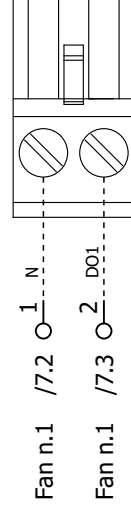
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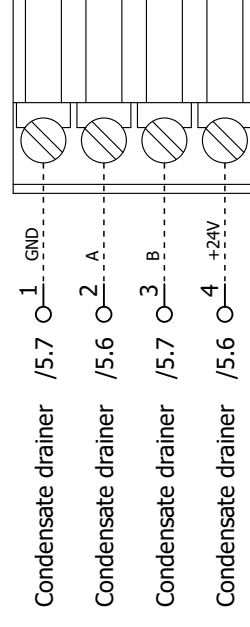
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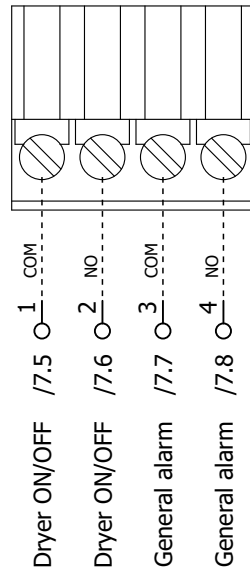
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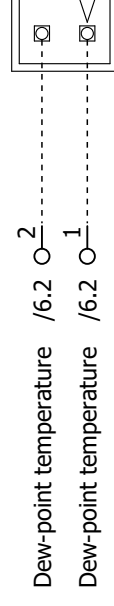
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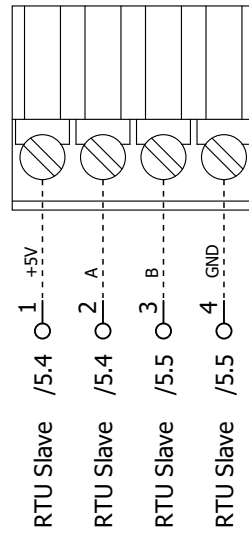
M8



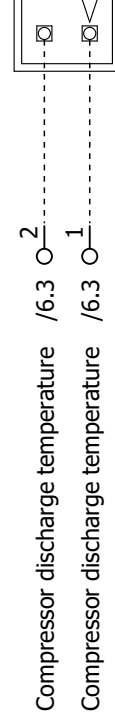
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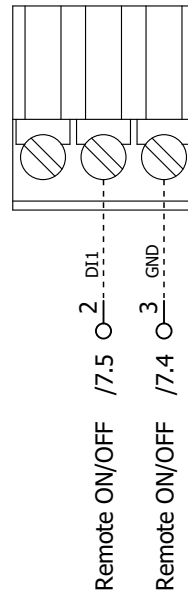
M10



J2



M11



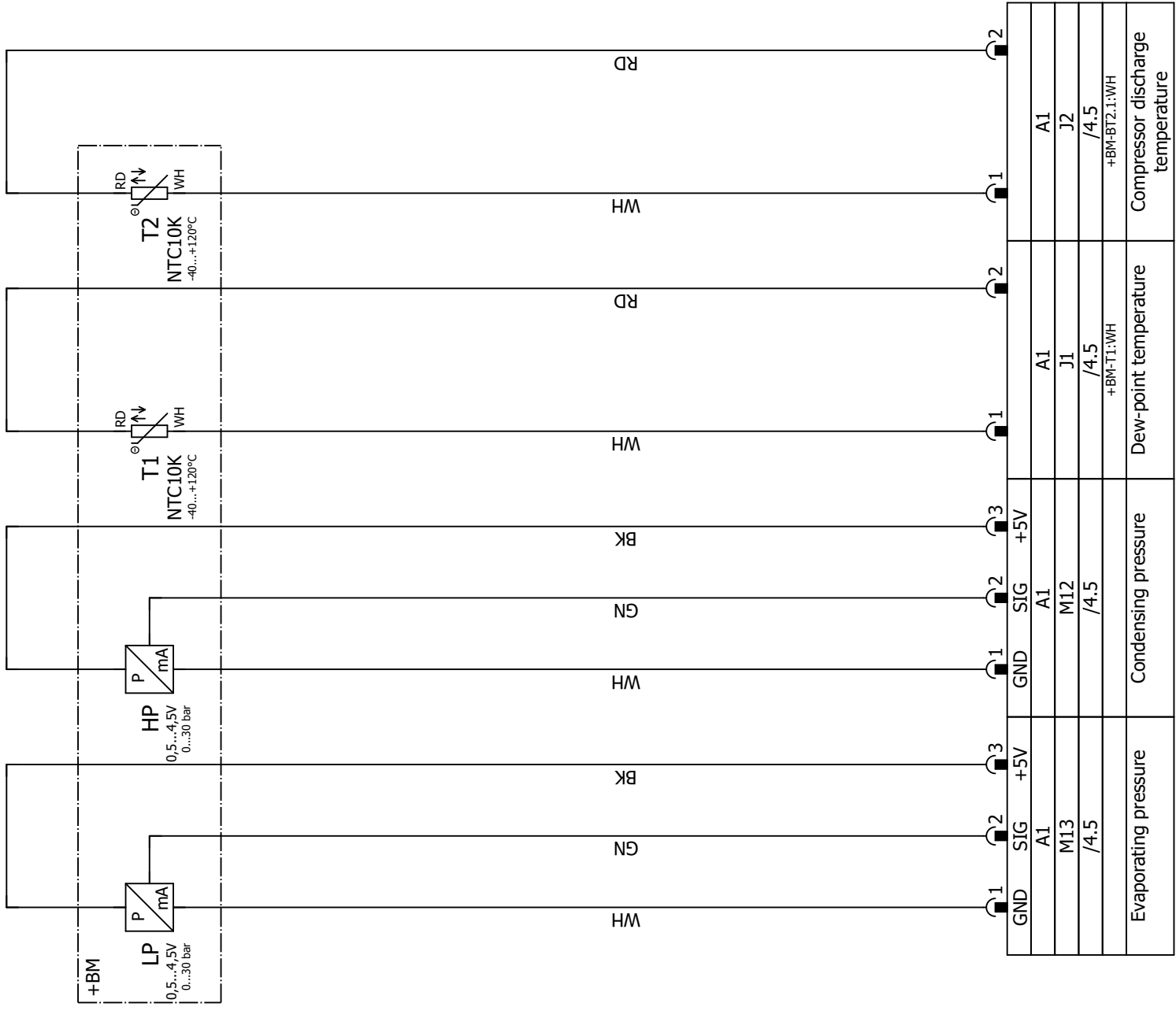
Revision	Date	Name

Date	24/08/2023
Author	R.Guioetto
Verified	A.Monte
Approved	A.Monte

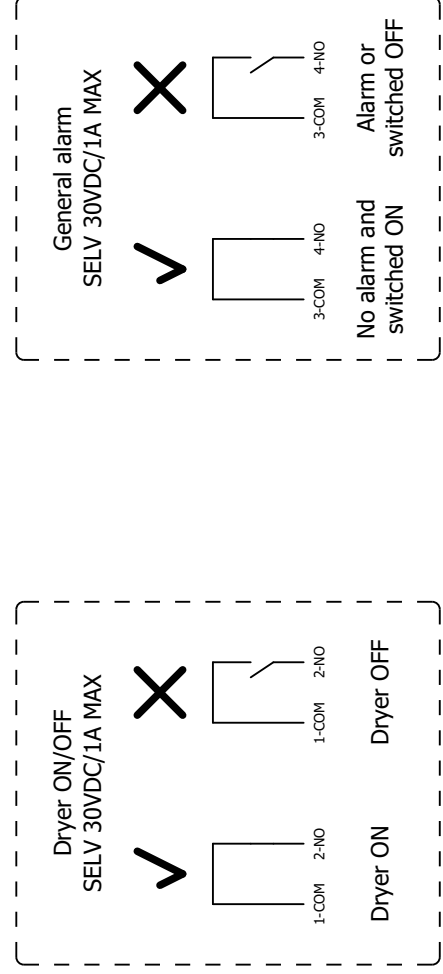
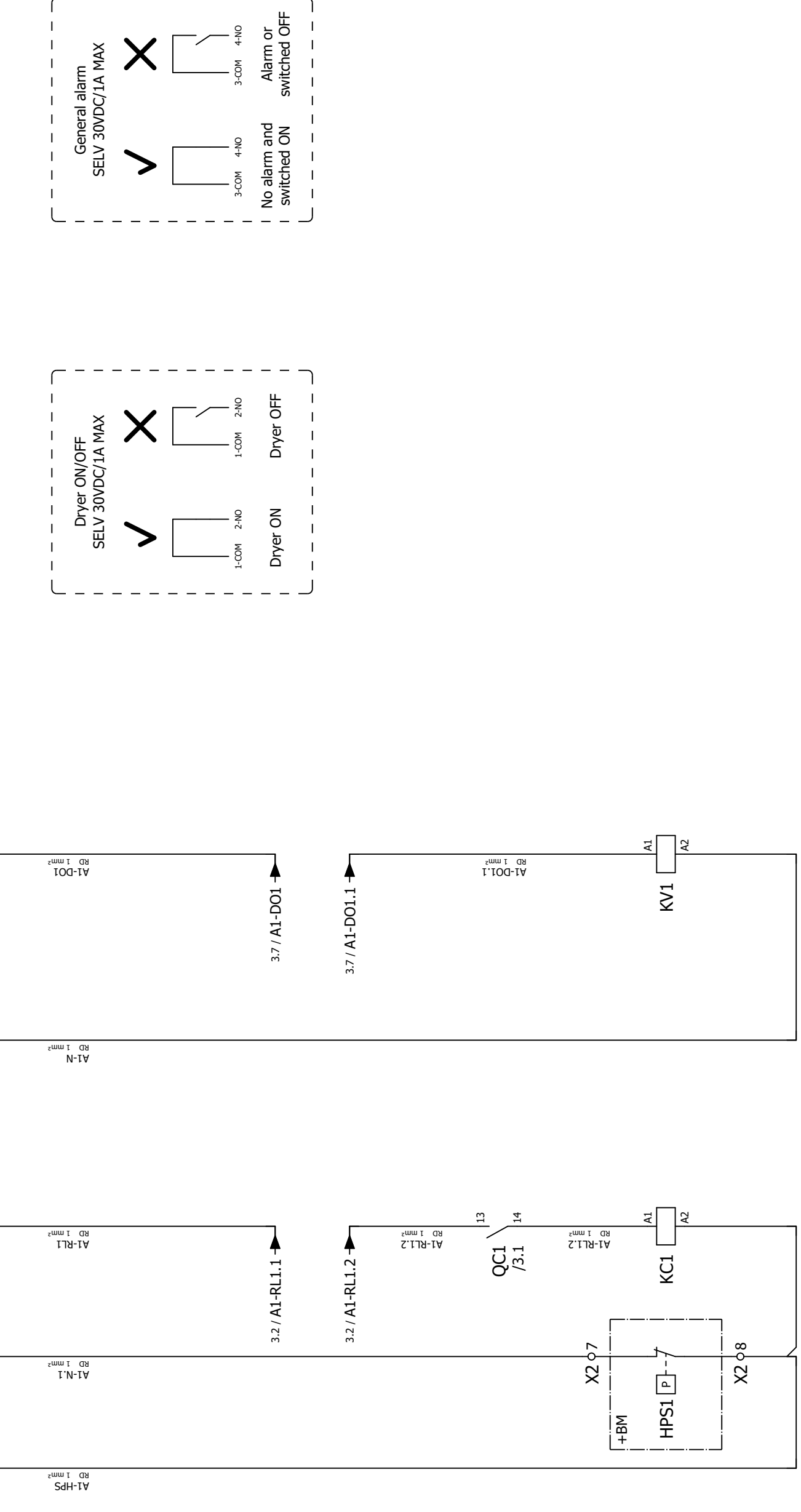
Title	
Wiring diagram DP RA 370-490 Electronic controller layout	

Code	90BKG490CEP00
Notes	
Power supply	3ph/400V/50Hz

Sheet	4
Of	12
Scale	N.A.
Size	A4



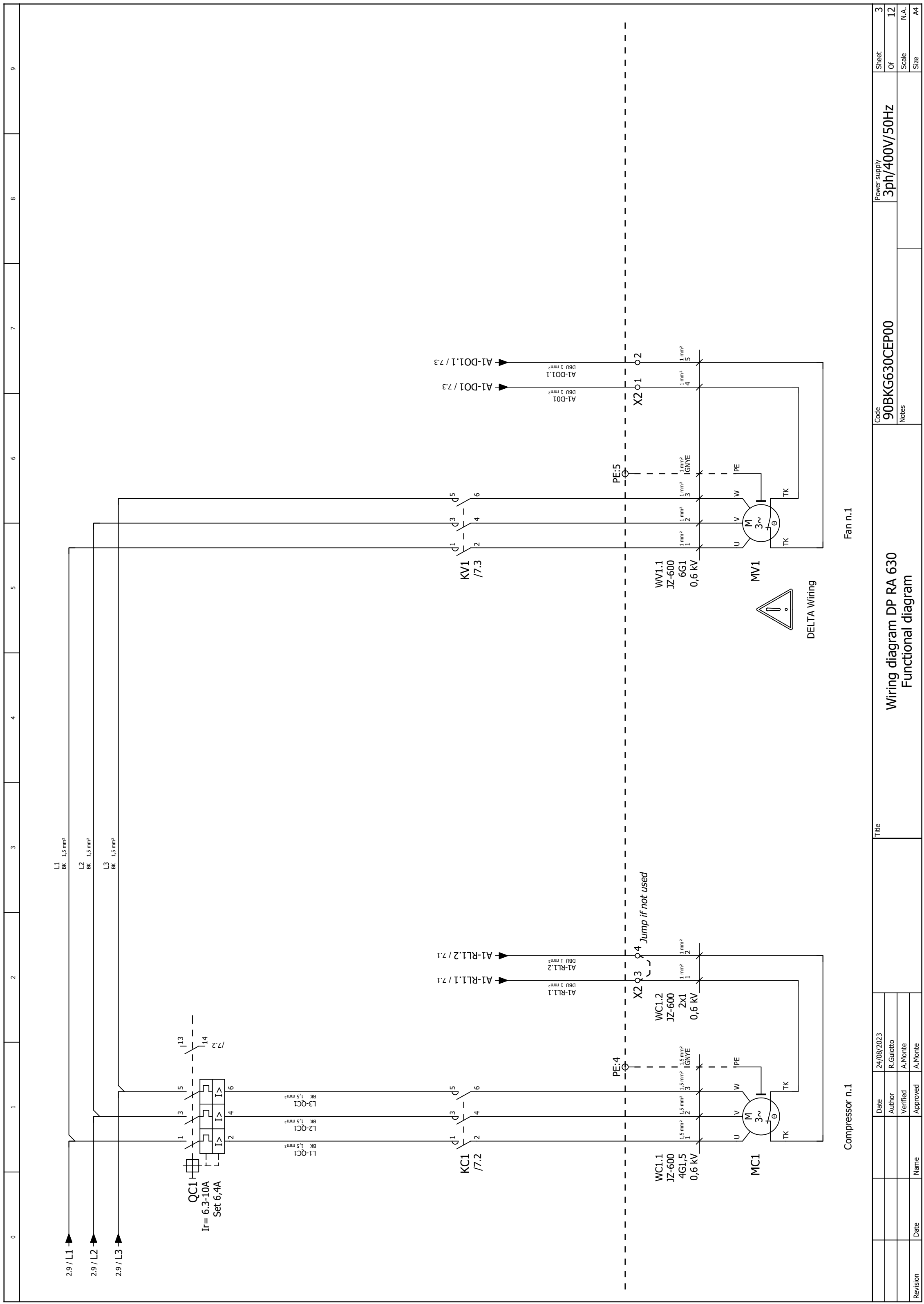
High pressure switch	Compressor n.1	Fan n.1	Fan n.1	Remote ON/OFF	Dryer ON/OFF	General alarm
/4.2	/4.2	/4.2	/4.2	/4.2	/4.2	/4.2
M2	M2	M4	M4	M11	M8	M8
A1	A1	A1	A1	A1	A1	A1
HPS	RL1	N	DO1	GND	COM	COM
1	3	1	2	3	1	3
2	2	2	2	2	2	4



- 1 2 /3.1
- 3 4 /3.1
- 5 6 /3.1
- 21 22 /2.7
- 1 2 /3.5
- 3 4 /3.6
- 5 6 /3.6
- 13 14



Project description	Wiring diagram DP RA 630
Power supply	3ph/400V/50Hz
Job number	90BKG630CEP00
Revision	REV01



Compressor n.1

Fan n.1

Revision	Date	Name	Approved	Verified	Author	Date
					A.Monte	24/08/2023
					A.Monte	
					R.Guilotto	

Title

Wiring diagram DP RA 630
Functional diagram

Code
90BKG630CEP00

Power supply
3ph/400V/50Hz

Sheet	Of	Scale	Size
3	12	N.A.	A4

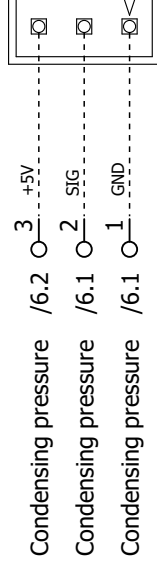
M1



Controller power supply /5.0

Controller power supply /5.1

M12

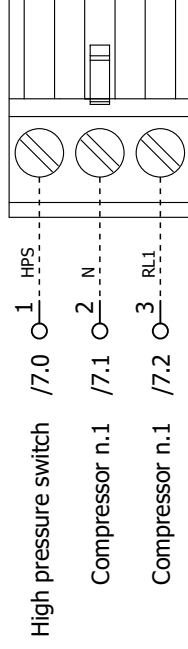


Condensing pressure /6.2

Condensing pressure /6.1

Condensing pressure /6.1

M2

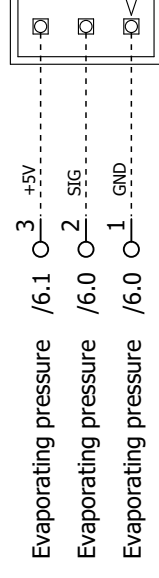


High pressure switch /7.0

Compressor n.1 /7.1

Compressor n.1 /7.2

M13

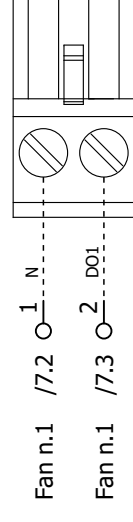


Evaporating pressure /6.1

Evaporating pressure /6.0

Evaporating pressure /6.0

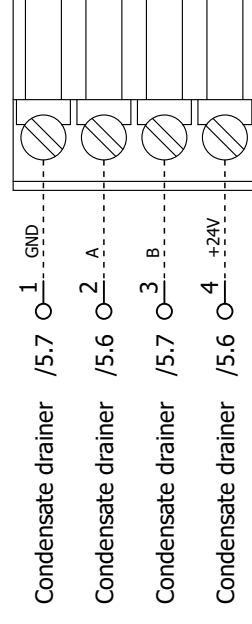
M4



Fan n.1 /7.2

Fan n.1 /7.3

M15



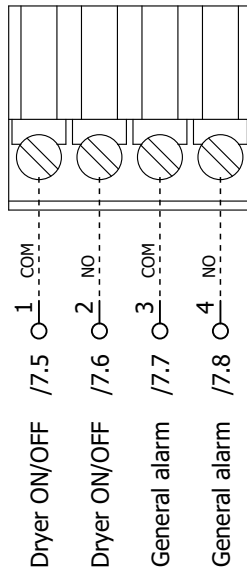
Condensate drainer /5.7

Condensate drainer /5.6

Condensate drainer /5.7

Condensate drainer /5.6

M8



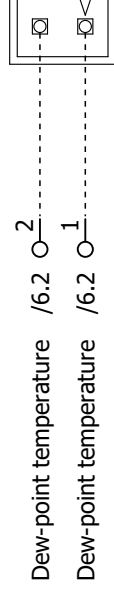
Dryer ON/OFF /7.5

Dryer ON/OFF /7.6

General alarm /7.7

General alarm /7.8

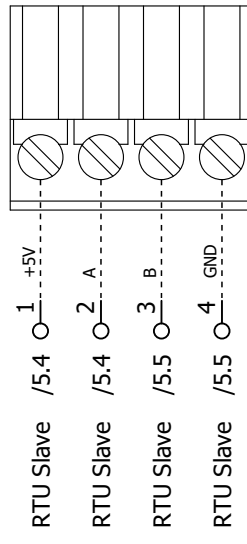
J1



Dew-point temperature /6.2

Dew-point temperature /6.2

M10



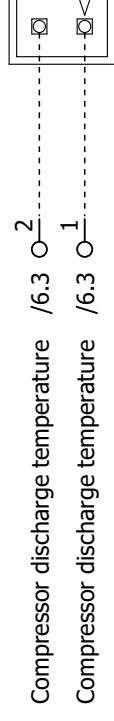
RTU Slave /5.4

RTU Slave /5.4

RTU Slave /5.5

RTU Slave /5.5

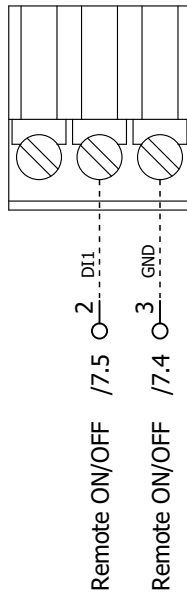
J2



Compressor discharge temperature /6.3

Compressor discharge temperature /6.3

M11



Remote ON/OFF /7.5

Remote ON/OFF /7.4

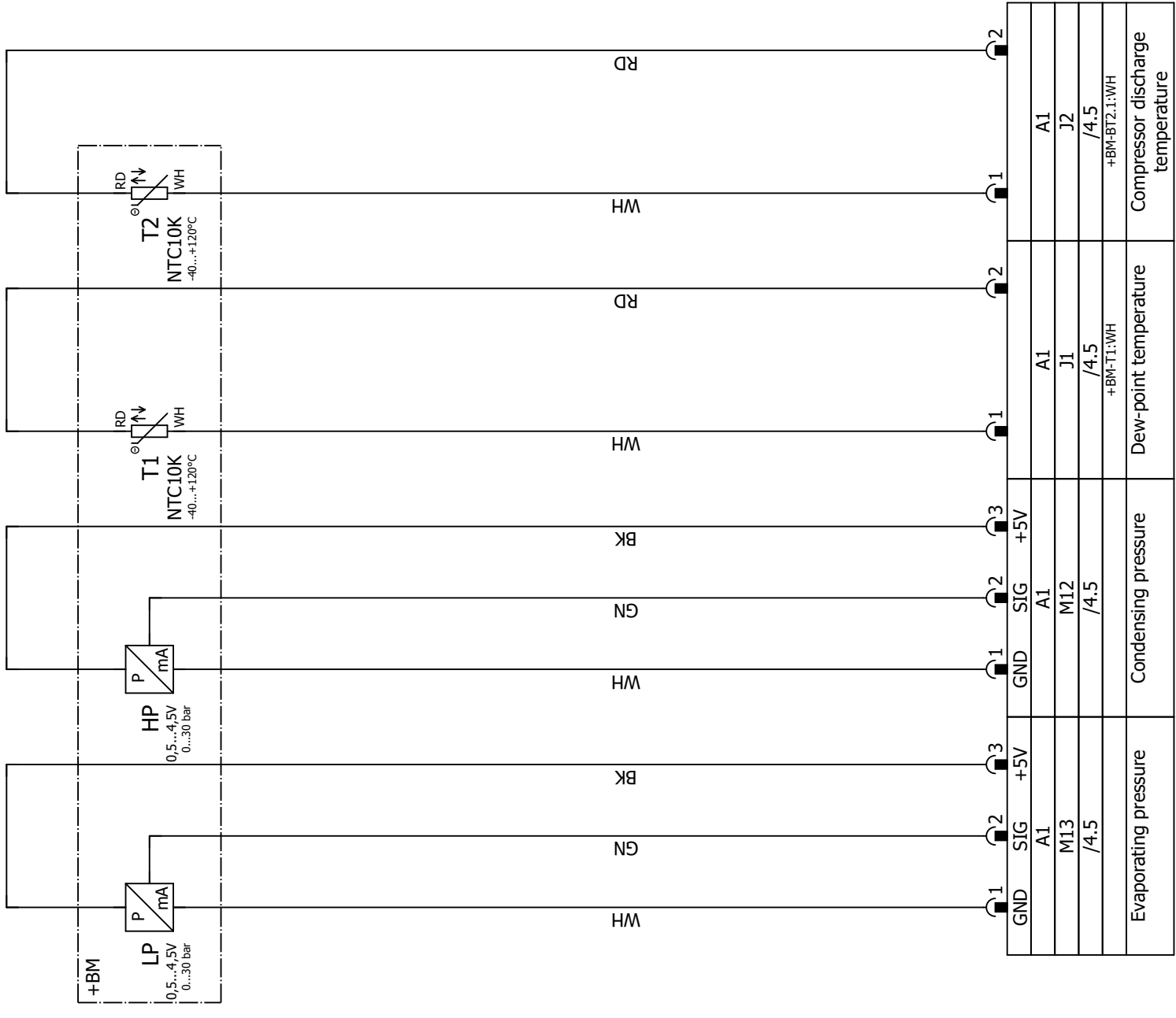
Revision	Date	Name

Date	24/08/2023
Author	R.Guilotto
Verified	A.Monte
Approved	A.Monte

Title	
Wiring diagram DP RA 630 Electronic controller layout	

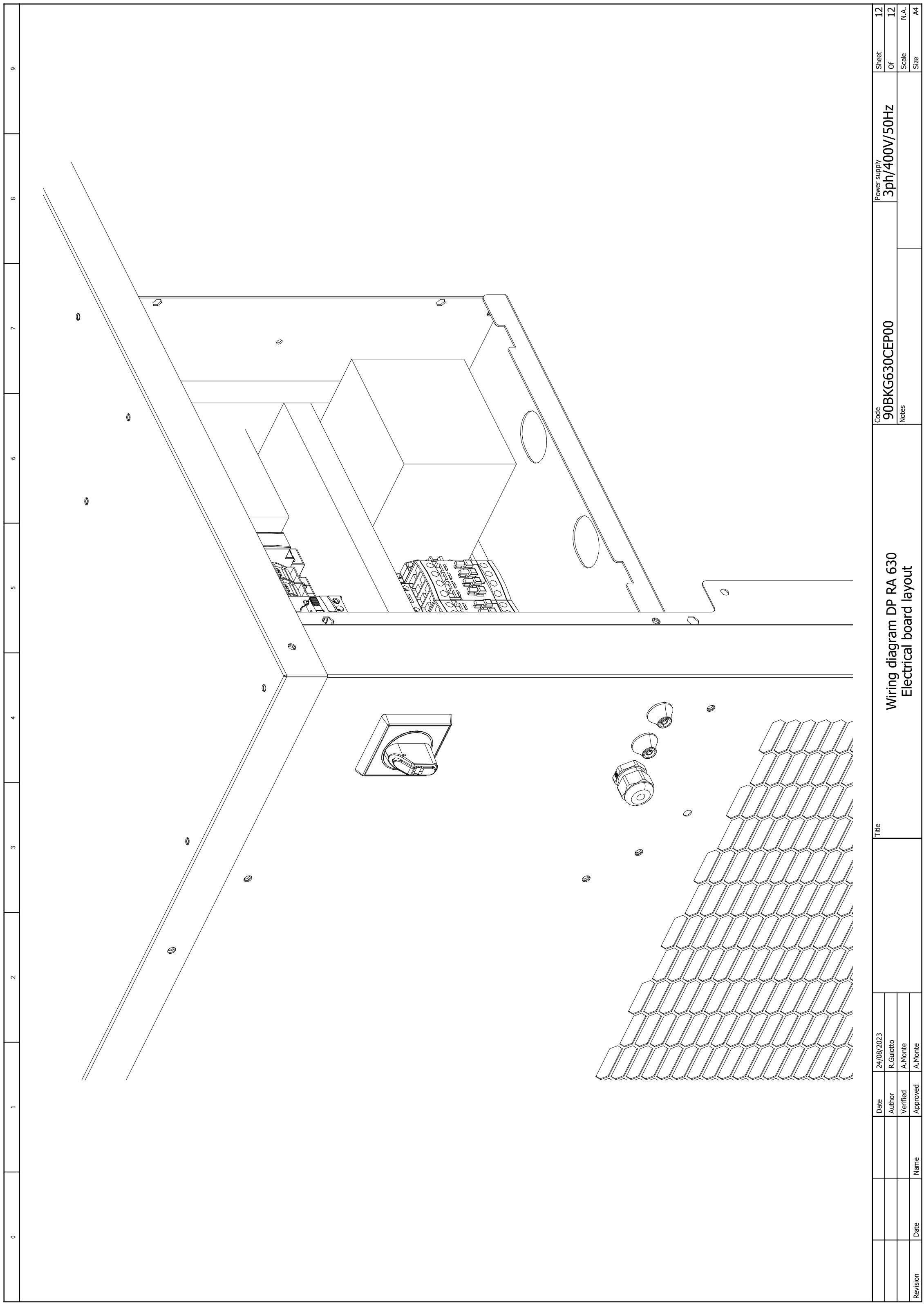
Code	90BKG630CEP00
Notes	
Power supply	3ph/400V/50Hz

Sheet	4
Of	12
Scale	N.A.
Size	A4



GND	SIG	+5V	GND	+5V	SIG	+5V
1	2	3	1	2	3	1
A1	M13	/4.5	A1	J1	/4.5	A1
						J2
						/4.5
						+BM-T1:WH
						+BM-BT2.1:WH
Evaporating pressure	Condensing pressure			Compressor discharge temperature		

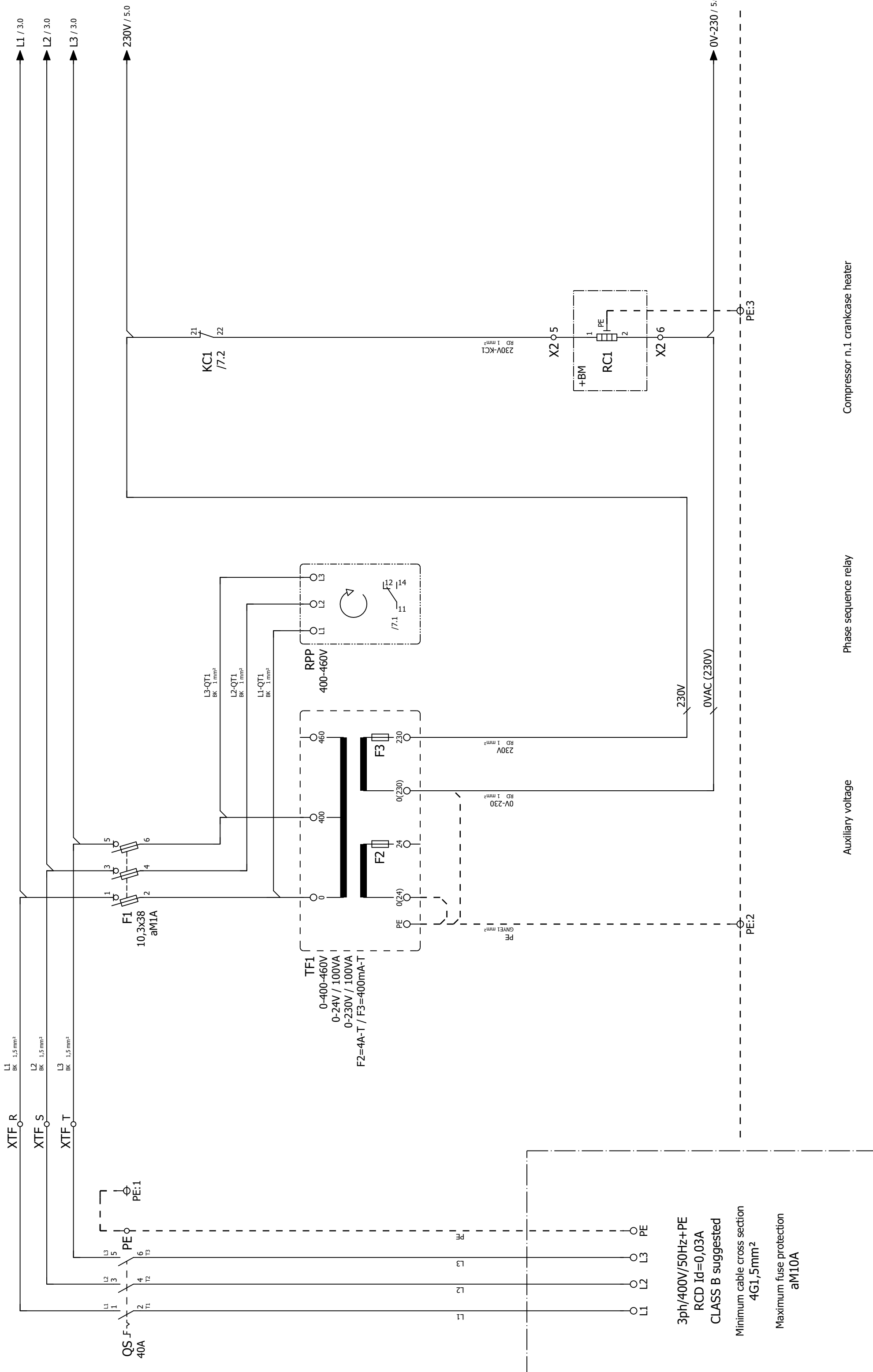
Wiring diagram DP RA 630
Functional diagram



Revision	Date	Name	Title		Code	Power supply	Sheet
	24/08/2023	R.Guilotto	Wiring diagram DP RA 630		90BKG630CEP00	3ph/400V/50Hz	12
		A.Monte			Notes		Of
		A.Monte					12
		A.Monte					Scale
							N.A.
							Size
							A4



Project description	Wiring diagram DP RA 750-960
Power supply	3ph/400V/50Hz
Job number	90BKG960CEP00
Revision	REV01



Auxiliary voltage

Phase sequence relay

Compressor n.1 crankcase heater

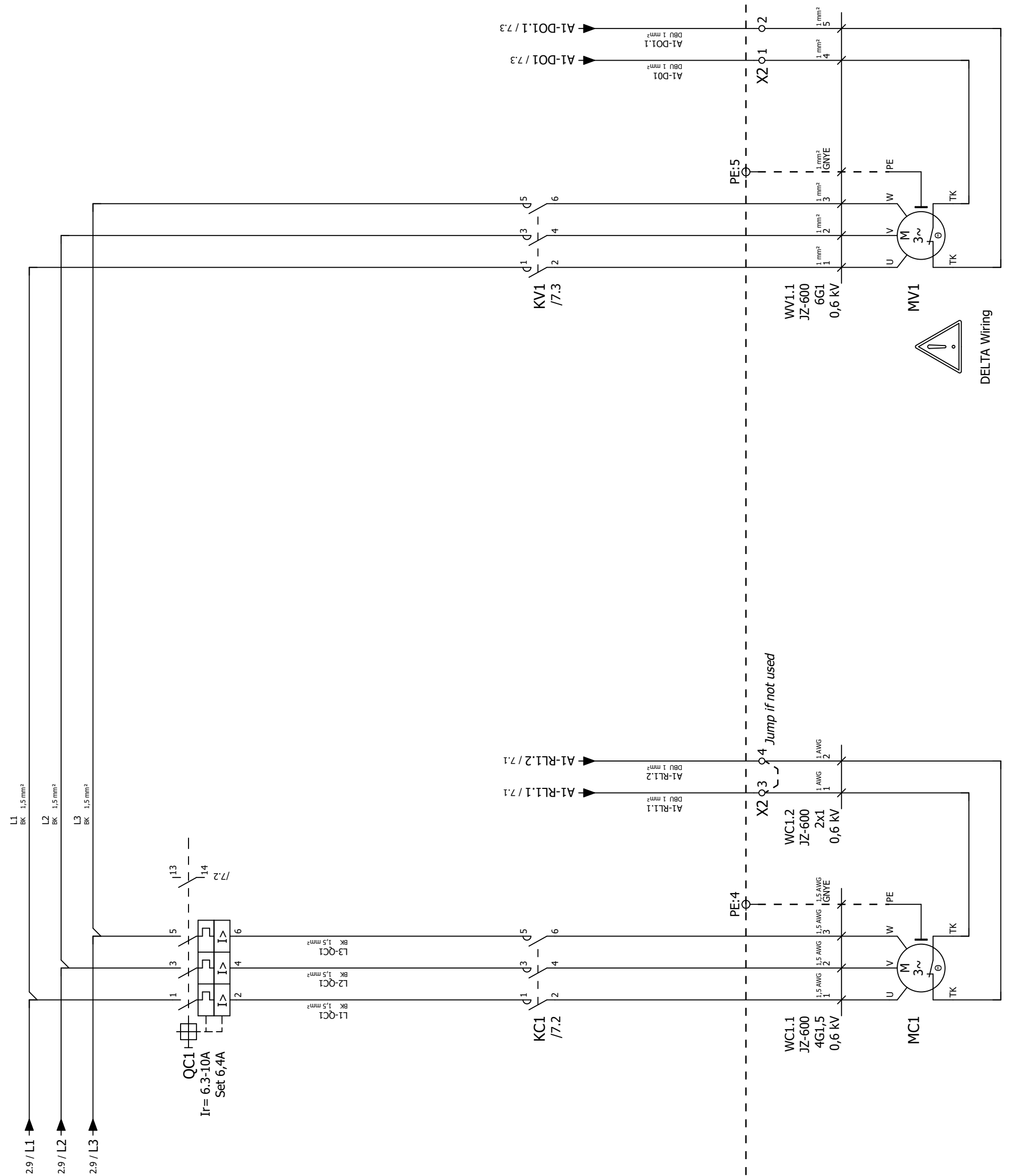
Revision	Date	Name	Approved	Verified	Author	Date
			A.Monte	A.Monte	R.Guio	24/08/2023

Title	
Wiring diagram DP RA 750-960 Functional diagram	

Code	
90BKG960CEP00	Notes

Power supply	
3ph/400V/50Hz	

Sheet	Of	Scale	Size
2	11	N.A.	A4

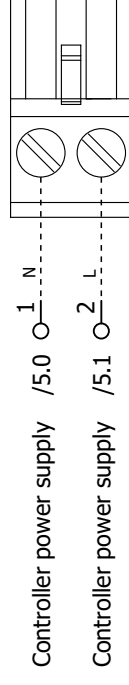


Compressor n.1

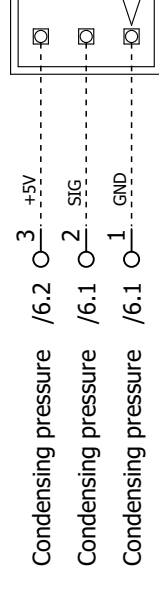
Fan n.1

Revision	Date	Name	Approved	A.Monte
Verified		A.Monte		
Author	24/08/2023	R.Guioetto		
Title				
Wiring diagram DP RA 750-960				
Functional diagram				
Code 90BKG960CEP00				
Notes				
Power supply 3ph/400V/50Hz				
Sheet	3	Of	11	
Scale			N.A.	
Size			A4	

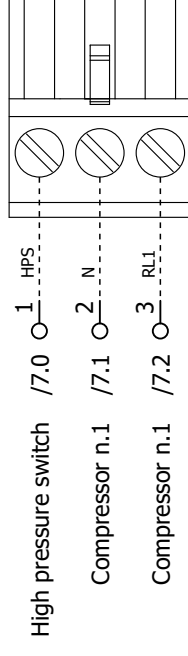
M1



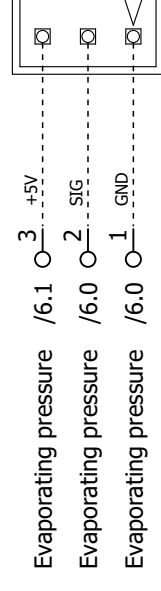
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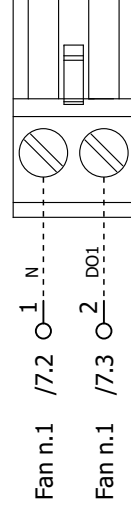
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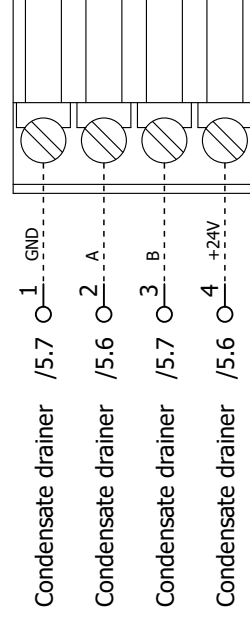
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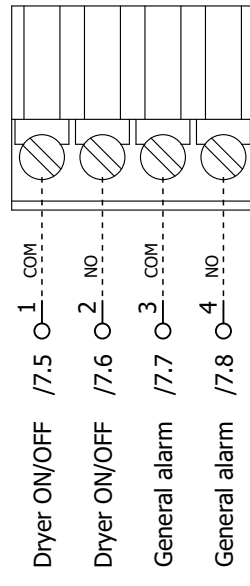
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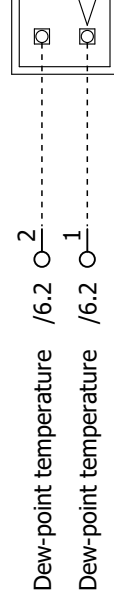
M15



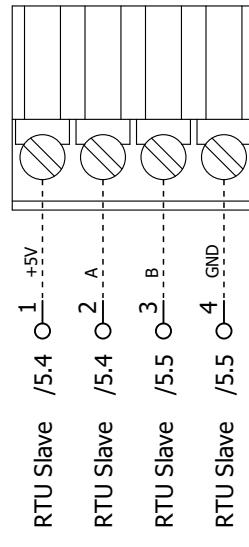
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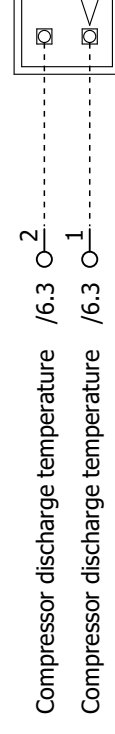
J1



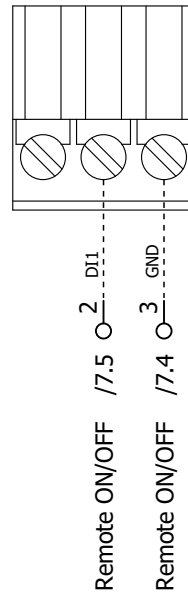
M10



J2



M11



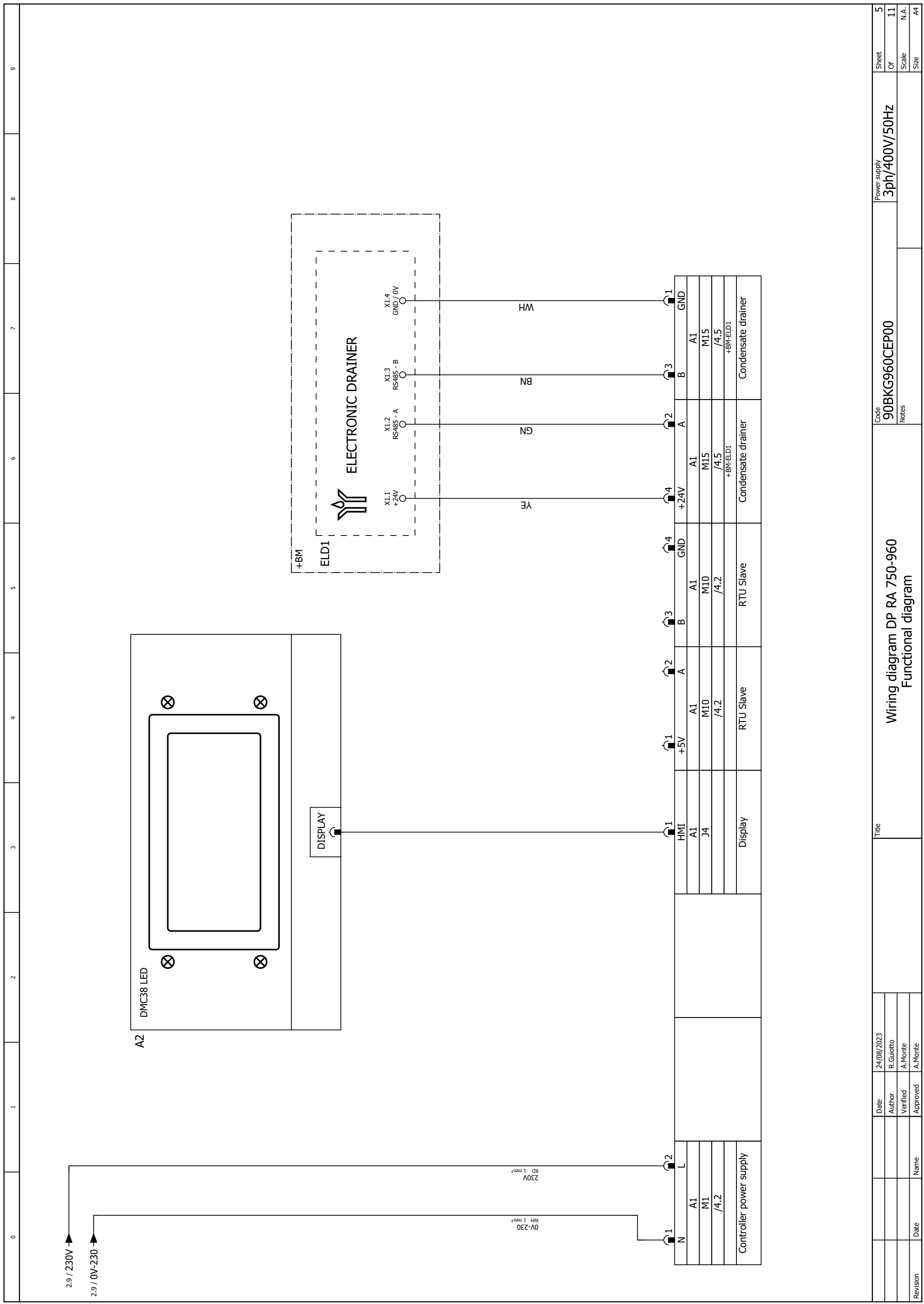
Revision	Date	Name

Date	24/08/2023
Author	R.Guioetto
Verified	A.Monte
Approved	A.Monte

Title	
Wiring diagram DP RA 750-960 Electronic controller layout	

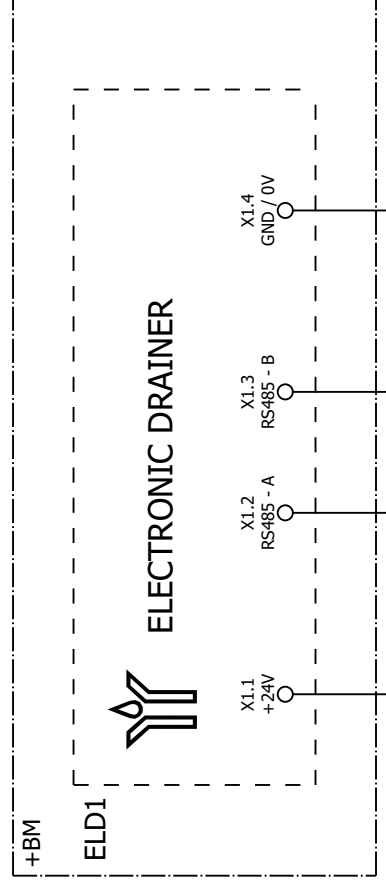
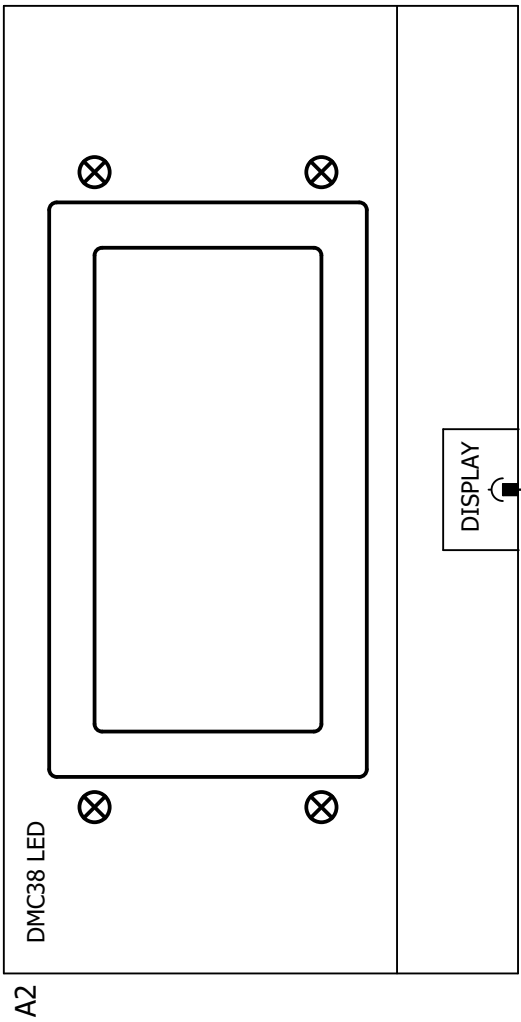
Code	90BKG960CEP00
Notes	
Power supply	3ph/400V/50Hz

Sheet	4
Of	11
Scale	N.A.
Size	A4

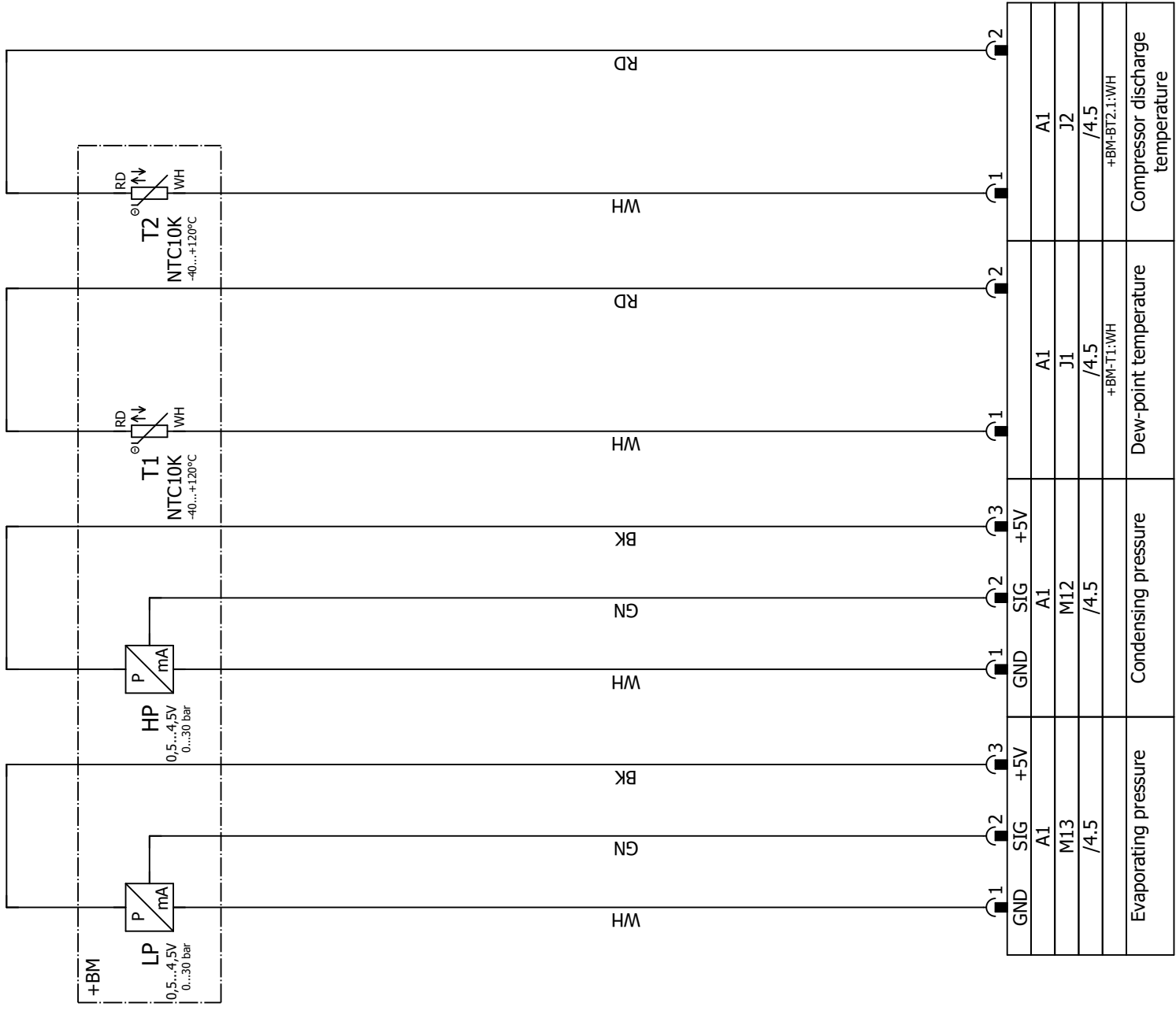


2.9 / 230V →

2.9 / 0V-230 →

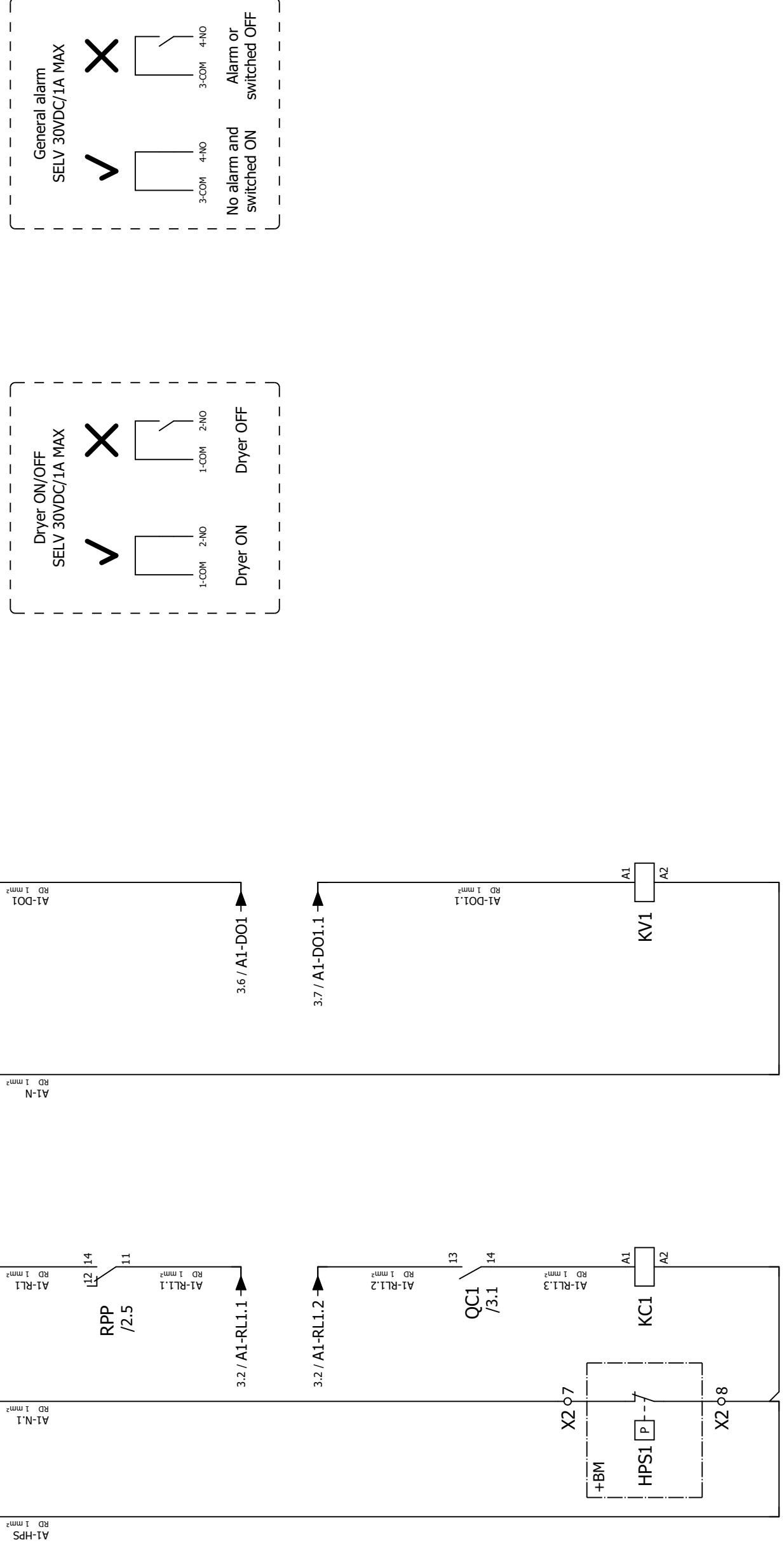


N	1	2	3	4	1	2	3	4	1	2	3	4	1
A1	A1	A1	B	A1	A1	A1	B	A1	A1	A1	B	A1	A1
M1	M10	M10	B	M10	M15	M15	B	M10	M15	M15	B	M15	M15
/4.2	/4.2	/4.2	/4.2	/4.2	/4.5	/4.5	/4.2	/4.2	/4.5	/4.5	/4.5	/4.5	/4.5
Controller power supply									+BM-ELD1				+BM-ELD1
	Display												
	RTU Slave												
	RTU Slave												
	Condensate drainer												
	Condensate drainer												



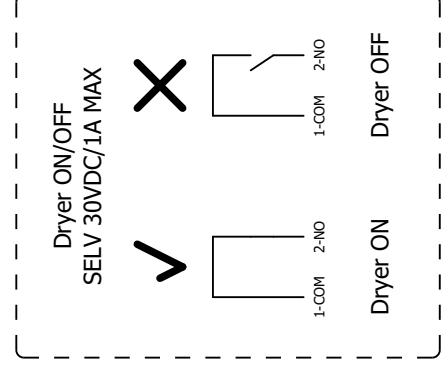
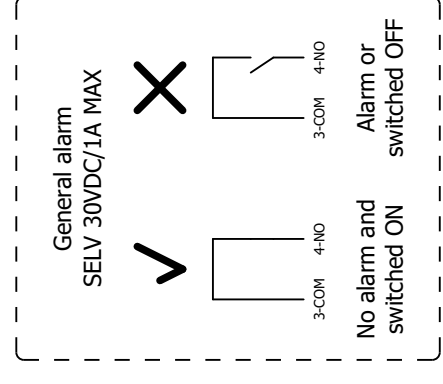
Wiring diagram DP RA 750-960
Functional diagram

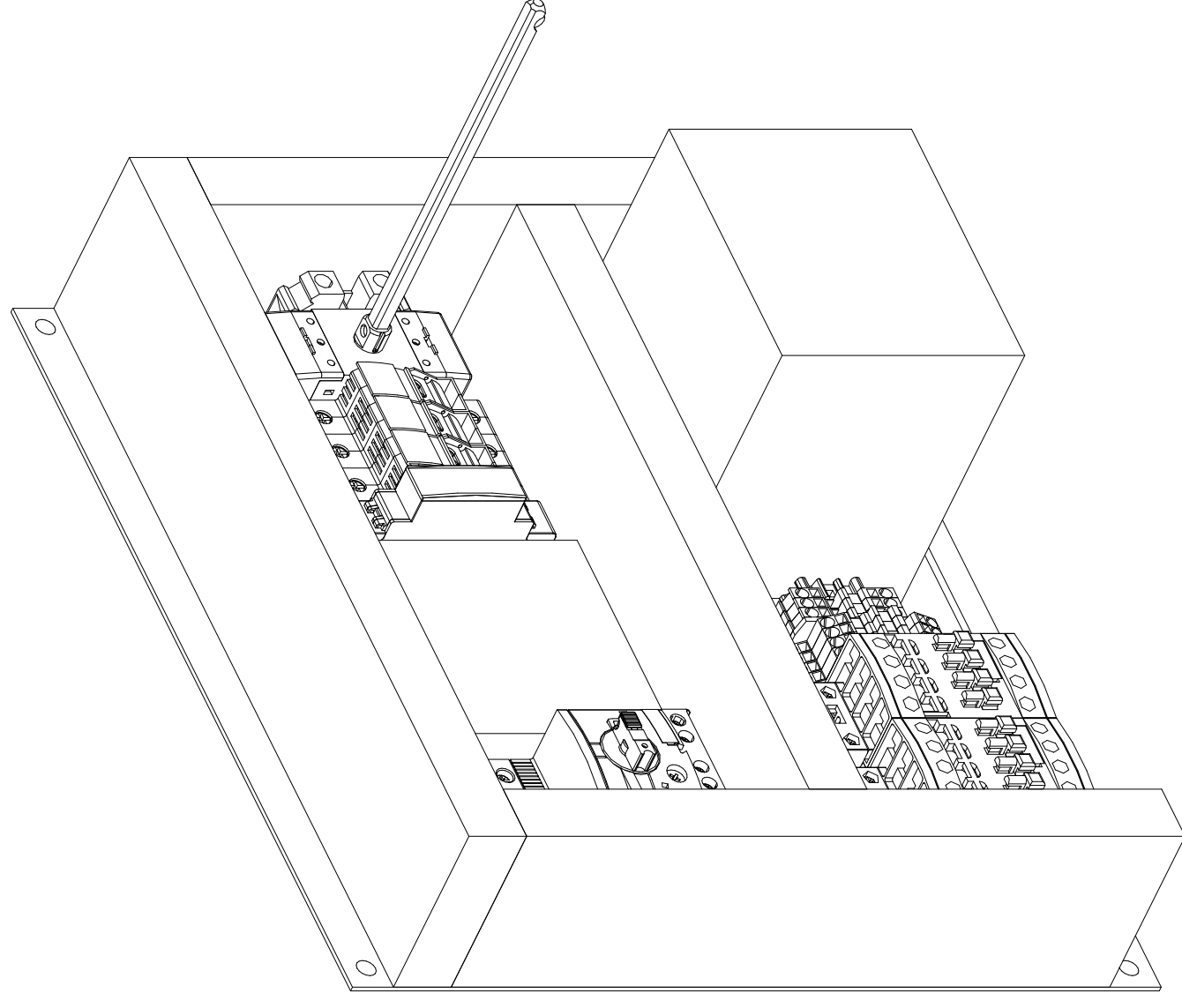
High pressure switch	Compressor n.1	Fan n.1	Fan n.1	Remote ON/OFF	Dryer ON/OFF	General alarm
/4.2	/4.2	/4.2	/4.2	/4.2	/4.2	/4.2
M2	M2	M4	M4	M11	M8	M8
A1	A1	A1	A1	A1	A1	A1
HPS	RL1	N	DO1	GND	COM	COM
N	RL1	N	DO1	D11	NO	NO
1	3	1	2	3	1	3
2	3	1	2	2	2	4



- 1 2 /3.1
- 3 4 /3.1
- 5 6 /3.1
- 21 22 /2.7

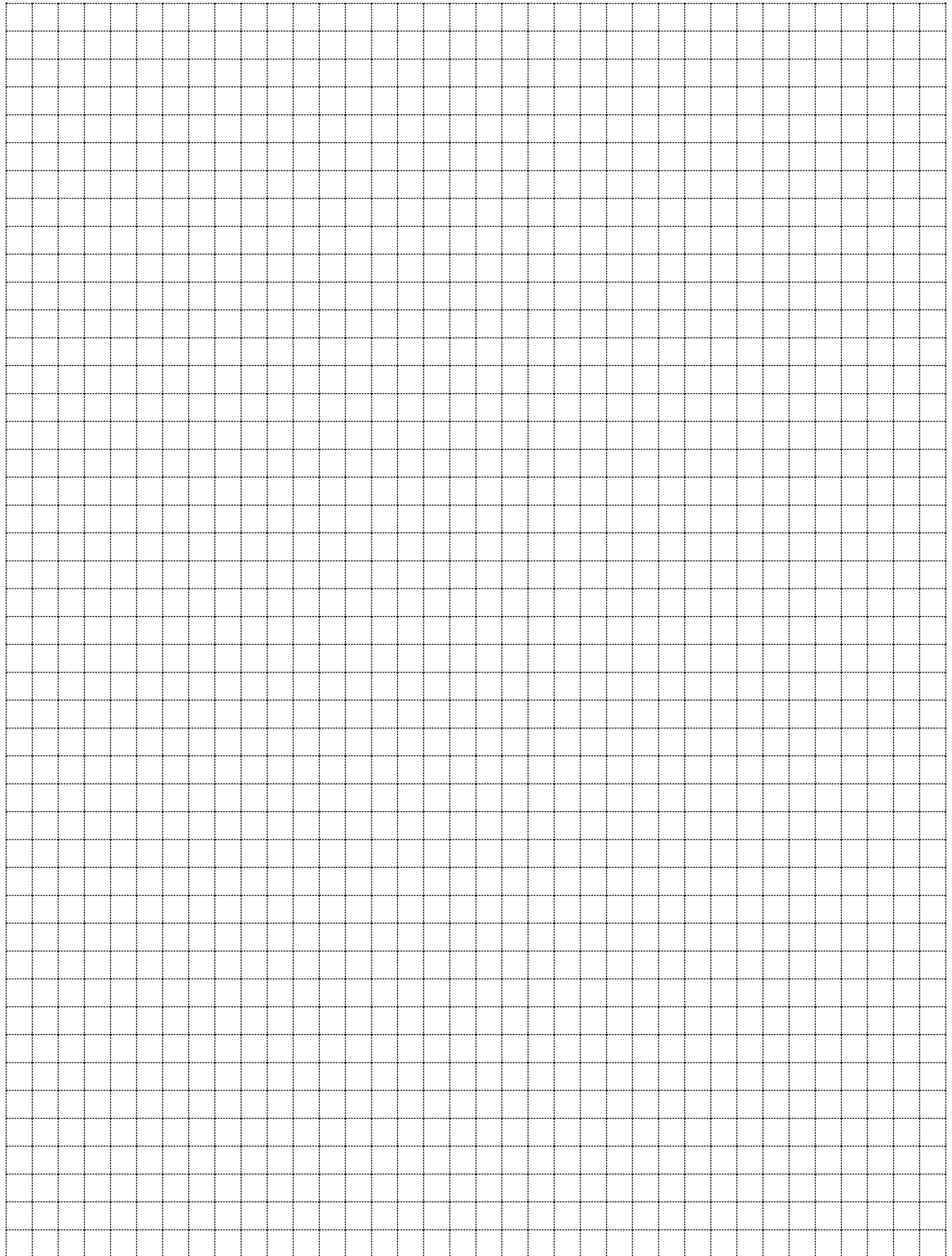
- 1 2 /3.5
- 3 4 /3.5
- 5 6 /3.6
- 13 14





Revision		Date	Name	Title		Code		Power supply		Sheet
				Wiring diagram DP RA 750-960		90BKG960CEP00		3ph/400V/50Hz		11
		24/08/2023	R.Guilotto	Electrical board layout		Notes				Of
			A.Monte							11
			A.Monte							Scale
			A.Monte							N.A.
										Size
										A4

Notes



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