

# Geniox Core Control system 41.04.02

Documents disponibles dans les pages ci-dessous

Page de couverture du projet: page 1

Guide rapide: page 2

Description générale: pages 3-4

External Raccordements: page 10-17

Circuit Diagram: page 19-27

Modbus Guide: page 23

Modbus address list: page 30

Cable plan: page 100-118

**Unités avec coffret de régulation interne**

Le coffret de régulation est toujours dans l'unité

**Données CTA.**

**Type d'échangeur:**

Voir données dans l'annexe ci-joint - Données Techniques

**Type de batterie chaude**

Voir données dans l'annexe ci-joint - Données Techniques

**Type de batterie froide**

Voir données dans l'annexe ci-joint - Données Techniques

**Type de PAC:**

Voir données dans l'annexe ci-joint - Données Techniques

**Électrique data:**

Puissance consommée totale: Voir sélection CTA

Ventilateur fusible size: Voir sélection CTA

Soufflage ventilateur câble résistance: Voir sélection CTA

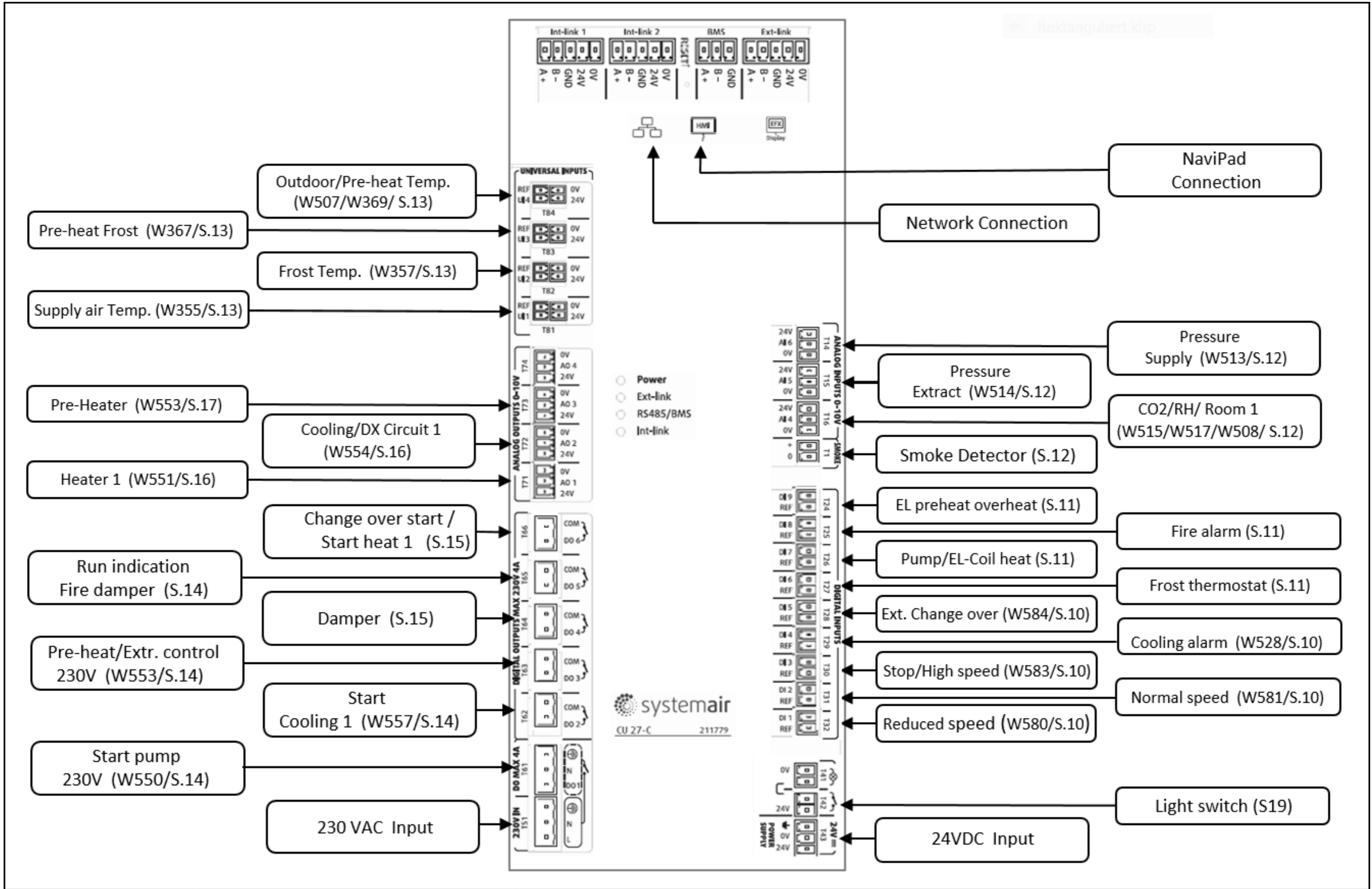
Extraction ventilateur câble résistance: Voir sélection CTA

Fusible max: Voir sélection CTA

Ik max sur les fusibles de l'unité 6 kA

**Fabricant:**

**Systemair A/S, Danemark**  
Ved Milepælen 7  
8361 Hasselager

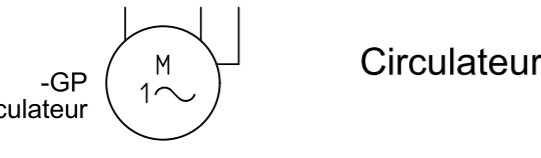
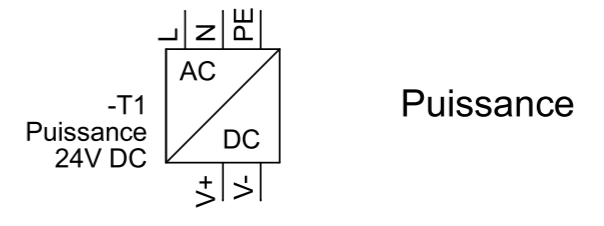
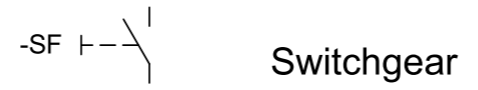
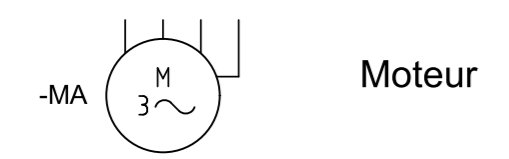
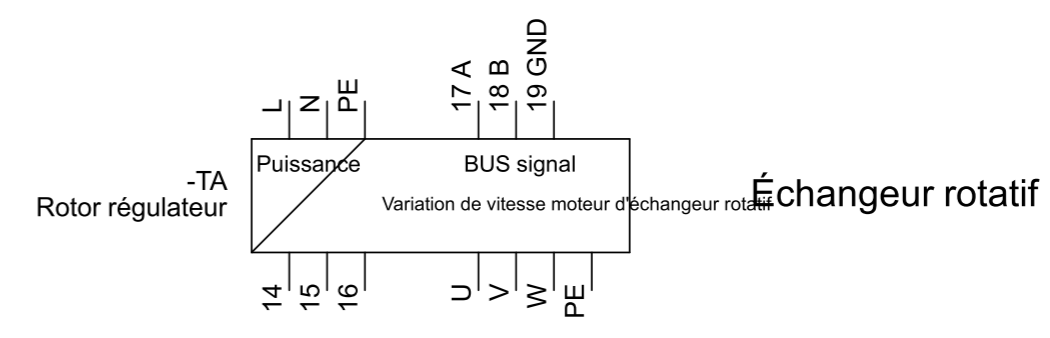


# Symboles selon IEC 60617.

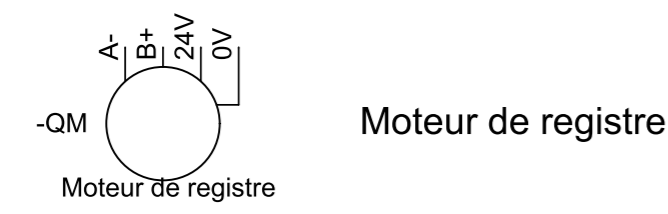
Les 2 pages suivantes contiennent les descriptions des symboles utilisés pour ce projet

Code couleur des câbles	
Noir - BK	
Marron - BN	
Rouge - RD	
Orange - OG	
Jaune - YE	
Vert - GN	
Bleu - BU	
Violet - VT	
Gris - GY	
Blanc - WH	
Rose - PK	
Transparent - TP	
Vert/jaune - PE	

L1:1 >	Références
-X2:1	Bornier
-EA	Lampe

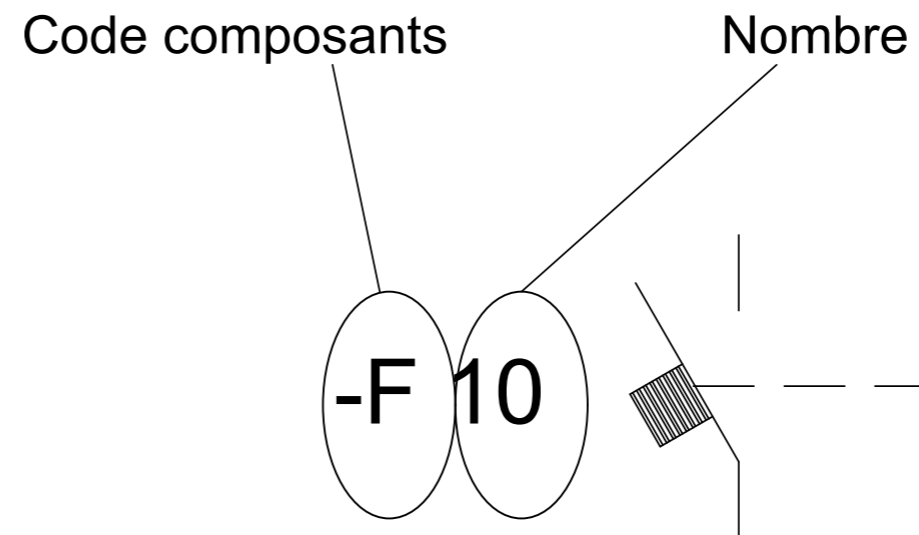
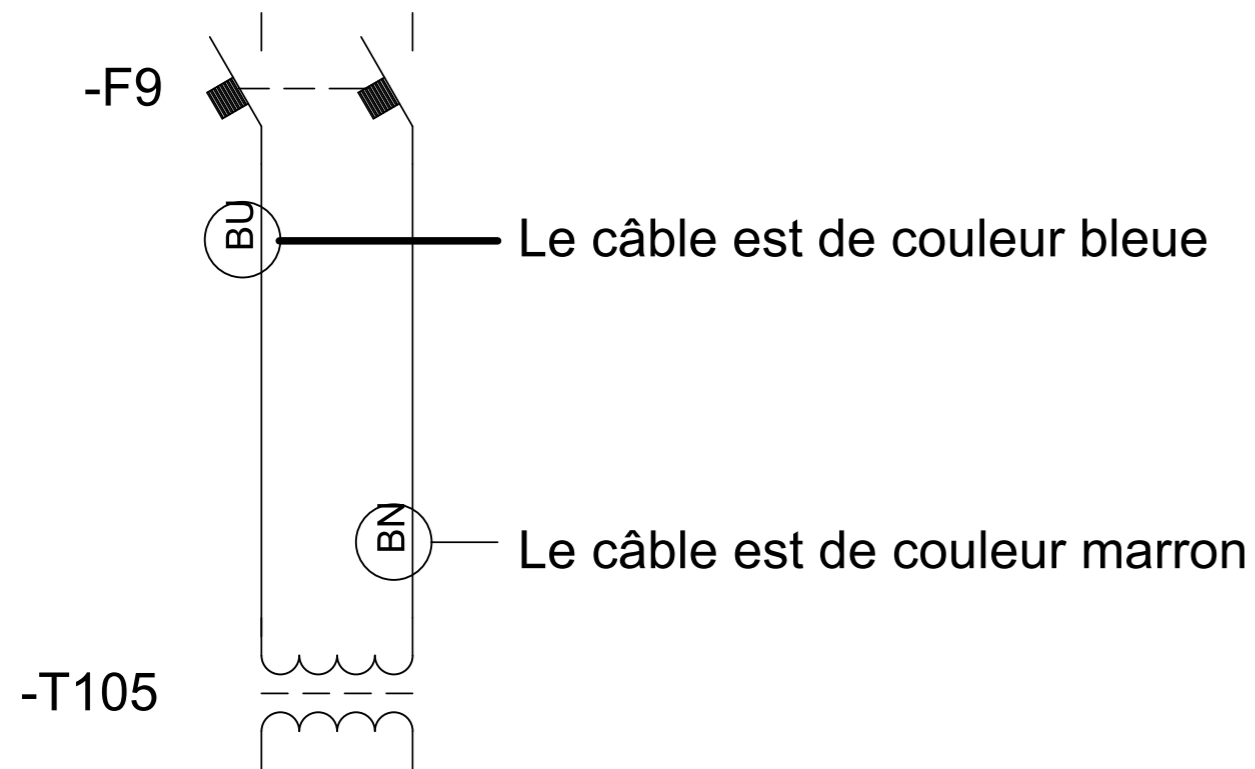


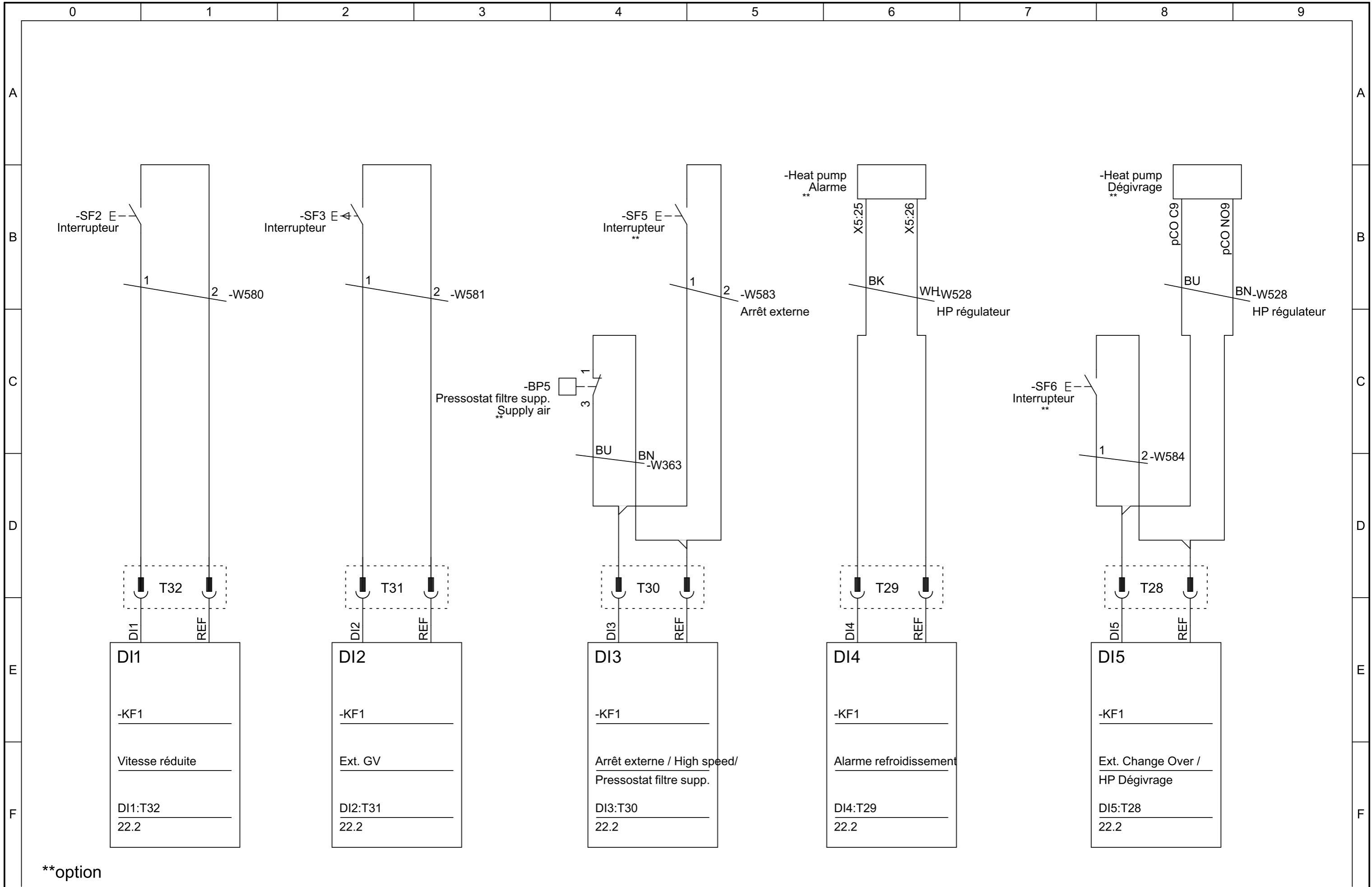
Non disponible pour le marché Français -BR

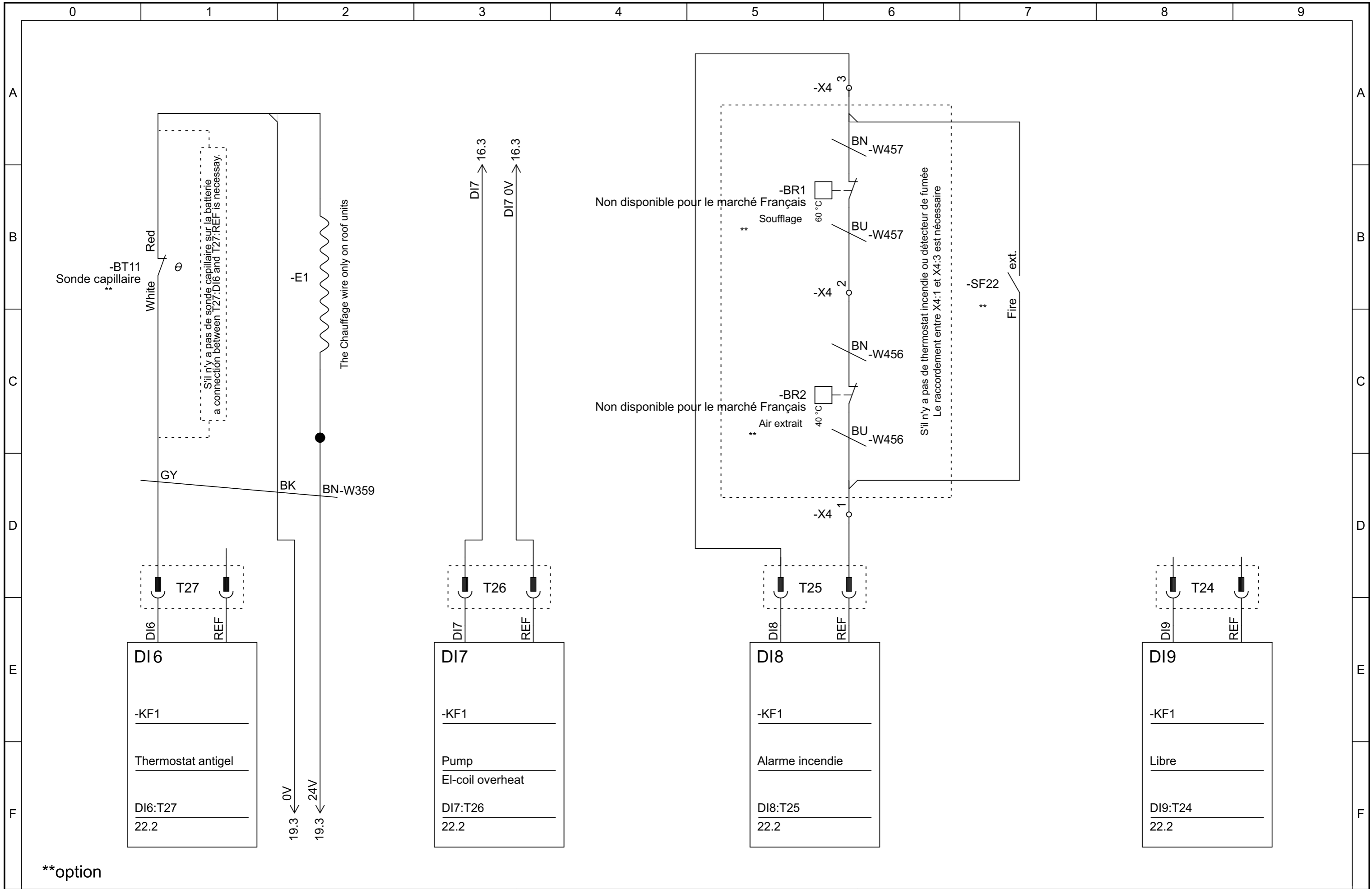


Labeling of wires  
are marked with  
Bornier name

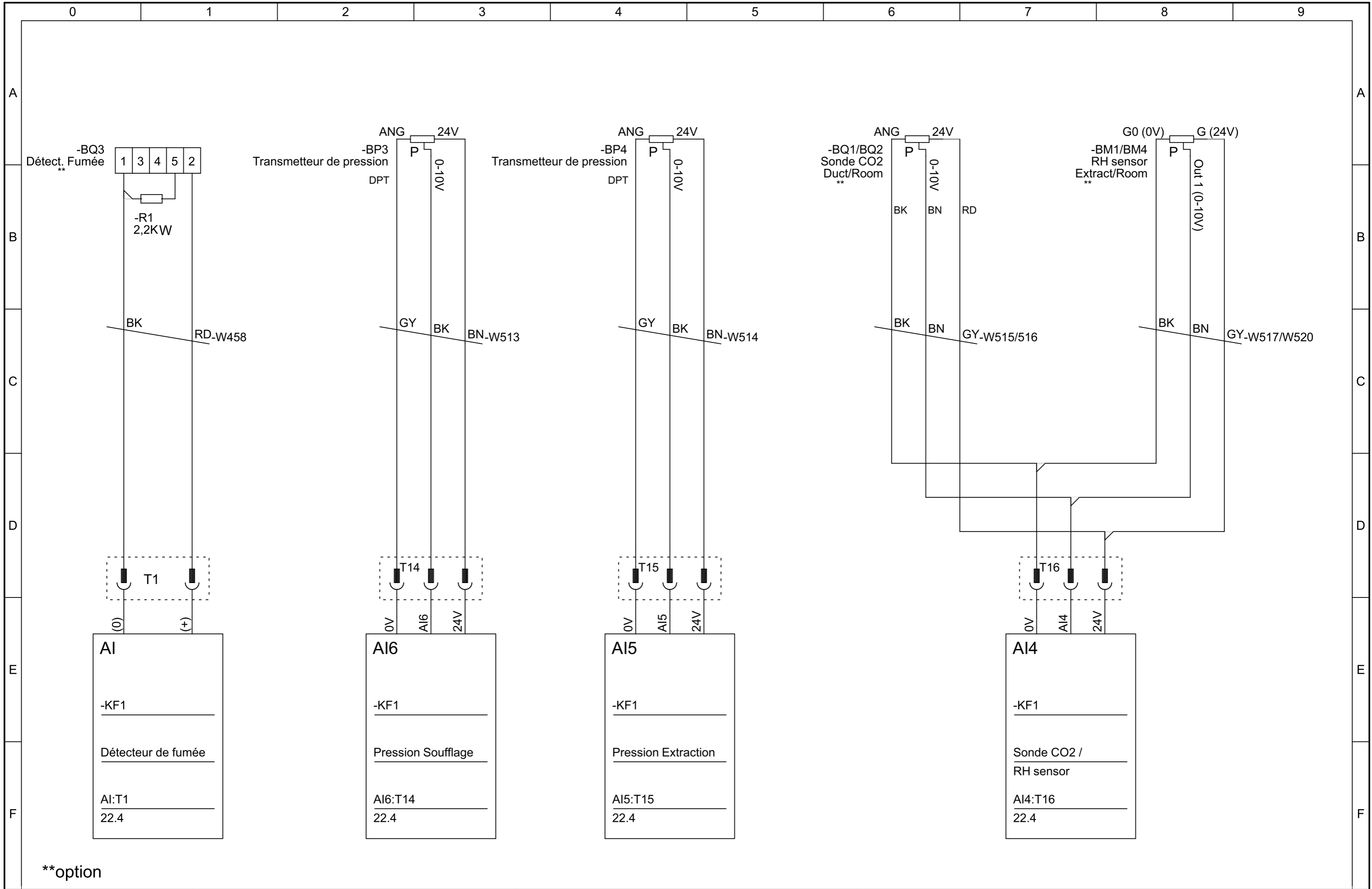
Les composants sont repérés avec les codes composants  
Suivi par un chiffre selon IEC 61346-1 chap. 1



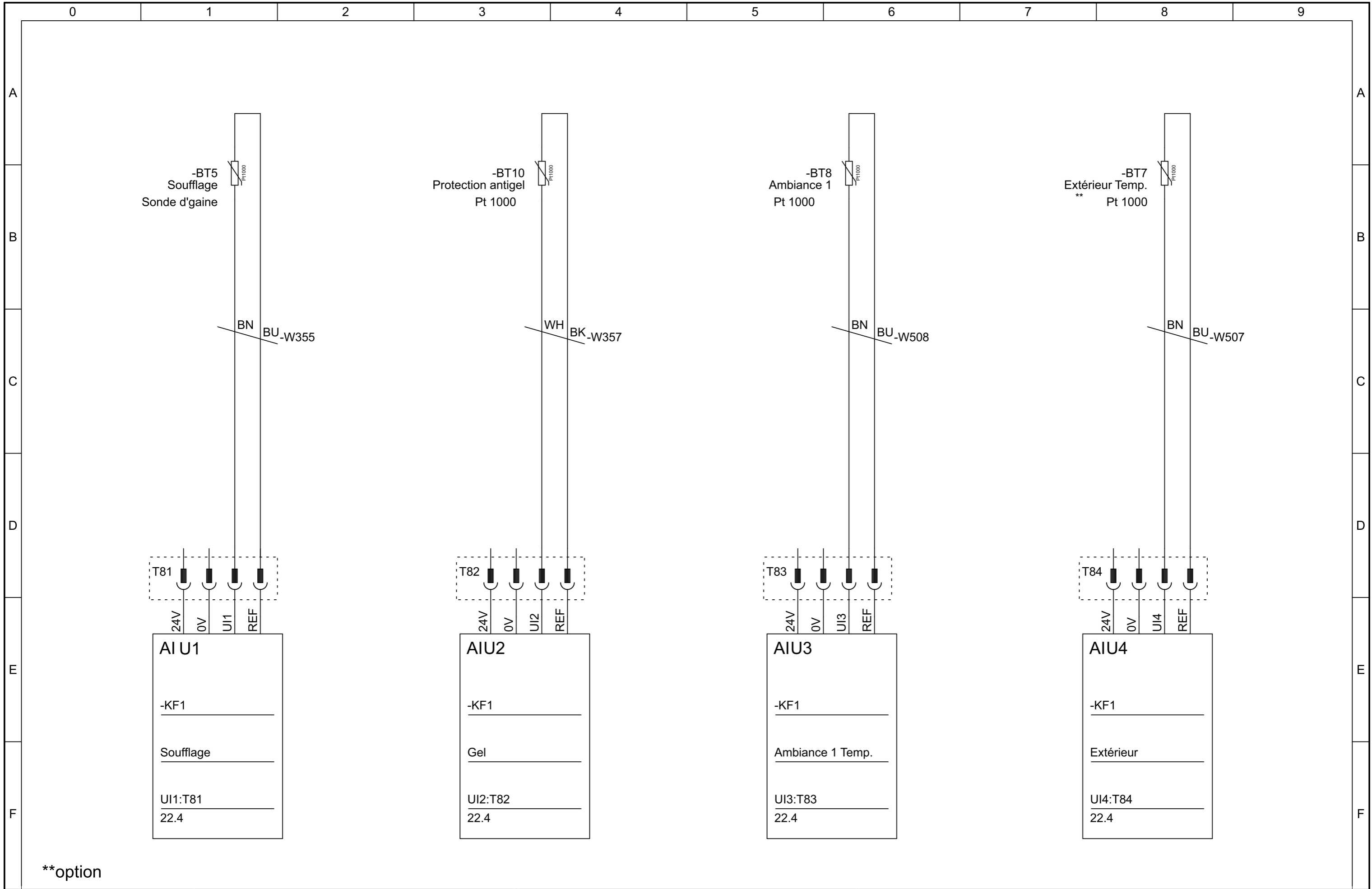




\*\*option

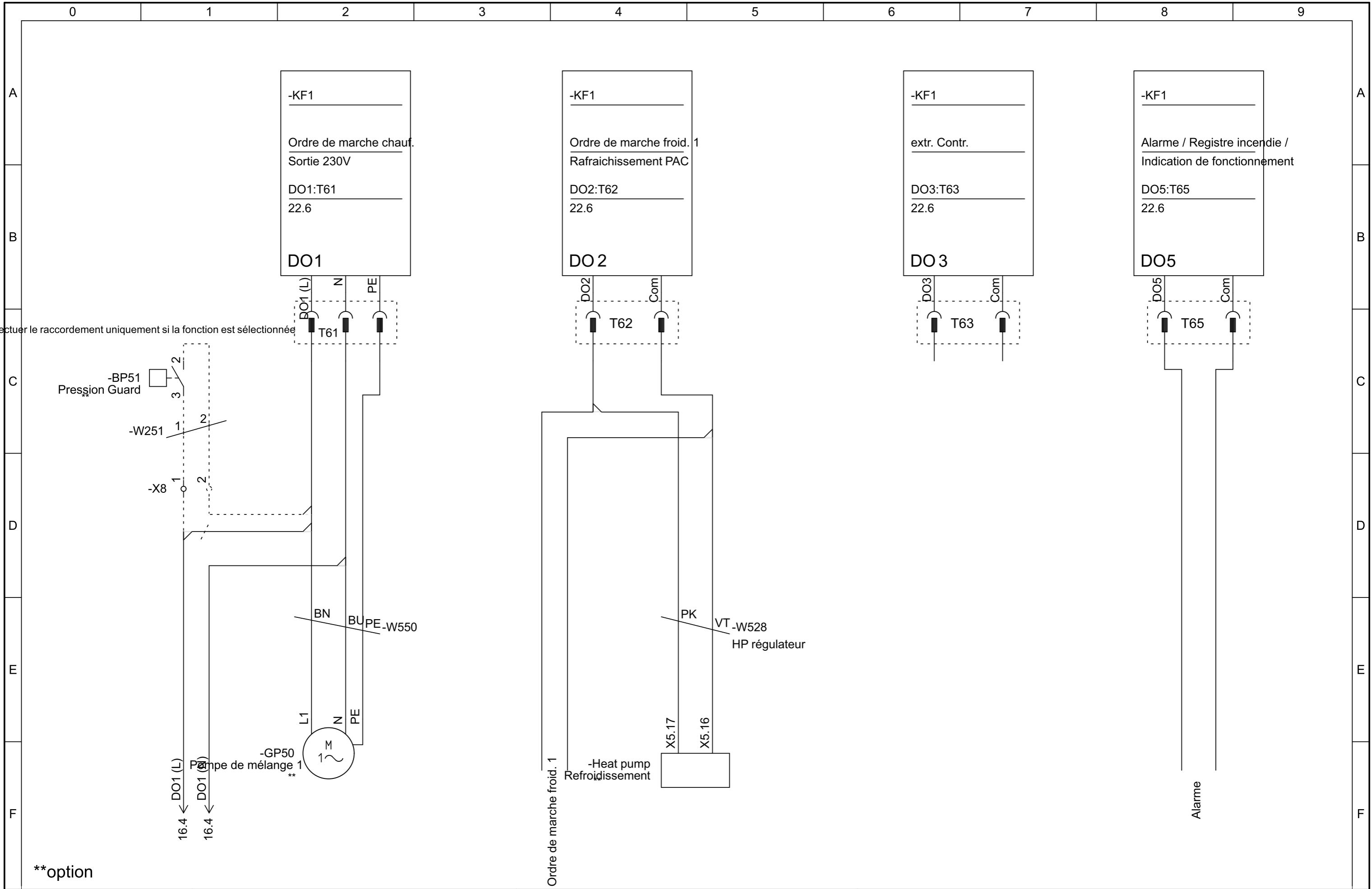


\*\*option

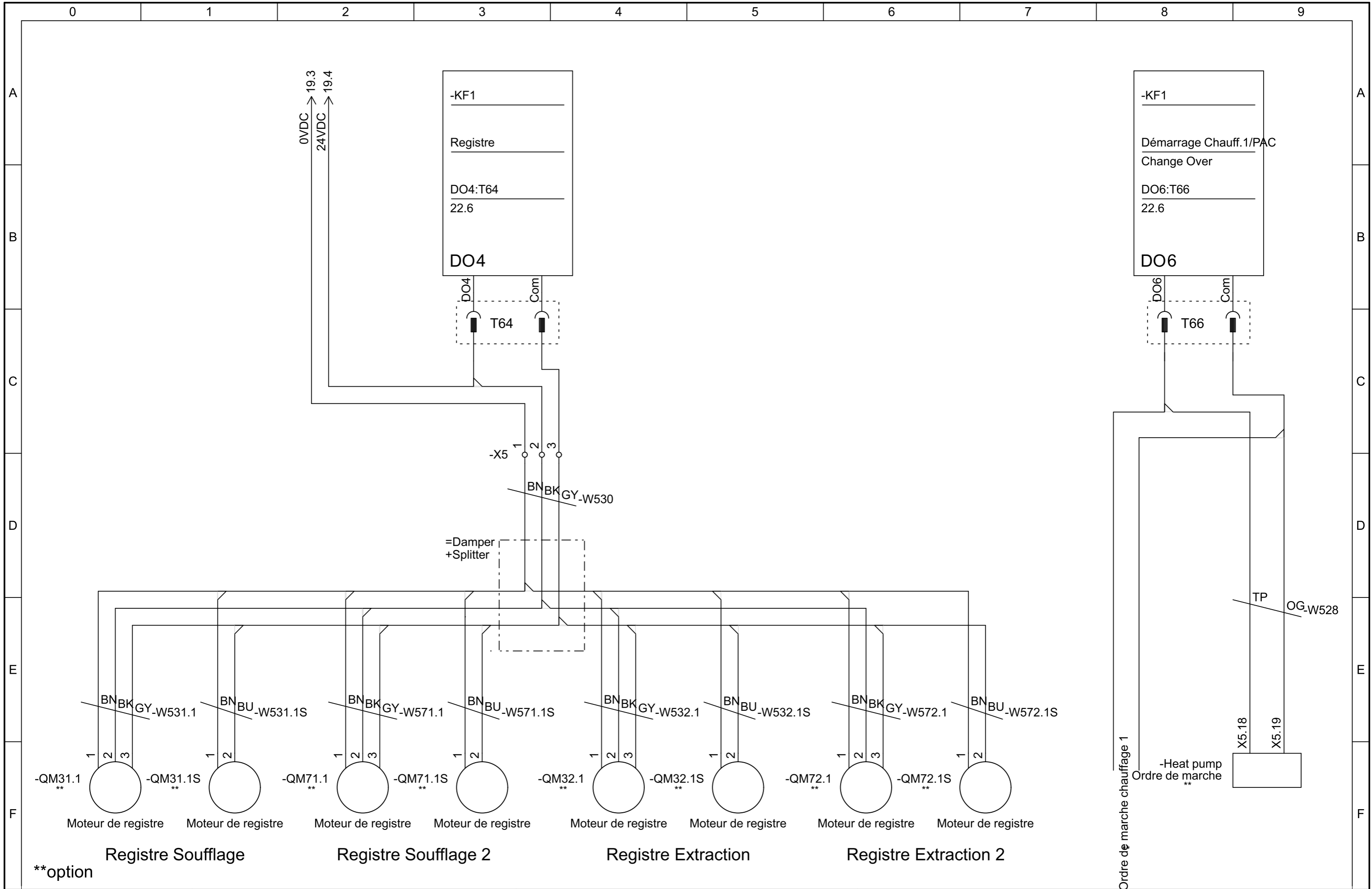


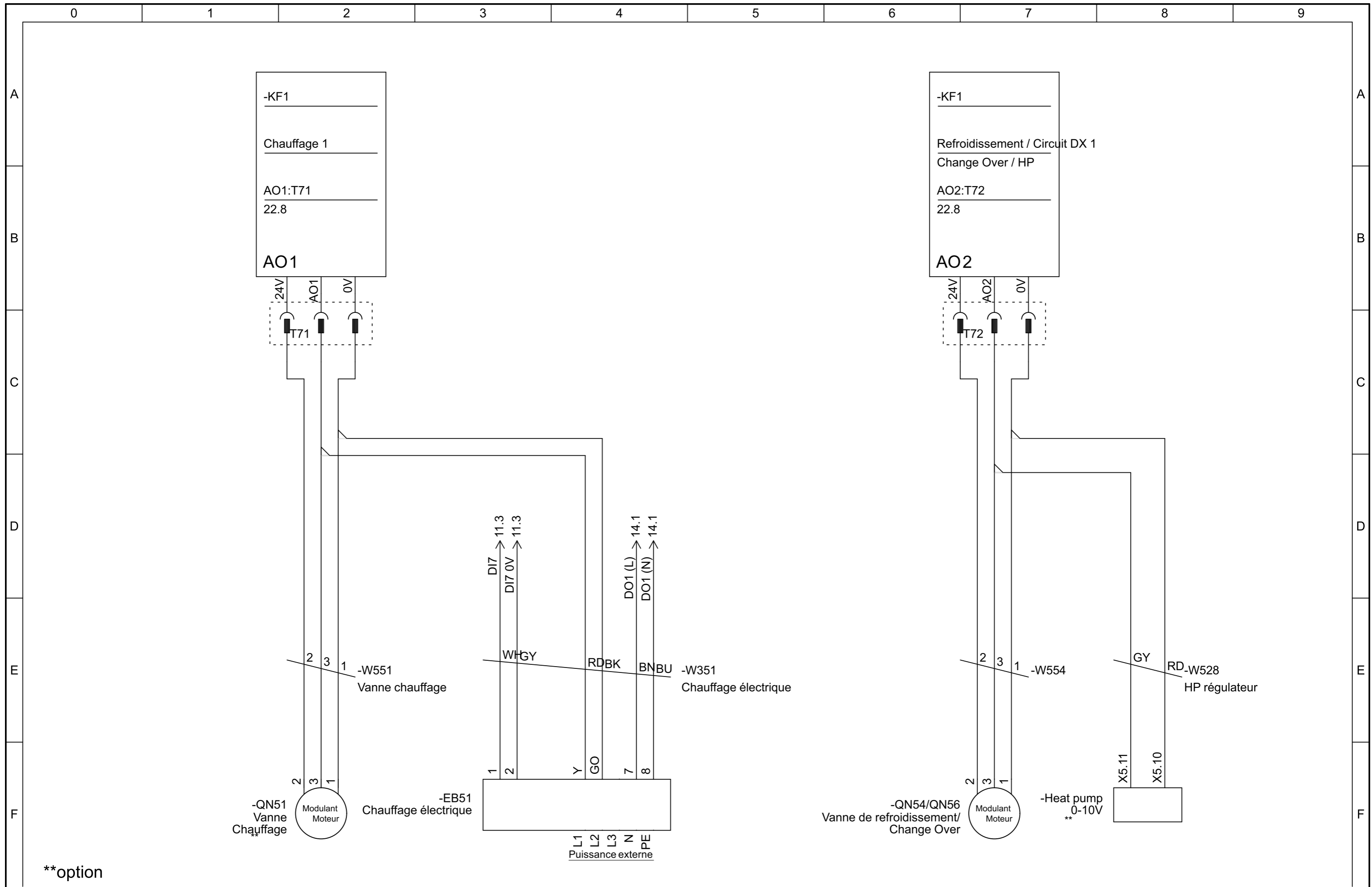
\*\*option



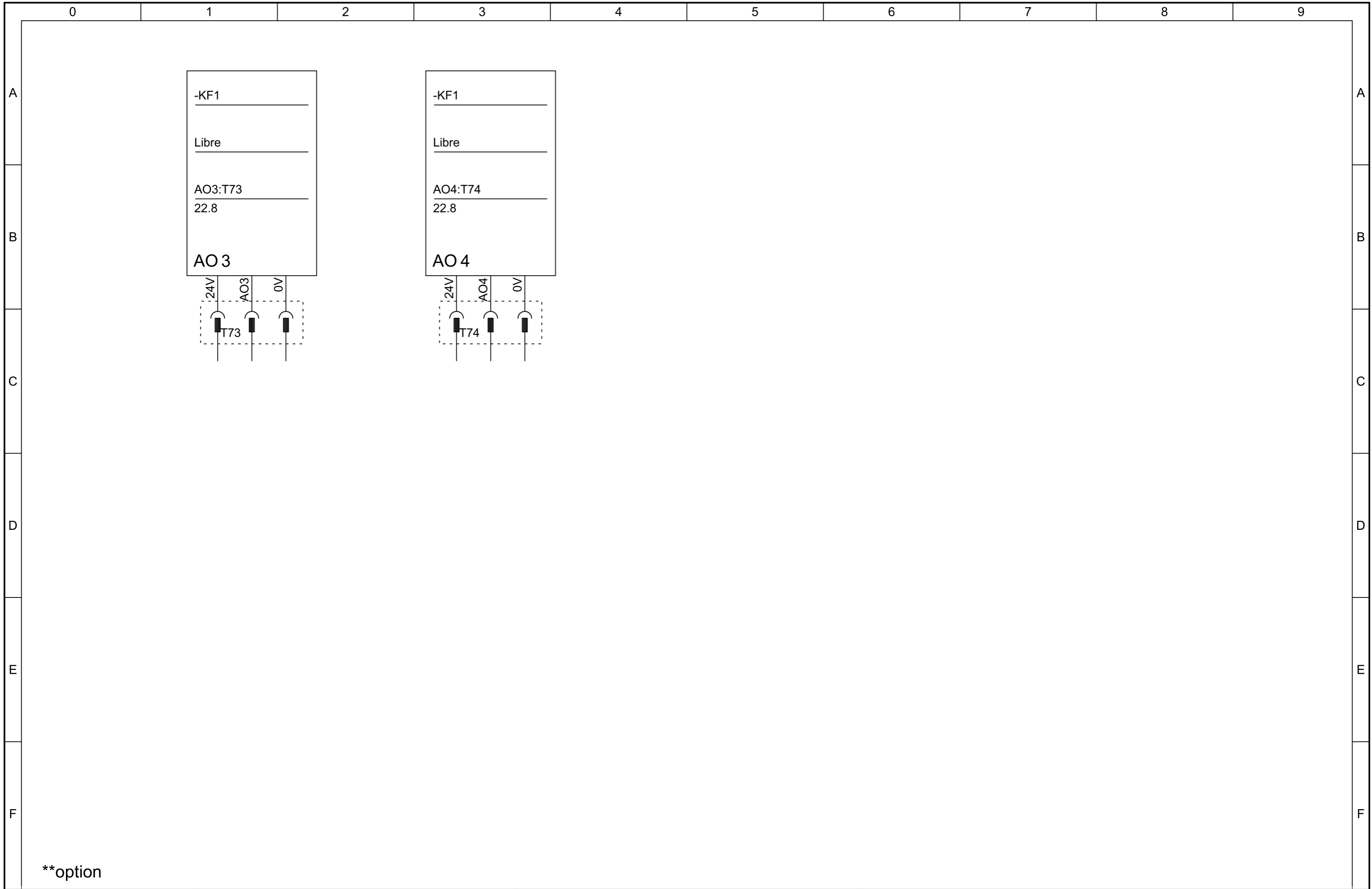


\*\*option

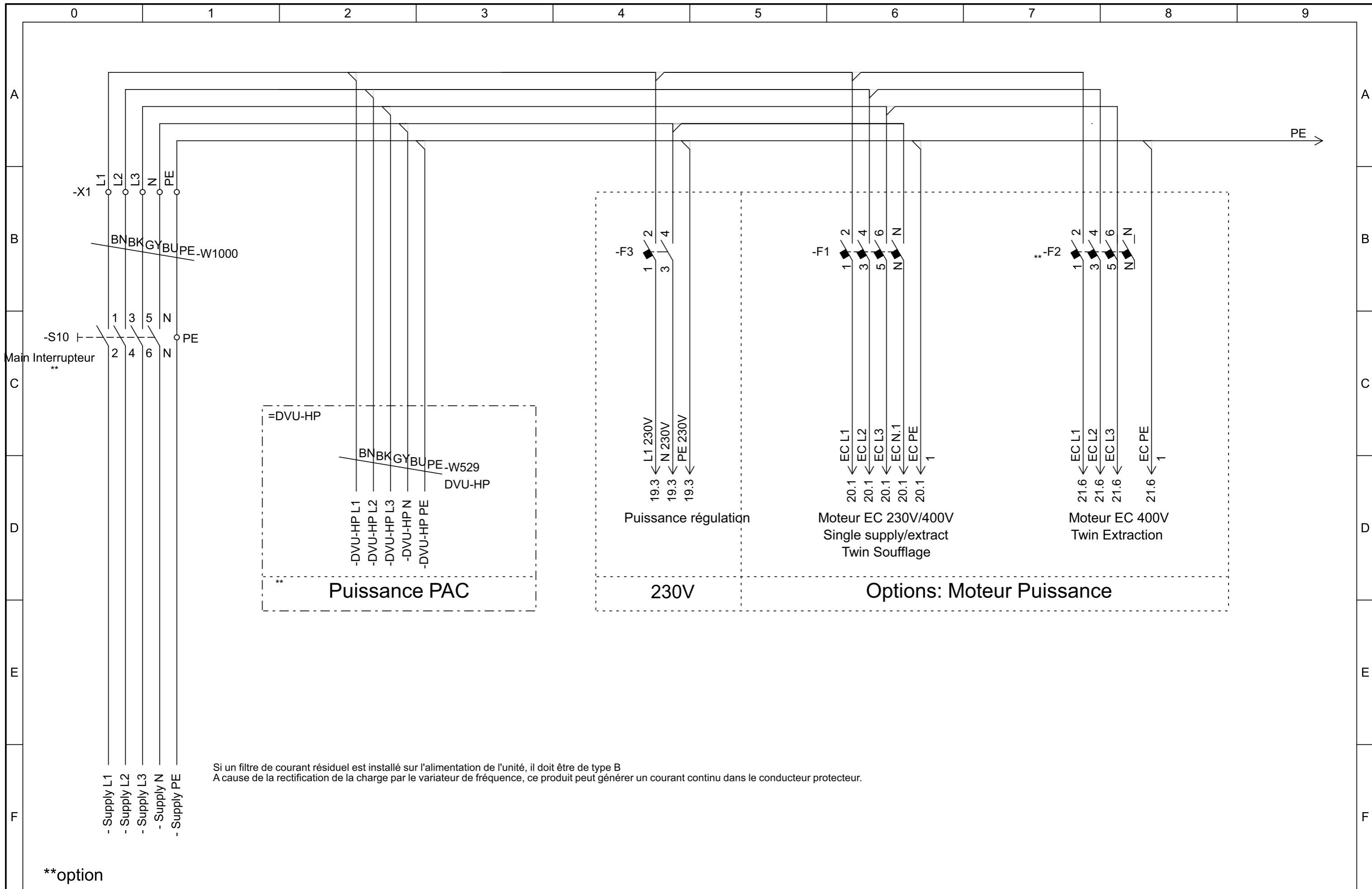




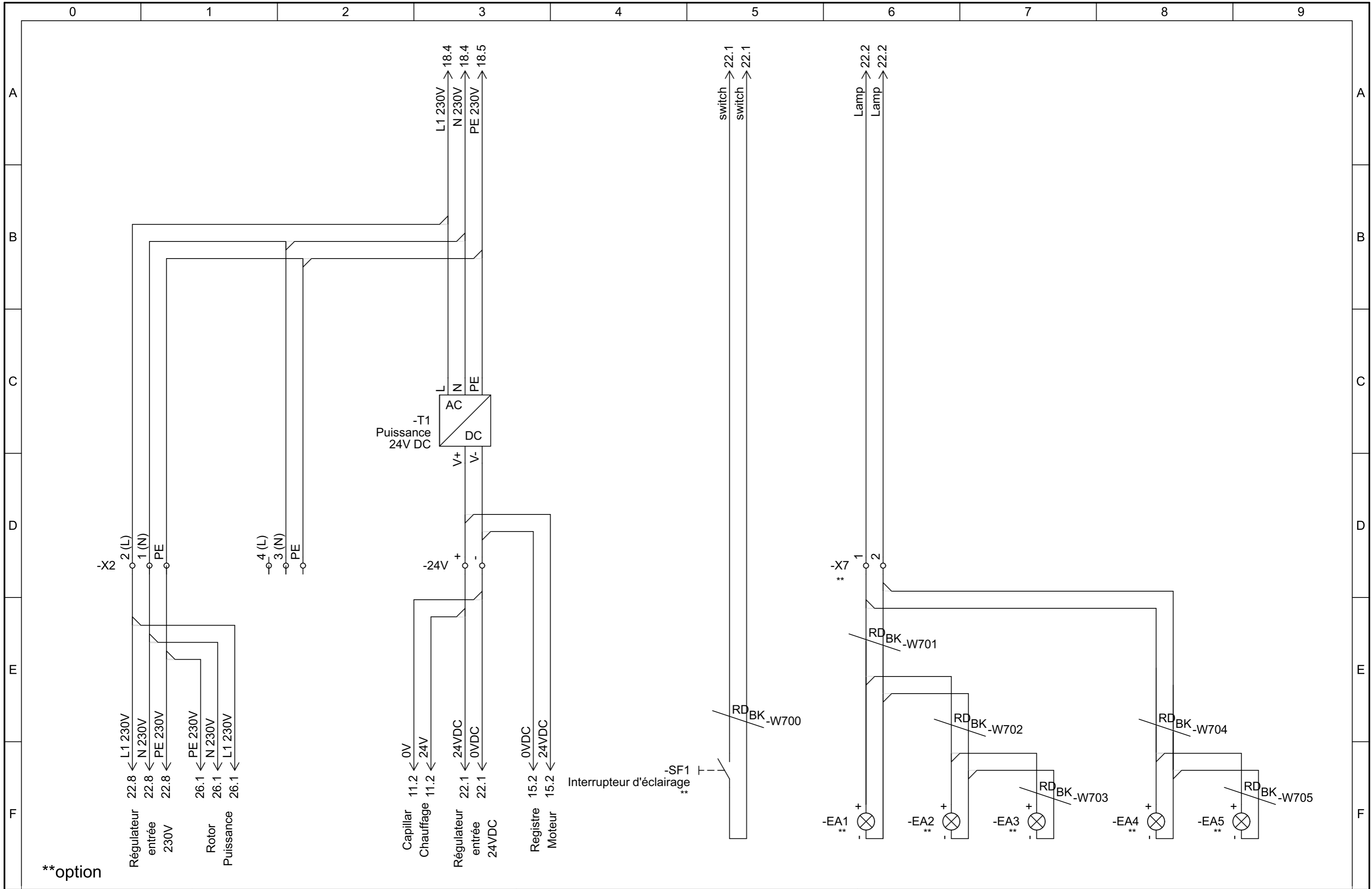
\*\*option



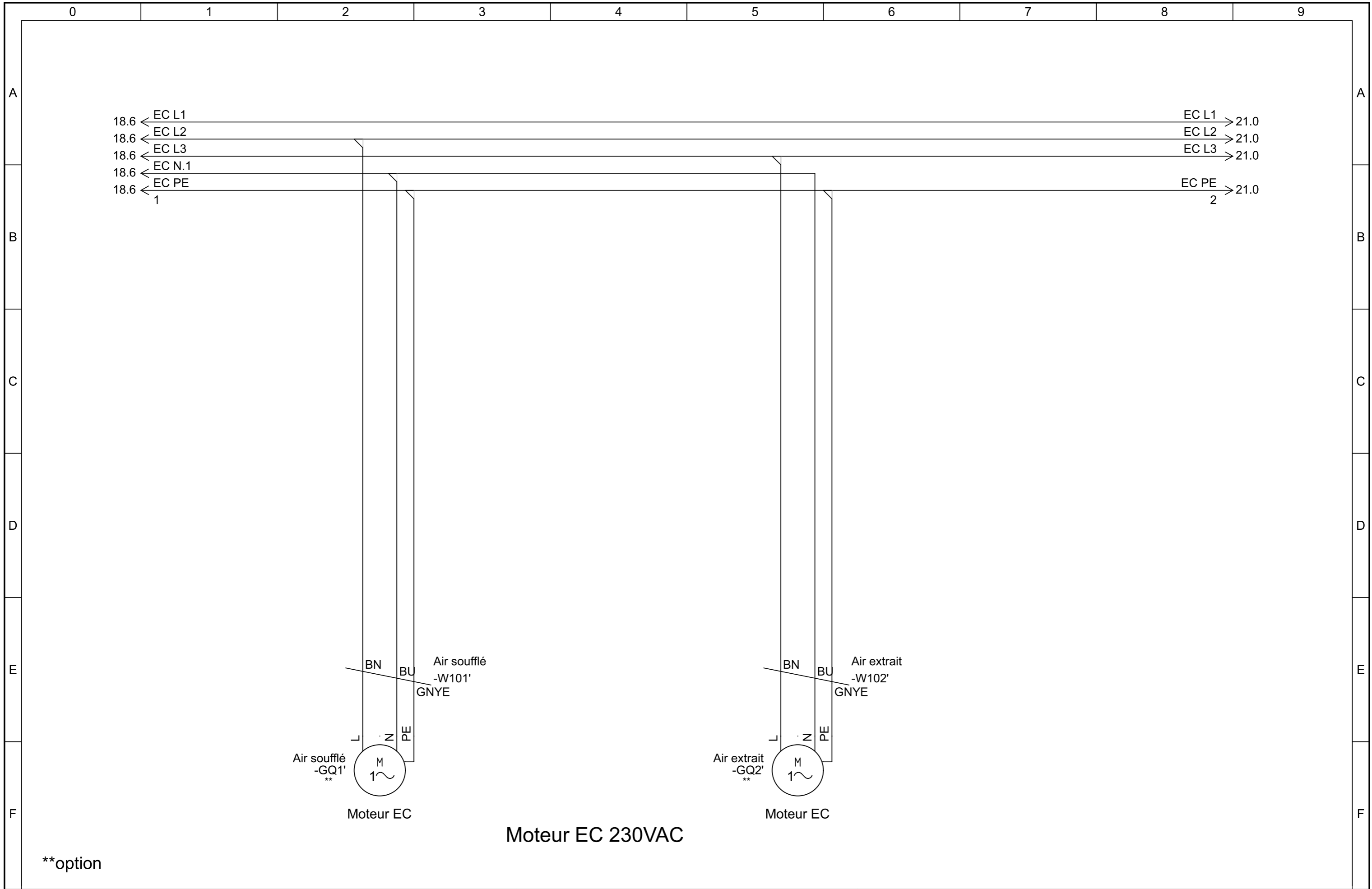
\*\*option

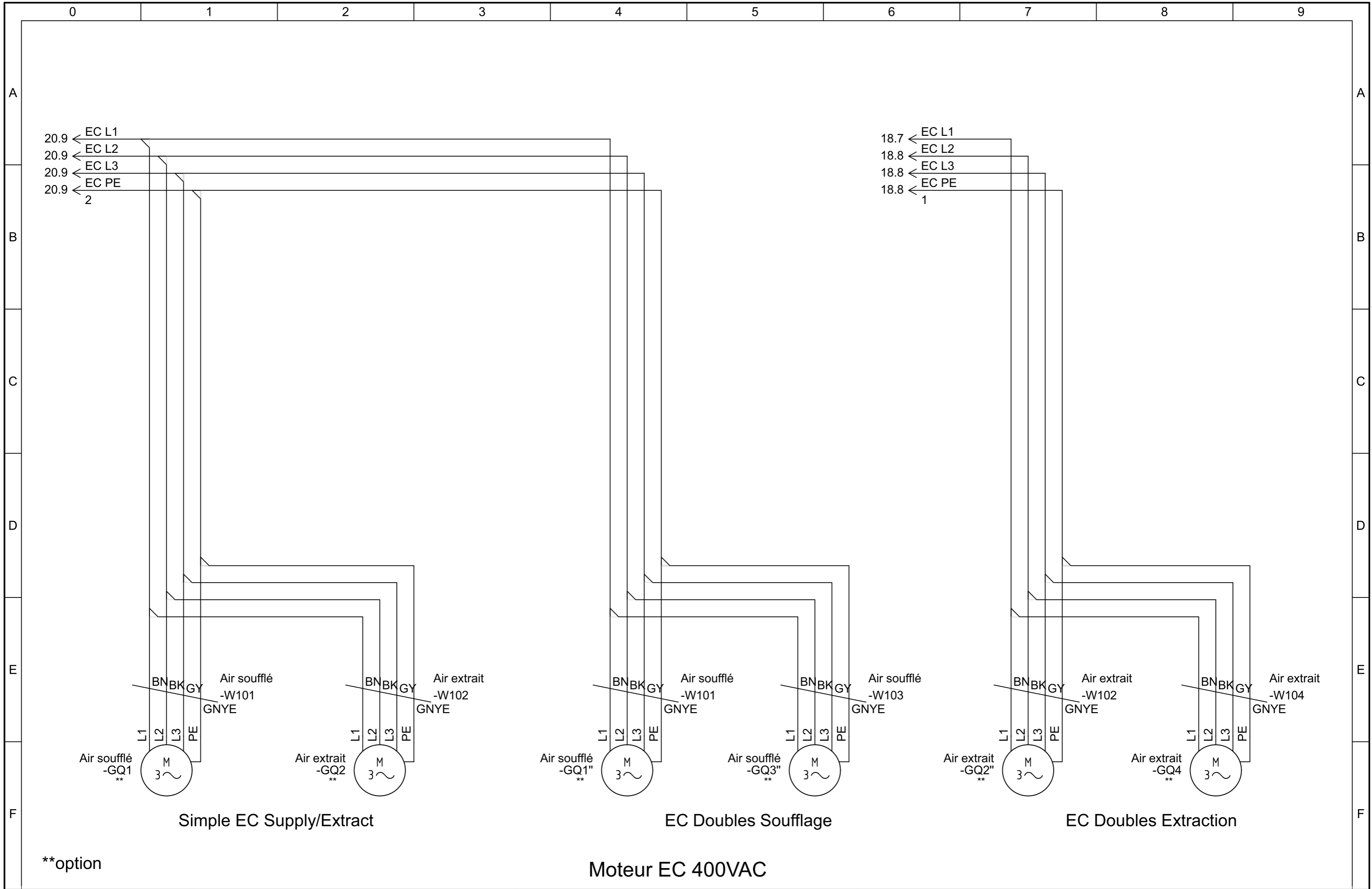


\*\*option



\*\*option







-KF1

### Access CU27 Régulateur

### Systemair A/S

DI1:T32 10.1 DI1  
Vitesse réduite



AI:T1 12.0 (0)  
Détecteur de fumée



DO1:T61 14.2 DO1 (L)  
Ordre de marche chauff. 230V



AO1:T71 16.2 24V  
Chauffage 1



DI2:T31 10.2 DI2  
Ext. GV



AI6:T14 12.2 0V  
Pression Soufflage



DO2:T62 14.4 DO2  
Ordre de marche froid. 1  
Rafraichissement PAC



AO2:T72 16.7 24V  
Refroidissement / Circuit DX 1  
Change Over / HP



DI3:T30 10.4 DI3  
Arrêt externe / High speed/  
Pressostat filtre supp.



AI5:T15 12.4 0V  
Pression Extraction



DO3:T63 14.6 DO3  
extr. Contr.



AO3:T73 17.1 24V  
Libre



DI4:T29 10.6 DI4  
Alarme refroidissement



AI4:T16 12.7 0V  
Sonde CO2 /



DO4:T64 15.3 DO4  
Registre



AO4:T74 17.3 24V  
Libre



DI5:T28 10.8 DI5  
Ext. Change Over /  
HP Dégivrage



UI1:T81 13.1 24V  
Soufflage



DO5:T65 14.8 DO5  
Alarme / Registre incendie /  
Indication de fonctionnement



DI6:T27 11.1 DI6  
Thermostat antigel



UI2:T82 13.3 24V  
Gel



DO6:T66 15.8 DO6  
Démarrage Chauff.1/PAC  
Change Over



DI7:T26 11.3 DI7  
Pump  
EI-coil overheat



UI3:T83 13.5 24V  
Ambiance 1 Temp.



DI8:T25 11.5 DI8  
Alarme incendie



UI4:T84 13.8 24V  
Extérieur



Entrée 24VDC

Light

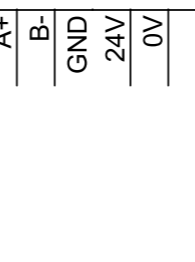
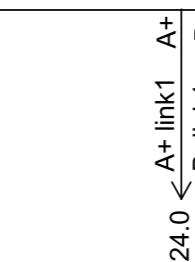
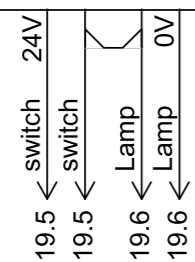
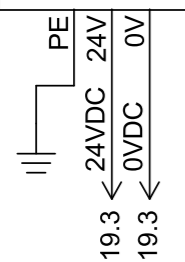
Int-link 1

Int-link 2

Ext-link

GTC

Entrée 230V



Geniox  
Access CU27 Régulateur

Access CU27 Régulateur

Projet:

Geniox-Core CS 41.04.02 FR

Rev.:

41.04.02

Page:

22

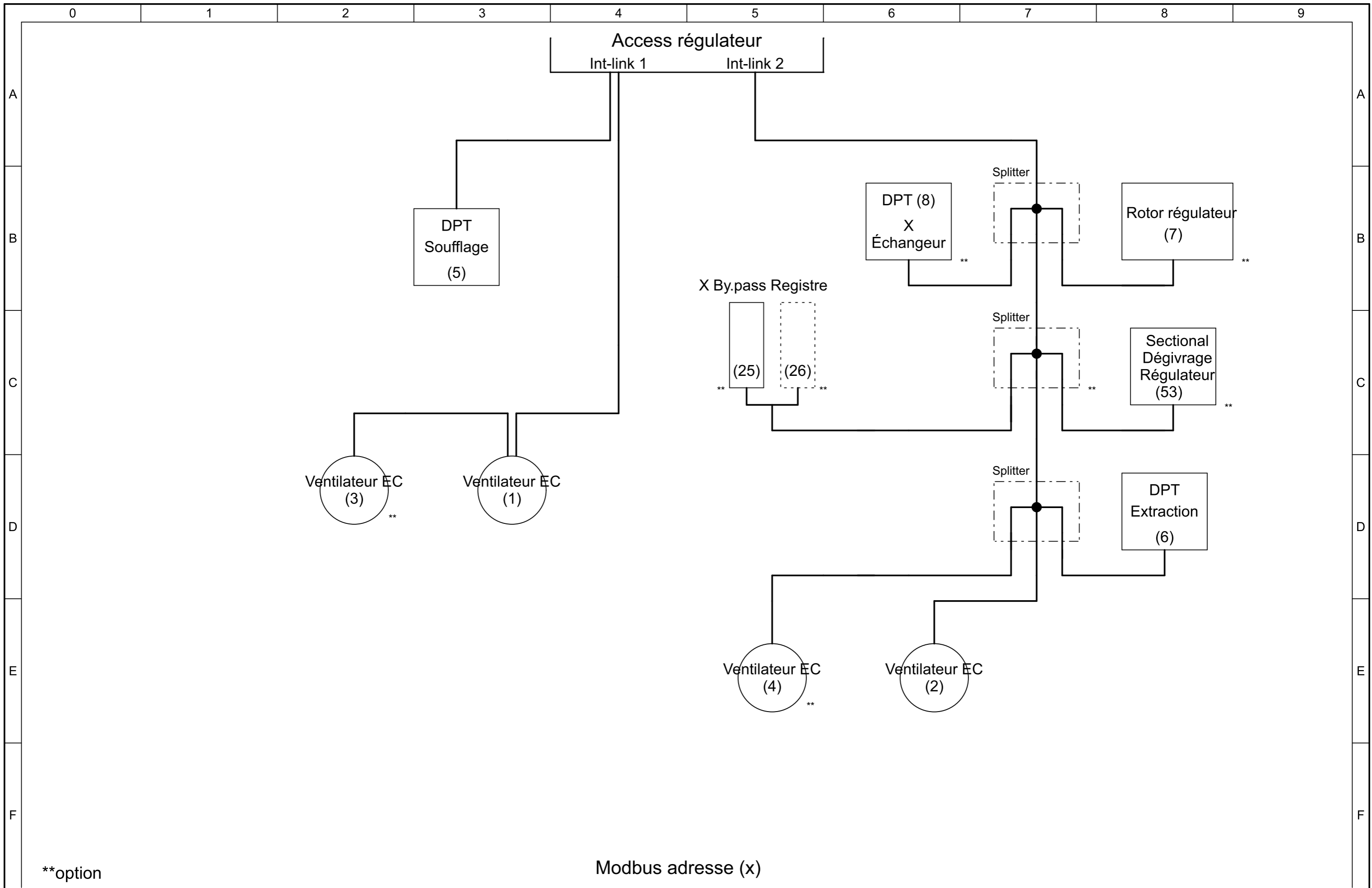
Date:

15-01-2020

initiales:  
MIKE

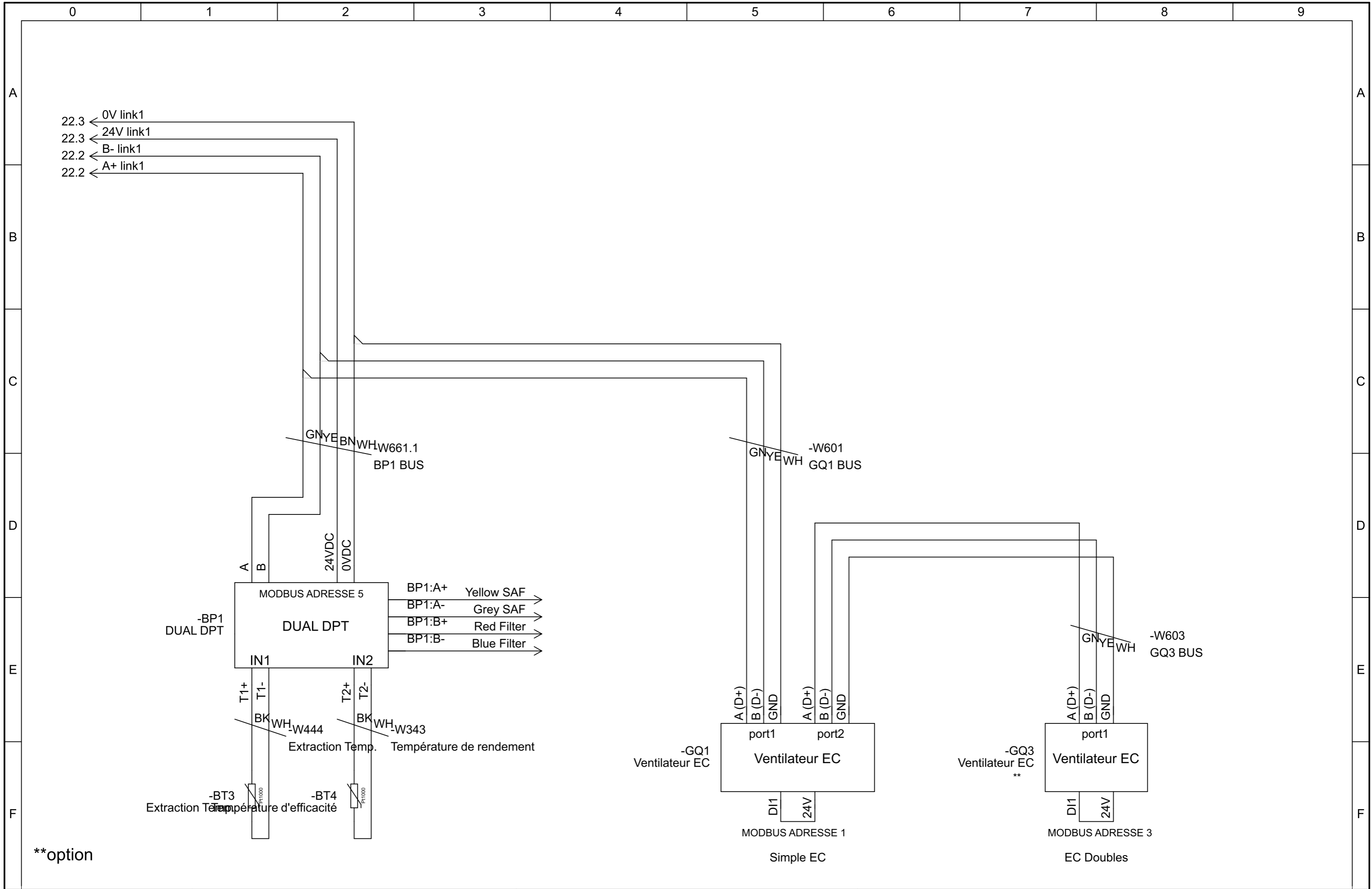
Total pages:  
19

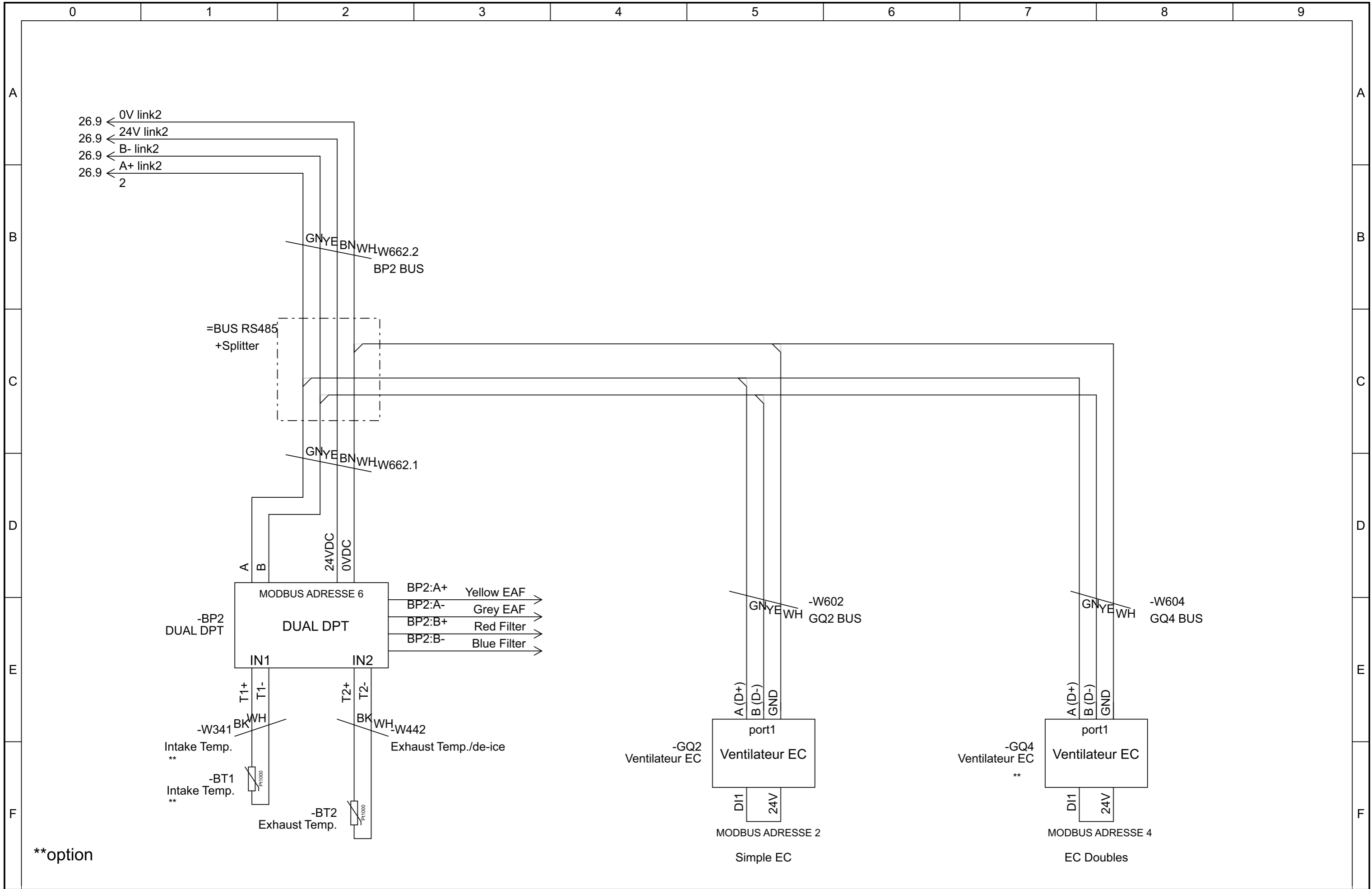
Page suivante:  
23



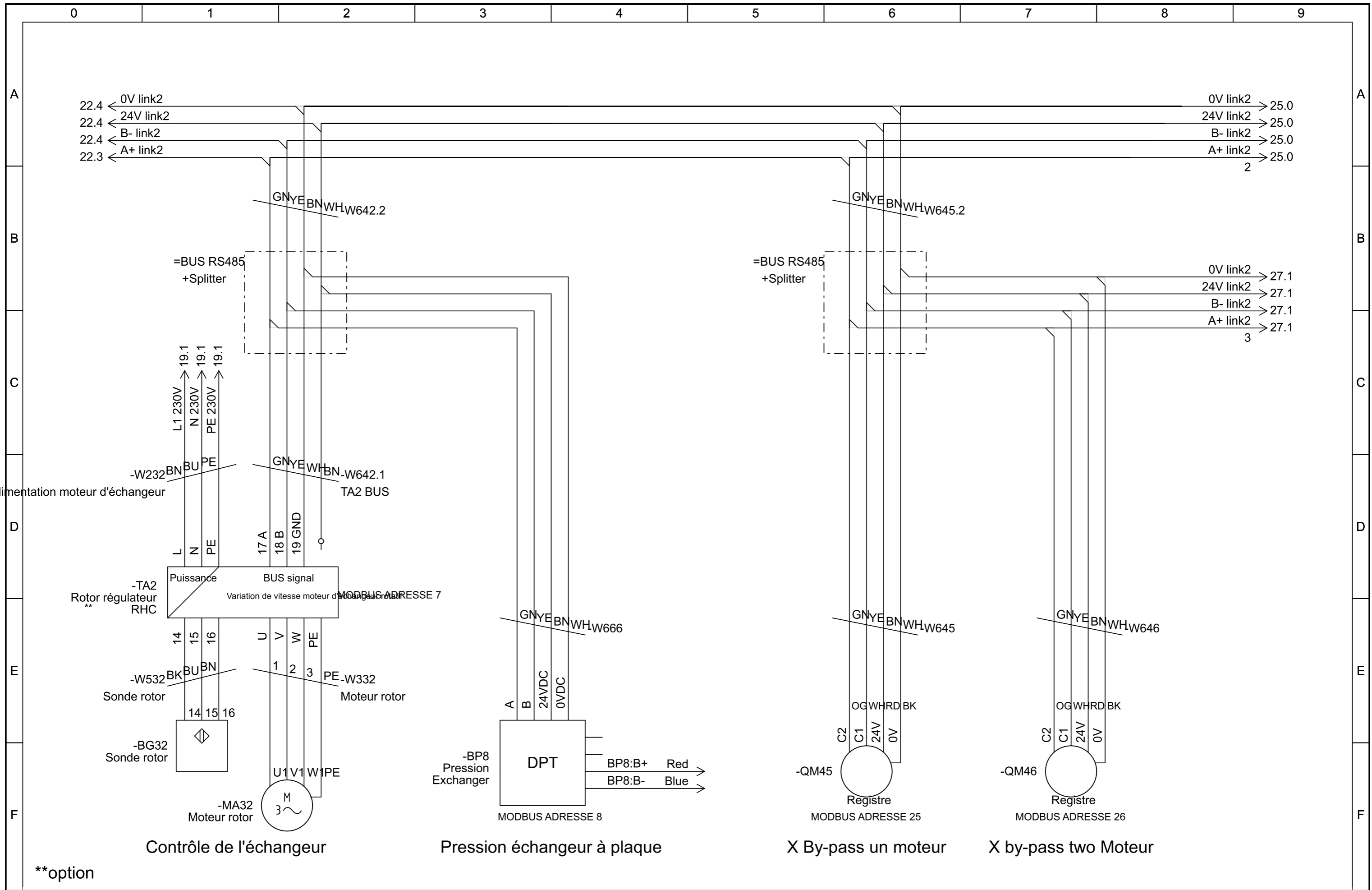
\*\*option

Modbus adresse (x)

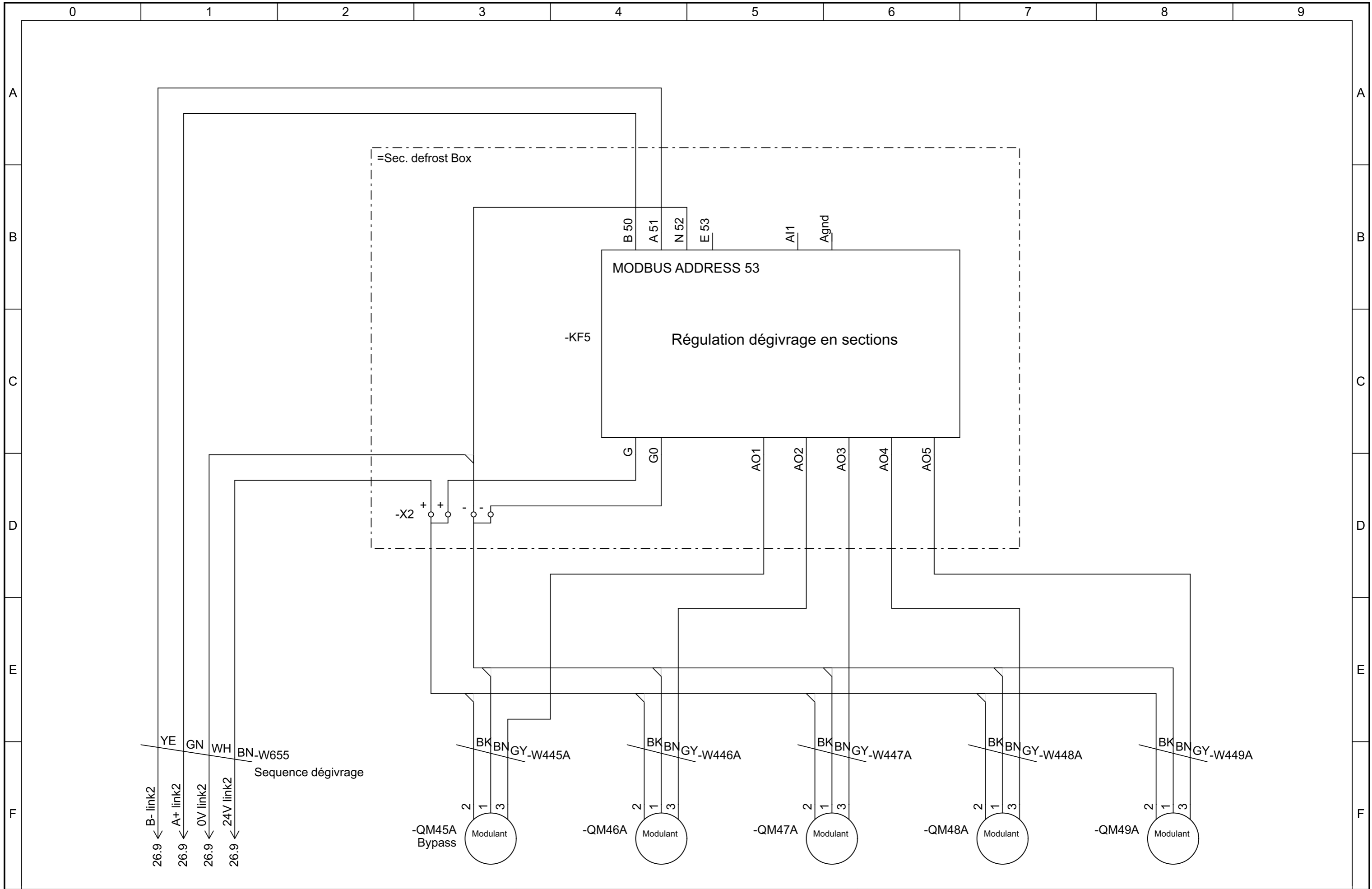




\*\*option



\*\*option



### Address list

### Systemair settings of ECblue Modbus

Address	Component: Code
1	Supply air fan 1: GQ1
2	Extract air fan 1: GQ2
3	Supply air fan 2: GQ3
4	Extract air fan 2: GQ4
5	Dual pressure transmitter supply: BP1
6	Dual pressure transmitter extract: BP2
7	RHC (Rotor drive system): TA2
8	Pressure Exchanger: BP8
25	Plate exchanger by-pass: QM45
26	Plate exchanger "by-pass" 2: QM46
53	Sectional Defrost control: KF5

COM Baudrate: 9600Bd

COM Mode: 8N1

BUS Address: Supply air, 1 and (3, Twin fans)

Extract air, 2 and (4, Twin fans)

D1: 19D

D1 is set to disable internal safety functions that protects the motor (fire mode)

Normal speed control of the fan is possible in this mode.

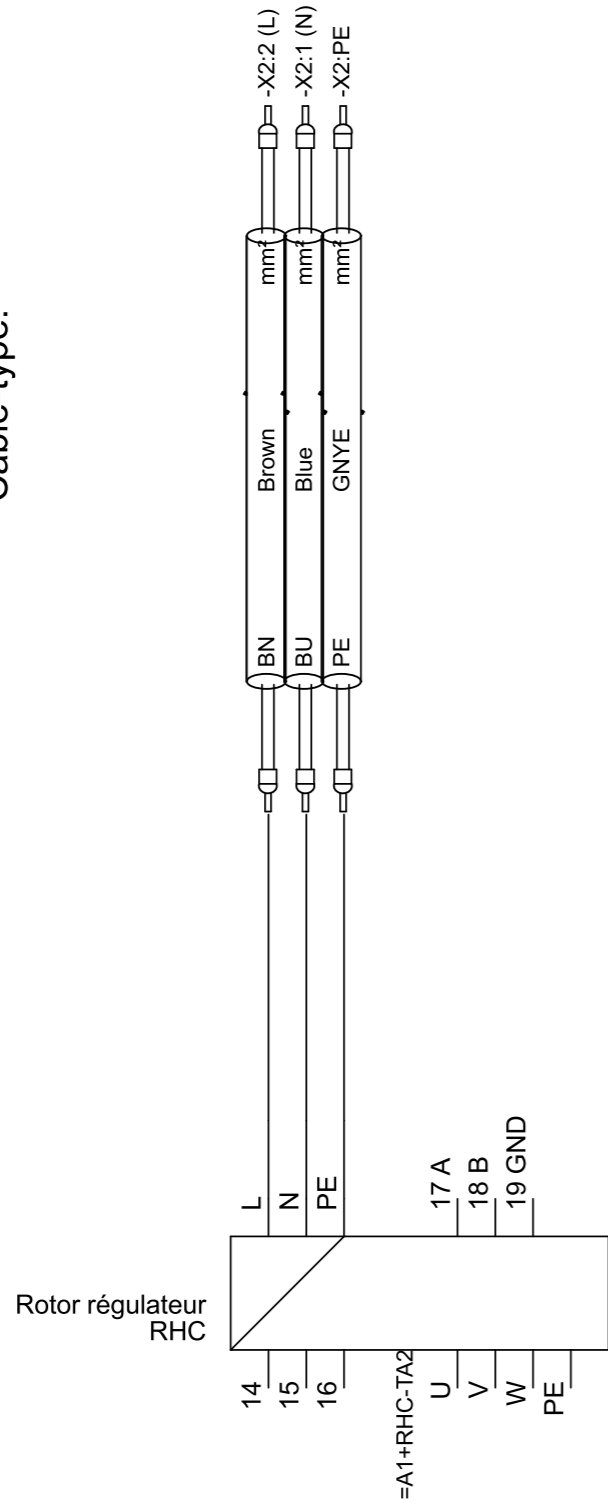
Function is active if D1 is open = no signal.

# Principe du câblage

Page: 100

-W232

Remarque: Alimentation du moteur d'échappement  
Cable-type:

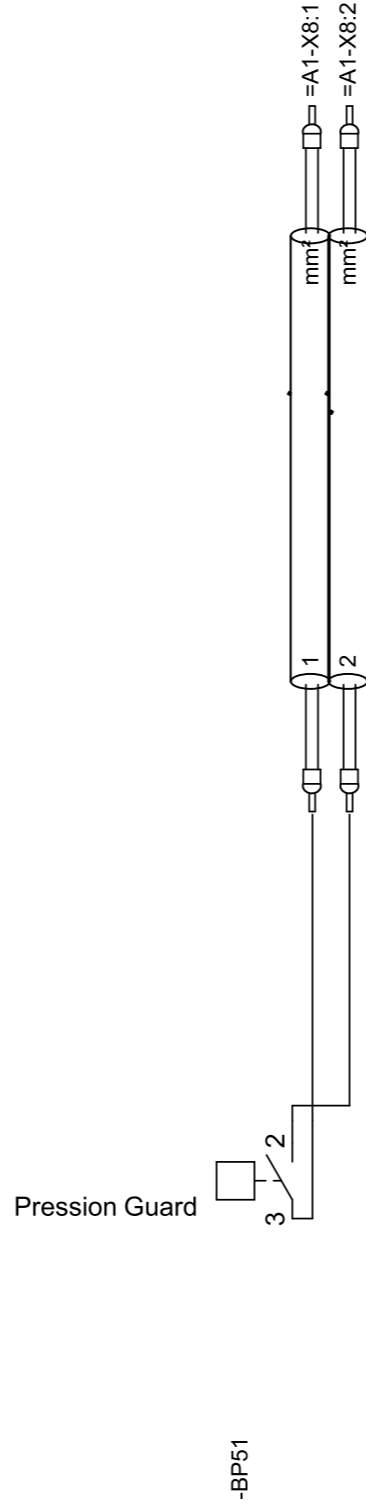


26  
26  
26

1  
1  
1

-W251

Remarque:  
Cable-type:

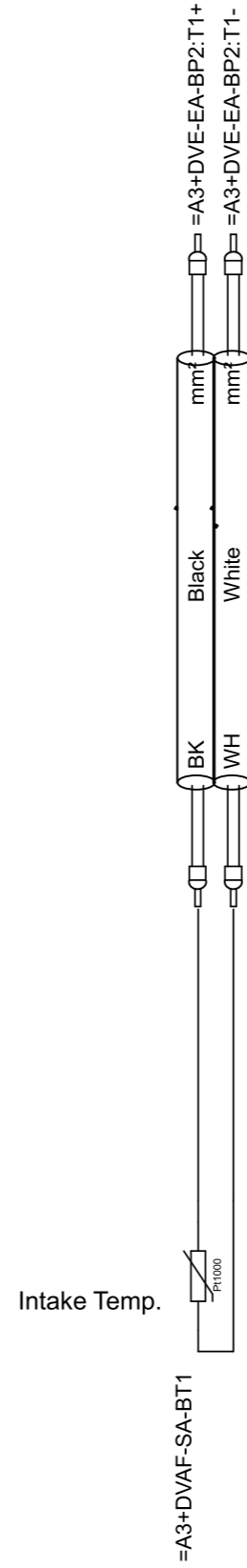


14  
14

1  
1

-W341

Remarque: Intake Temp.  
Cable-type:



25  
25

1  
1



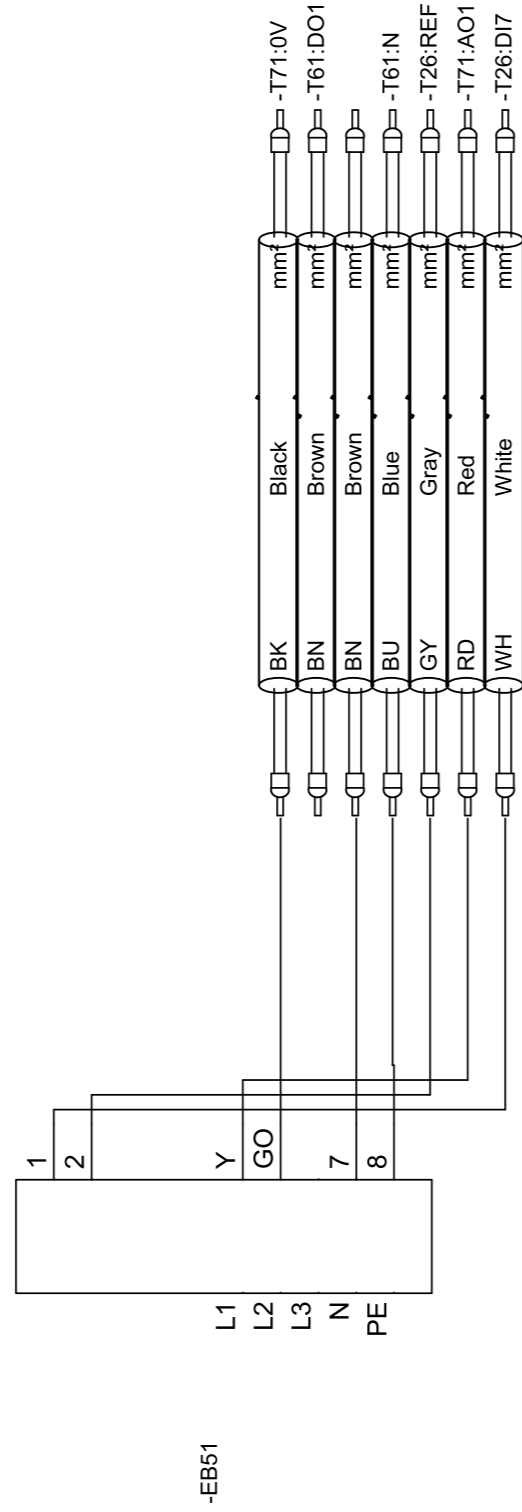
# Principe du câblage

Page: Voie

Remarque: Batterie électrique  
Cable-type:

## -W351

Chauffage électrique

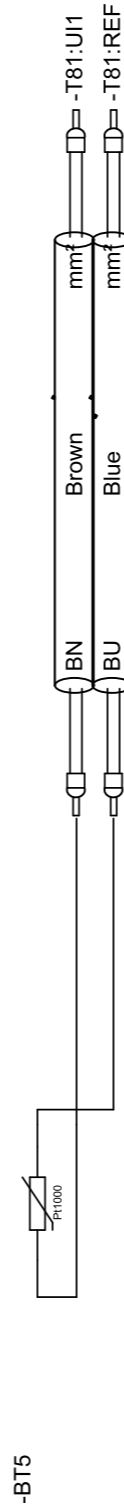


-EB51

16 4  
16 4  
16 4  
16 4  
16 3  
16 4  
16 3

## -W355

Soufflage  
Sonde d'gaine



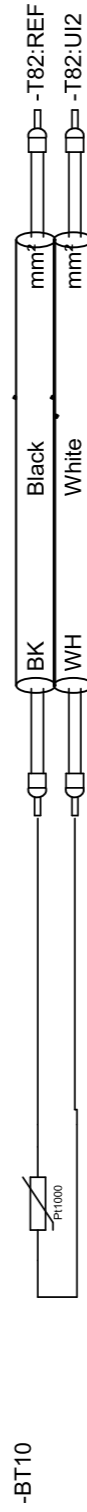
-BT5

13 1  
13 1

Remarque: Sonde de température de soufflage  
Cable-type:

## -W357

Protection antigel  
Pt 1000



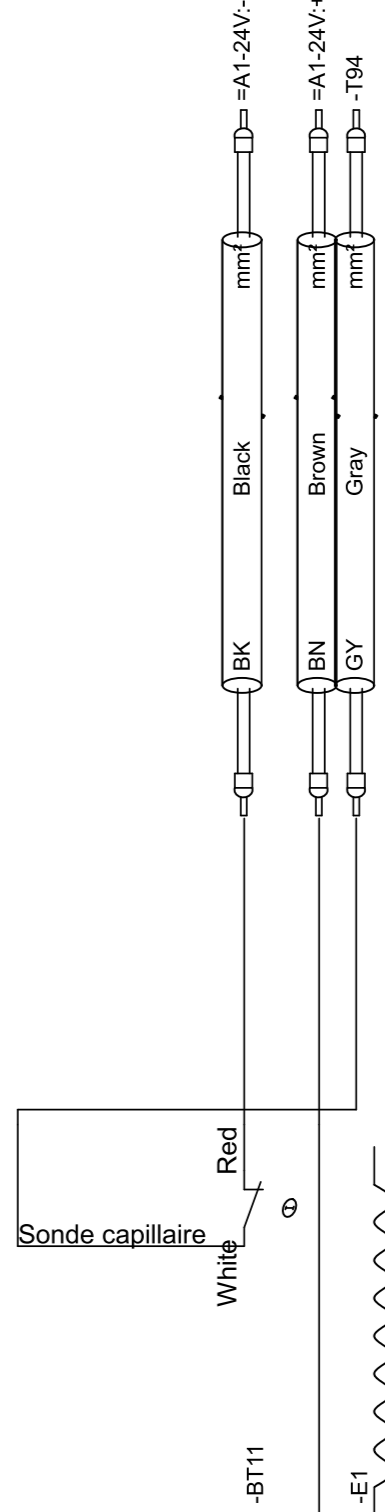
-BT10

13 4  
13 3

Remarque: Protection antigel batterie eau chaude  
Cable-type:

## -W359

Sonde capillaire



-BT11

11 2  
11 2  
11 1

Remarque: Thermostat antigel  
Cable-type:

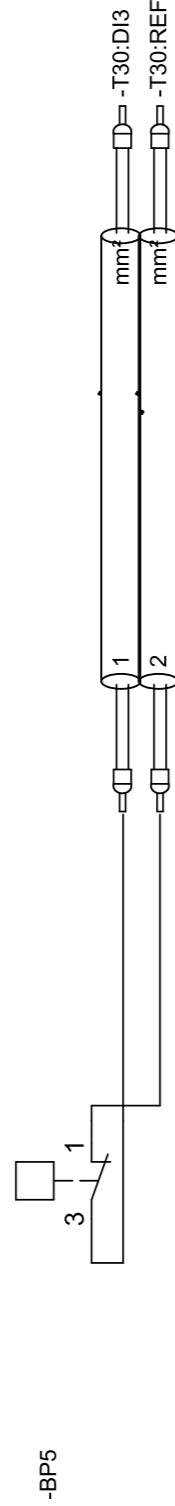
# Principe du câblage

Voie  
Page:

Remarque: Pressostat filtre sup.  
Cable-type:

**-W363**

Pressostat filtre supp.  
Supply air

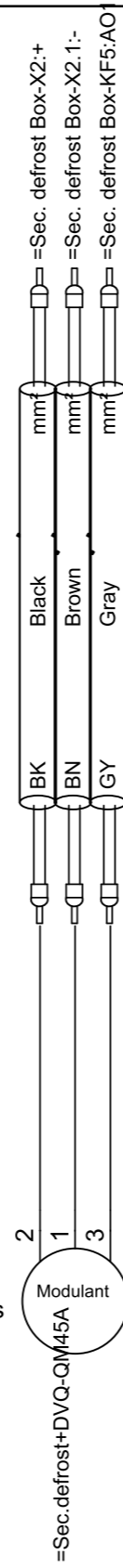


4  
10

**-W445A**

Remarque:  
Cable-type:

Bypass



3  
27  
3  
27  
3  
27

**-W446A**

Remarque:  
Cable-type:



4  
27  
4  
27  
4  
27

**-W447A**

Remarque:  
Cable-type:



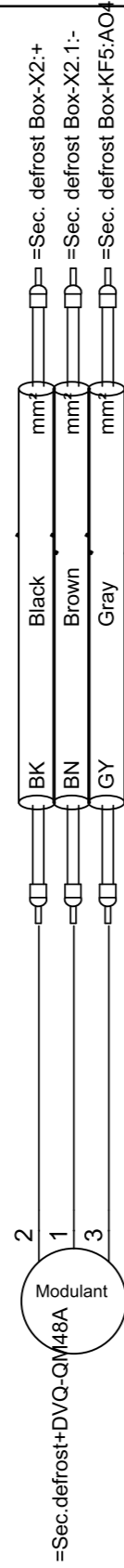
5  
27  
6  
27  
6  
27

# Principe du câblage

Voie  
Page:

**-W448A**

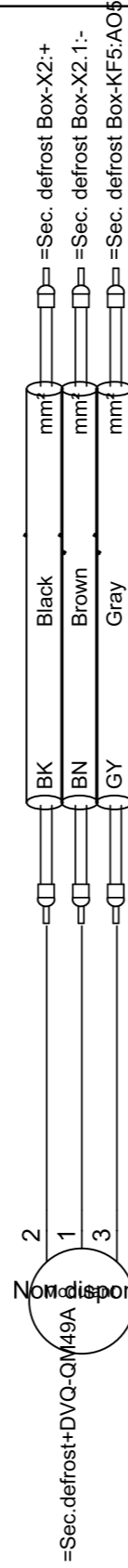
Remarque:  
Cable-type:



27  
27  
27

**-W449A**

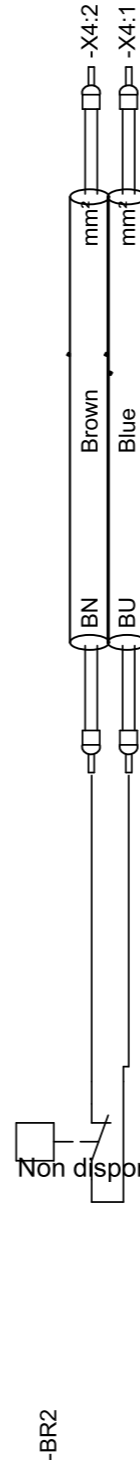
Remarque:  
Cable-type:



27  
27  
27

**-W456**

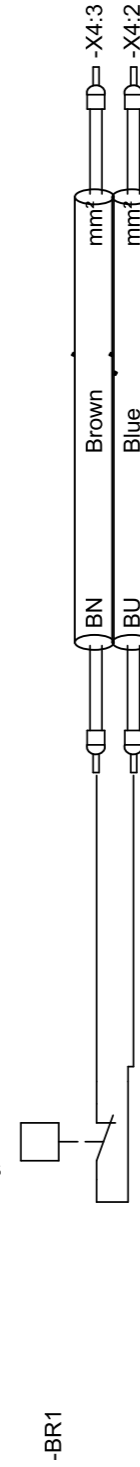
Remarque: Thermostat incendie air extrait  
Cable-type:



11  
11

**-W457**

Remarque: Thermostat incendie  
Cable-type: 2x0,75mm2



11  
11

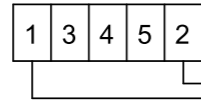
# Principe du câblage

Voie  
Page:

Remarque: Détecteur de fumée  
Cable-type:

**-W458**

Délect. Fumée\*\*



-BQ3



0  
12  
12

**-W507**

Extérieur Temp.  
Pt 1000



-BT7



8  
13  
13

**-W508**

Ambiance 1  
Pt 1000



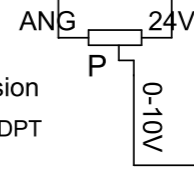
-BT8



6  
13  
13

**-W513**

Transmetteur de pression  
DPT



-BP3



3  
12  
12  
3  
12  
2

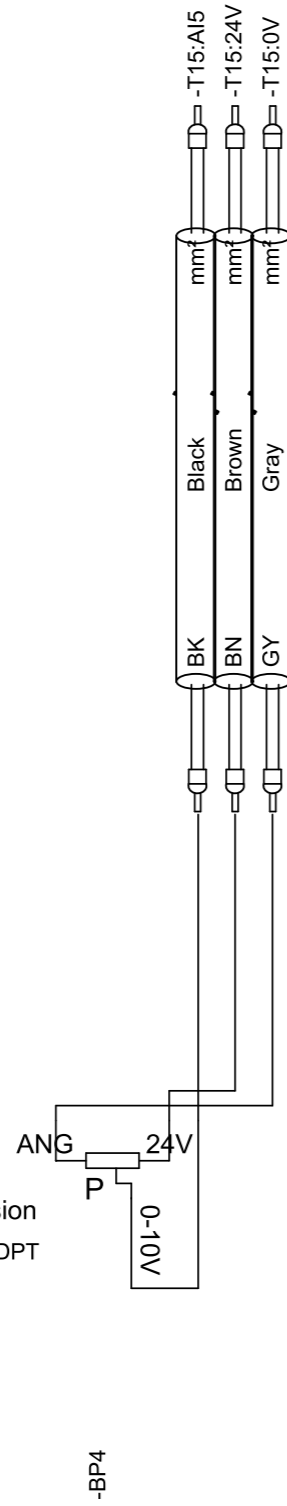
# Principe du câblage

Voie  
Page:

Remarque: Pression air extrait externe  
Cable-type:

**-W514**

Transmetteur de pression  
DPT

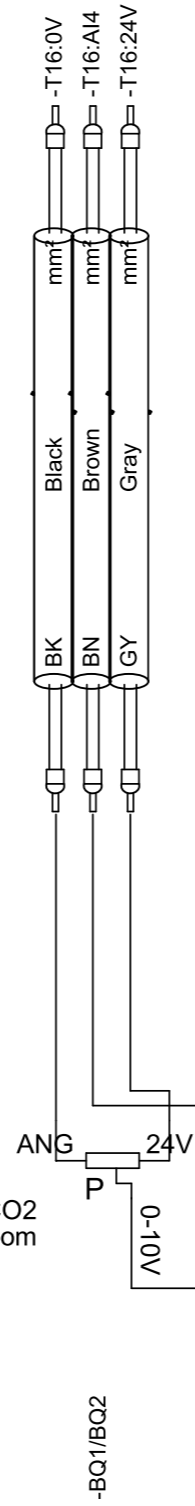


4  
5  
4  
12  
12  
12

**-W515/516**

Remarque: sonde CO2  
Cable-type:

Sonde CO2  
Duct/Room

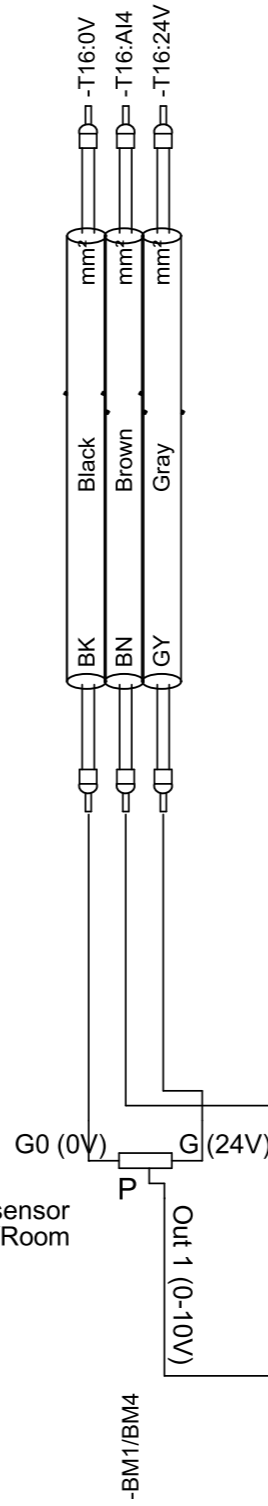


6  
6  
7  
12  
12  
12

**-W517/W520**

Remarque: RH sensor  
Cable-type:

RH sensor  
Extract/Room



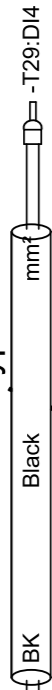
8  
8  
8  
12  
12  
12

# Principe du câblage

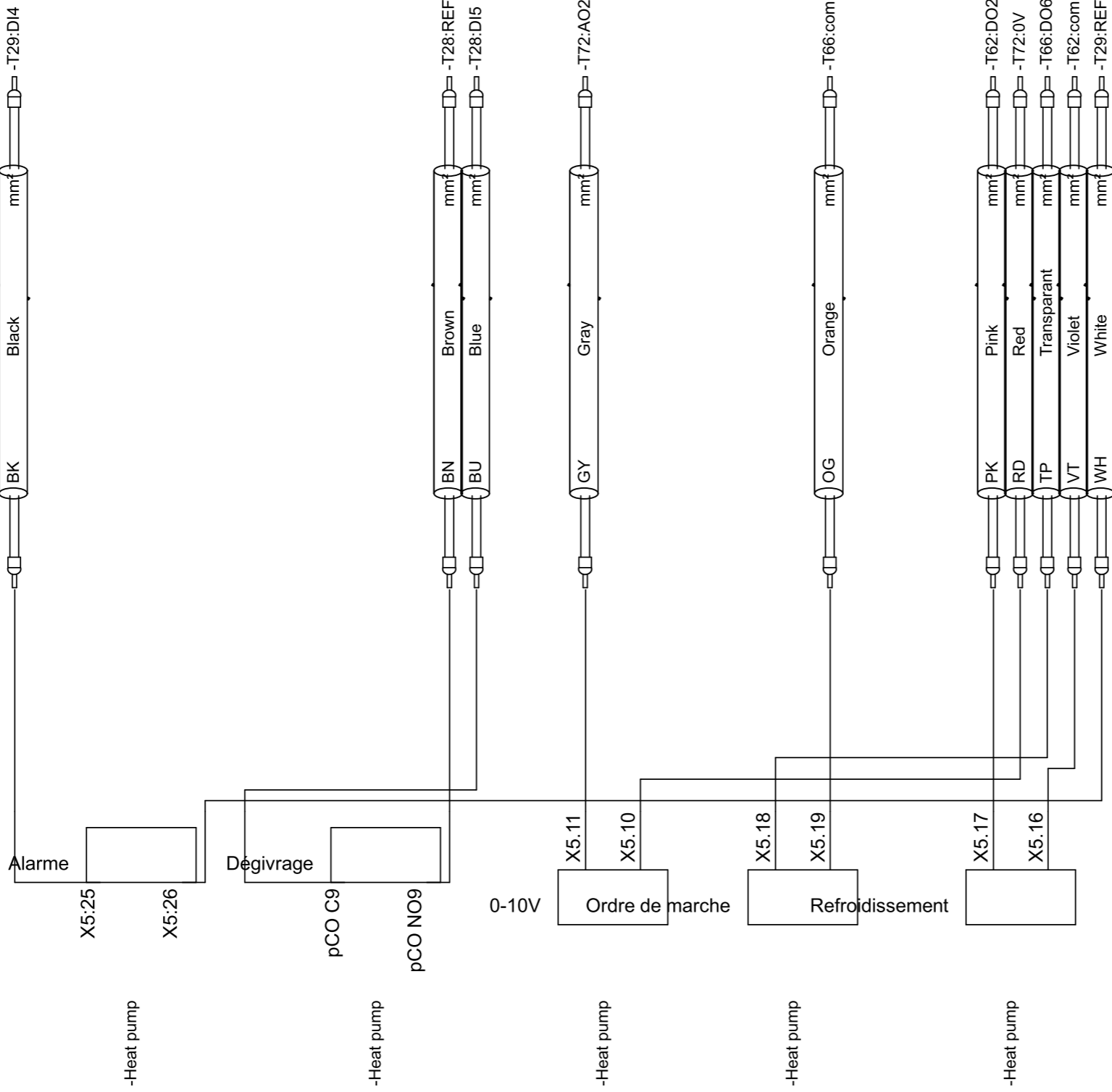
Page: 10

Voie 6

Remarque: Régulation PAC  
Cable-type: Black

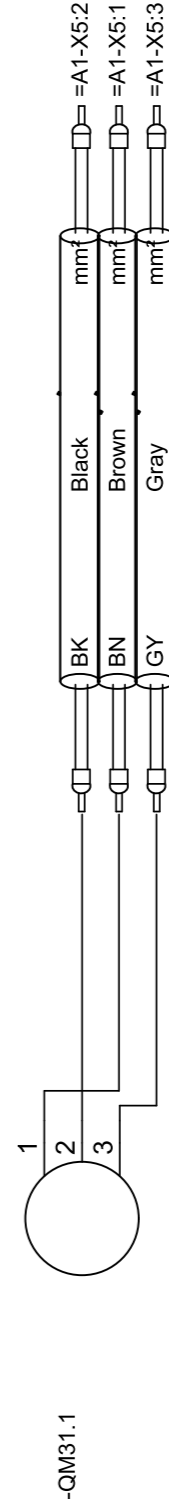


-W528



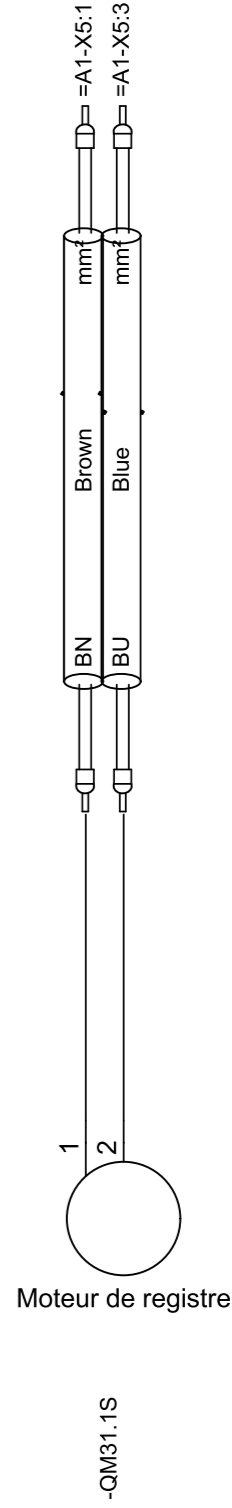
-W531.1

Remarque: Registre Soufflage  
Cable-type:



-W531.1S

Remarque: Registre Soufflage  
Cable-type:



10

10

10

16

15

14

16

15

14

10

15

15

15

15

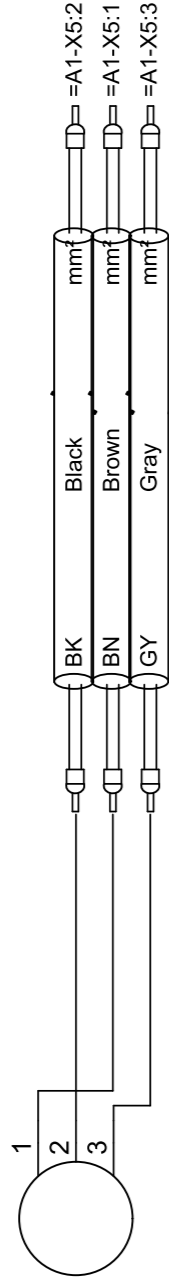
15

# Principe du câblage

Page: Voie

Remarque: Registre Extraction  
Cable-type:

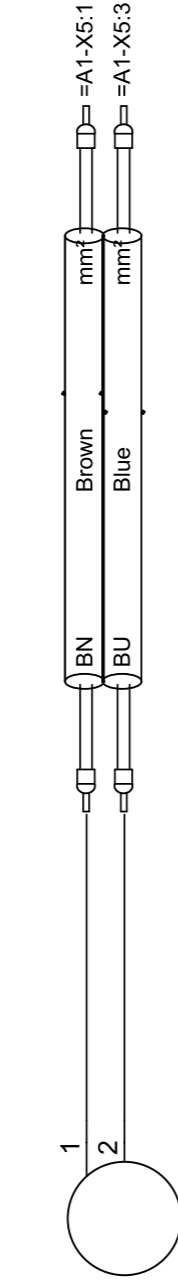
-W532.1



-QM32.1

Remarque: Registre Extraction  
Cable-type:

-W532.1S



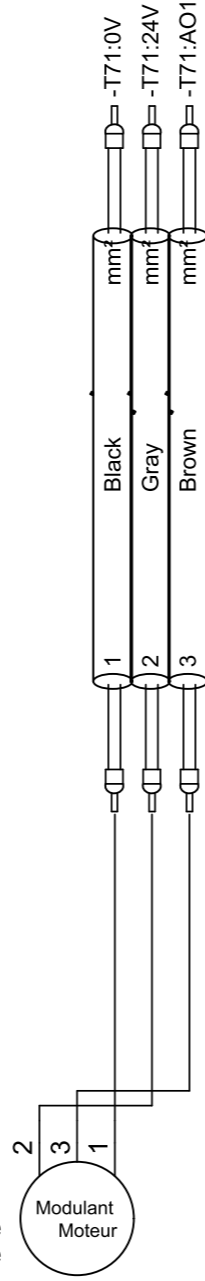
-QM32.1S

Moteur de registre

Remarque: Vanne chaud  
Cable-type:

-W551

Vanne  
Chauffage

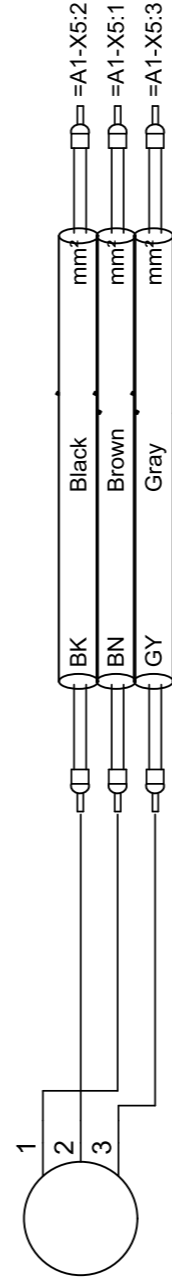


-QN51

Modulant  
Moteur

Remarque: Registre Soufflage 2  
Cable-type:

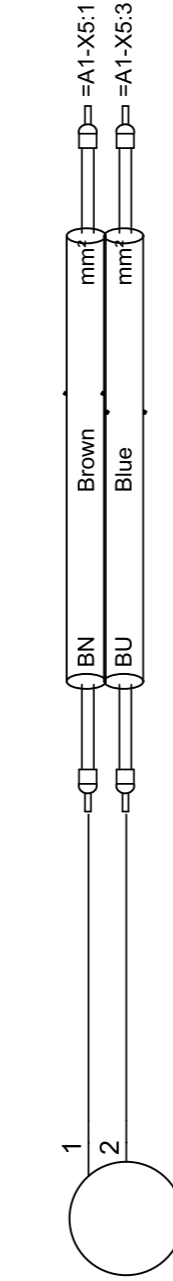
-W571.1



-QM71.1

Remarque: Registre Soufflage 2  
Cable-type:

-W571.1S

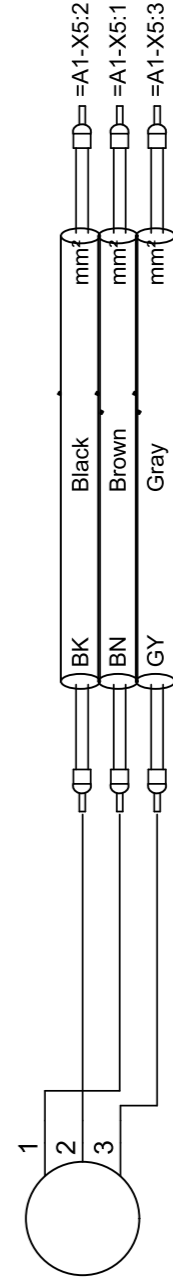


-QM71.1S

Moteur de registre

Remarque: Registre Extraction 2  
Cable-type:

-W572.1

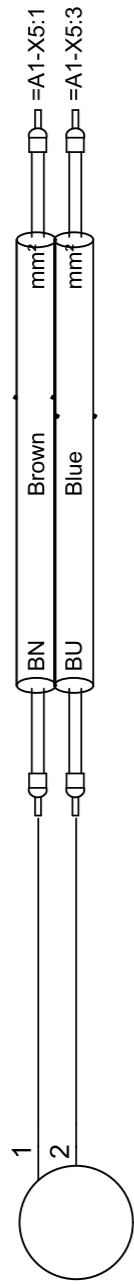


-QM72.1

# Principe du câblage

Page: Voie

Remarque: Registre Extraction 2  
Cable-type:

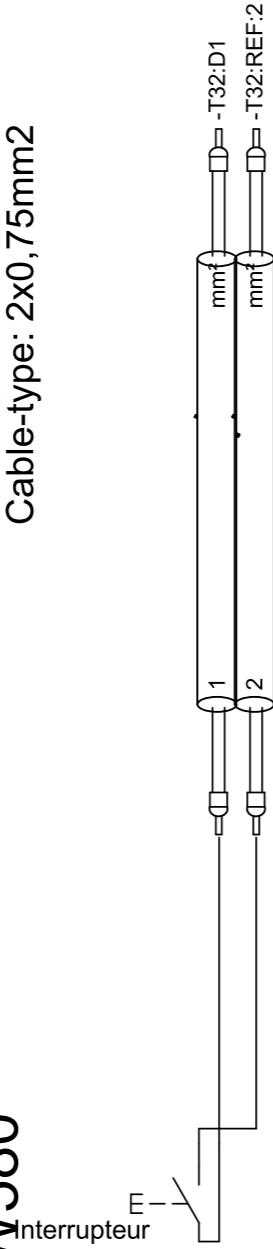


-QM72.1S

Moteur de registre

Remarque: Vitesse réduite PV  
Cable-type: 2x0,75mm2

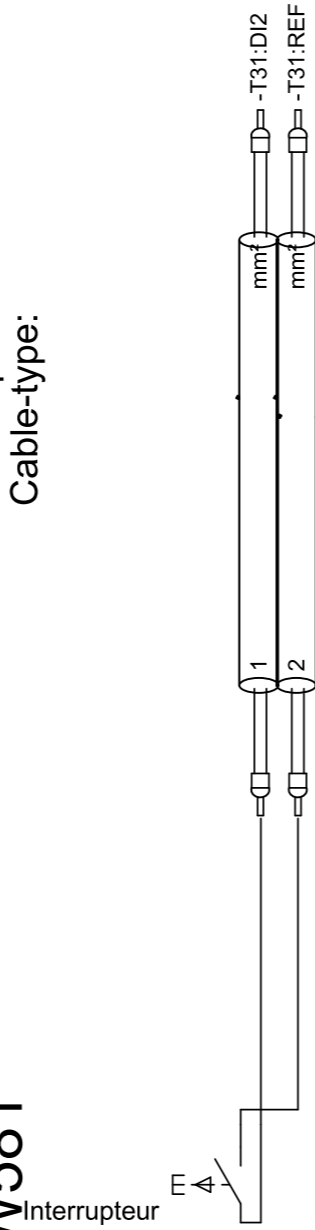
-W580



-SF2

Remarque: GV - Ext.  
Cable-type:

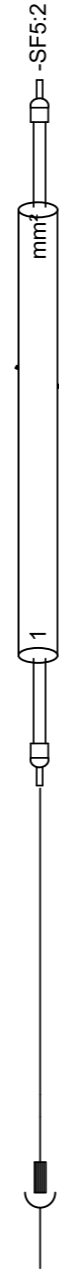
-W581



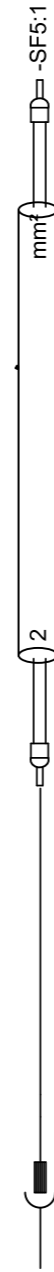
-SF3

Remarque: arrêt externe  
Cable-type: 2x0,75mm2

-W583



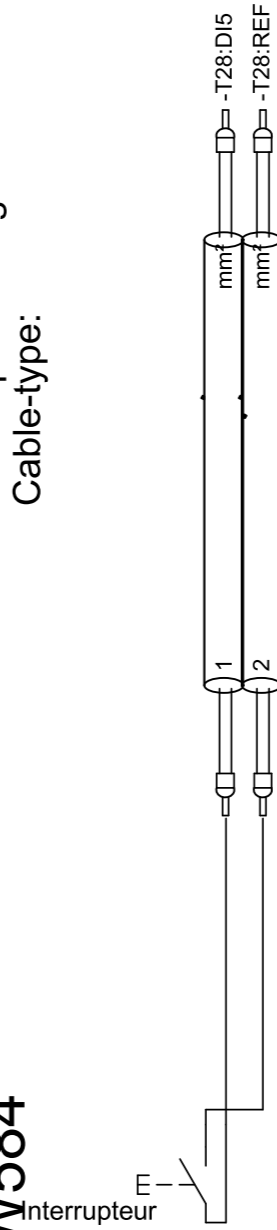
-T30:D13



-T30:REF

Remarque: Change Over  
Cable-type:

-W584



-SF6

15 7

15 7

10 1

10 1

10 2

10 3

10 5

10 5

10 8

10 8



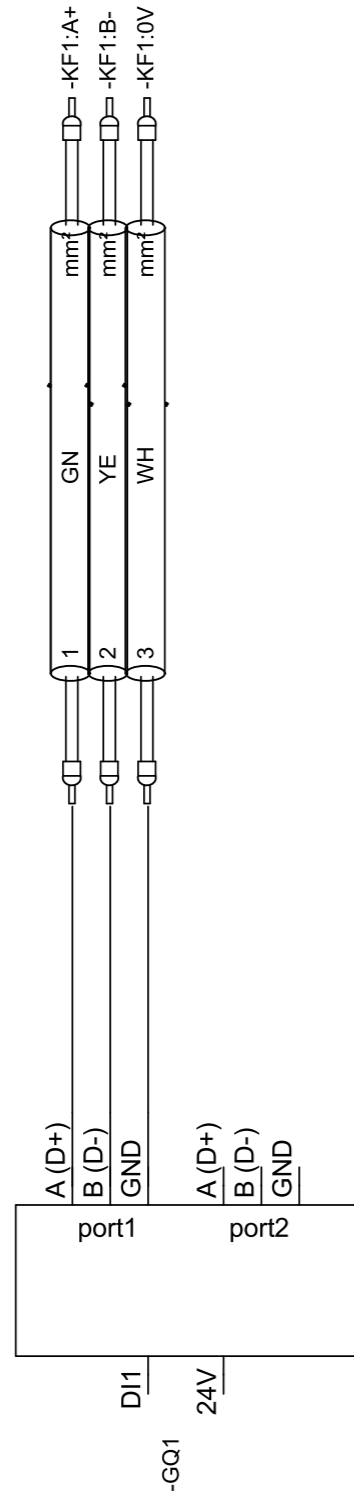
# Principe du câblage

Voie  
Page:

Remarque: Bus GQ1  
Cable-type: 4x0,6mm2

**-W601**

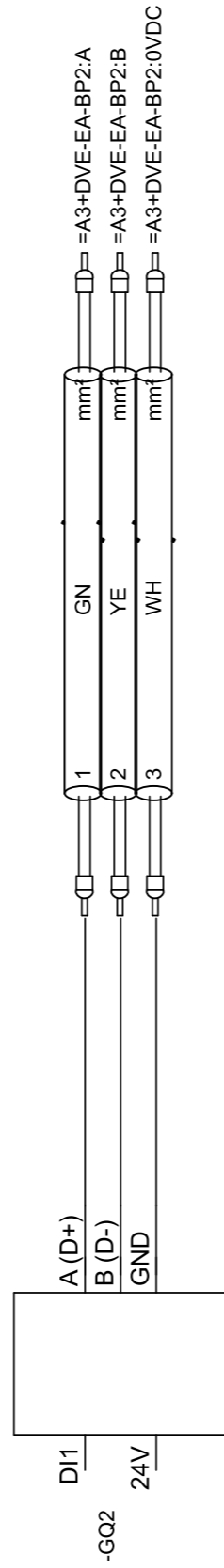
Ventilateur EC



Remarque: Bus GQ2  
Cable-type: 4x0,6mm2

**-W602**

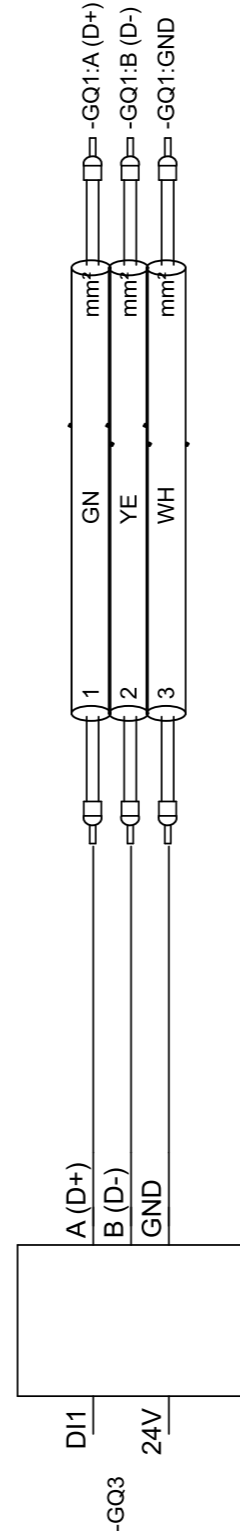
Ventilateur EC



Remarque: Bus GQ3  
Cable-type: 4x0,6mm2

**-W603**

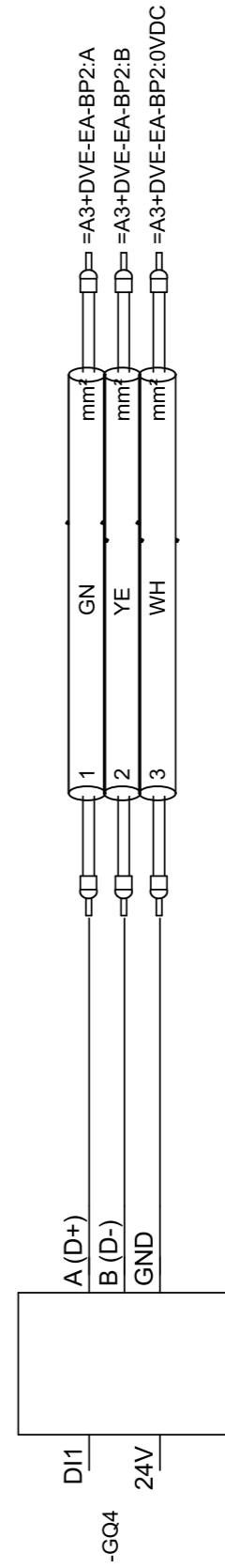
Ventilateur EC



Remarque: Bus GQ4  
Cable-type: 4x0,6mm2

**-W604**

Ventilateur EC



5  
24  
24  
24

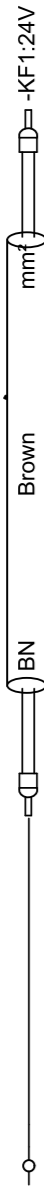
5  
25  
25  
25

7  
24  
24  
24

7  
25  
25  
25

# Principe du câblage

Voie  
Page:

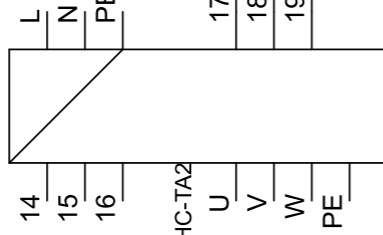


Remarque: Bus TA2  
Cable-type:

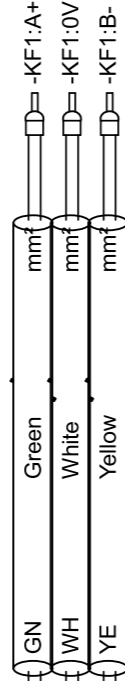
-X

-W642.1

Rotor régulateur  
RHC

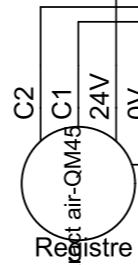
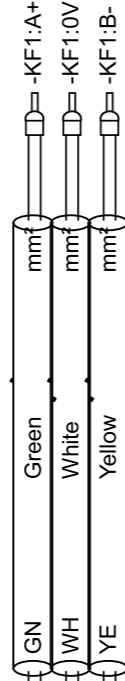


=A1+RHC-TA2



Remarque: Extraction  
Cable-type:

-W645

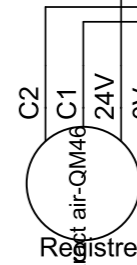
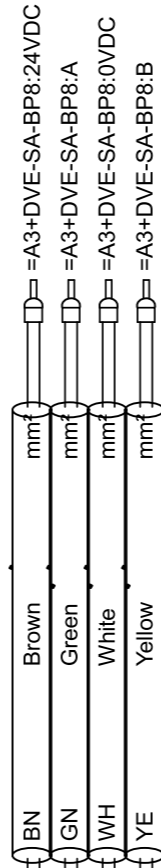
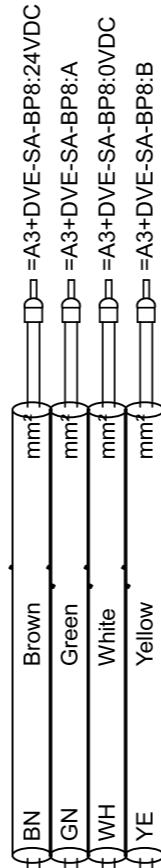


Rect air-QM43

=BUS RS485+Ext

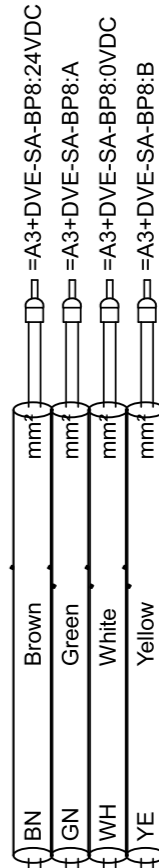
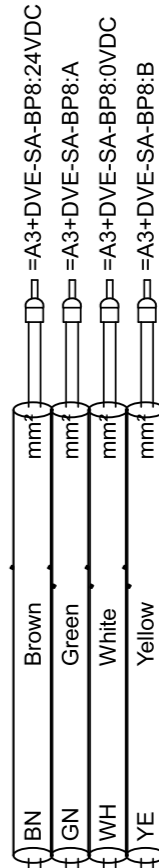
-W646

Remarque: Extraction  
Cable-type:



Rect air-QM46

=BUS RS485+Ext



26

26  
26  
26

26  
26  
26  
26

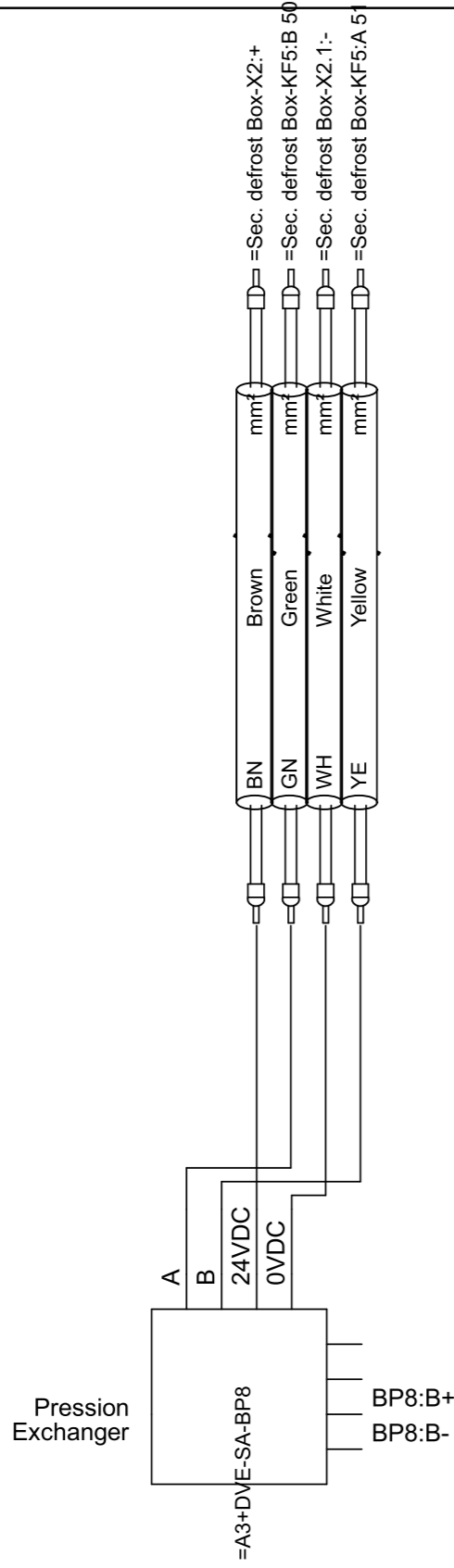
26  
26  
26  
26

# Principe du câblage

Voie  
Page:

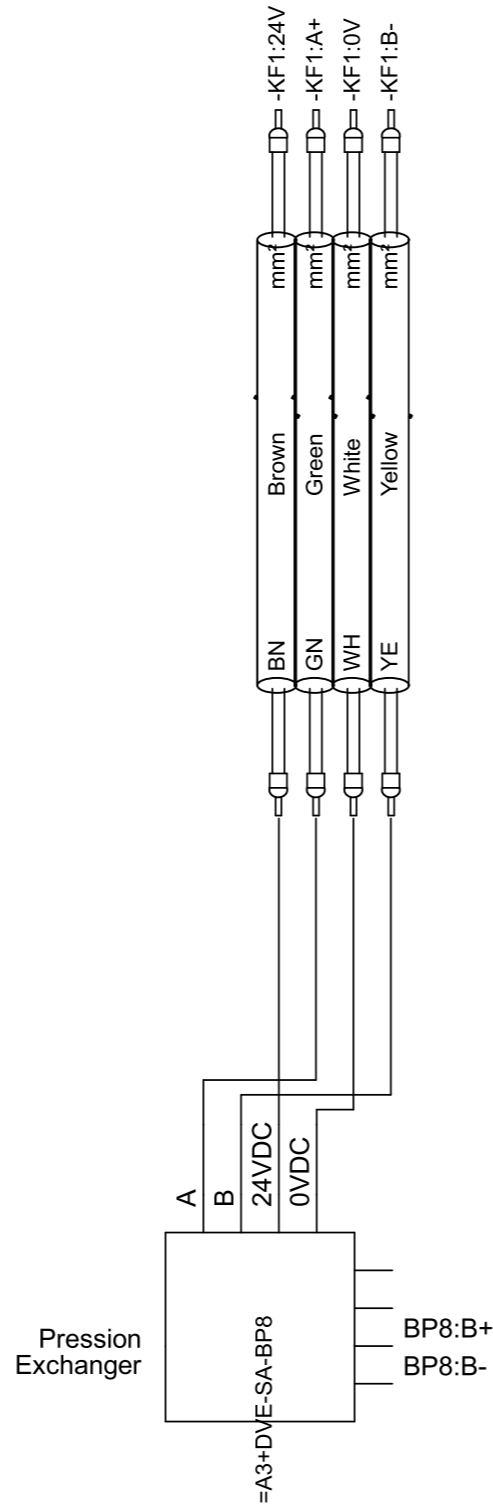
Remarque: Sequence dégivrage  
Cable-type:

**-W655**



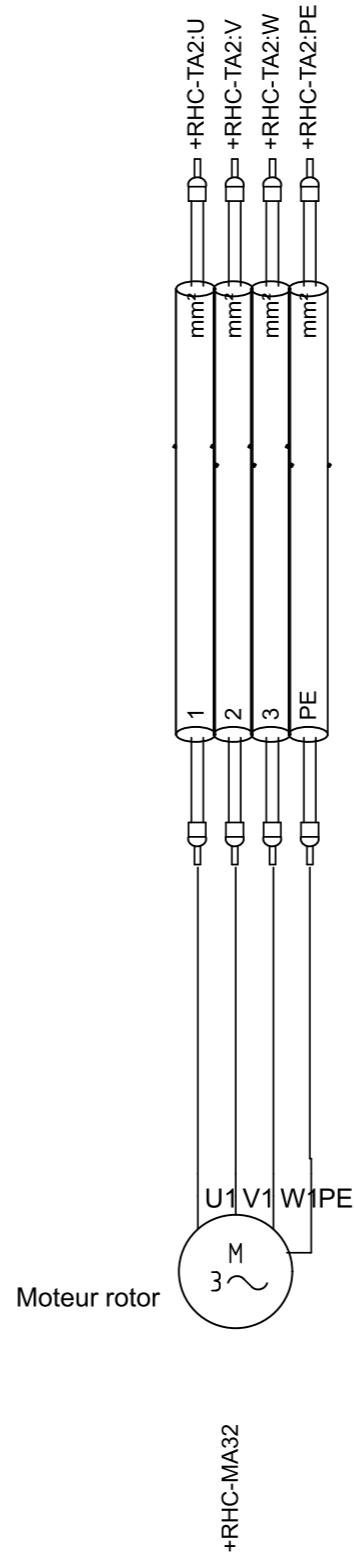
Remarque: Pression plaques  
Cable-type:

**-W666**



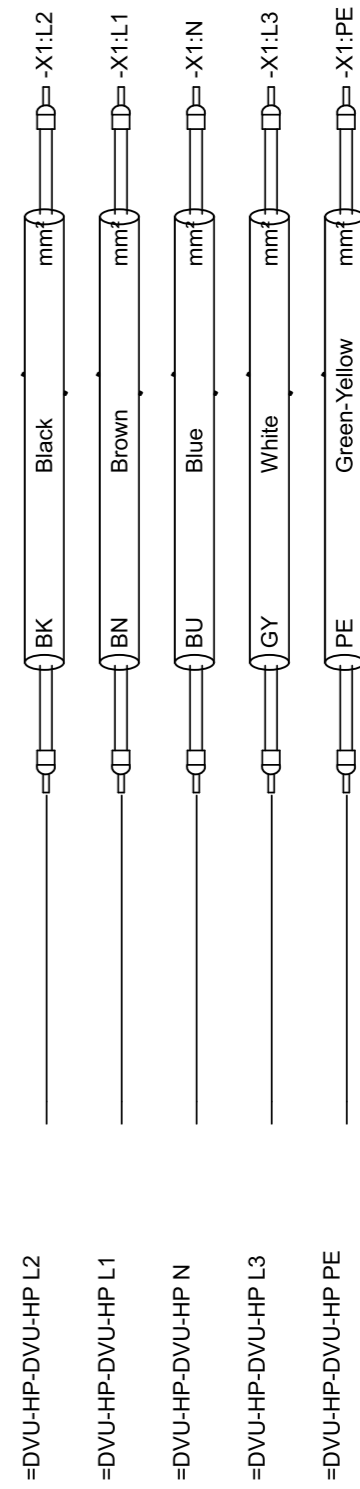
Remarque: Moteur d'échangeur  
Cable-type:

**=A1-W332**



Remarque: Pompe à chaleur DVU-HP  
Cable-type:

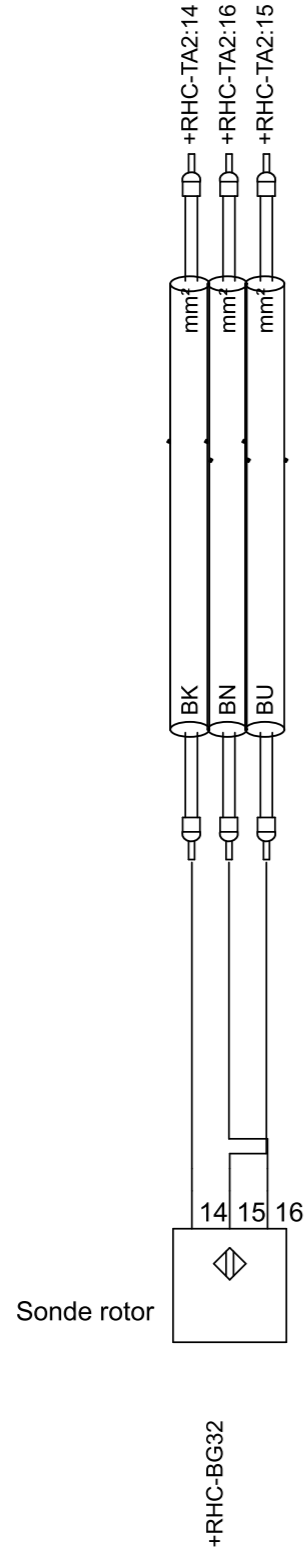
**=A1-W529**



# Principe du câblage

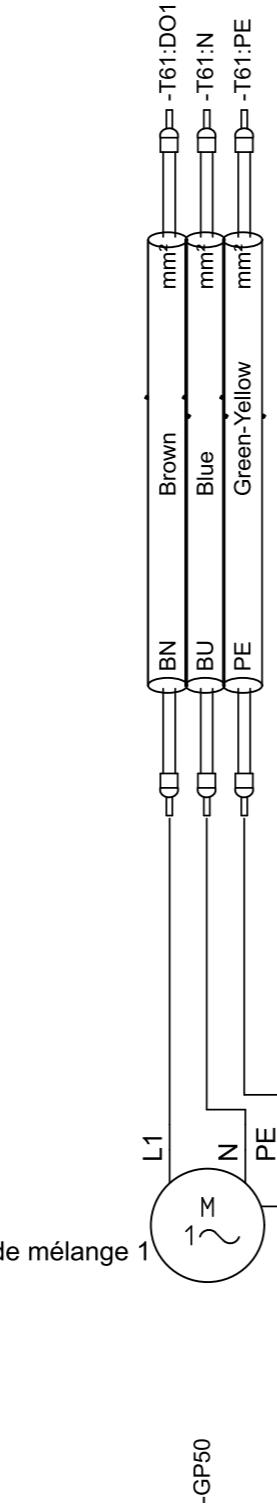
Remarque: Capteur de rotation échangeur  
Cable-type:

**=A1-W532**



**=A1-W550**

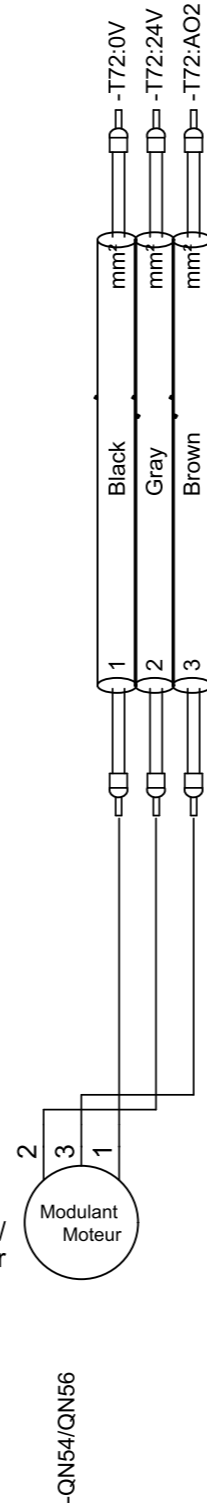
Remarque: Pompe de mélange  
Cable-type:



**=A1-W554**

Remarque: vanne refroidissement  
Cable-type:

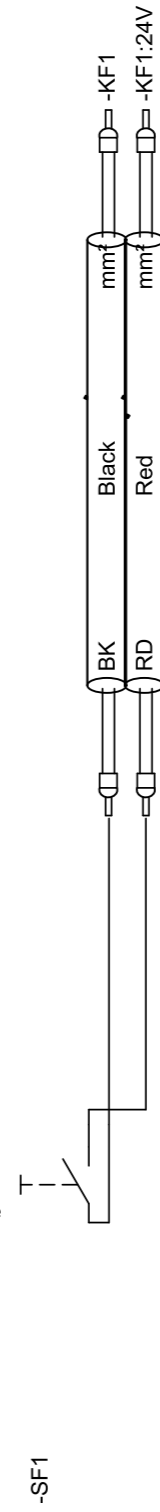
vanne de refroidissement/  
Change Over



Interrupteur d'éclairage

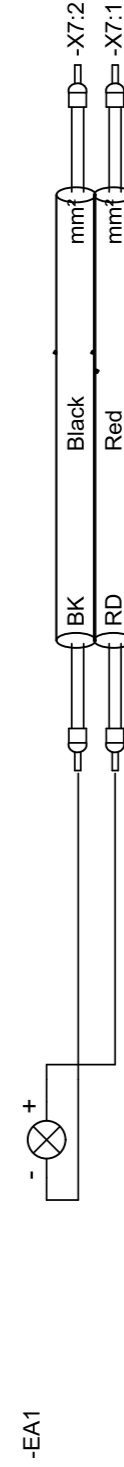
**=A1-W700**

Remarque: Interrupteur éclairage  
Cable-type:



**=A1-W701**

Remarque: Eclairage P20  
Cable-type:



Page:

Voie

26  
26  
26

14  
14  
14

16  
16  
16

19  
19

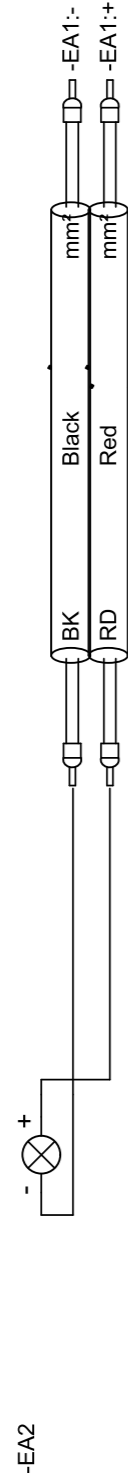
19  
19

# Principe du câblage

Page: Voie

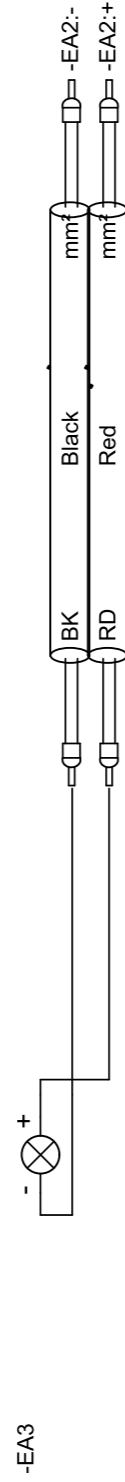
=A1-W702

Remarque: Eclairage P20  
Cable-type:



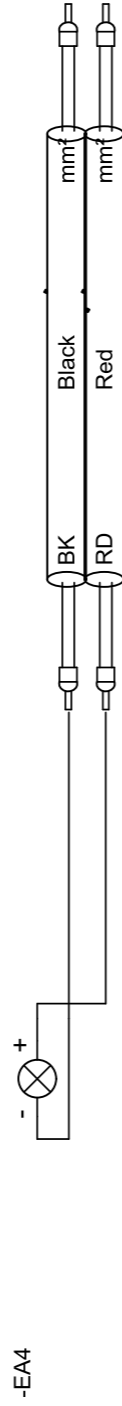
=A1-W703

Remarque: Eclairage P20  
Cable-type:



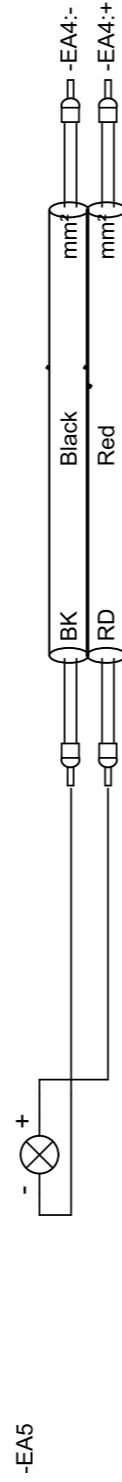
=A1-W704

Remarque: Eclairage P21  
Cable-type:



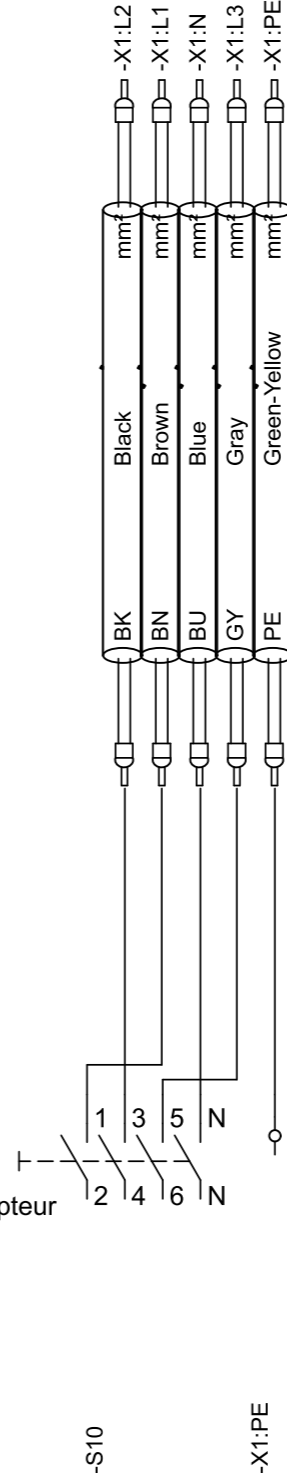
=A1-W705

Remarque:  
Cable-type:



=A1-W1000

Remarque: Alimentation principale  
Cable-type:



Page: Voie

19 7  
19 6

19 7  
19 7

19 8  
19 8

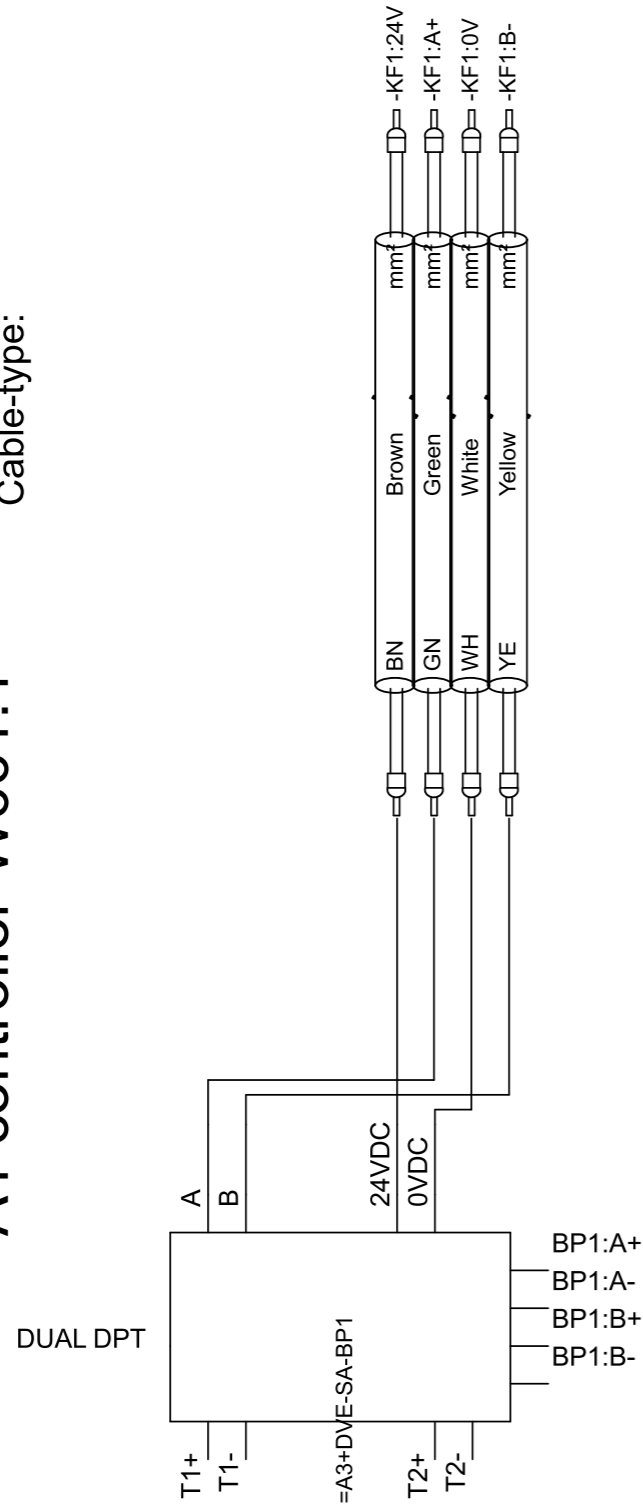
19 9  
19 9

18 0  
18 0  
18 1  
18 1  
18 1

# Principe du câblage

## =A1 controller-W661.1

Remarque: Bus BP1  
Cable-type:

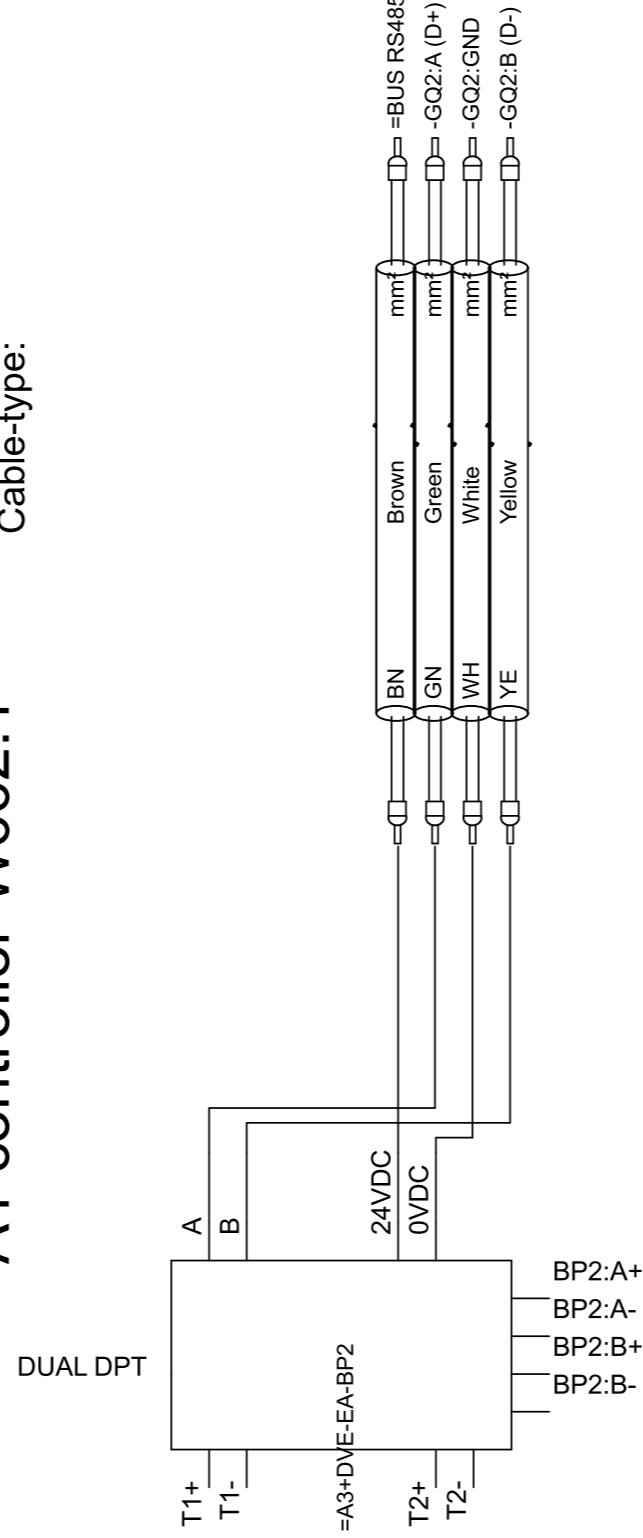


Page: 24 24 24 24

Voie 2 2 2 2

## =A1 controller-W662.1

Remarque: Bus BP2  
Cable-type:

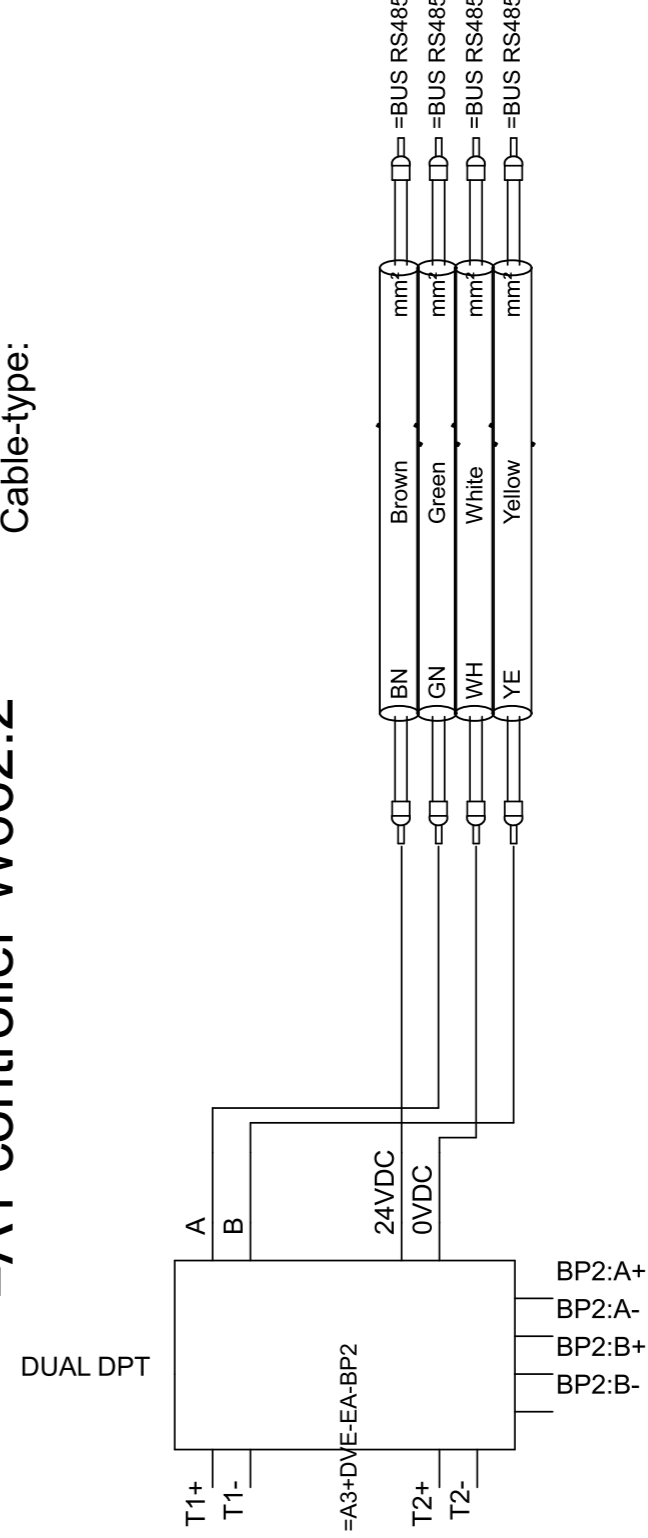


Page: 25 25 25

Voie 2 2 2 2

## =A1 controller-W662.2

Remarque: Bus BP2  
Cable-type:



Page: 2 2 2 2

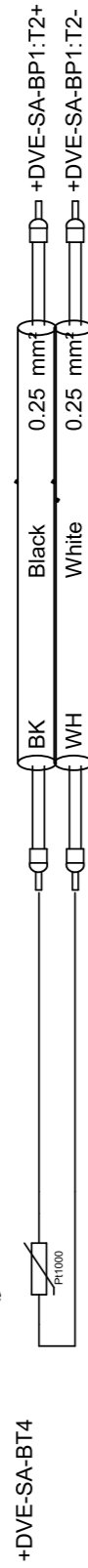
Voie 2 2 2 2

# Principe du câblage

**=A3-W343**

Température d'efficacité

Remarque: Sonde d'efficacité  
Cable-type: 2x0,25mm<sup>2</sup>



+DVE-SA-BT4

Page: 24 24  
Voie: 2 2

**=A3-W442**

Exhaust Temp.

Remarque: Exhaust Temp./de-ice  
Cable-type: 2x0,25mm<sup>2</sup>



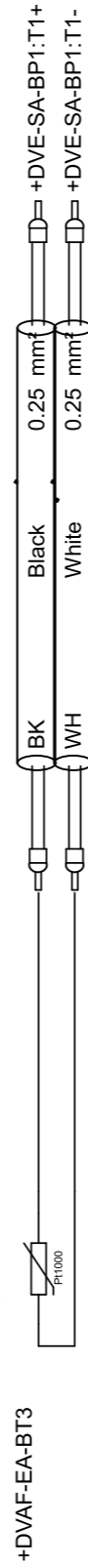
+DVAF-EA-BT2

Page: 25 25  
Voie: 2 2

**=A3-W444**

Extraction Temp.

Remarque: Extraction Temp.  
Cable-type: 2x0,25mm<sup>2</sup>

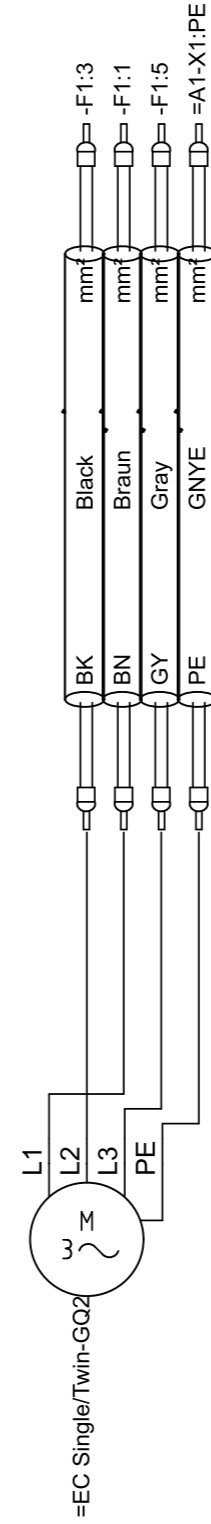


+DVAF-EA-BT3

Page: 24 24  
Voie: 1 1

**=EC single+Extract air-W102**

Remarque: Moteur air extrait  
Cable-type:

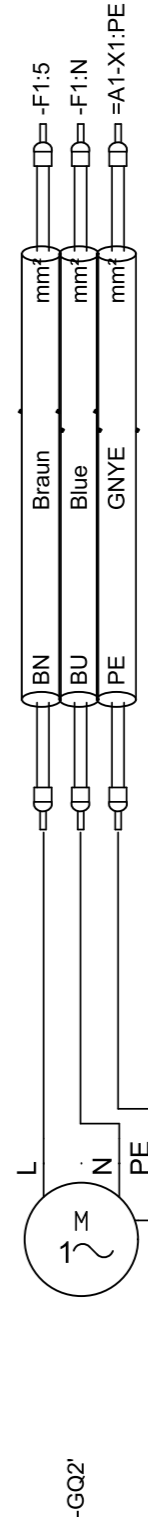


=EC Single/Twin-GQ2

Page: 21 21 21 21  
Voie: 2 2 2 3

**=EC single+Extract air-W102**

Remarque: Moteur air extrait  
Cable-type:



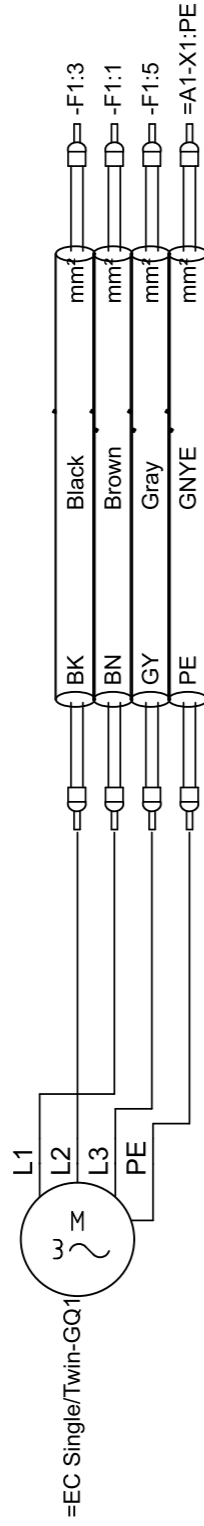
-GQ2'

Page: 20 20 20  
Voie: 5 5 6

# Principe du câblage

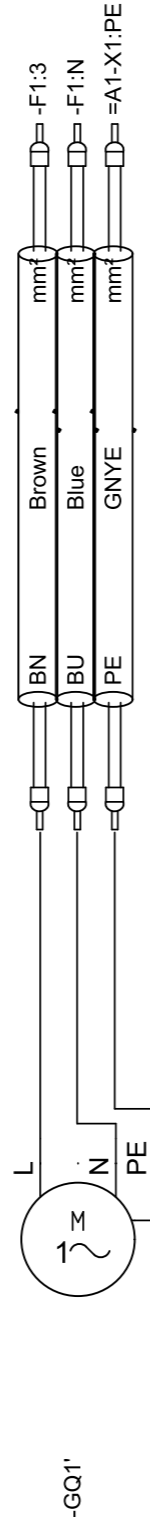
Page: Voie

=EC single+Supply air-W101 Remarque: Moteur air soufflé  
Cable-type:



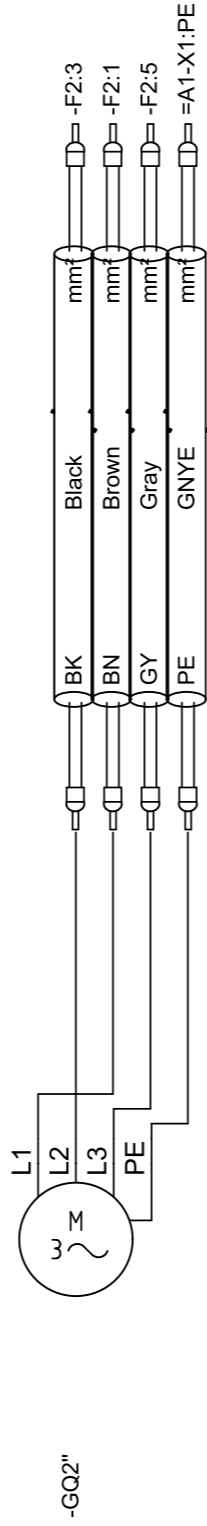
-GQ1'

=EC single+Supply air-W101 Remarque: Moteur air soufflé  
Cable-type:



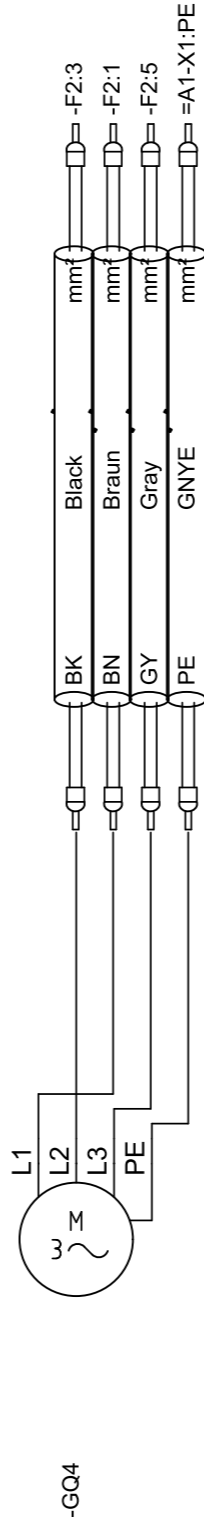
-GQ1'

=EC Twin+Extract air-W102 Remarque: Moteur air soufflé  
Cable-type:



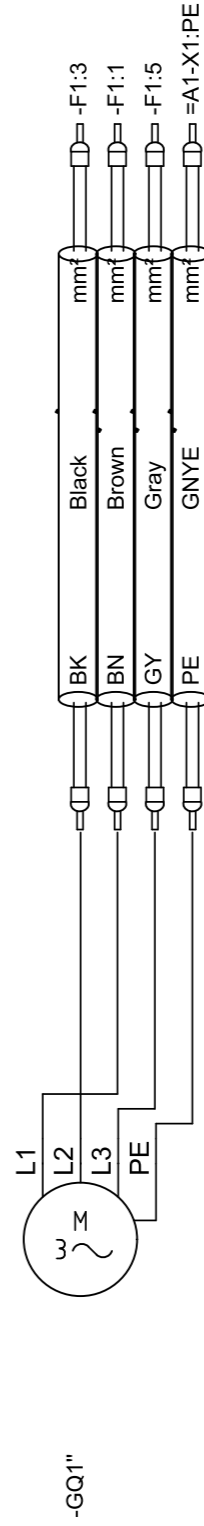
-GQ2''

=EC Twin+Extract air-W104 Remarque: Moteur air extrait  
Cable-type:



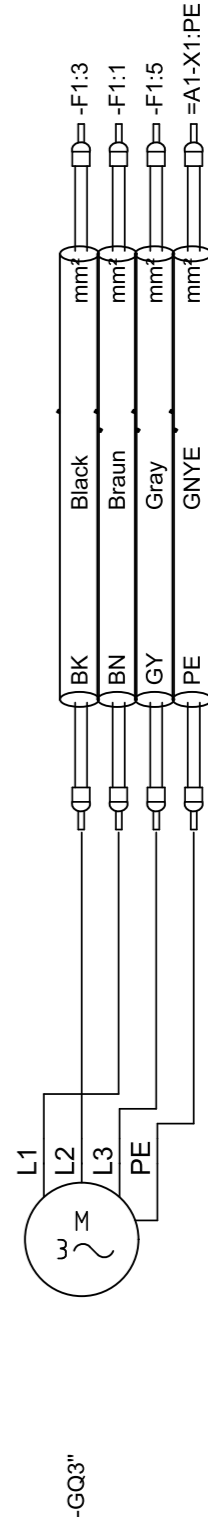
-GQ4

=EC Twin+Supply air-W101 Remarque: Moteur air soufflé  
Cable-type:



-GQ1''

=EC Twin+Supply air-W103 Remarque: Moteur air soufflé  
Cable-type:



-GQ3''