

Geniox Core Control system 42.04.02 (Pre-heat)

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 18-27

Modbus Guide: page 23

Modbus address list: page 30

Cable plan: page 100-117

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

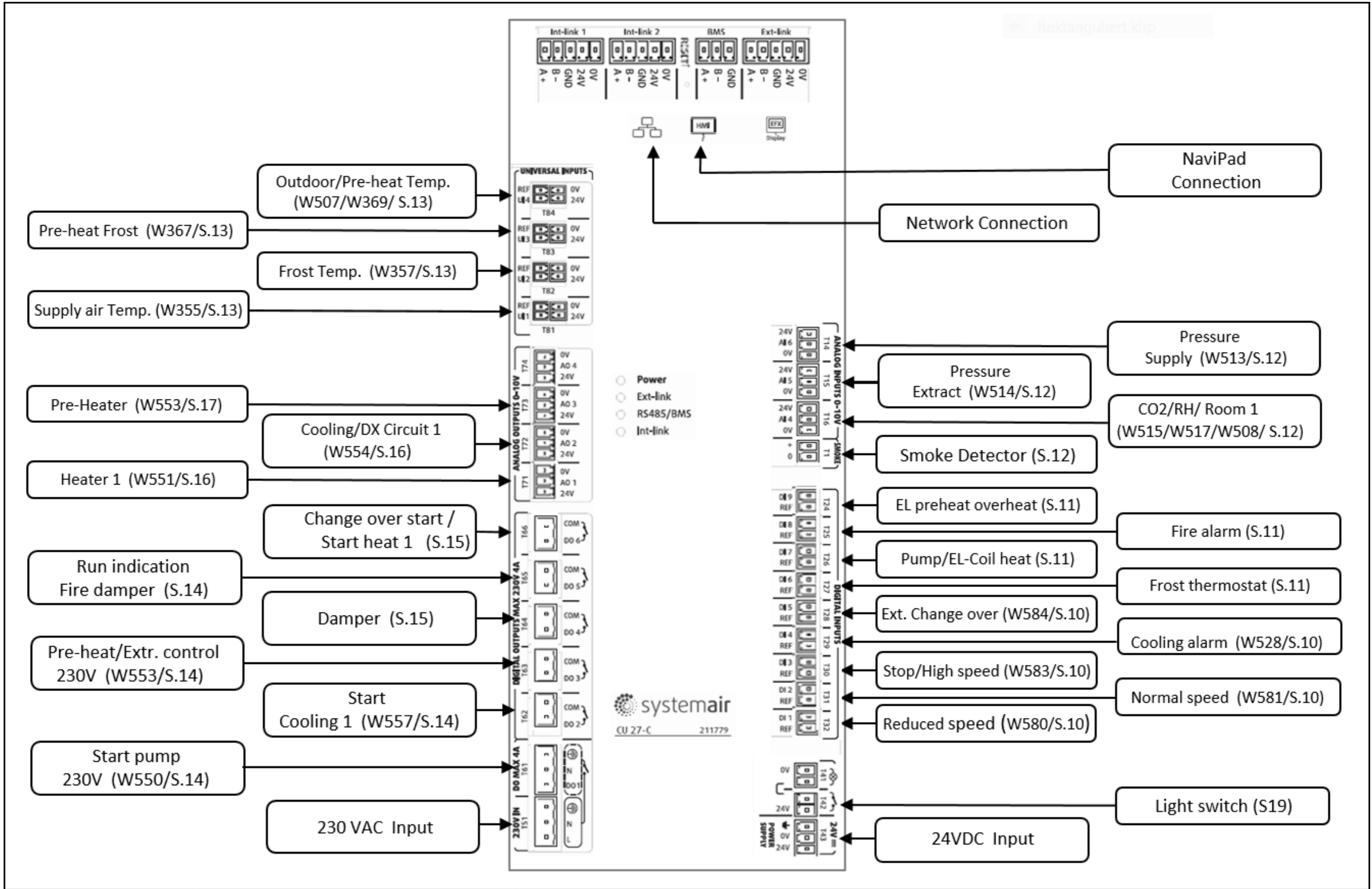
Extraction ventilateur câble résistance: Voir sélection CTA

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

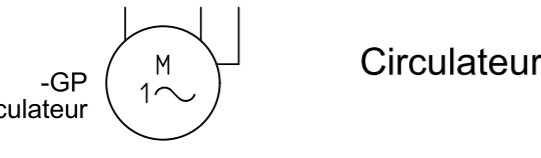
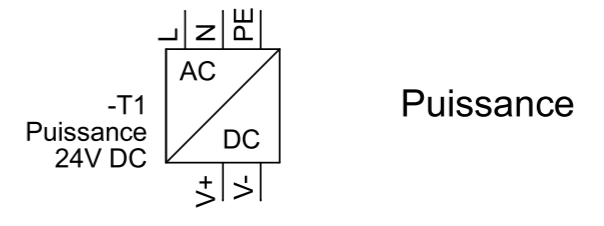
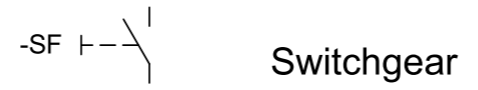
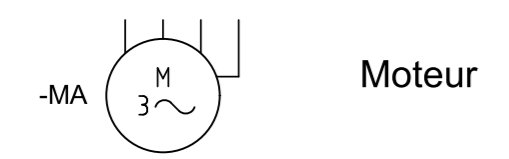
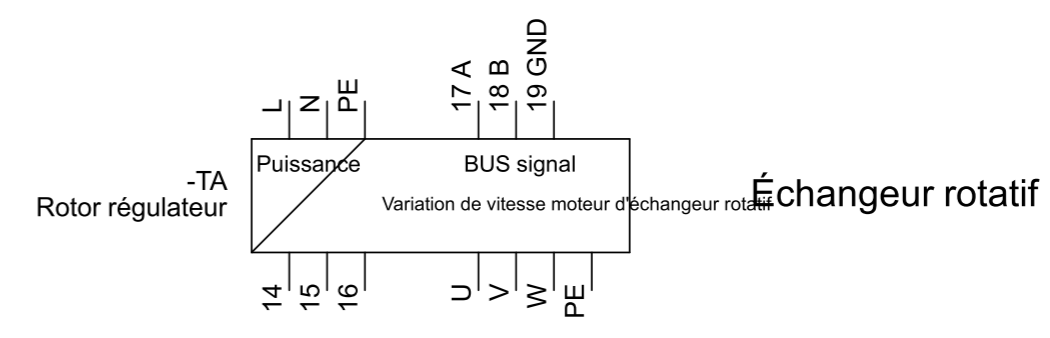


Symboles selon IEC 60617.

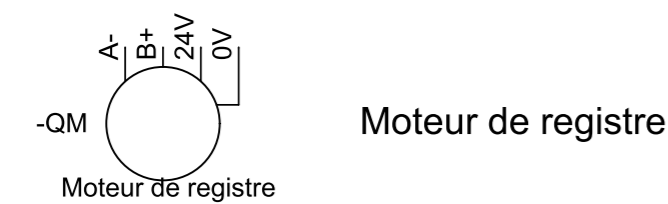
Les 2 pages suivantes contiennent les descriptions des symboles utilisés pour ce projet

| 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 |

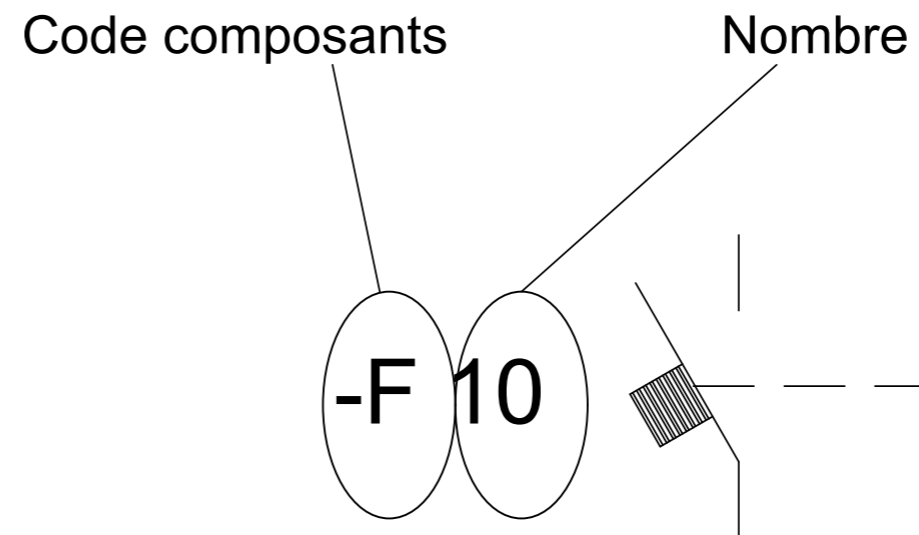
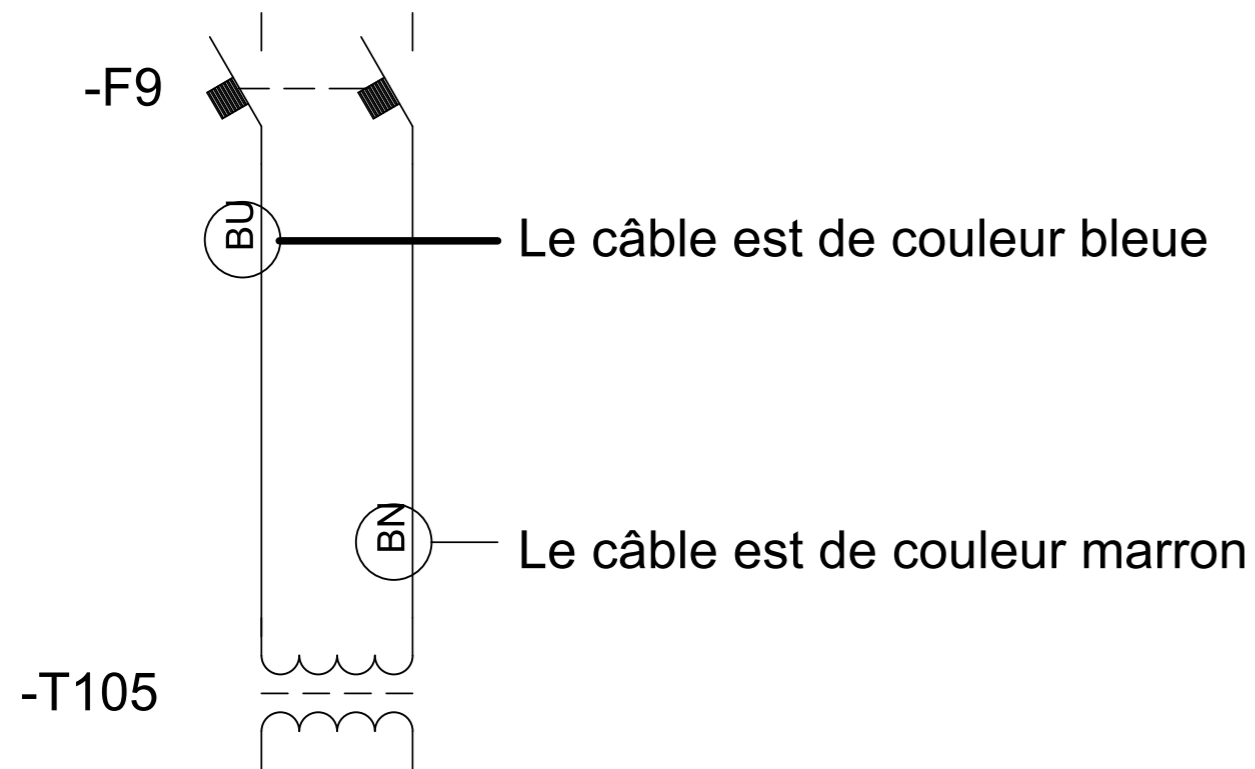


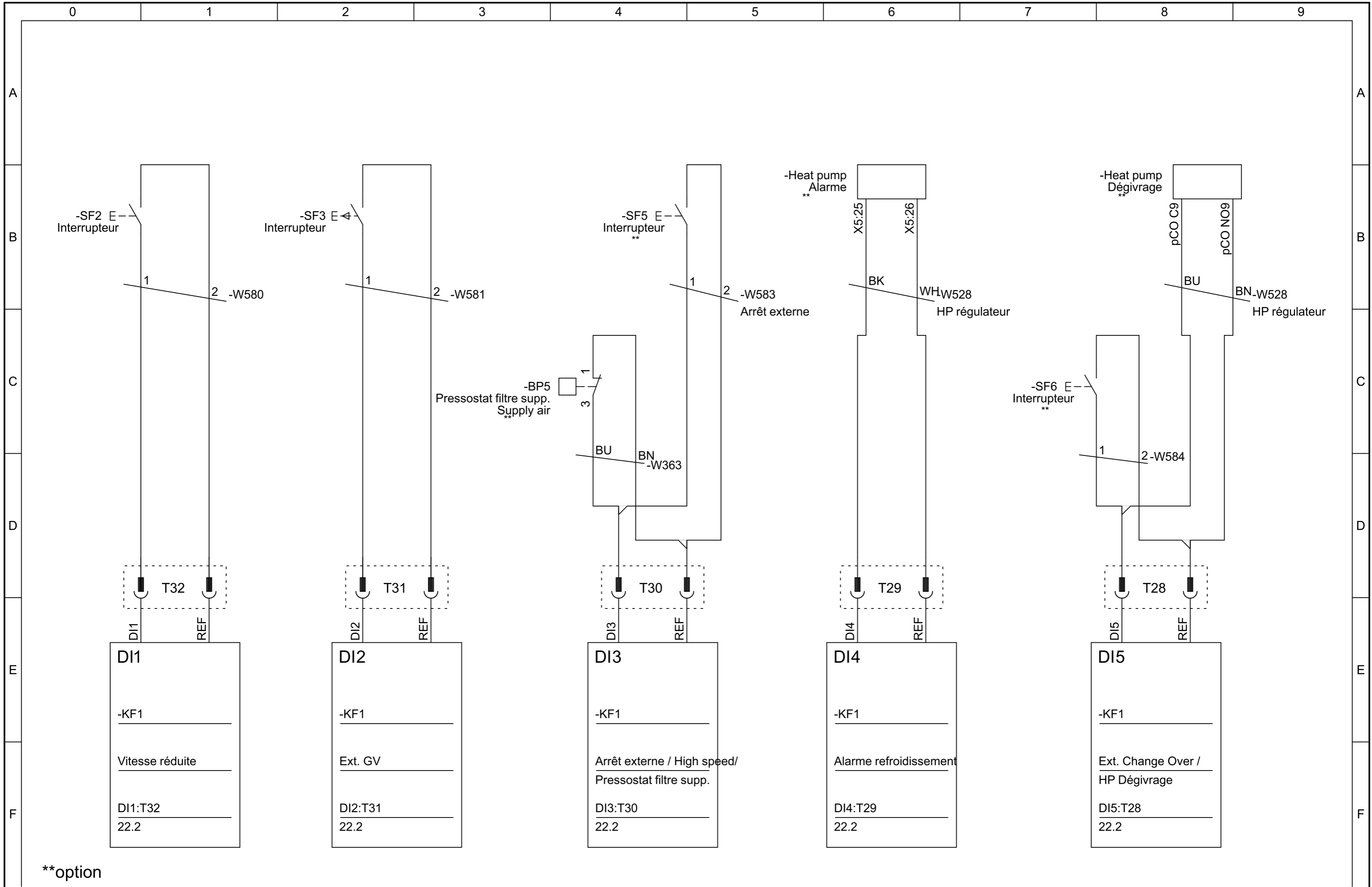
Non disponible pour le marché Français -BR

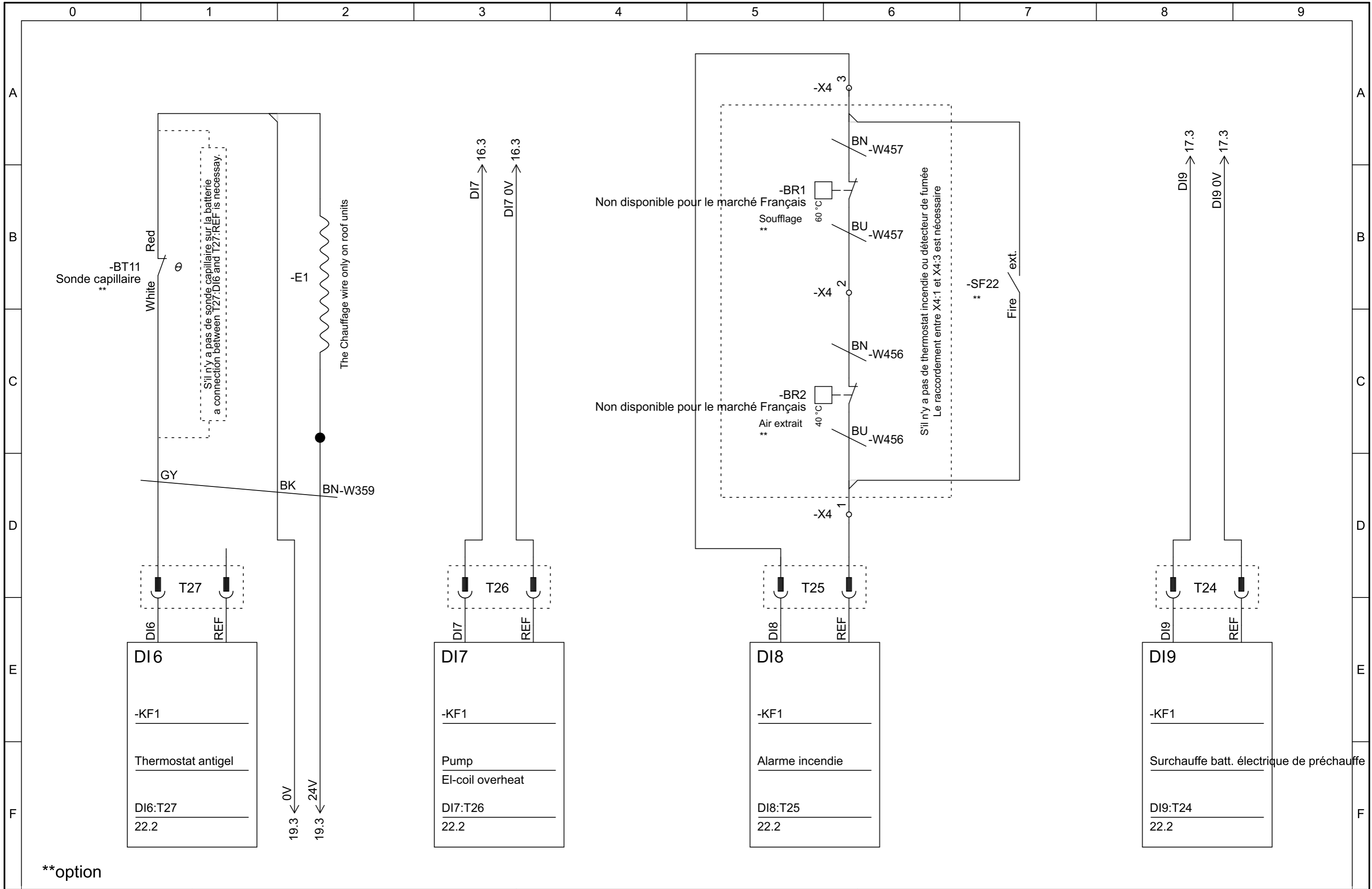


Labeling of wires
are marked with
Bornier name

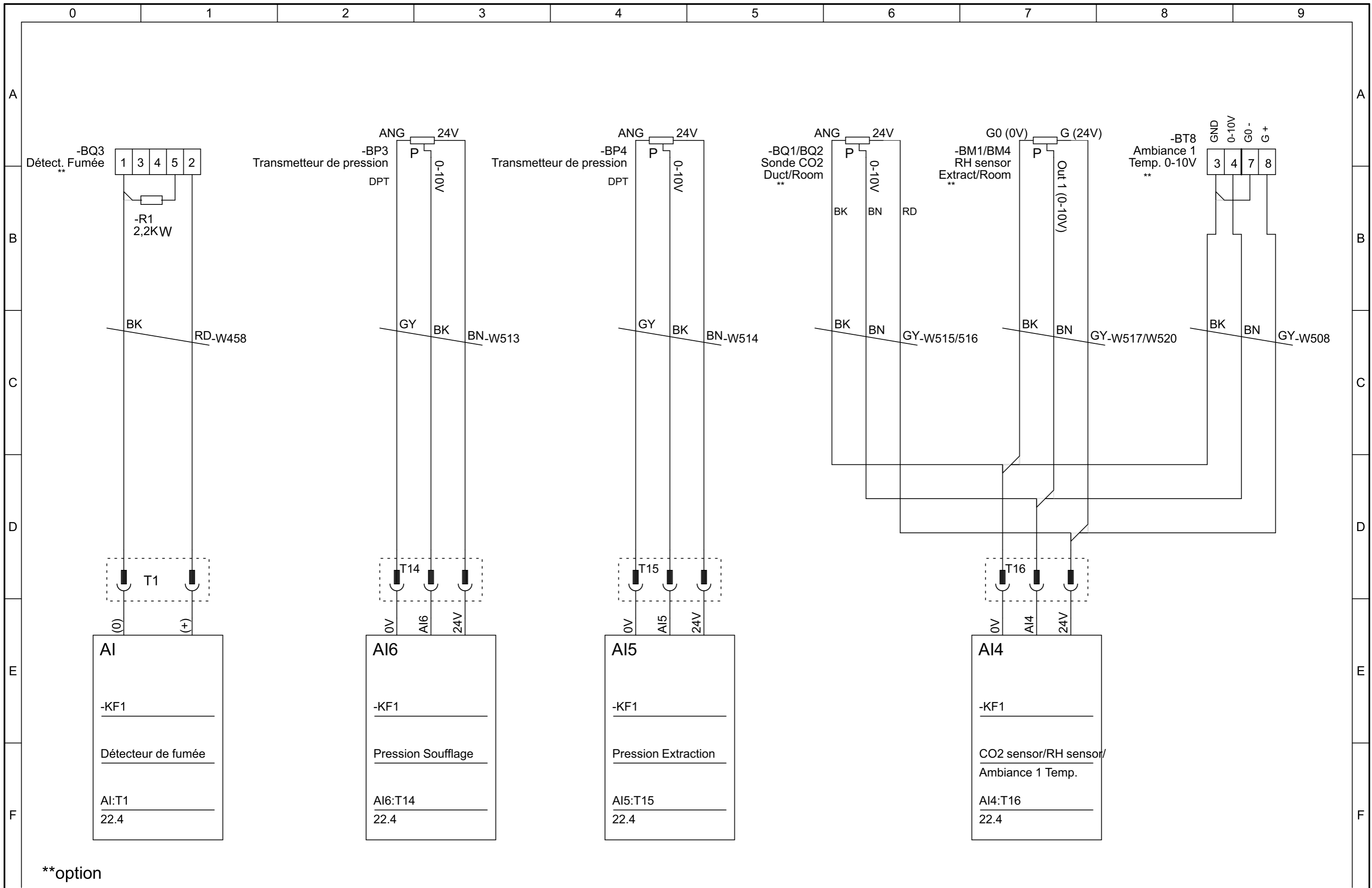
Les composants sont repérés avec les codes composants
Suivi par un chiffre selon IEC 61346-1 chap. 1



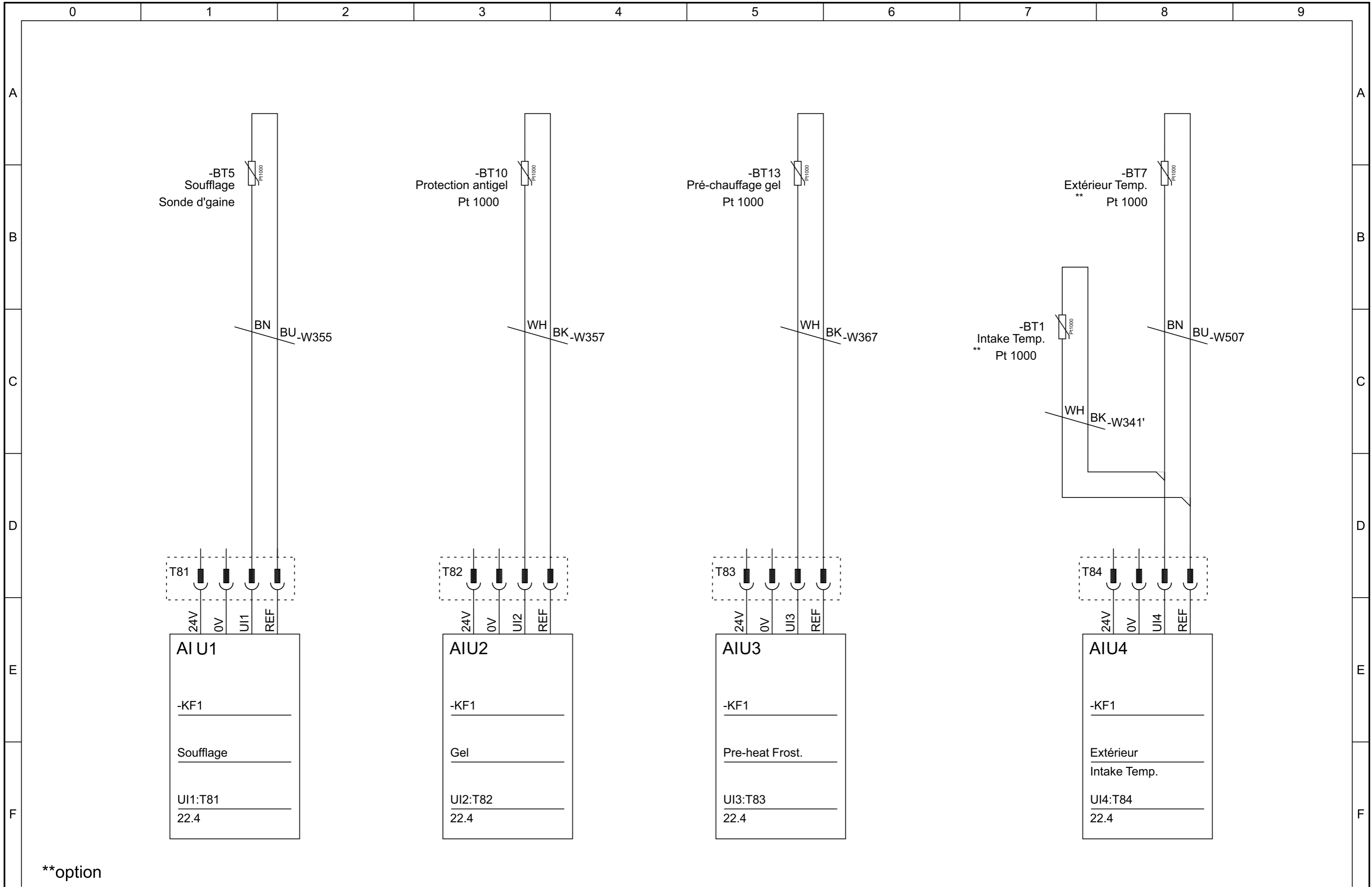




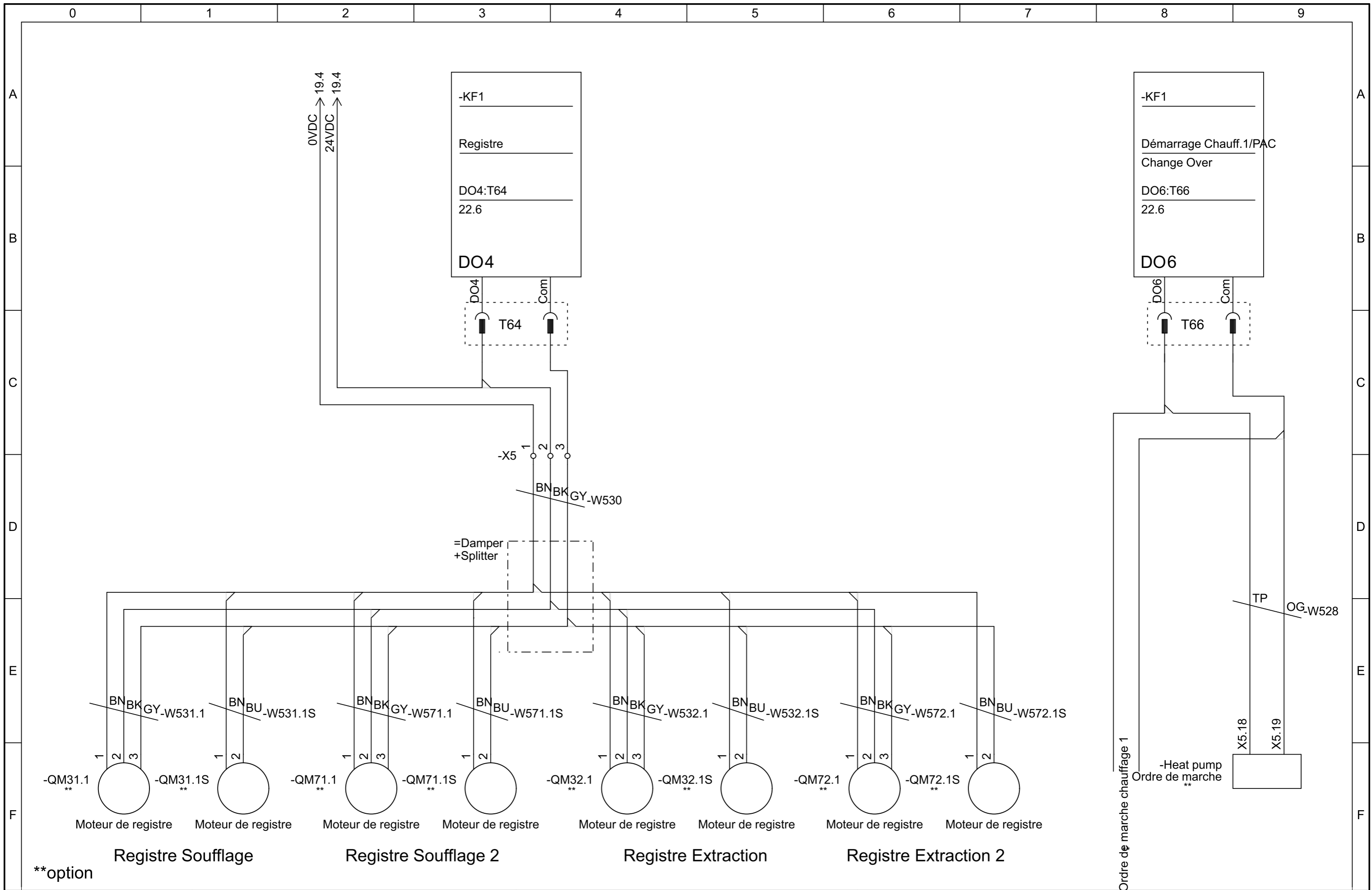
**option

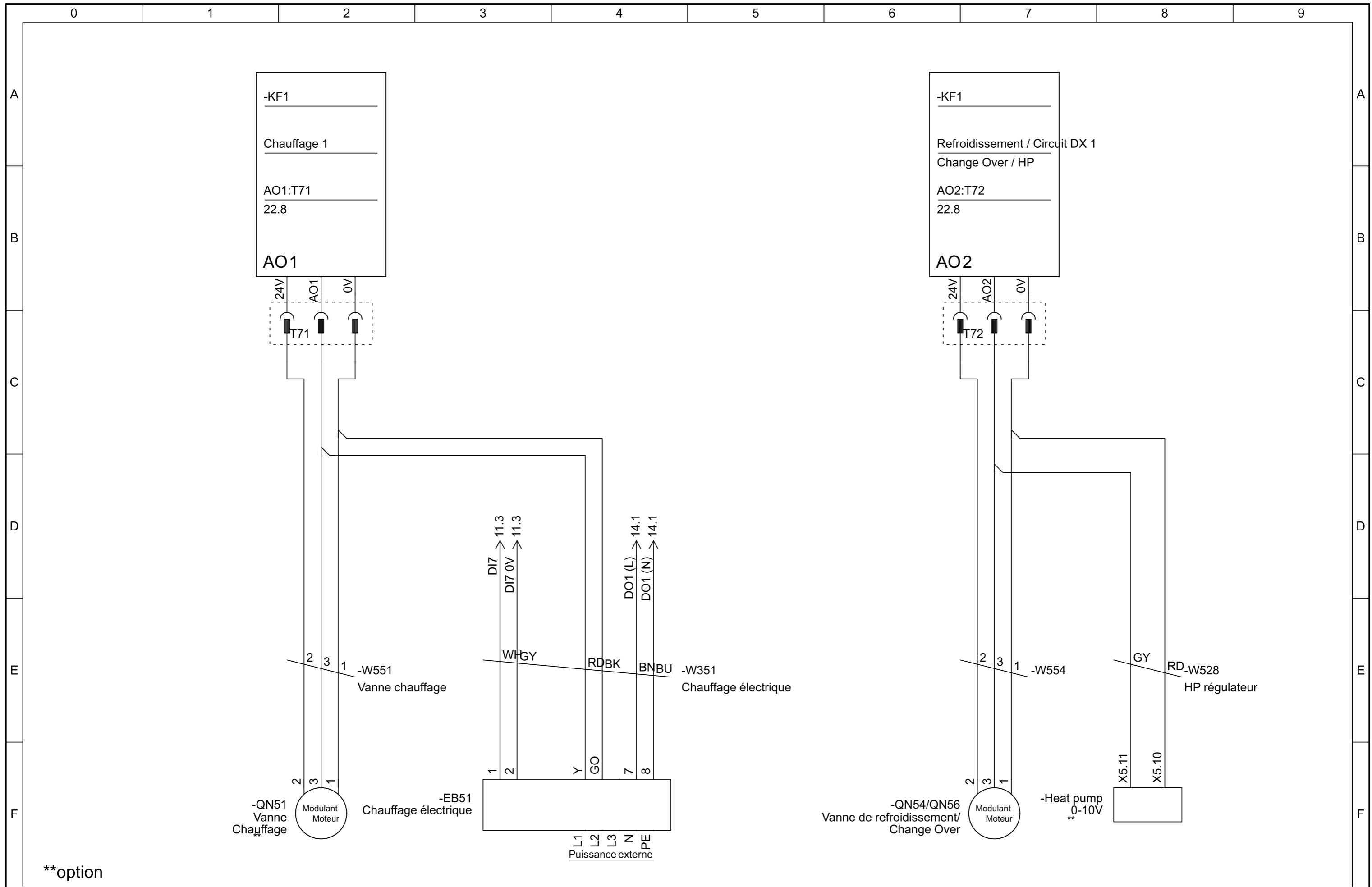


**option

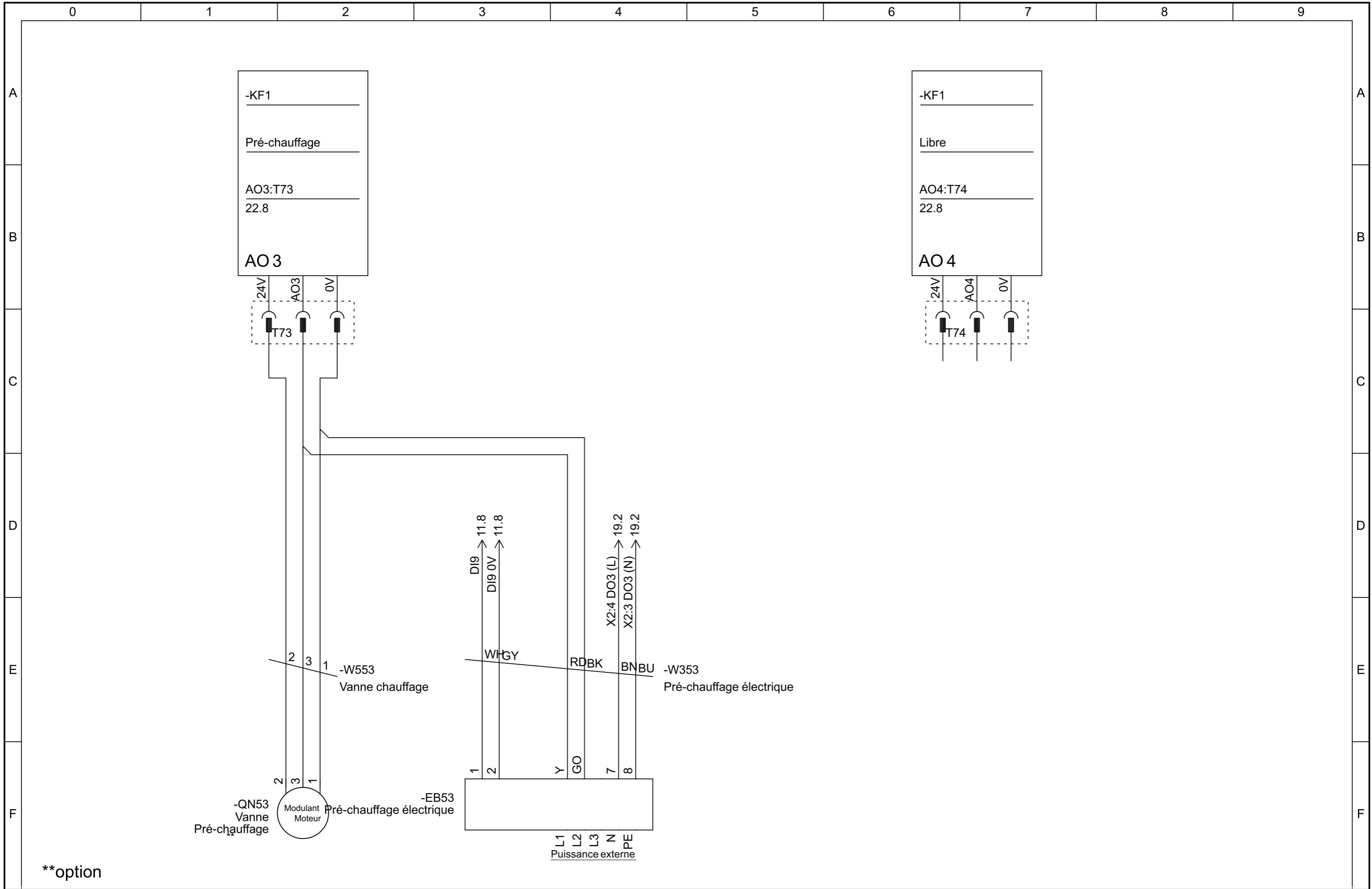


**option

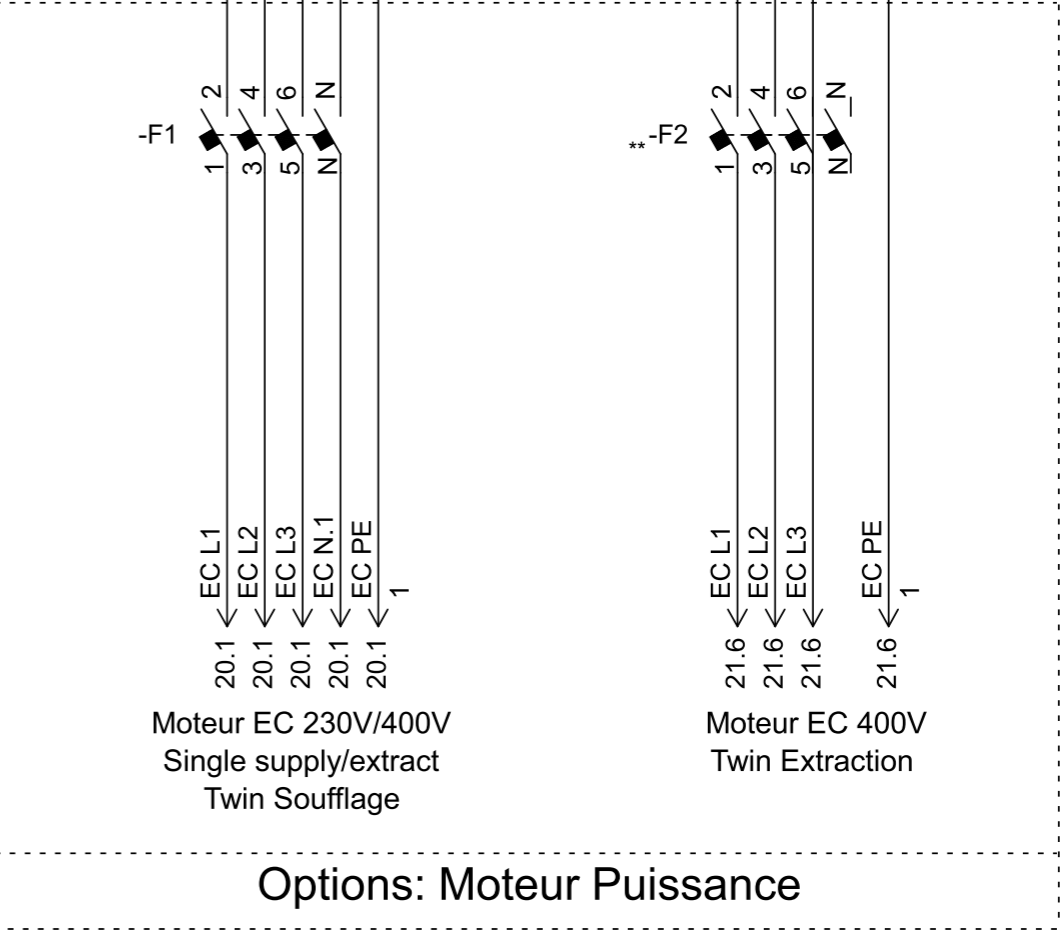
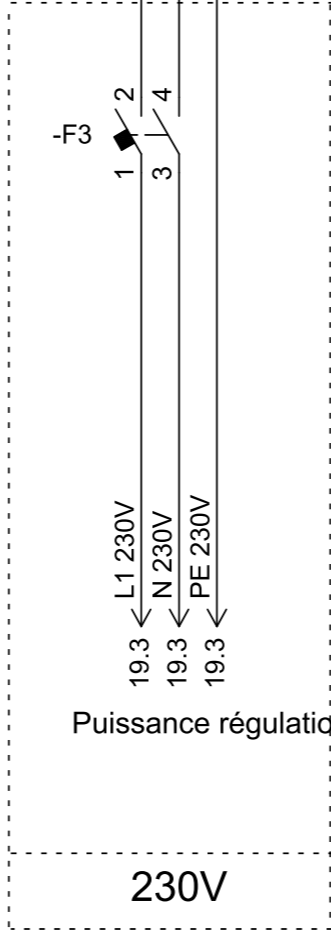
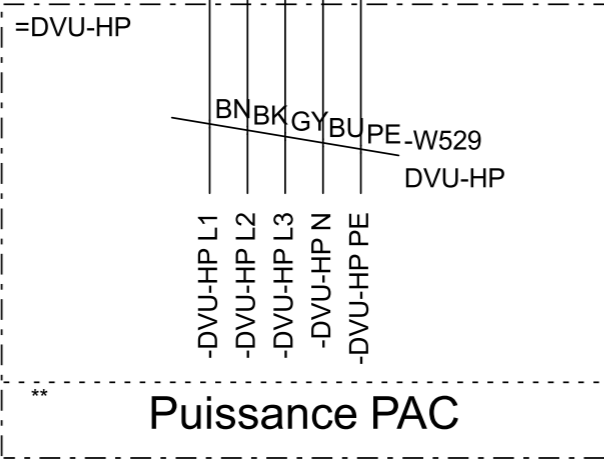
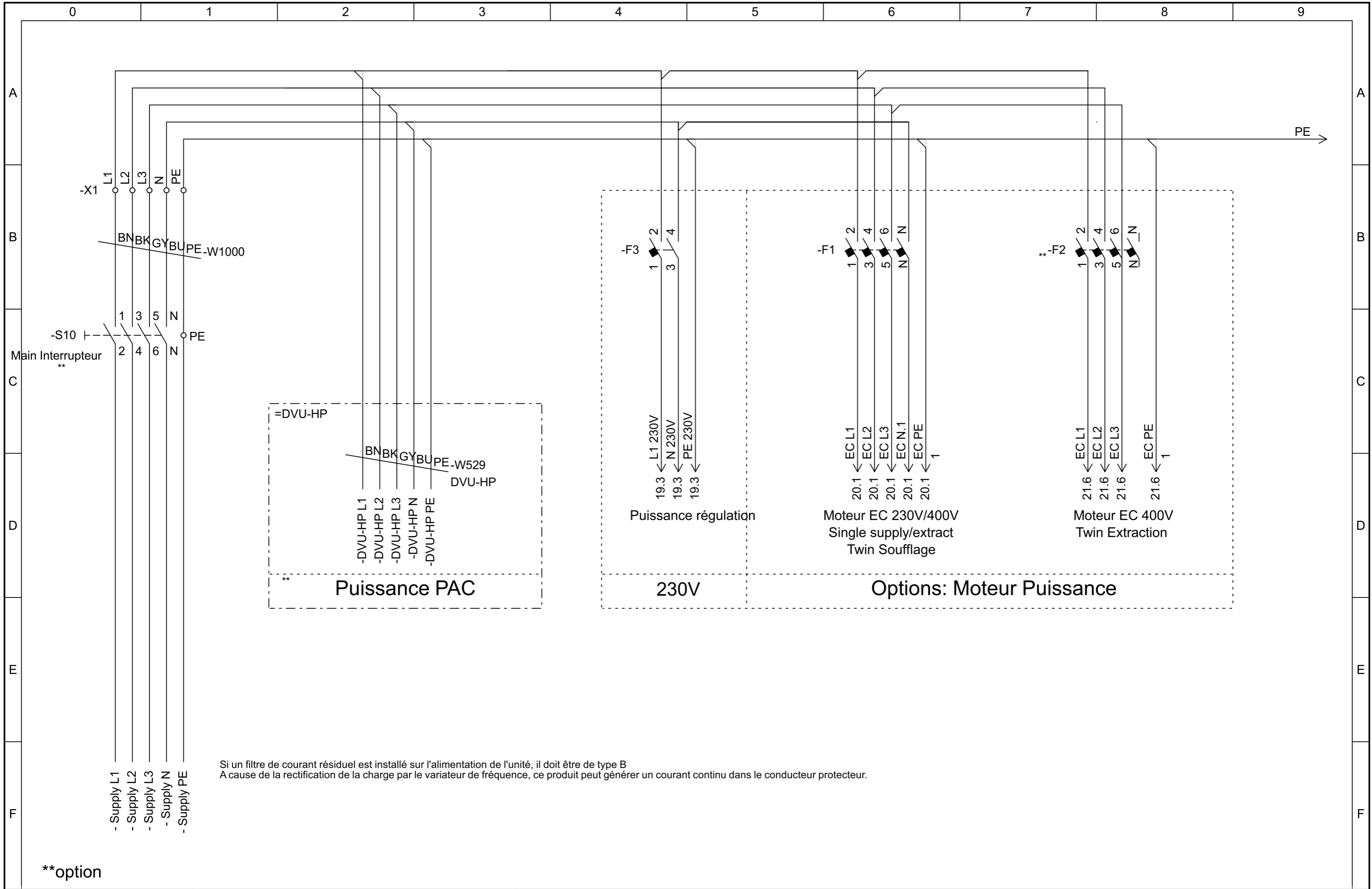




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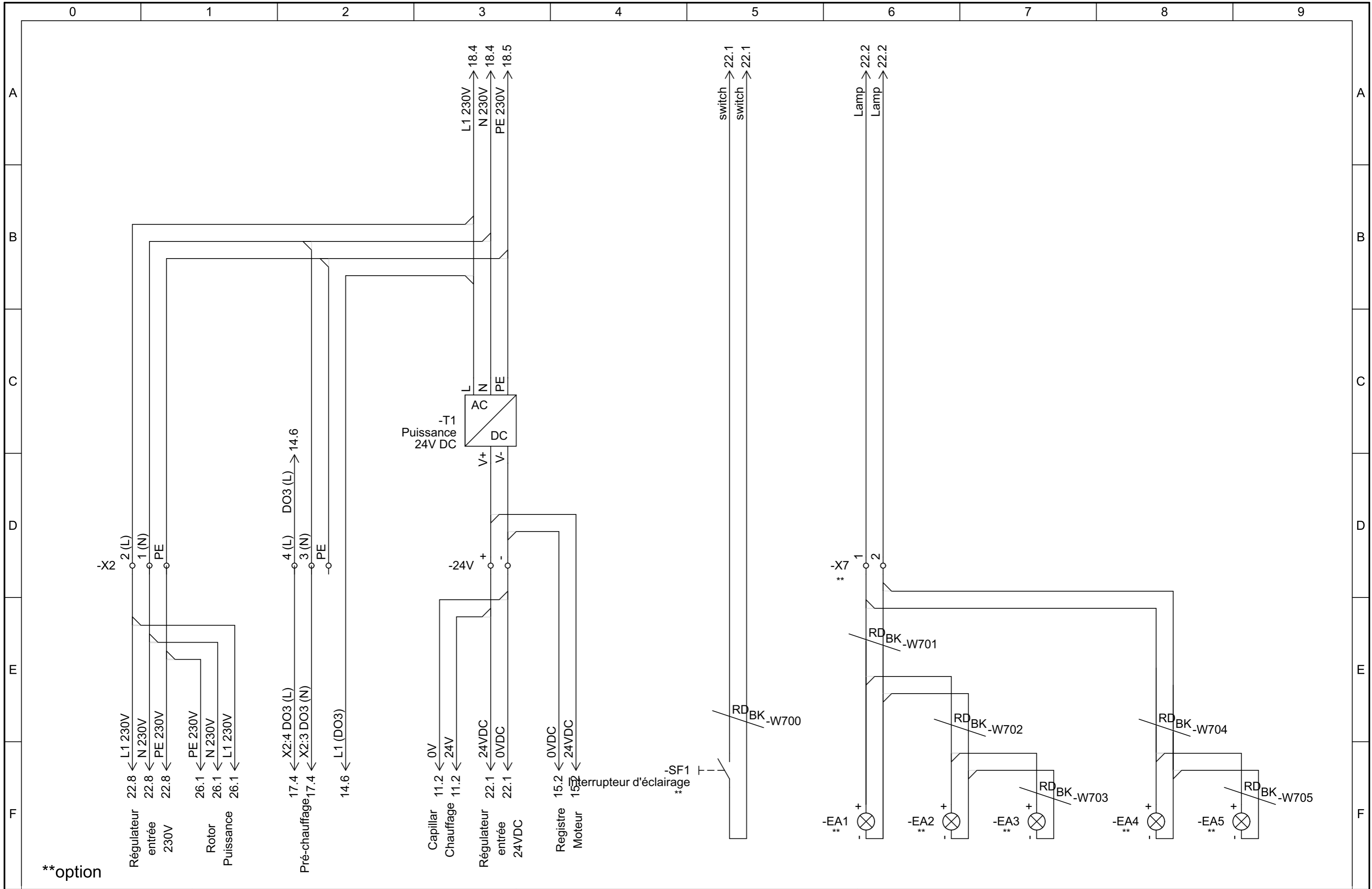


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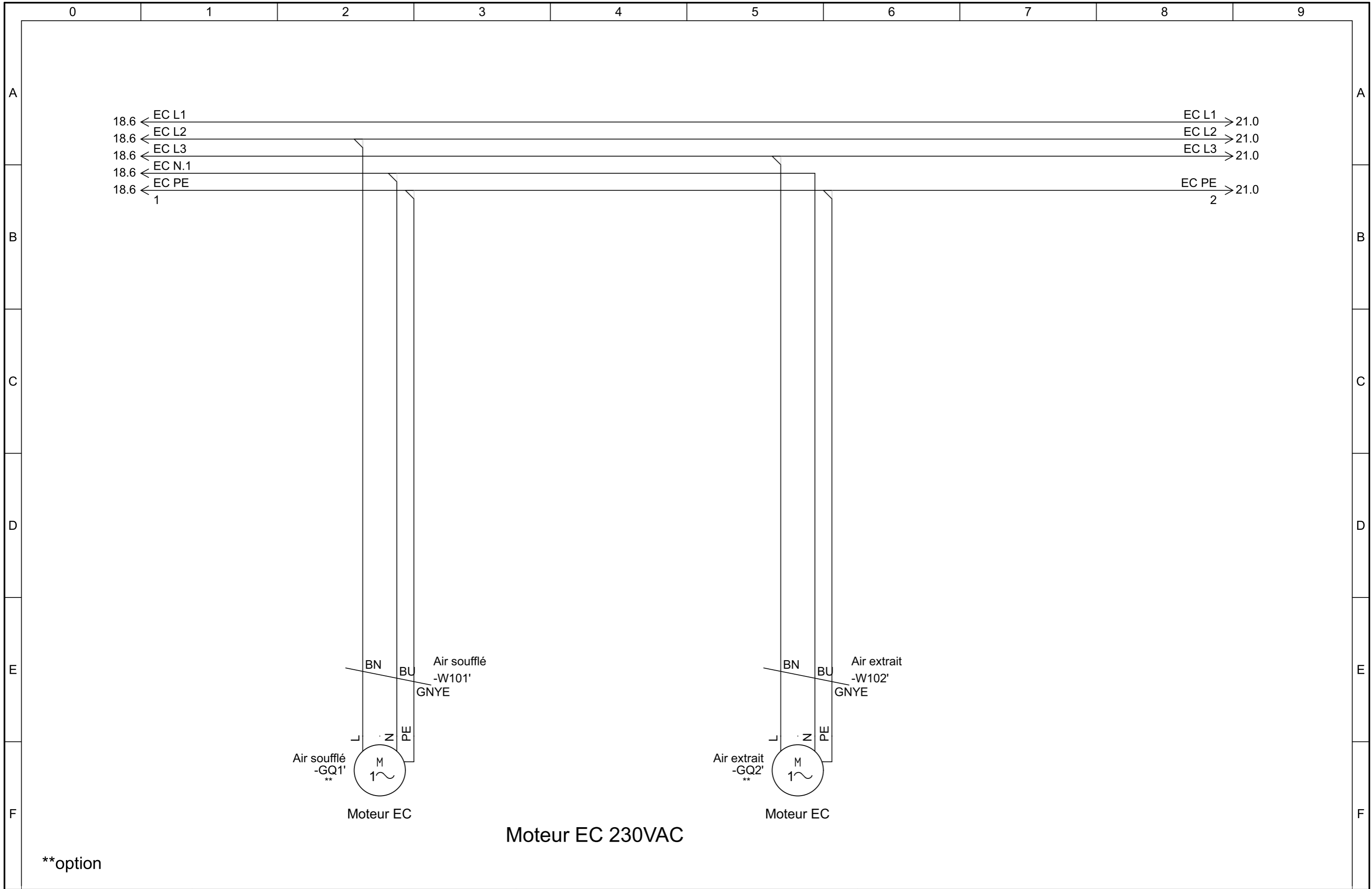


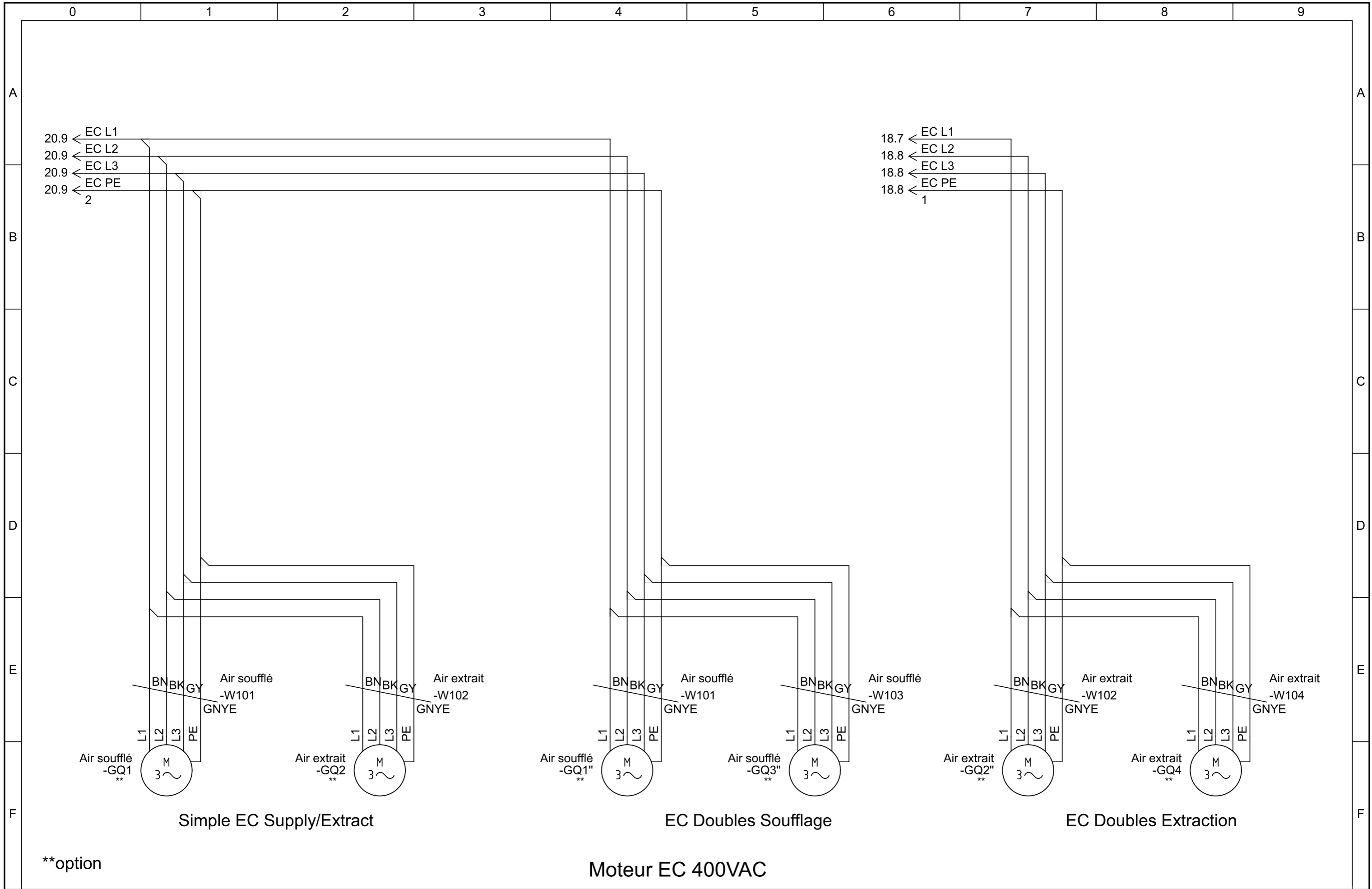
Si un filtre de courant résiduel est installé sur l'alimentation de l'unité, il doit être de type B
A cause de la rectification de la charge par le variateur de fréquence, ce produit peut générer un courant continu dans le conducteur protecteur.

**option



**option

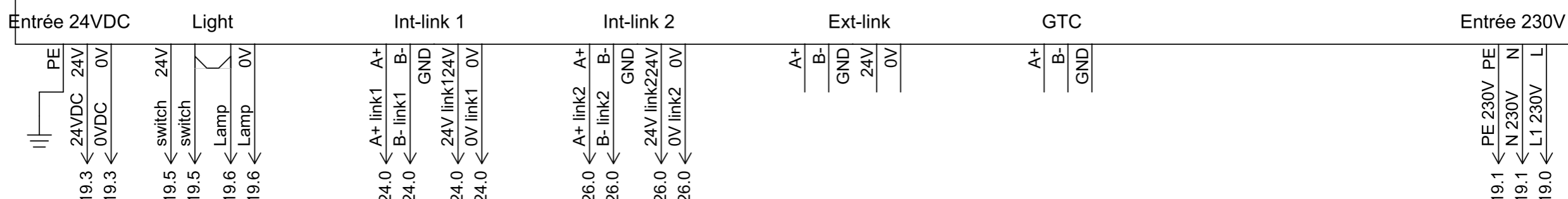
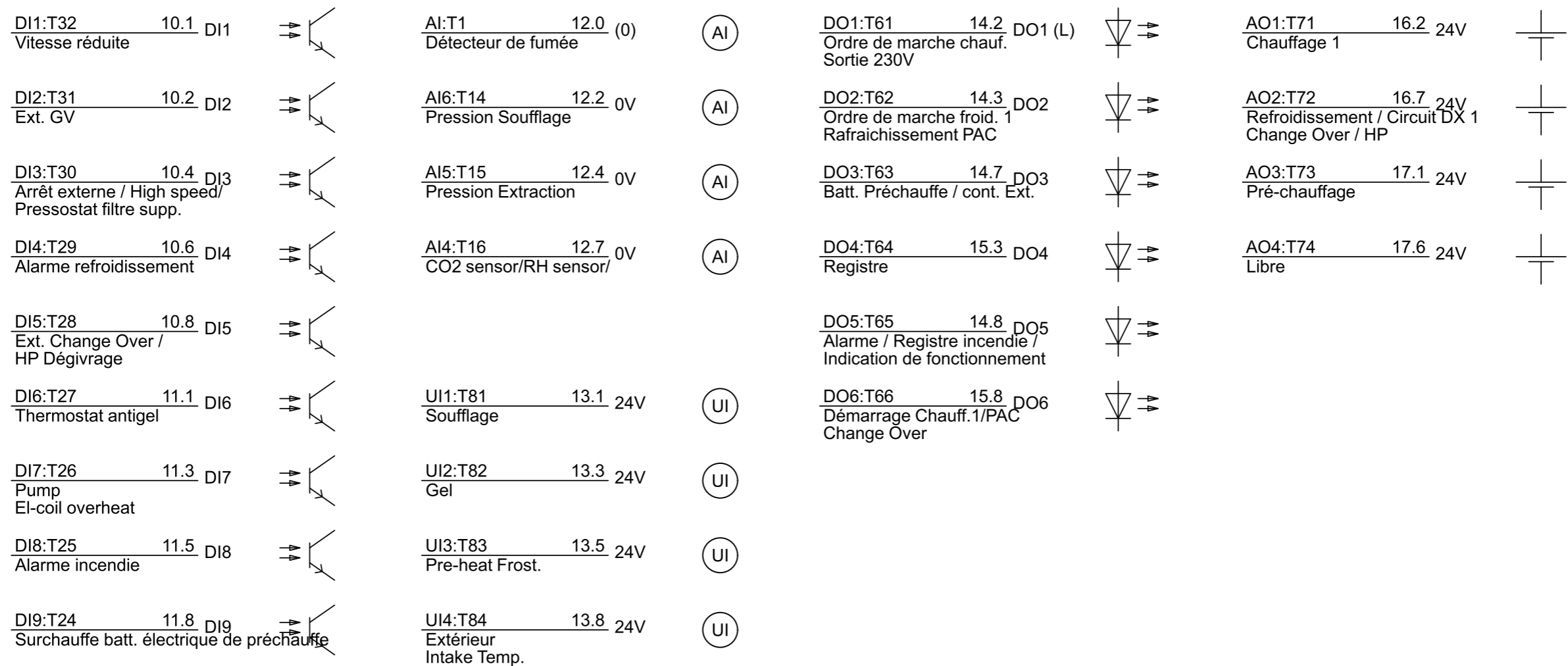


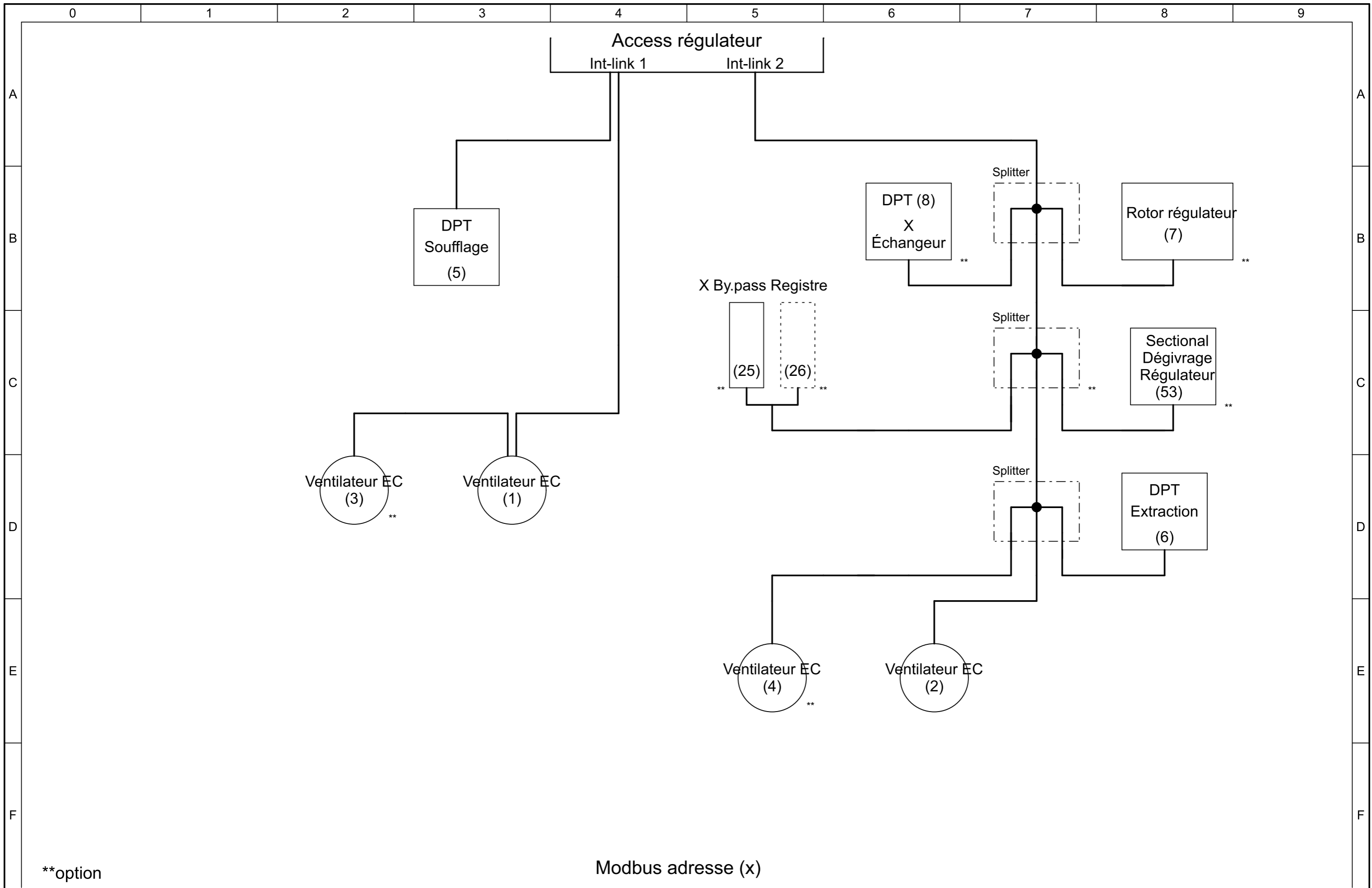


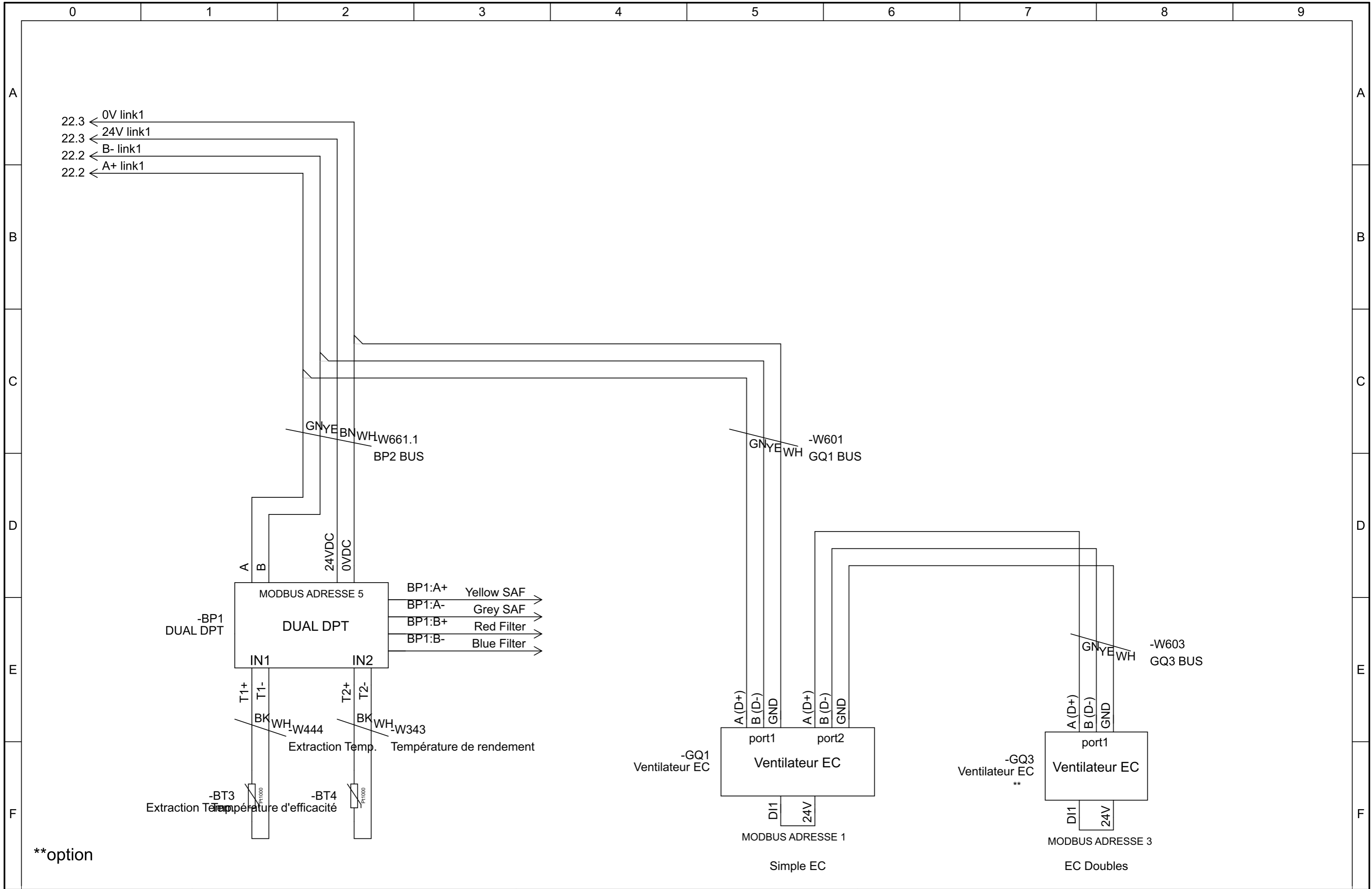
-KF1

Access CU27 Régulateur

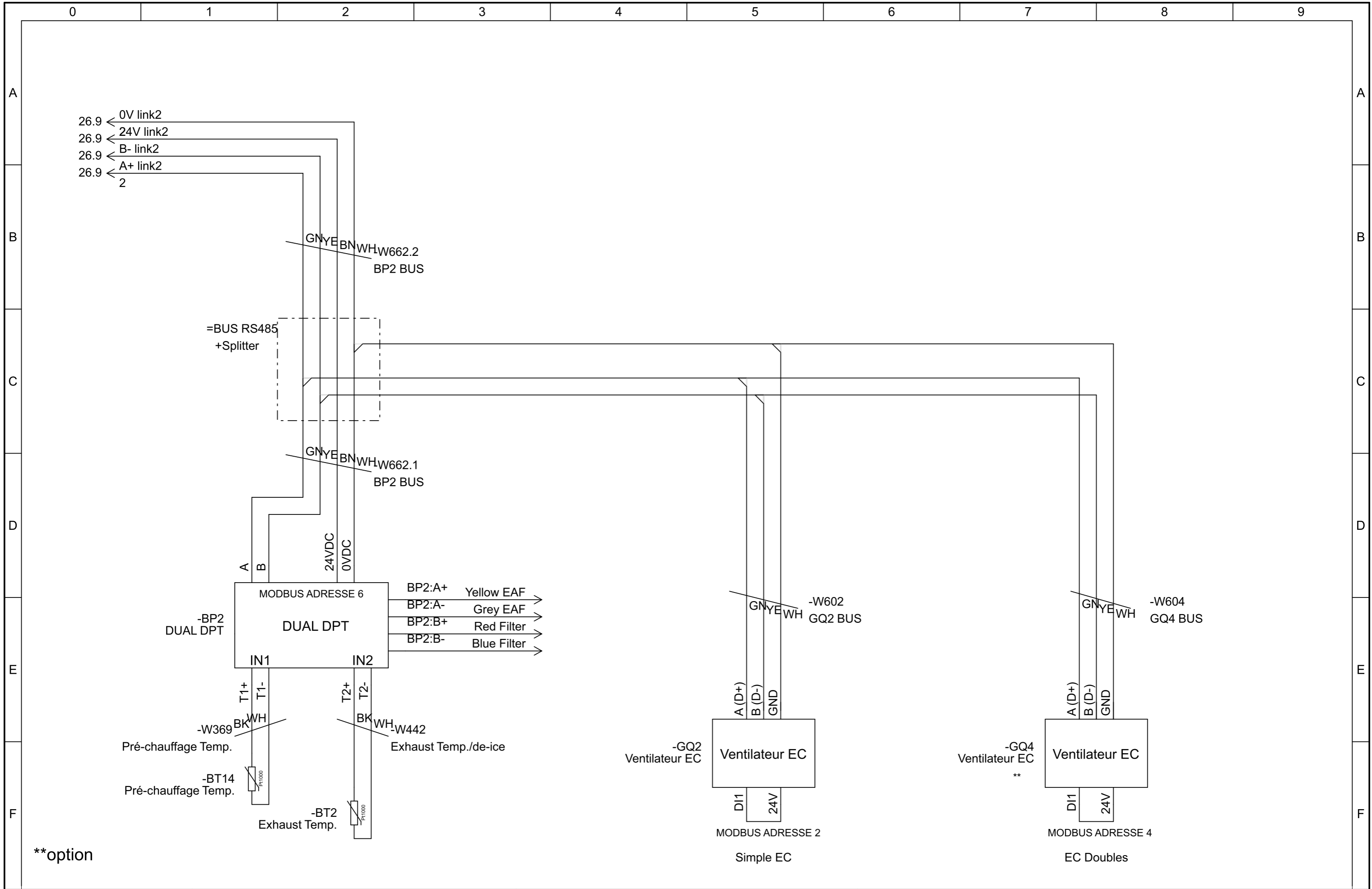
Systemair A/S



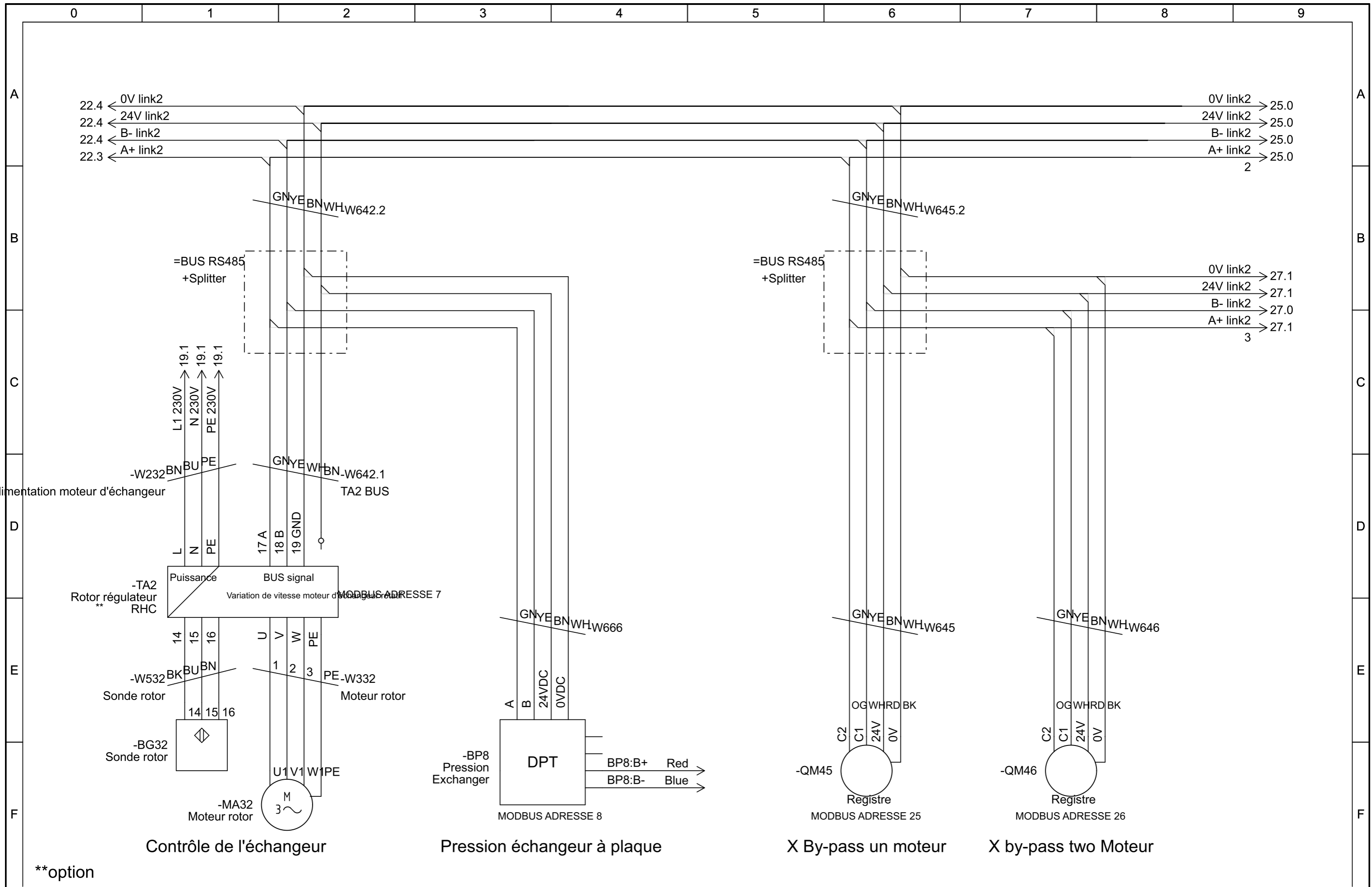




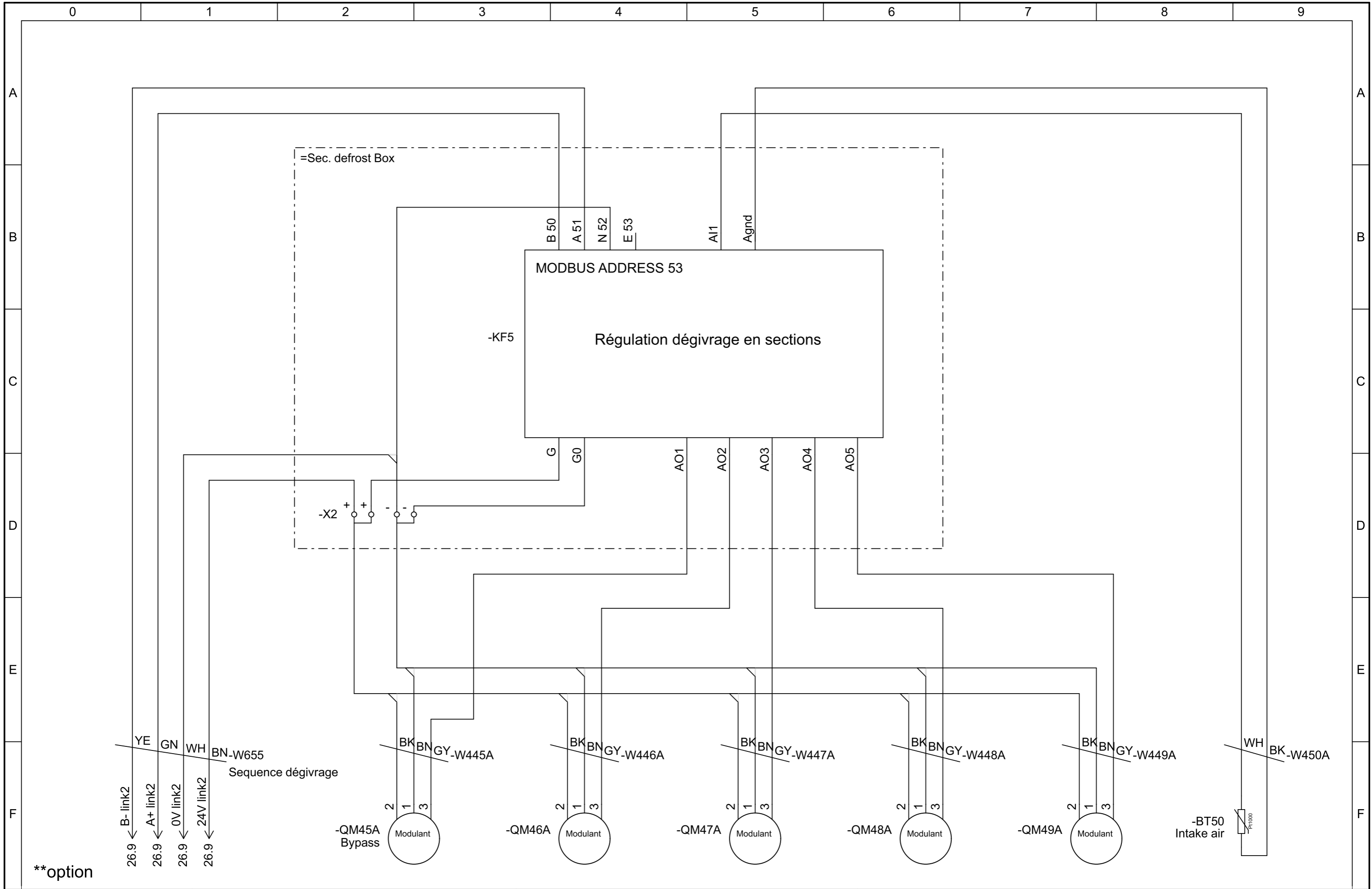
**option



**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.

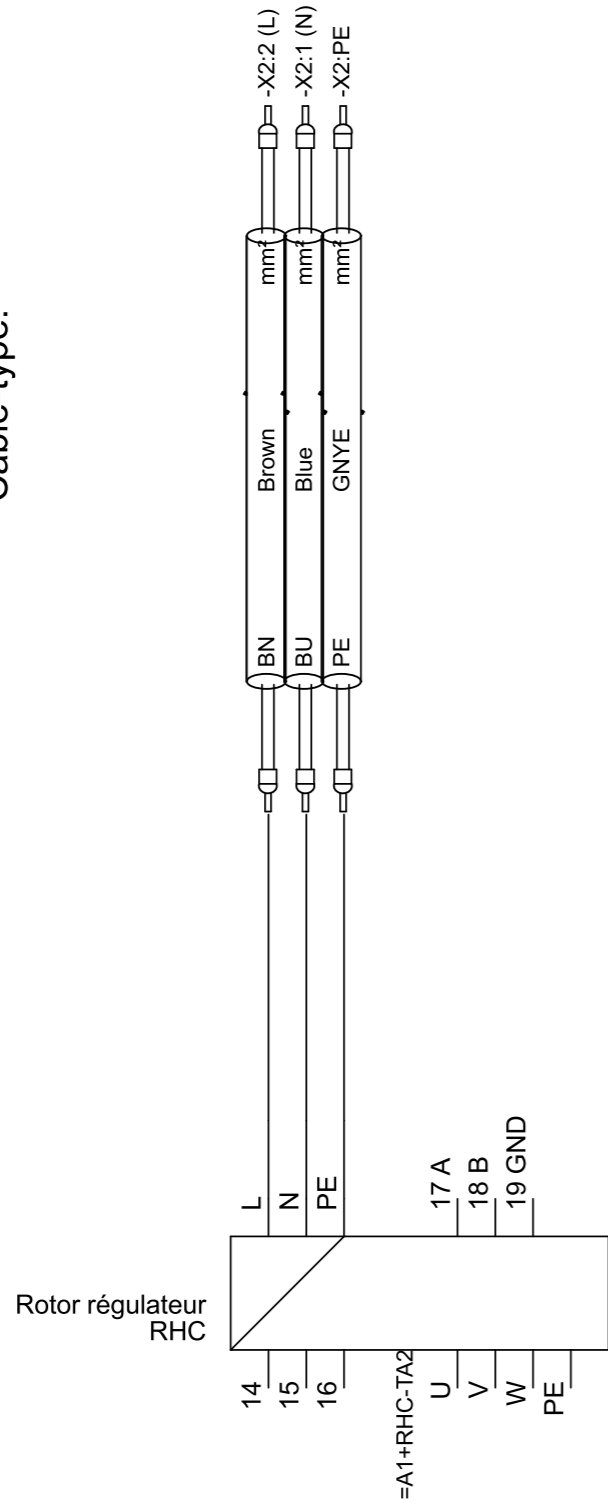
Function is active if D1 is open = no signal.

Principe du câblage

Page: 100
Voie: 7

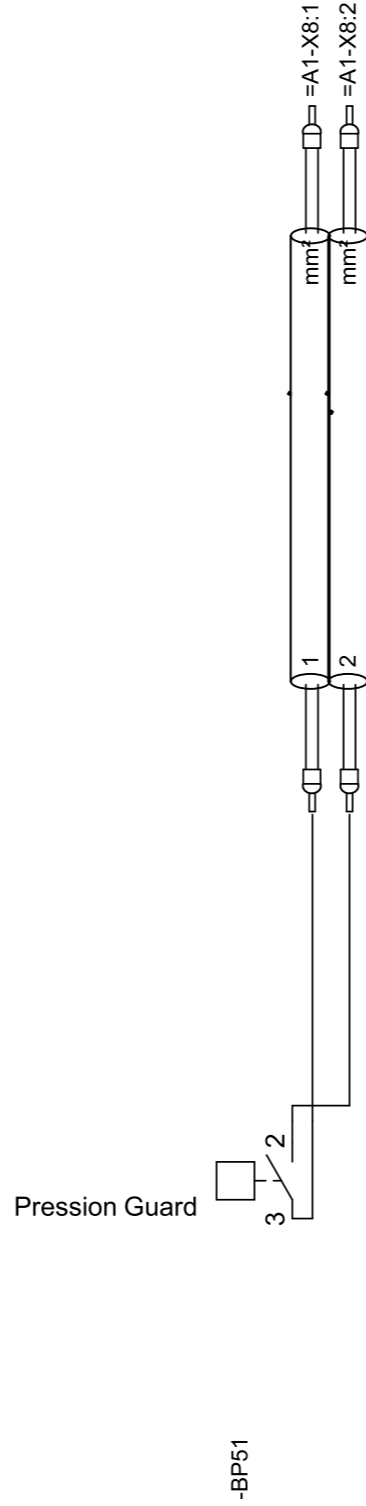
-W232

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



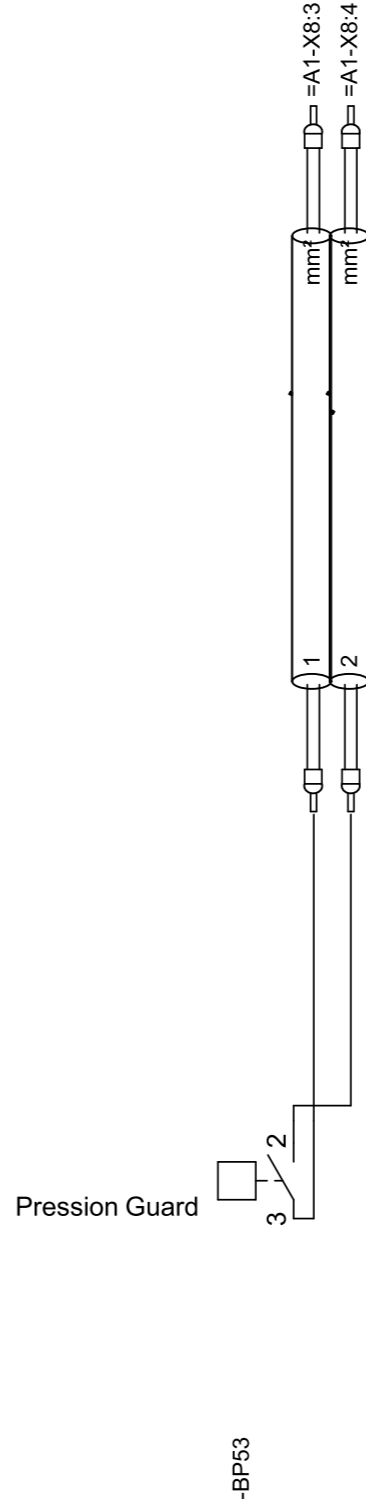
-W251

Remarque:
Cable-type:



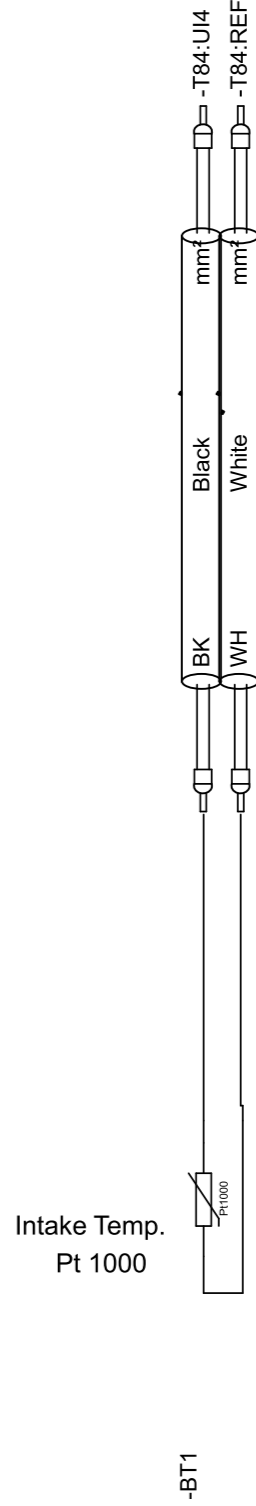
-W253

Remarque:
Cable-type:



-W341'

Remarque: Intake Temp.
Cable-type:



26
26
26

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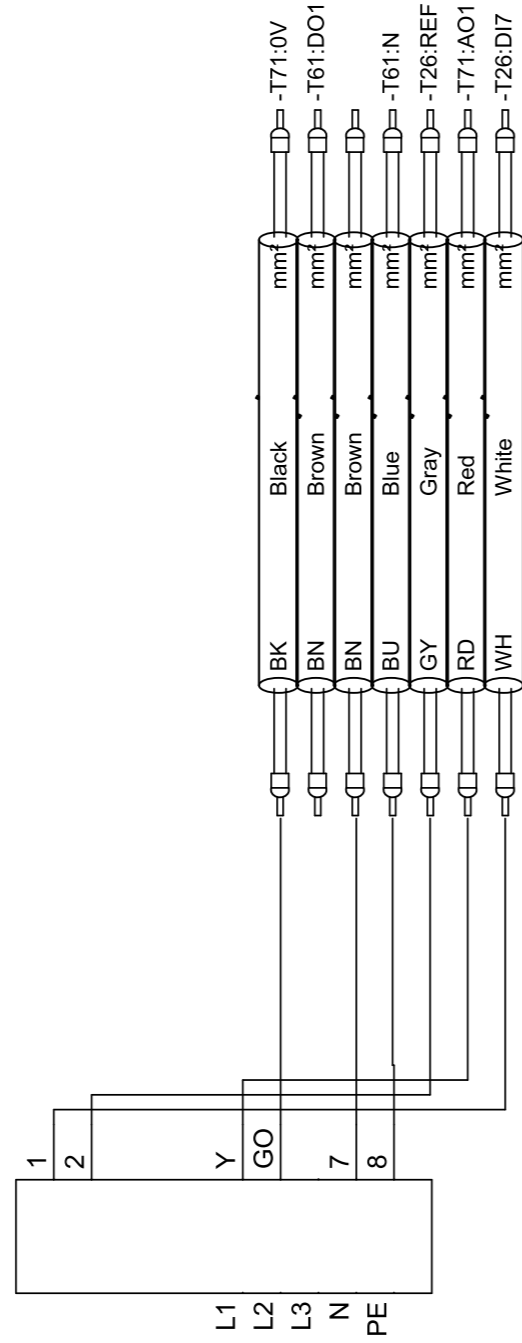
Principe du câblage

Page: Voie

Remarque: Batterie électrique
Cable-type:

-W351

Pré-chauffage électrique



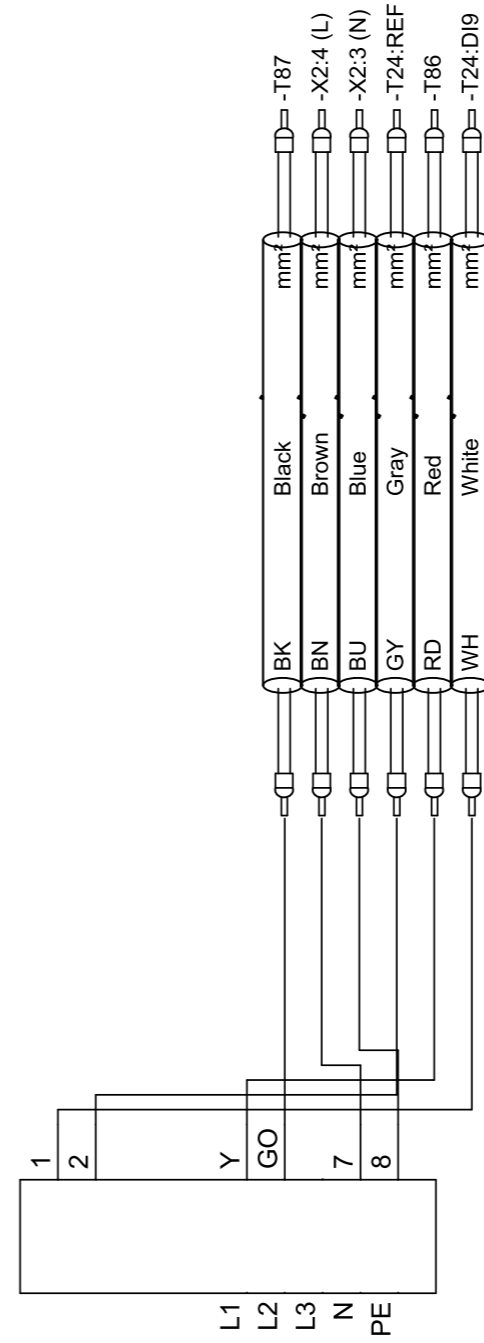
-EB51

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

-W353

Remarque: Batt. Préchauffage électrique
Cable-type:

Pré-chauffage électrique



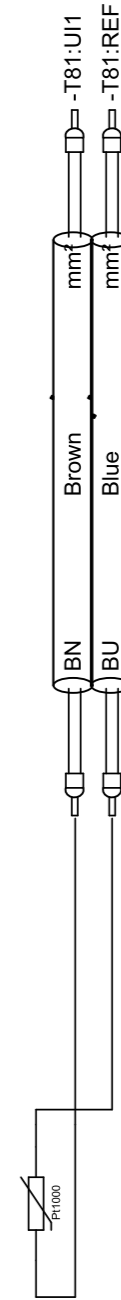
-EB53

17 4
17 4
17 4
17 3
17 4
17 3

-W355

Remarque: Sonde de température de soufflage
Cable-type:

Soufflage
Sonde d'gain



-BT5

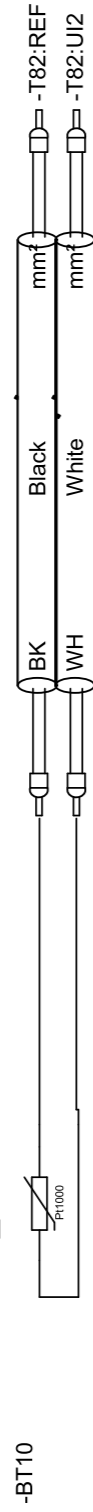
13 1
13 2

Principe du câblage

Remarque: Protection antigel batterie eau pré-chauffage.
Cable-type:

-W357

Protection antigel
Pt 1000



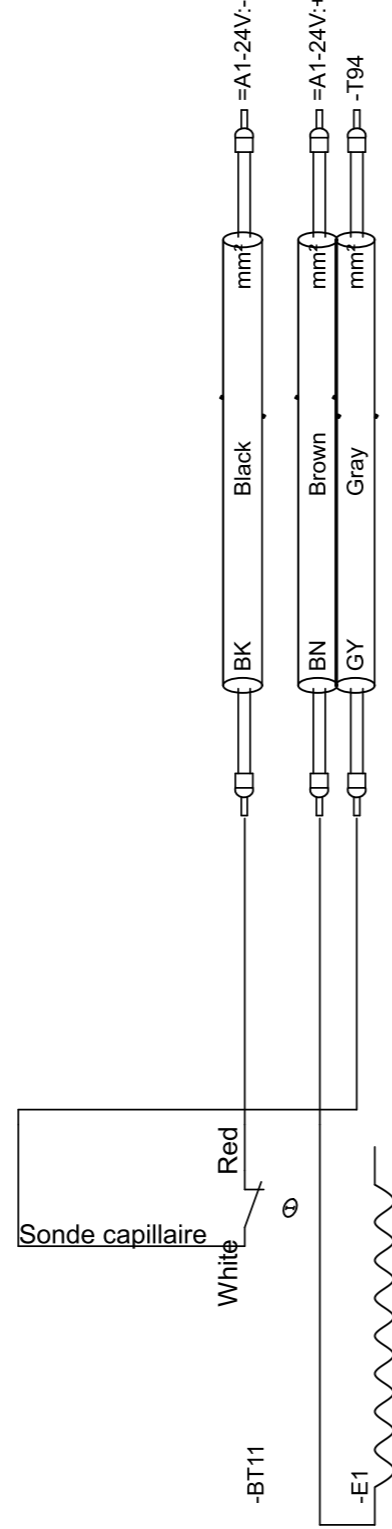
-BT10

13
13

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3

-W359

Remarque: Thermostat antigel
Cable-type:



-BT11

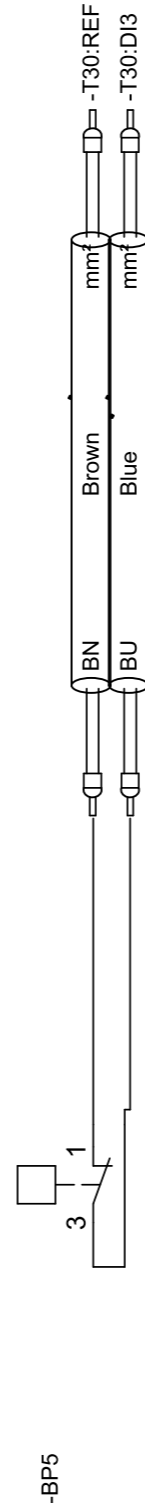
11
11
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2
1

-W363

Remarque: Pressostat filtre sup.
Cable-type:

Pressostat filtre supp.
Supply air



-BP5

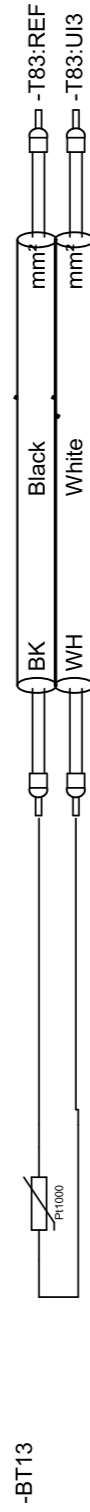
10
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-W367

Remarque: Pré-chauffage gel
Cable-type:

Pré-chauffage gel
Pt 1000



-BT13

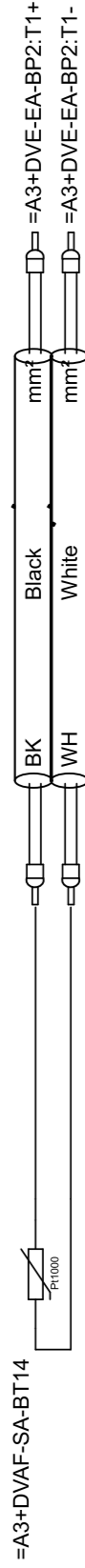
13
13

6
5

-W369

Remarque: Température pré-chauffage
Cable-type:

Pré-chauffage Temp.



=A3+DVAF-SA-BT14

25
25

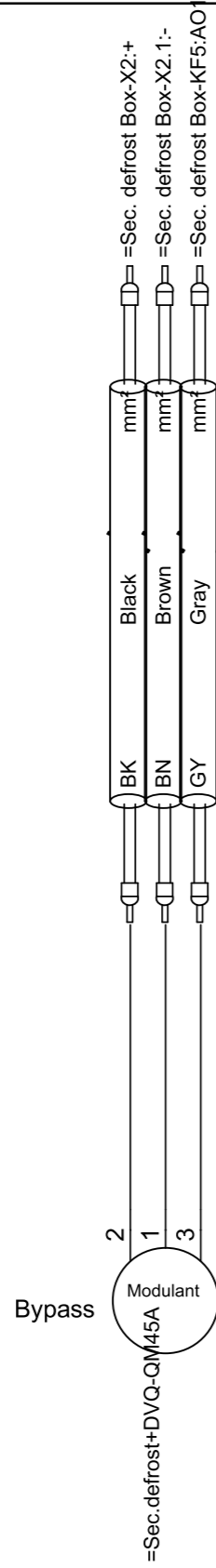
1
1

Principe du câblage

Voie
Page:

-W445A

Remarque:
Cable-type:

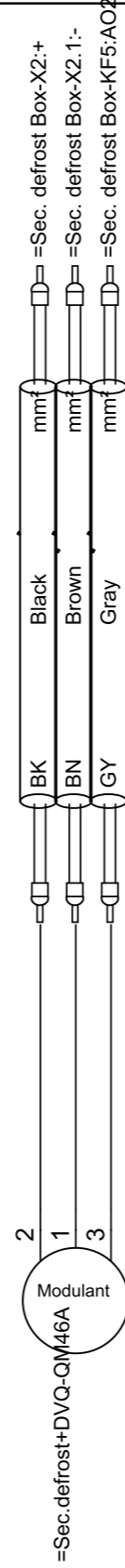


27
27
27

2
3
3

-W446A

Remarque:
Cable-type:

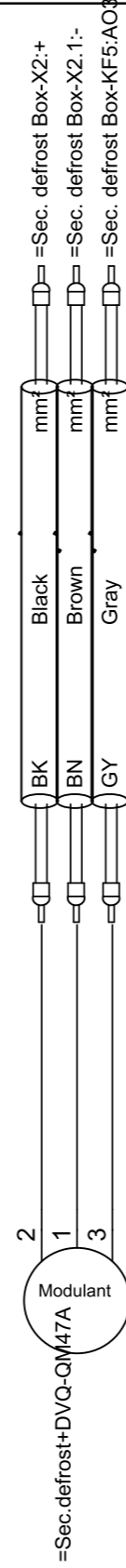


27
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-W447A

Remarque:
Cable-type:

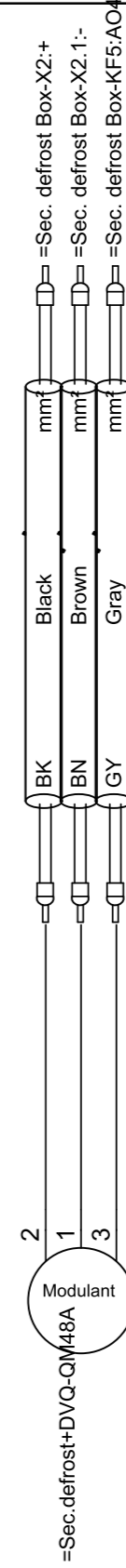


27
27
27

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-W448A

Remarque:
Cable-type:



27
27
27

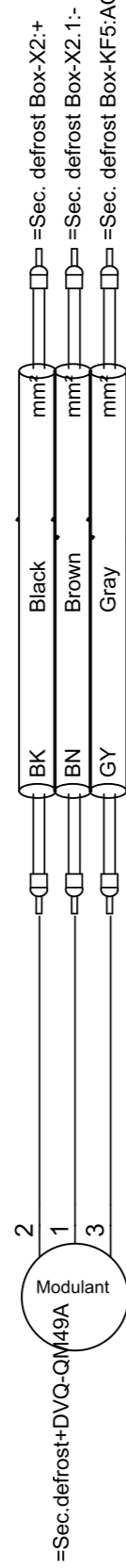
6
6
6

Principe du câblage

Voie
Page:

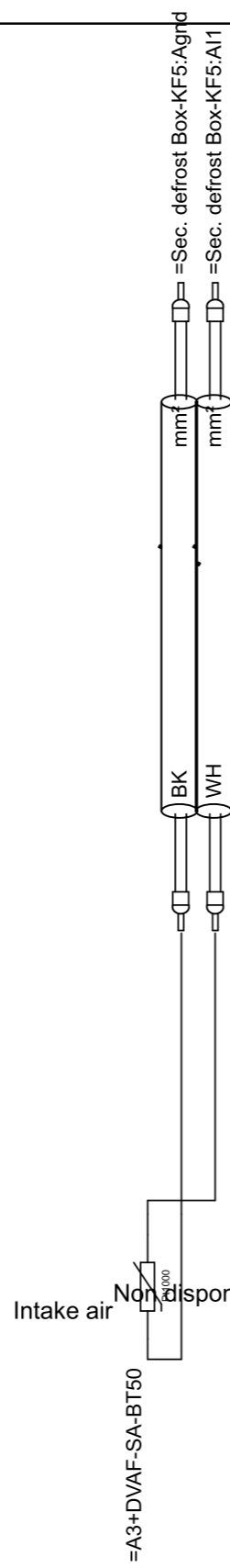
-W449A

Remarque:
Cable-type:



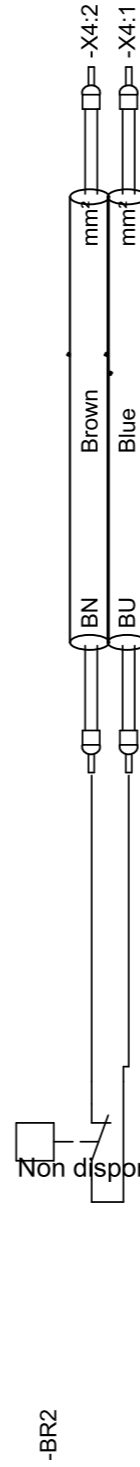
-W450A

Remarque: Intake air
Cable-type:



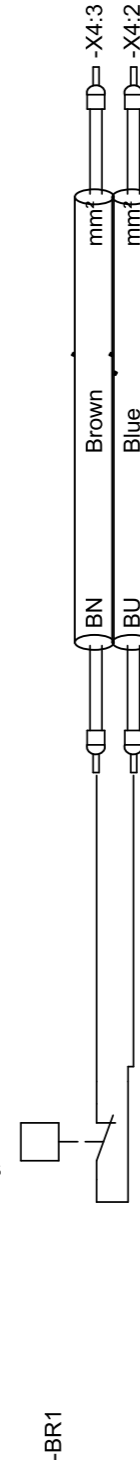
-W456

Remarque: Thermostat incendie air extrait
Cable-type:



-W457

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



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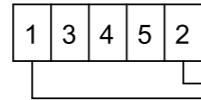
Principe du câblage

Voie
Page:

Remarque: Détecteur de fumée
Cable-type:

-W458

Délect. Fumée
**



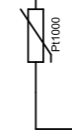
-BQ3



Remarque: Sonde extérieure
Cable-type:

-W507

Extérieur Temp.
Pt 1000



-BT7



Remarque: Sonde ambiance 1
Cable-type:

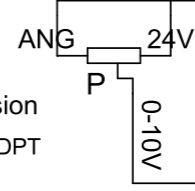
-W508



Remarque: Pression air soufflé externe
Cable-type:

-W513

Transmetteur de pression
DPT



-BP3



| | | | | | | | | | |
|----|----|----|----|----|----|----|----|----|----|
| 0 | 1 | 8 | 8 | 8 | 9 | 9 | 3 | 3 | 2 |
| 12 | 12 | 13 | 13 | 12 | 12 | 12 | 12 | 12 | 12 |

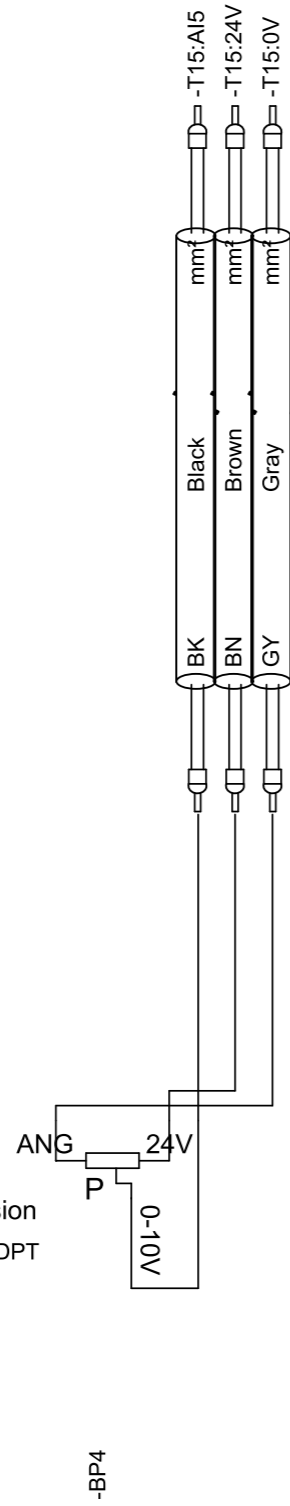
Principe du câblage

Voie
Page:

Remarque: Pression air extrait externe
Cable-type:

-W514

Transmetteur de pression
DPT

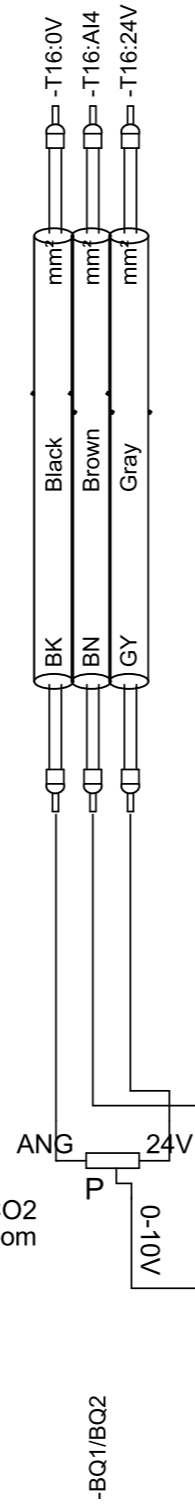


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-W515/516

Remarque: sonde CO2
Cable-type:

Sonde CO2
Duct/Room

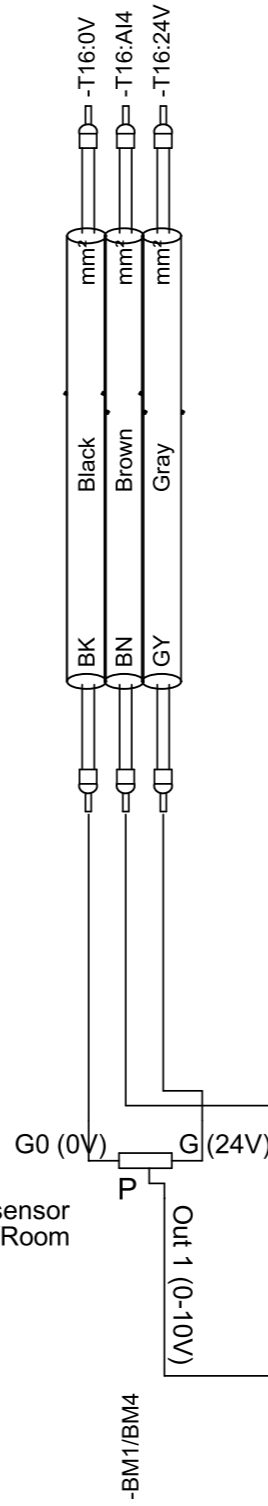


6
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-W517/W520

Remarque: RH sensor
Cable-type:

RH sensor
Extract/Room



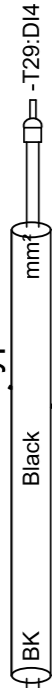
7
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Principe du câblage

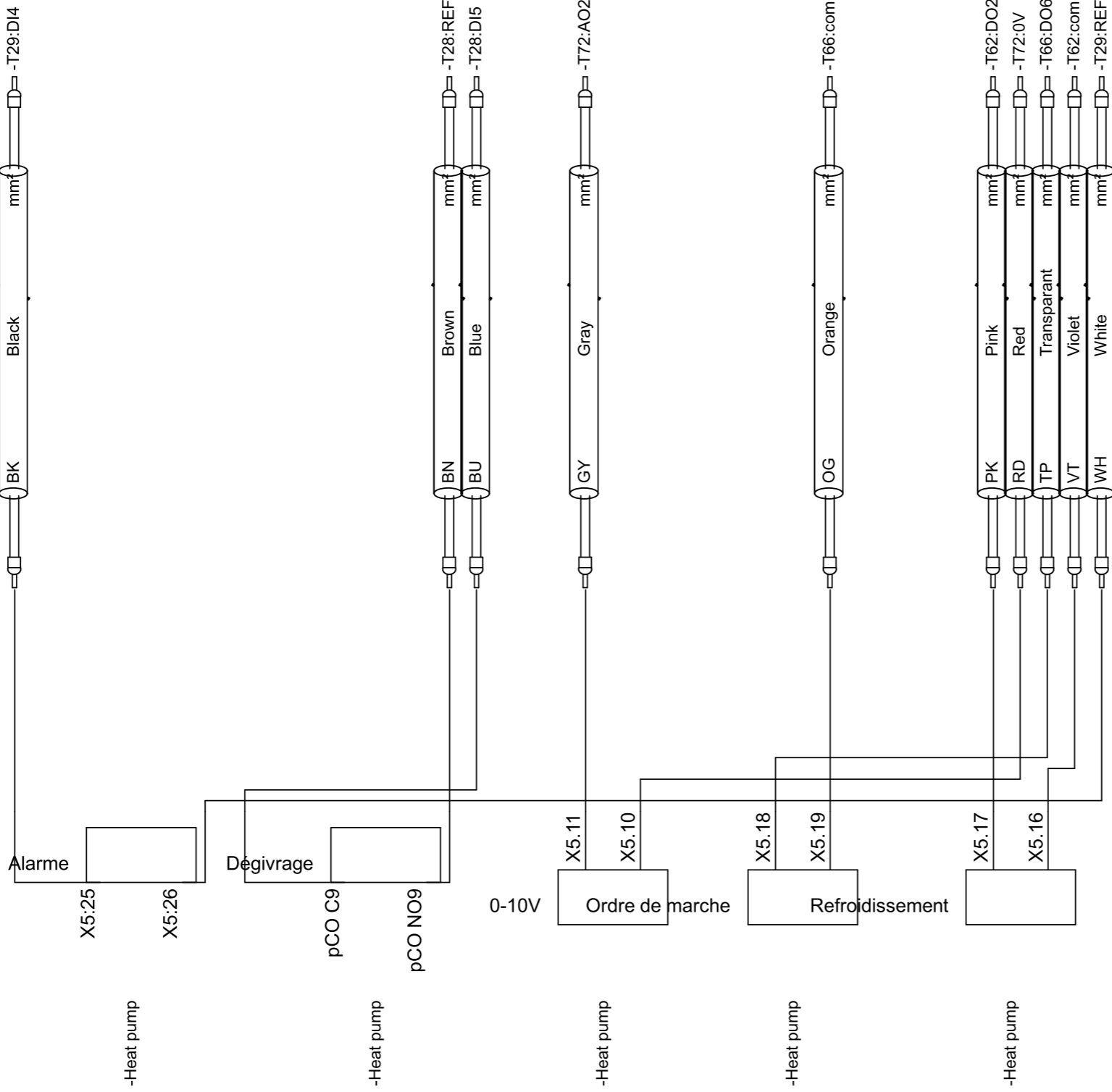
Page: 10

Voie 6

Remarque: Régulation PAC
Cable-type: Black

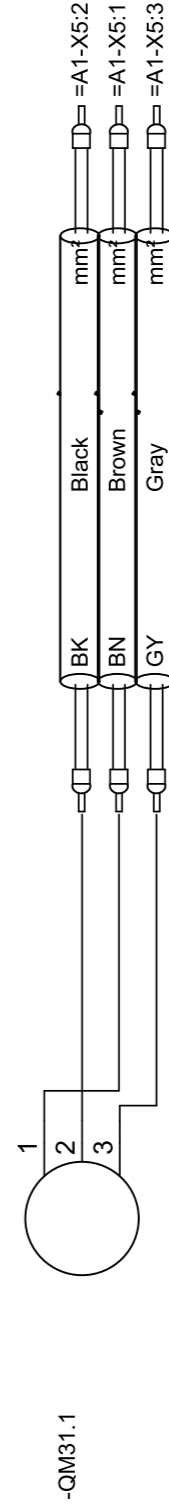


-W528



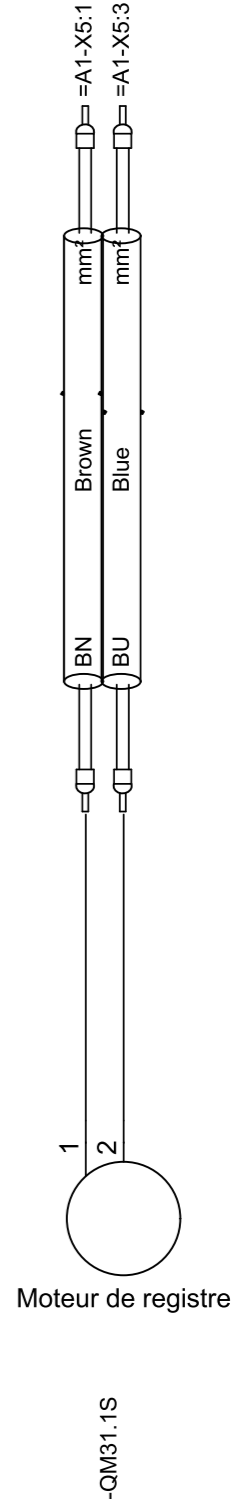
-W531.1

Remarque: Registre Soufflage
Cable-type:



-W531.1S

Remarque: Registre Soufflage
Cable-type:



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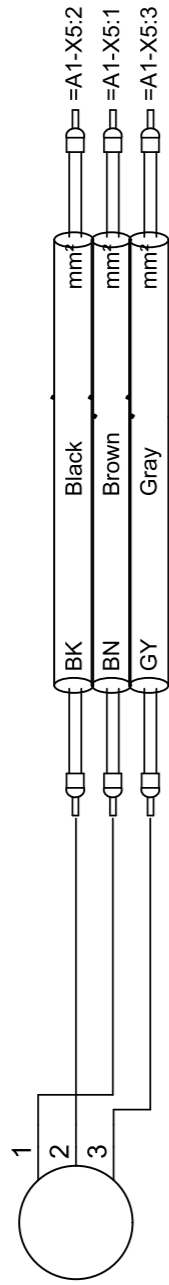
15

Principe du câblage

Page: Voie

Remarque: Registre Extraction
Cable-type:

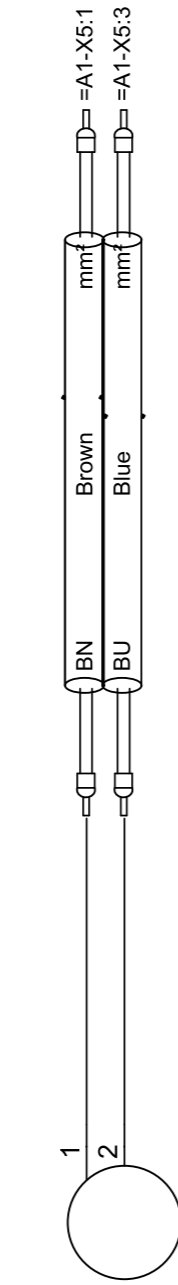
-W532.1



-QM32.1

Remarque: Registre Extraction
Cable-type:

-W532.1S



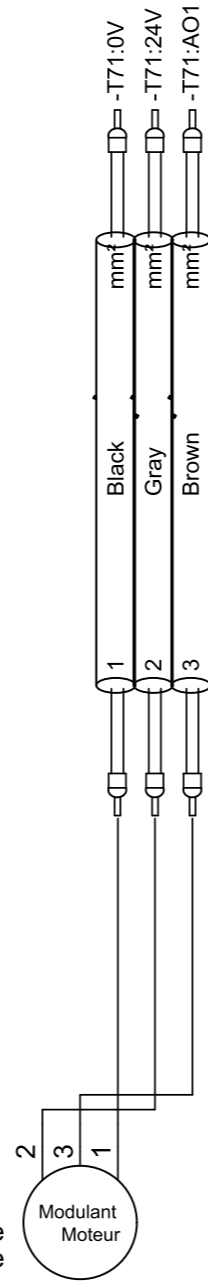
-QM32.1S

Moteur de registre

Remarque: Vanne chaud
Cable-type:

-W551

Vanne Chauffage



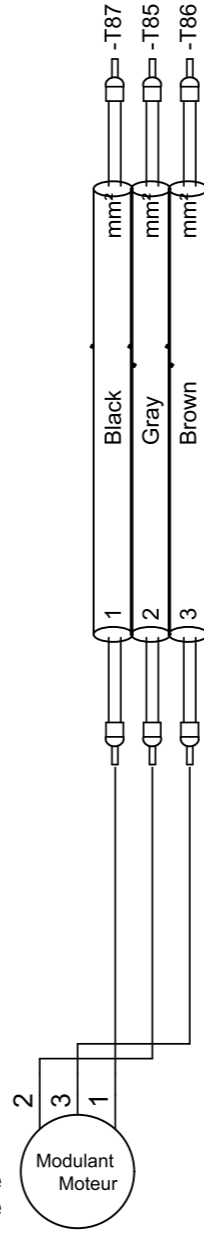
-QN51

Modulant Moteur

Remarque: Vanne chaud
Cable-type:

-W553

Vanne Pré-chauffage

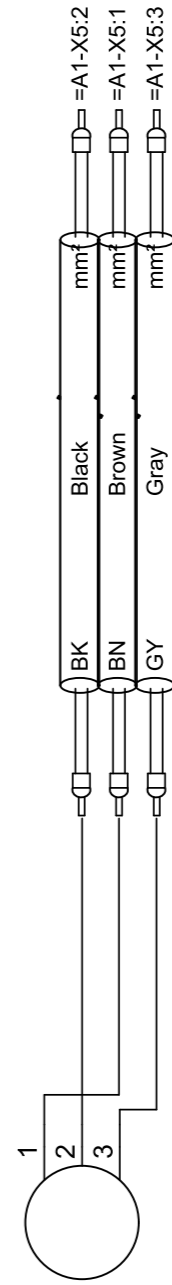


-QN53

Modulant Moteur

Remarque: Registre Soufflage 2
Cable-type:

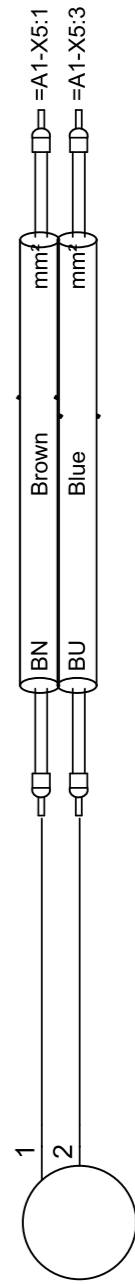
-W571.1



-QM71.1

Remarque: Registre Soufflage 2
Cable-type:

-W571.1S



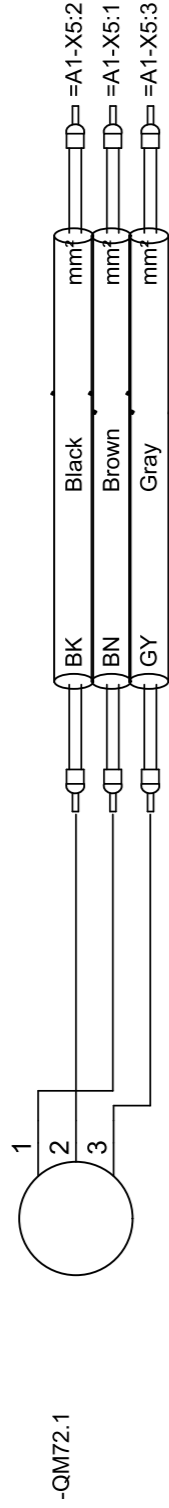
-QM71.1S

Moteur de registre

Principe du câblage

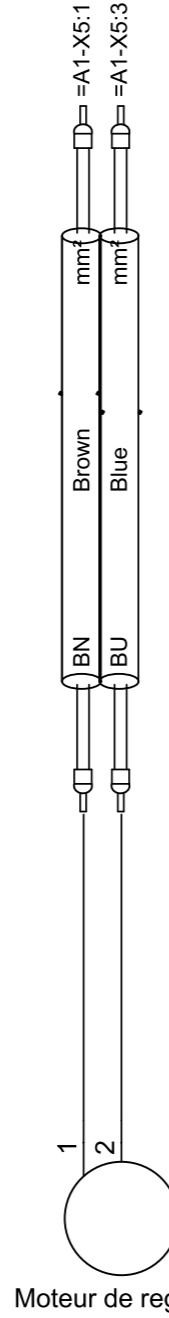
Page: Voie

-W572.1 Remarque: Registre Extraction 2
Cable-type:



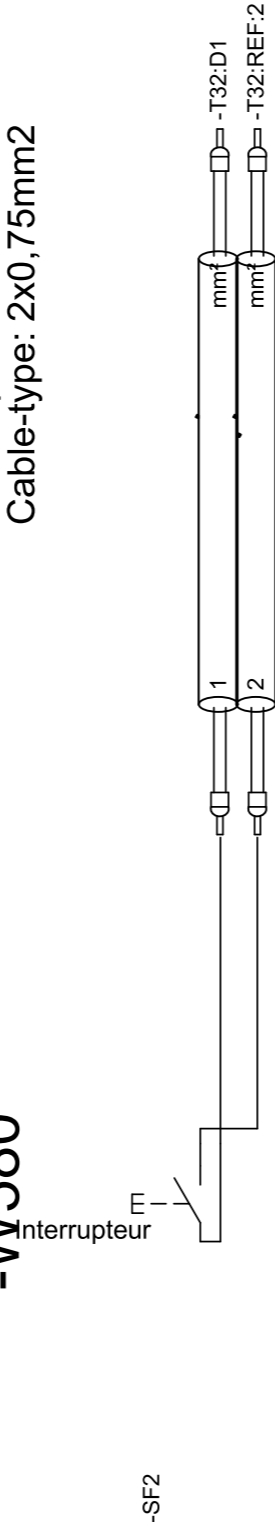
-QM72.1

-W572.1S Remarque: Registre Extraction 2
Cable-type:



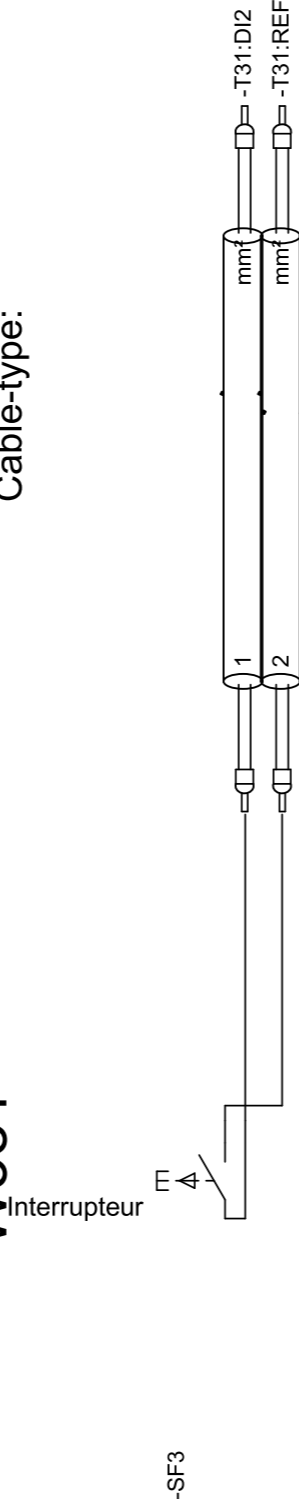
-QM72.1S
Moteur de registre

-W580 Remarque: Vitesse réduite PV
Cable-type: 2x0,75mm2



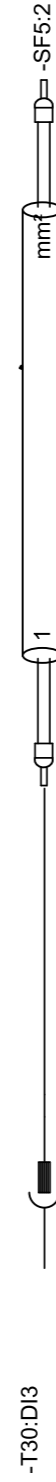
-SF2

-W581 Remarque: GV - Ext.
Cable-type:



-SF3

-W583 Remarque: arrêt externe
Cable-type: 2x0,75mm2

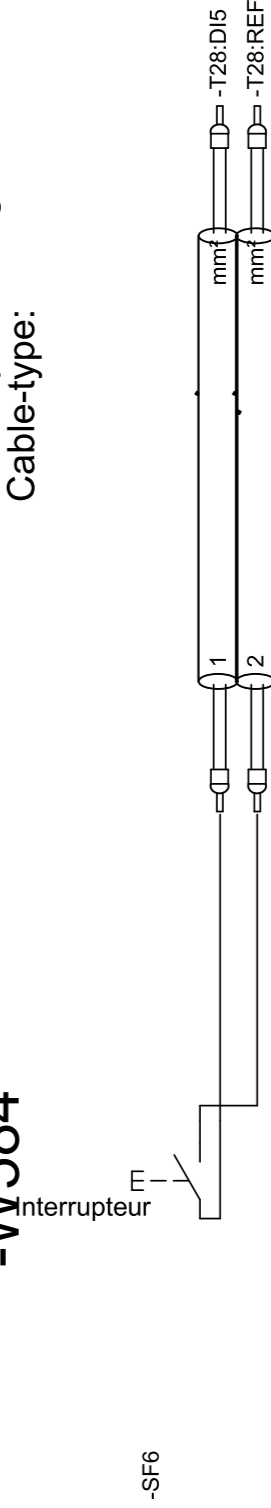


-T30:D13



-T30:REF

-W584 Remarque: Change Over
Cable-type:



-SF6

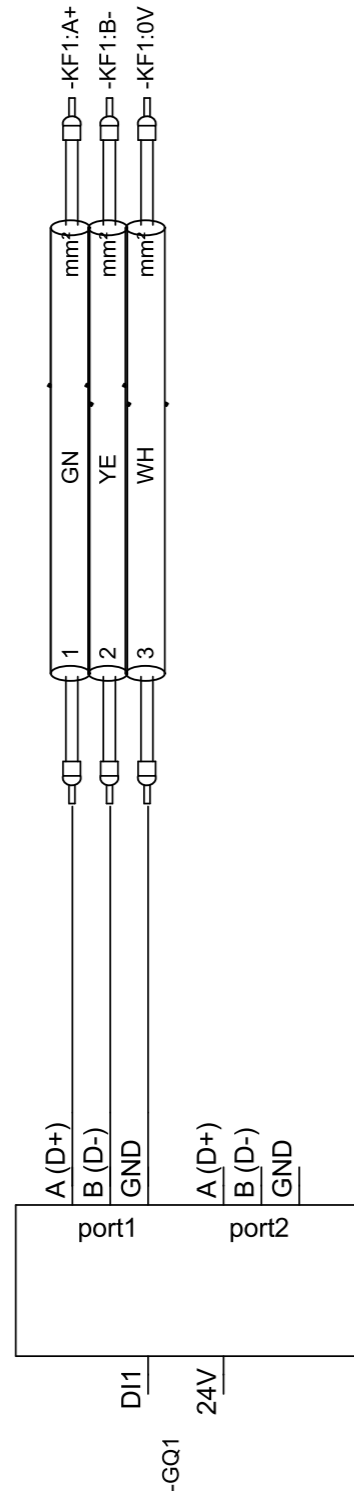
Principe du câblage

Voie
Page:

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

-W601

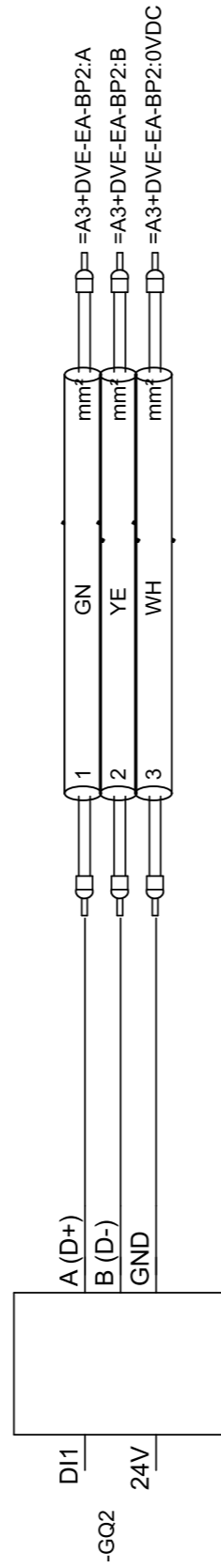
Ventilateur EC



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

-W602

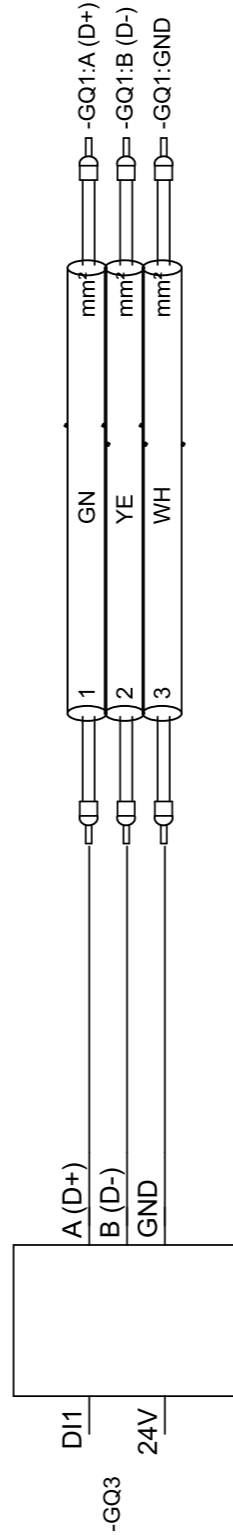
Ventilateur EC



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

-W603

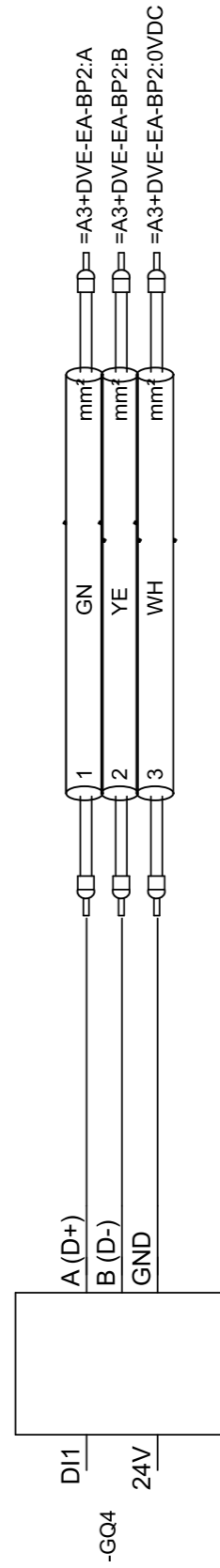
Ventilateur EC



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

-W604

Ventilateur EC



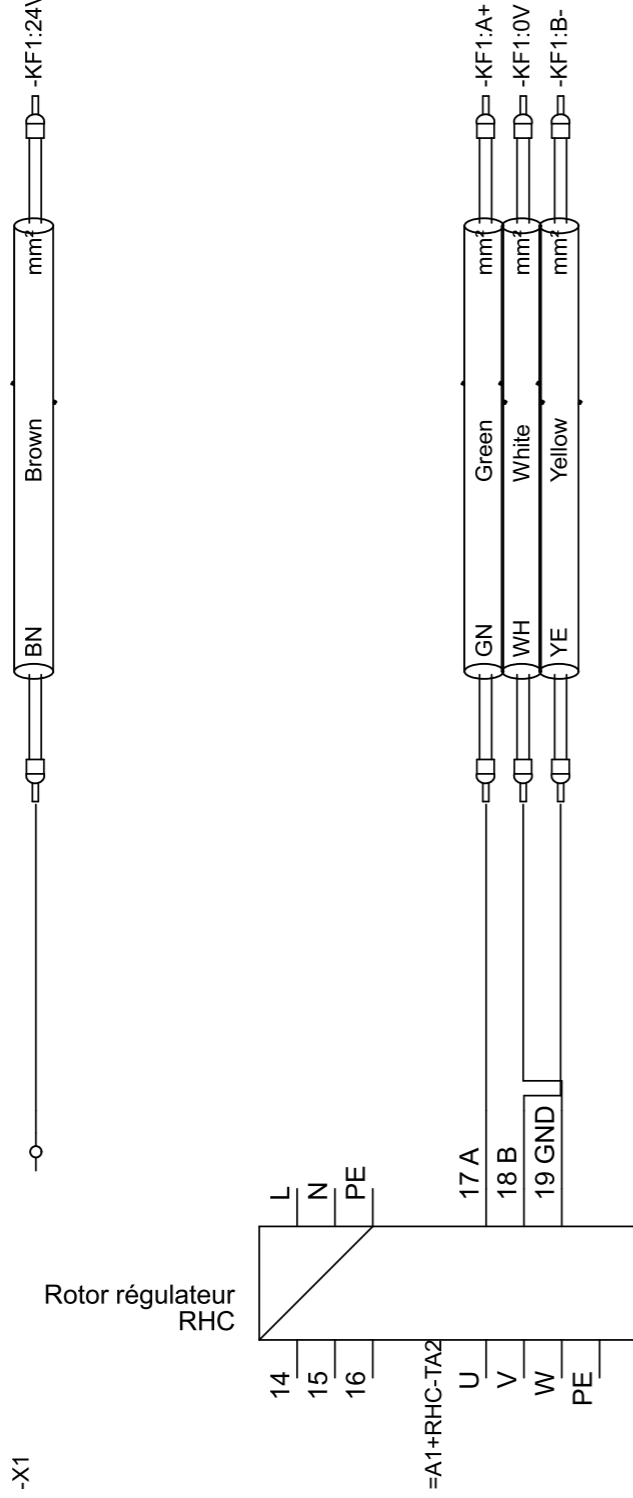
Principe du câblage

Voie
Page:



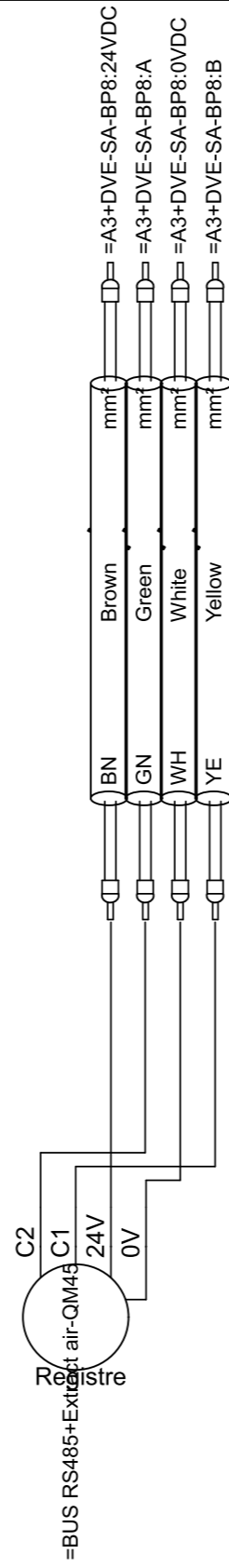
Remarque: Bus TA2
Cable-type:

-W642.1



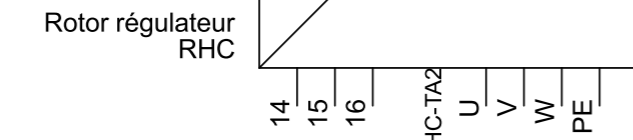
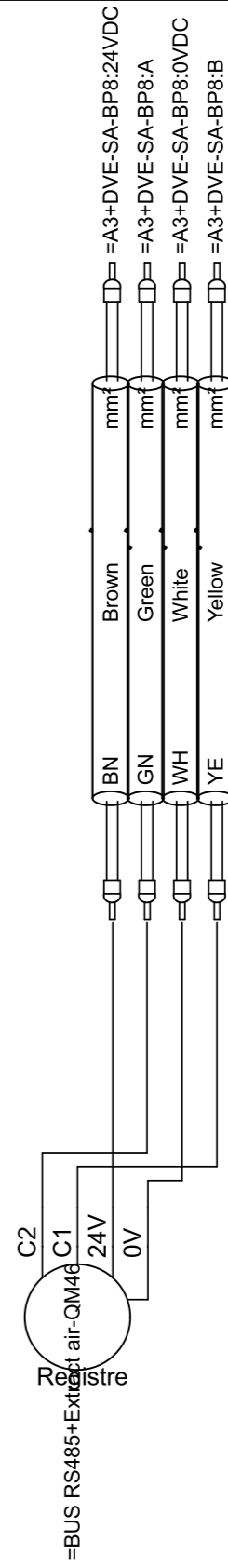
Remarque: Extraction
Cable-type:

-W645



Remarque: Extraction
Cable-type:

-W646

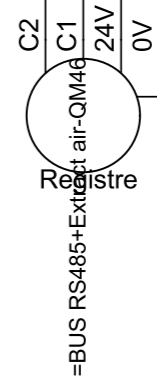


-X1

=A1+RHC-TA2



=BUS RS485+Ext



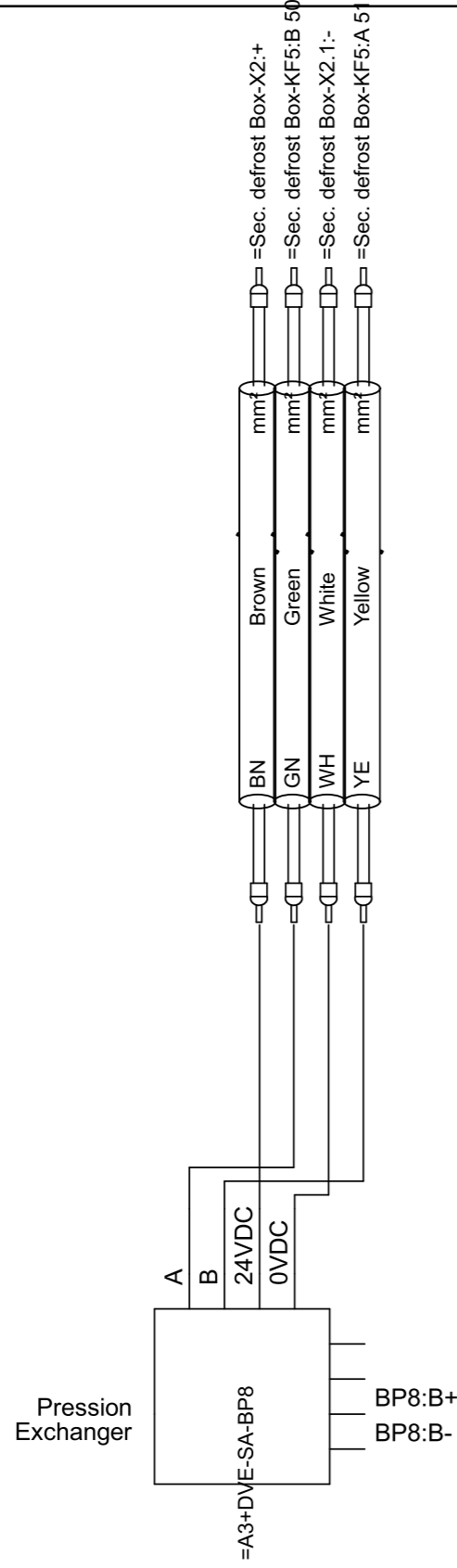
=BUS RS485+Ext

Principe du câblage

Page: Voie

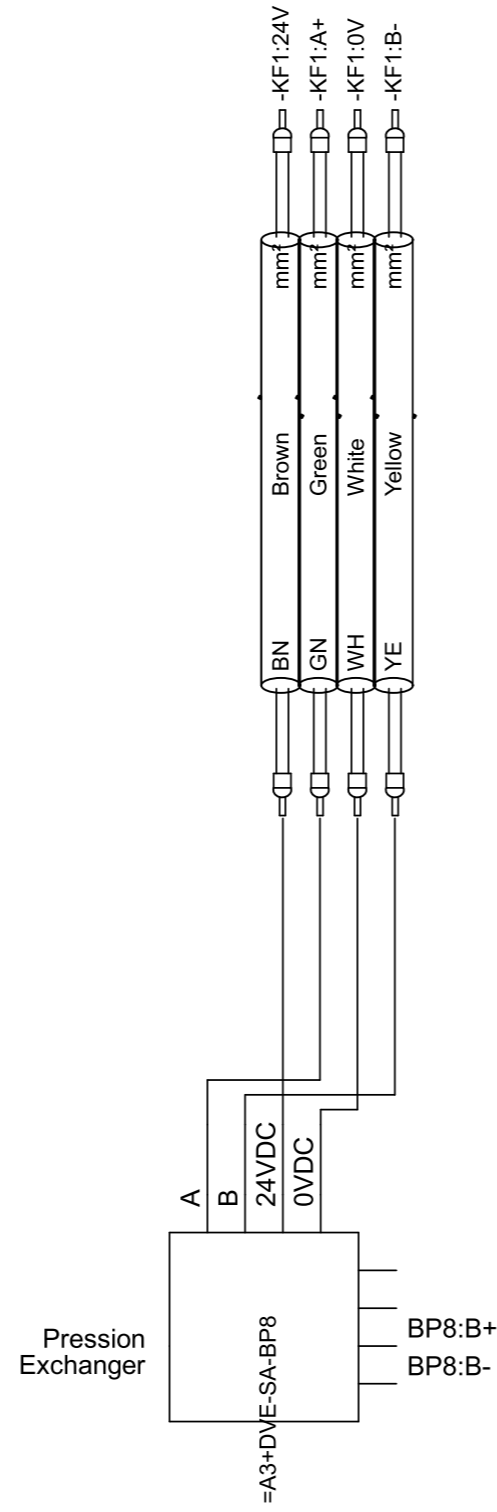
Remarque: Sequence dégivrage
Cable-type:

-W655



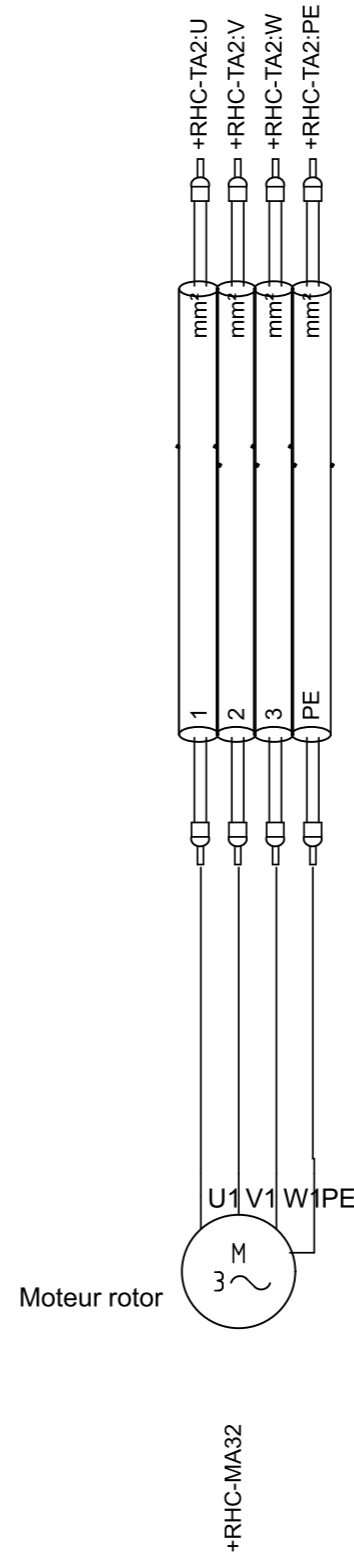
Remarque: Pression plaques
Cable-type:

-W666



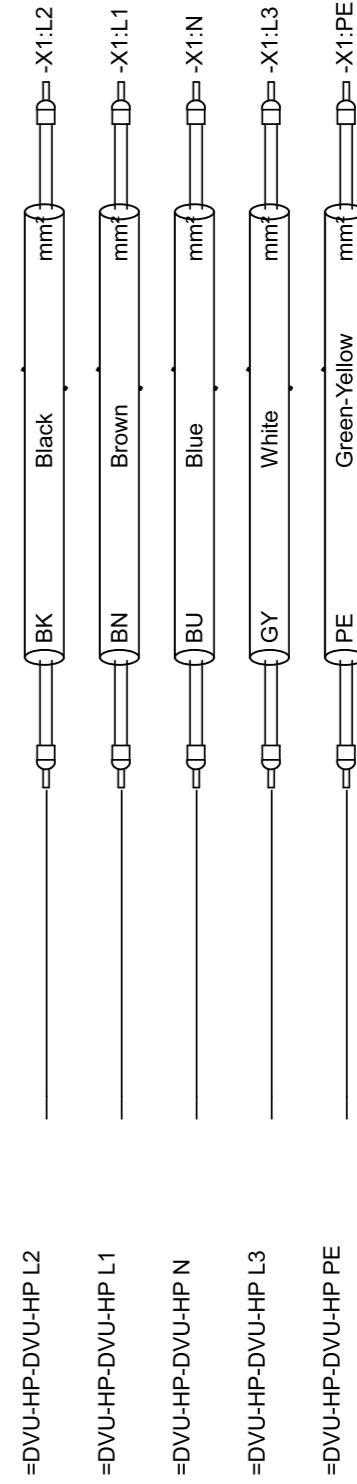
Remarque: Moteur d'échangeur
Cable-type:

=A1-W332



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

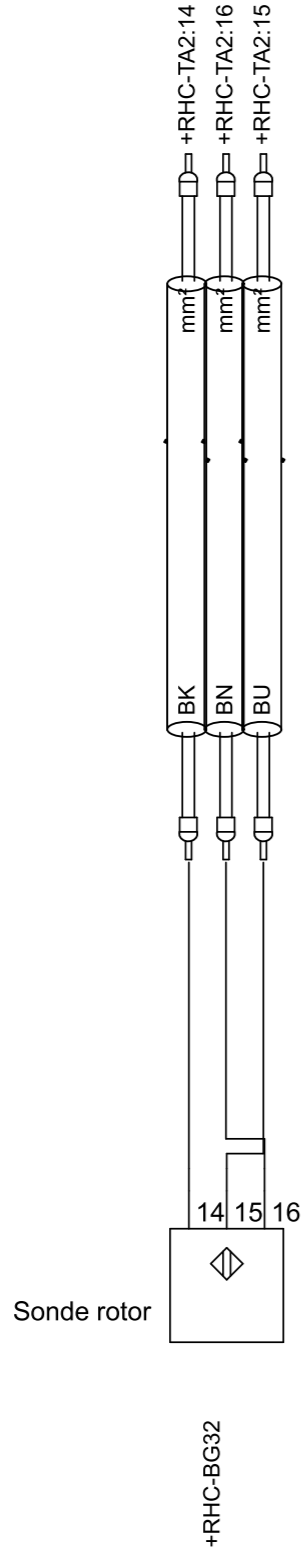
=A1-W529



Principe du câblage

Remarque: Capteur de rotation échangeur
Cable-type:

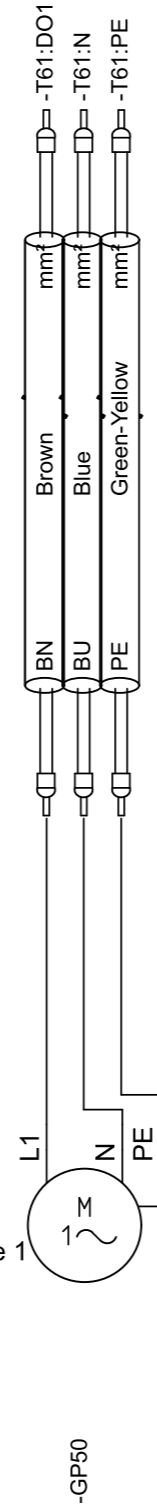
=A1-W532



Voie
26
26
26

=A1-W550

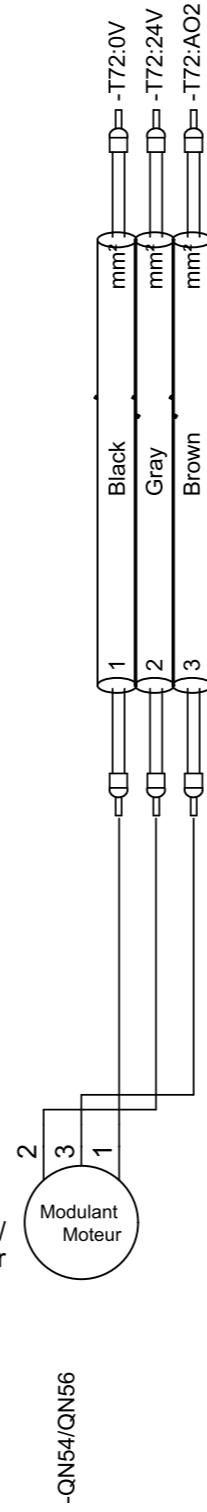
Remarque: Pompe de mélange
Cable-type:



2
2
2

=A1-W554

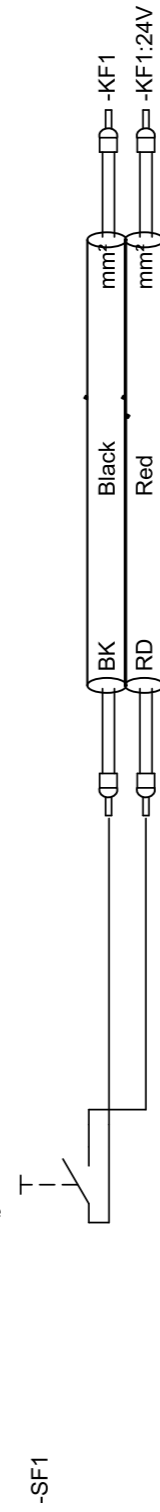
Remarque: vanne refroidissement
Cable-type:



7
7
7

=A1-W700

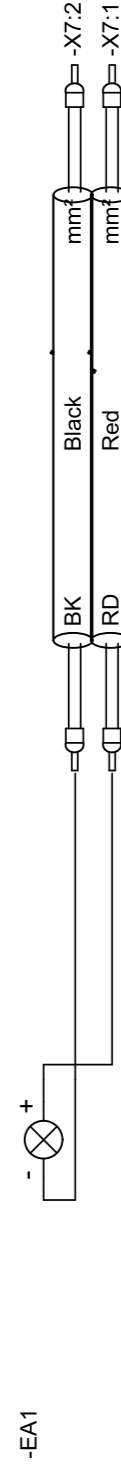
Remarque: Interrupteur éclairage
Cable-type:



5
5

=A1-W701

Remarque: Eclairage P20
Cable-type:



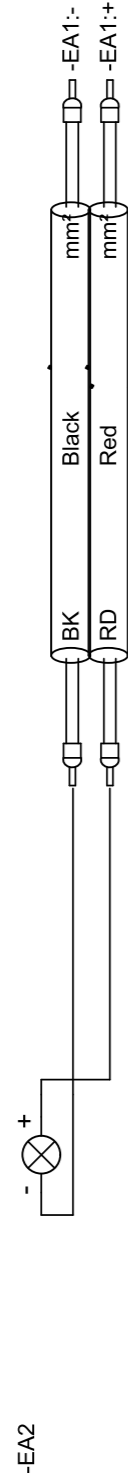
6
6

Principe du câblage

Page: Voie

=A1-W702

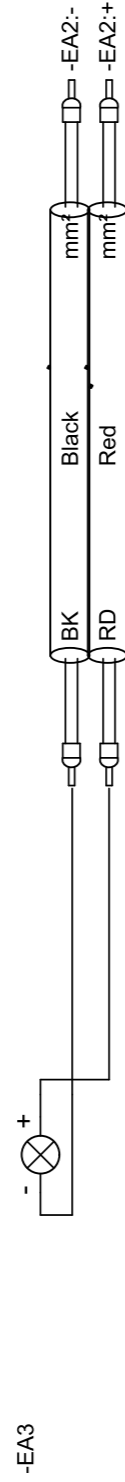
Remarque: Eclairage P20
Cable-type:



19 19
7 6

=A1-W703

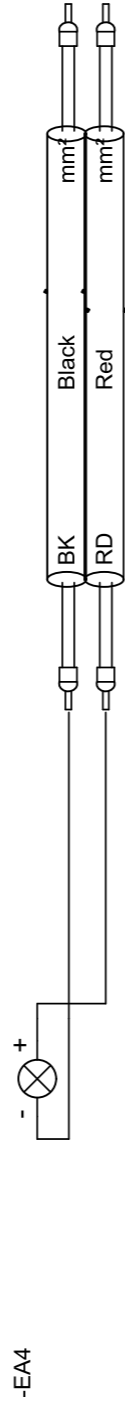
Remarque: Eclairage P20
Cable-type:



19 19
7 7

=A1-W704

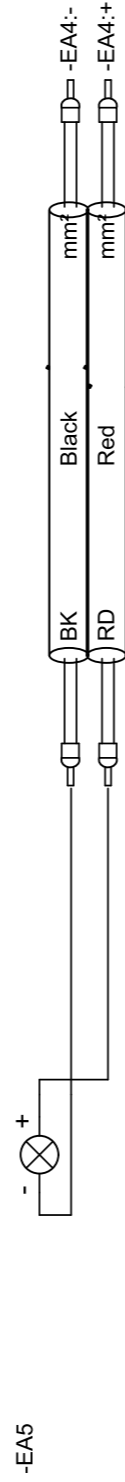
Remarque: Eclairage P21
Cable-type:



19 19
8 8

=A1-W705

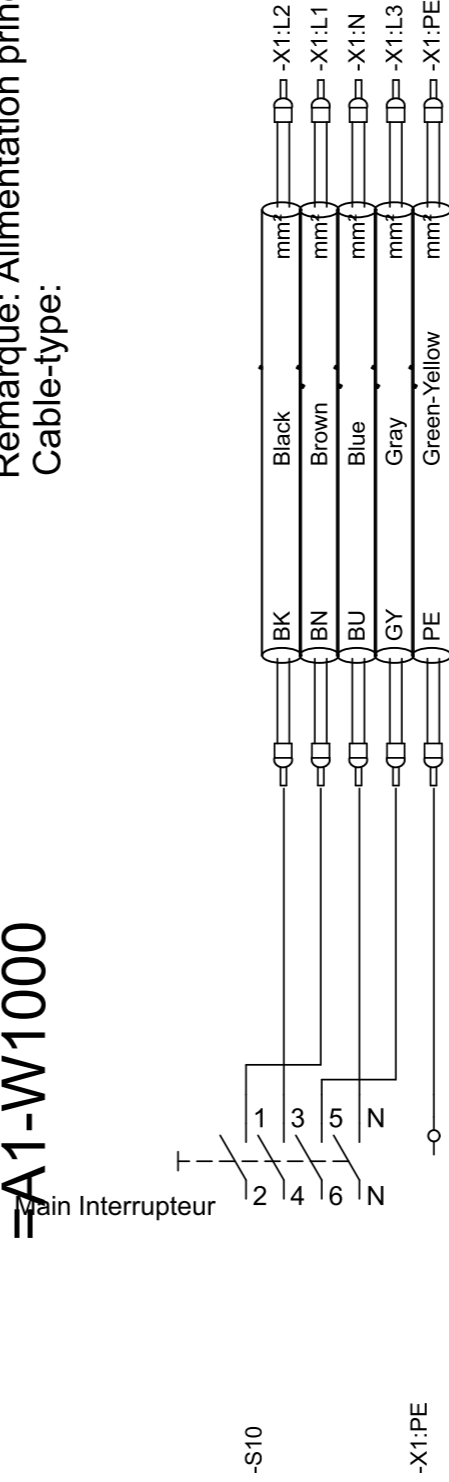
Remarque:
Cable-type:



19 19
9 9

=A1-W1000

Remarque: Alimentation principale
Cable-type:

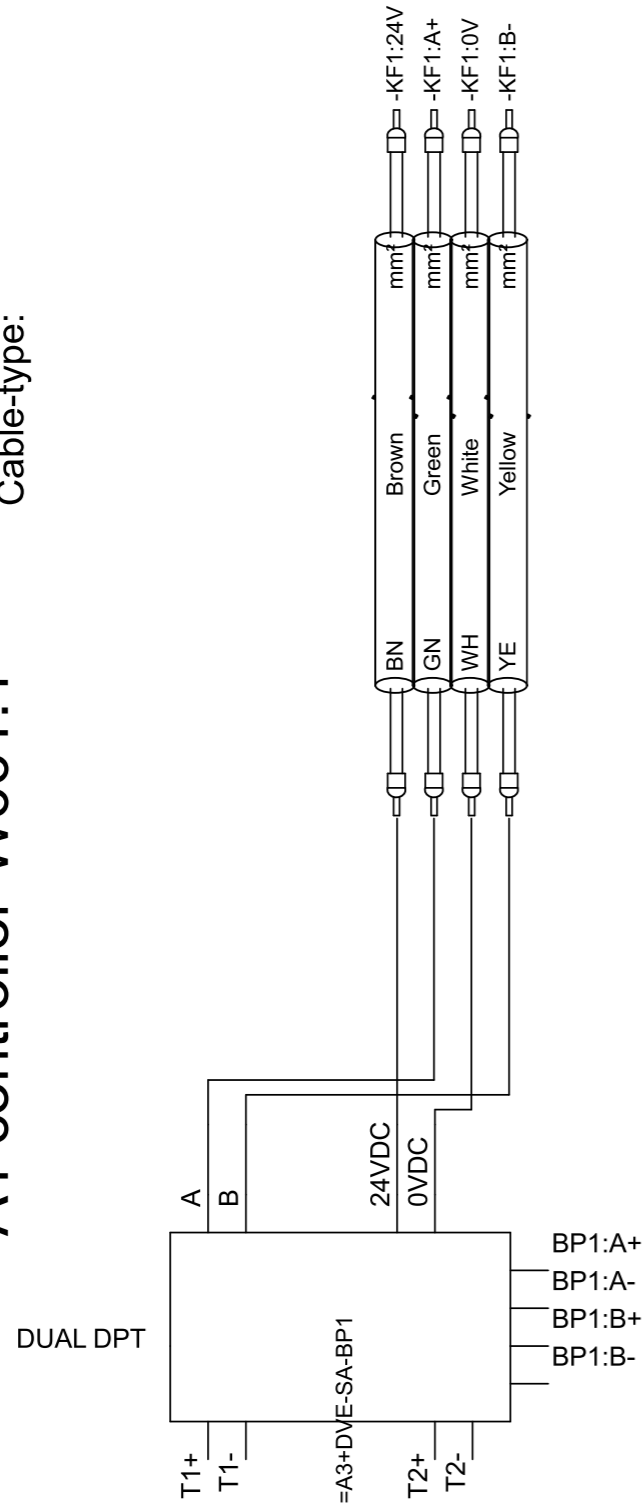


18 18 18 18 18
0 0 1 1 1

Principe du câblage

=A1 controller-W661.1

Remarque: Bus BP2
Cable-type:

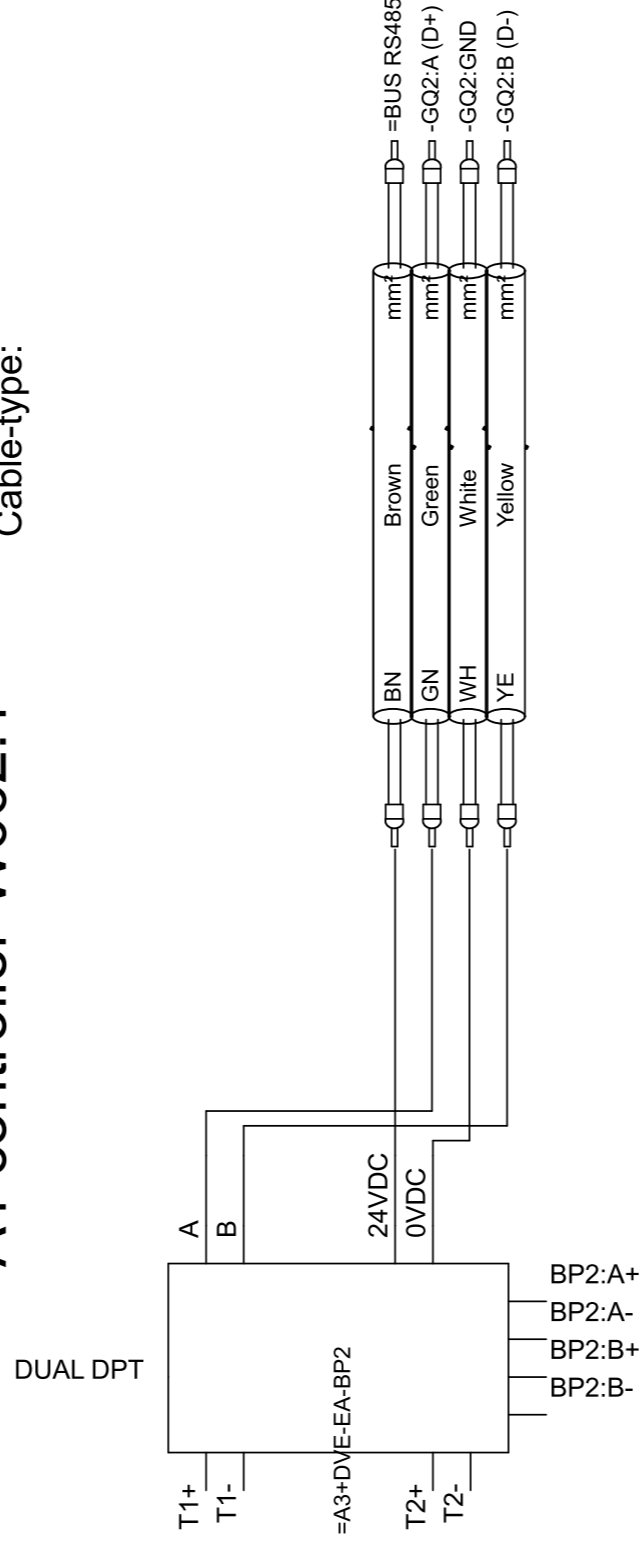


Page: 24
24
24
24

Voie 2
2
2
2

=A1 controller-W662.1

Remarque: Bus BP2
Cable-type:

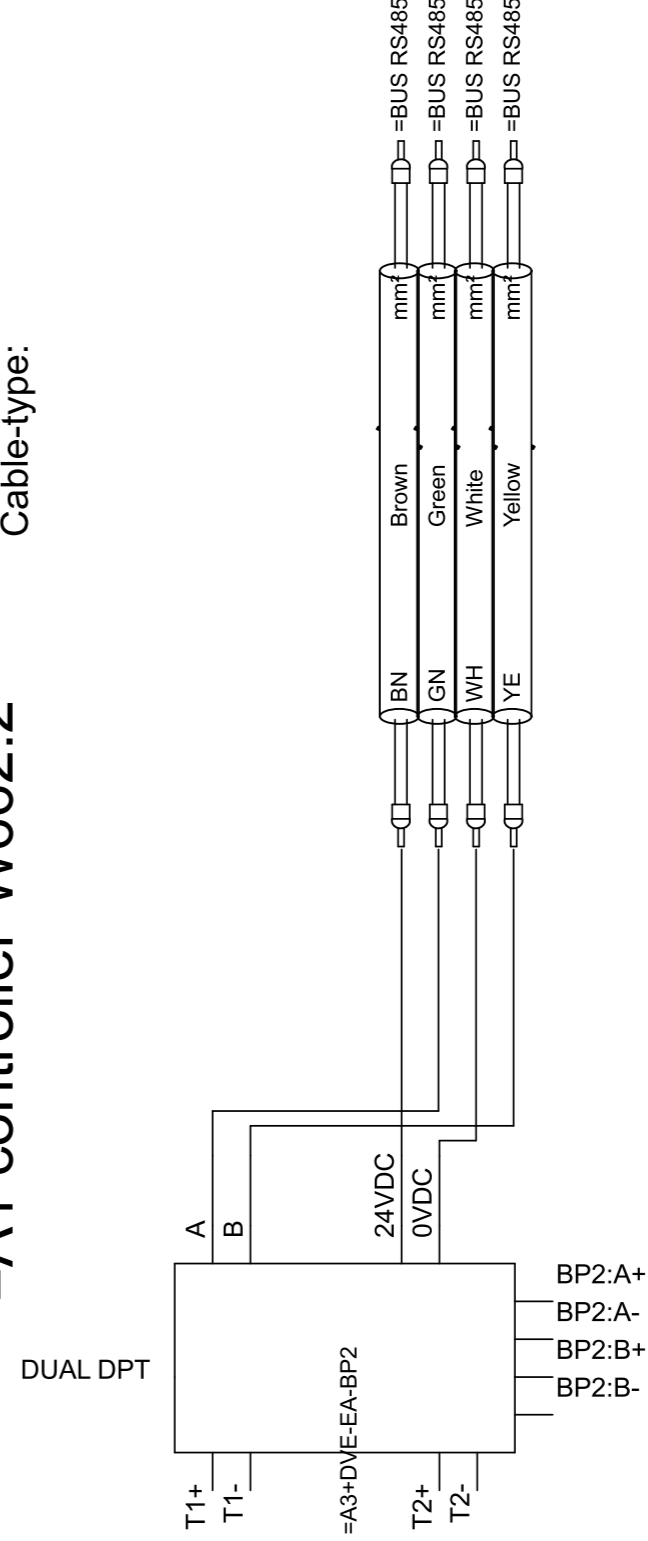


Page: 25
25
25

Voie 2
2
2
2

=A1 controller-W662.2

Remarque: Bus BP2
Cable-type:



Page: 2
2
2
2

Voie 2
2
2
2

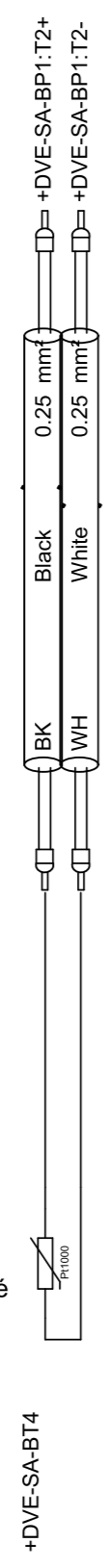
Principe du câblage

| | | | | | | | | | | | | | |
|-------|----|----|----|----|----|----|----|----|----|----|----|----|----|
| Voie | 2 | 2 | 2 | 1 | 2 | 2 | 2 | 3 | 5 | 5 | 6 | | |
| Page: | 24 | 24 | 25 | 25 | 24 | 24 | 21 | 21 | 21 | 21 | 20 | 20 | 20 |

Remarque: Sonde d'efficacité
Cable-type: 2x0,25mm²

=A3-W343

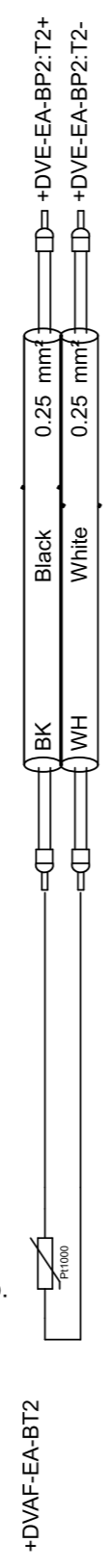
Température d'efficacité



Remarque: Exhaust Temp./de-ice
Cable-type: 2x0,25mm²

=A3-W442

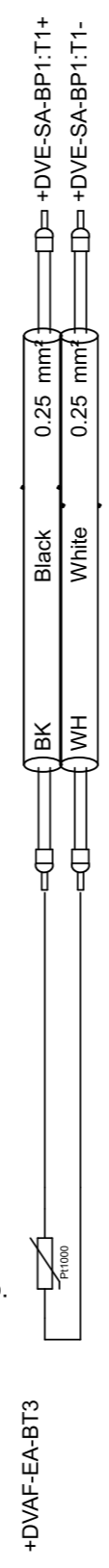
Exhaust Temp.



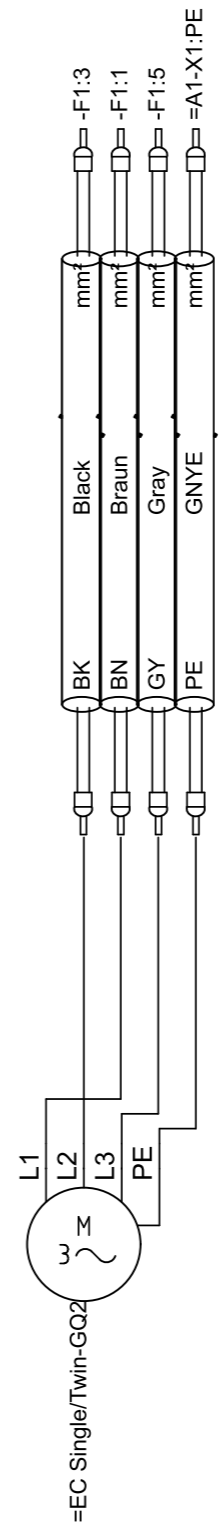
Remarque: Extraction Temp.
Cable-type: 2x0,25mm²

=A3-W444

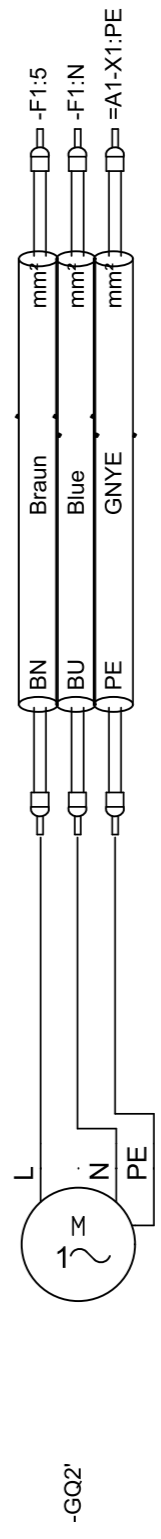
Extraction Temp.



=EC single+Extract air-W102
Remarque: Moteur air extrait
Cable-type:



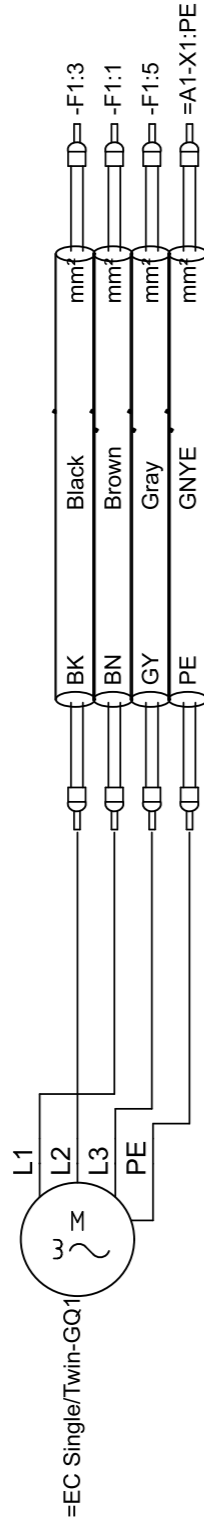
=EC single+Extract air-W102
Remarque: Moteur air extrait
Cable-type:



Principe du câblage

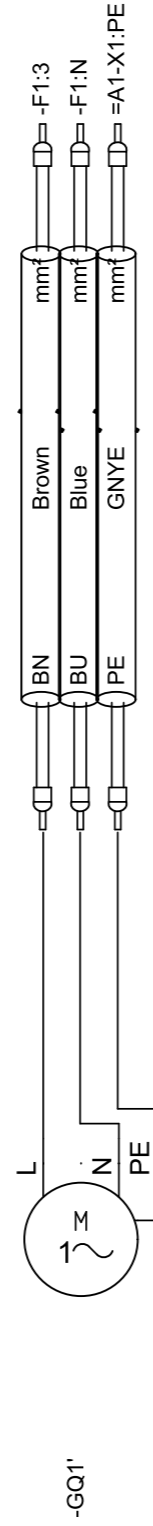
Page: Voie

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



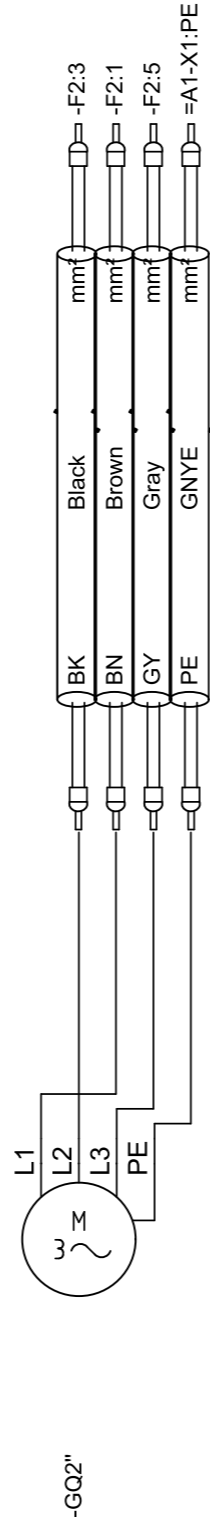
21
21
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21

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



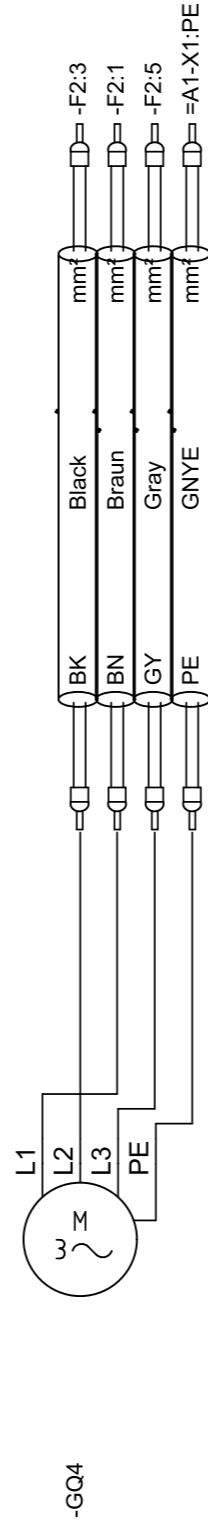
20
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20

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



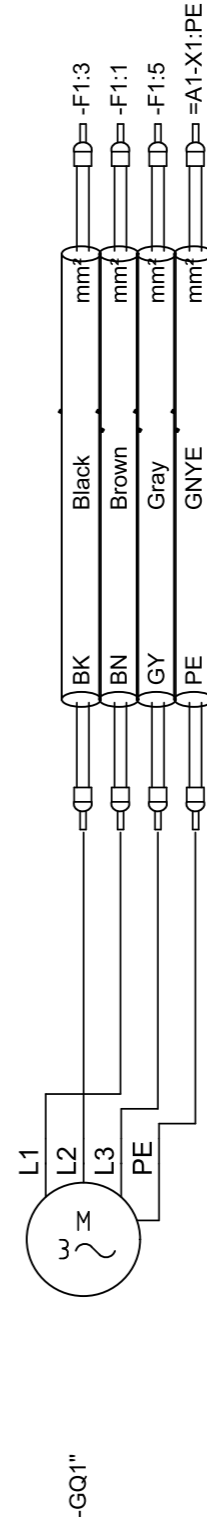
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21

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



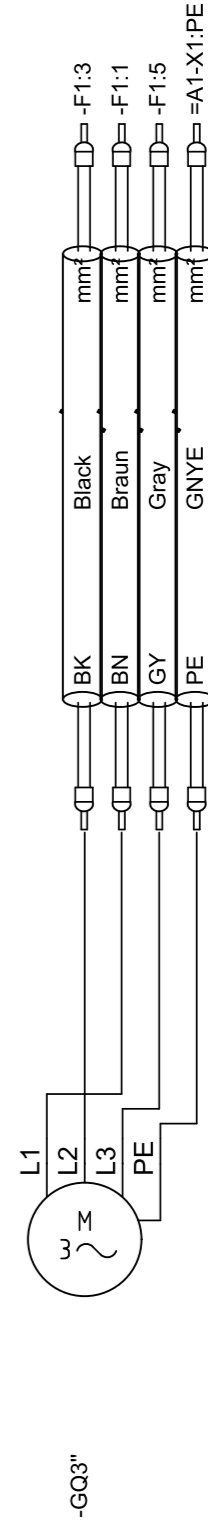
21
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=EC Twin+Supply air-W101 Remarque: Moteur air soufflé
Cable-type:



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



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