

# BSP control panel (double row) - V-type

drawing number: SMXC287



alfa.luvegroup.com

## BOARD RATED VALUE

VOLTAGE DC	---
VOLTAGE AC	400 Vac $\pm$ 10%
FREQUENCY	50 - 60 Hz
POWER MAX	0.5-60 KW
SHORT CIRCUIT CURRENT (Icc)	10 KA
IP DEGREE WITH CLOSED DOORS	IP54
IP DEGREE WITH OPENED DOORS	IP20

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02	New brand	18/12/2019	PCIA	User	ITALPCIA
01	Changed labels and added layout	07/07/2017	PCIA	Proved	D. Rizzotti
Status	change	date	name		



HEADING PAGE

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Sh. 21

REVISION		
N°	Date	Description
0	20/11/2015	Emission
1	07/07/2017	Changed labels and added layout
2	18/12/2019	New brand

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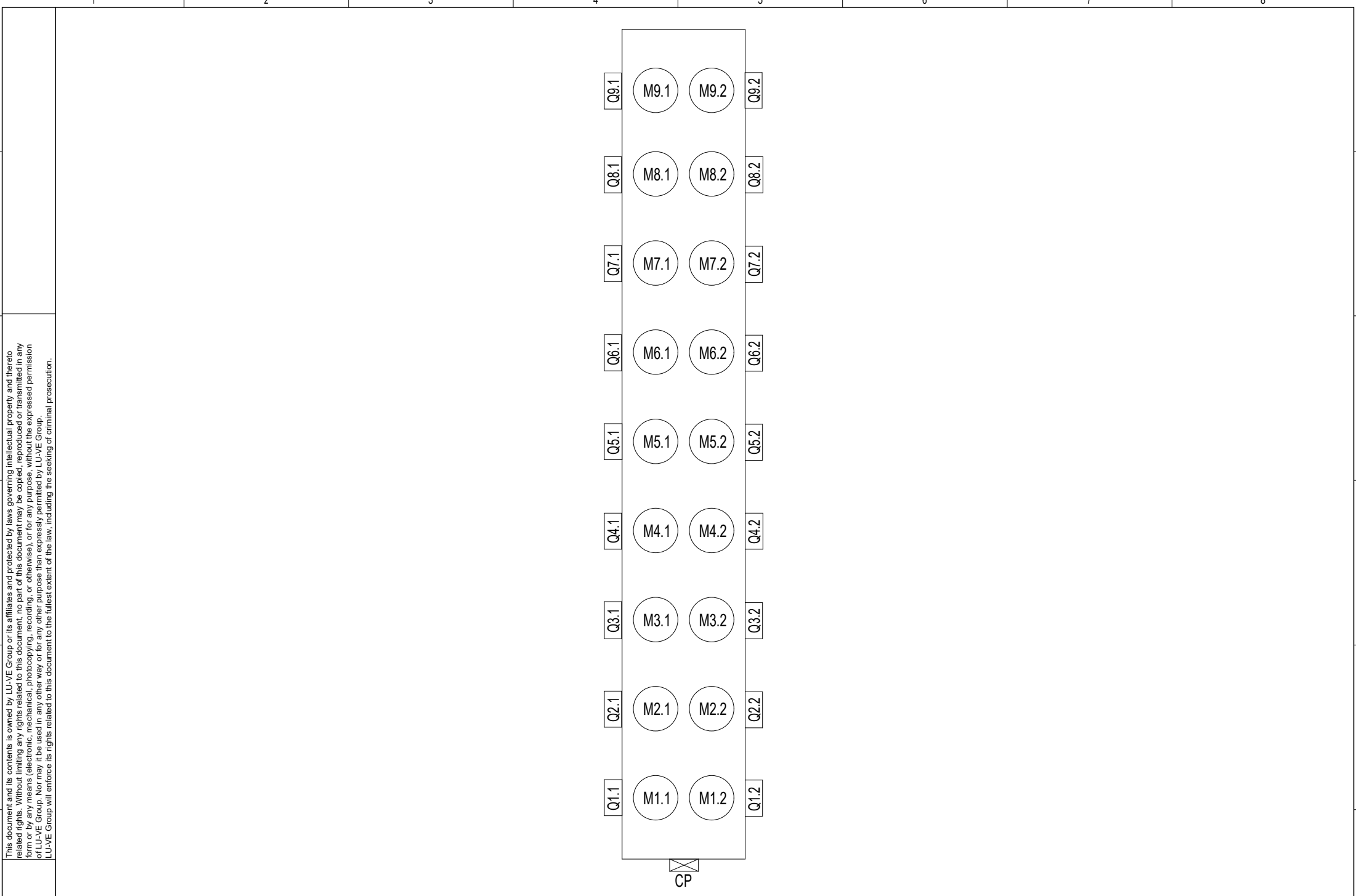
02-02-01 CORRENTE CONTINUA 02-02-03 DIRECT CURRENT		02-13-25 	COMANDO DI PROTEZIONE TERMICA THERMAL PROTECTION CONTROL	03-03-05 	CONNETTORE COMPLETO PLUG AND SOCKET	05-06-02 	DISPOSITIVO FOTOCONDUTTIVO DEL FOTODIODO CON CONDUCEBILITÀ ASIMMETRICA PHOTODIODE PHOTO-CONDUCTIVE DEVICE WITH ASYMMETRICAL CONDUCTIVITY
02-12-04 CORRENTE ALTERNATA ALTERNATE CURRENT		02-13-26 	COMANDO MOTORE ELETTRICO ELECTRIC MOTOR CONTROL	03-03-17 	PIASTRINA DI CONNESSIONE CHIUSA CONNECTING LINK, CLOSED	06-09-02 	TRASFORMATORE DI TENSIONE VOLTAGE TRANSFORMER
02-08-01 TERMICA THERMAL EFFECT		02-13-27 	COMANDO TIMER ELECTRIC CLOCK CONTROL	03-03-19 	PIASTRINA DI CONNESSIONE APERTA CONNECTING LINK, OPEN	06-09-11 	TRASFORMATORE DI CORRENTE CURRENT TRANSFORMER
02-08-02 MAGNETICA ELECTROMAGNETIC EFFECT		02-15-01 	TERRA EARTHING	04-01-01 	RESISTENZA RESISTOR	06-10-01 06-10-02 	TRASFORMATORE DI MONOFASE CON DUE BOBINE E SCHERMI SINGLE PHASE TRANSFORMER WITH TWO WINDINGS AND SCREEN
02-12-01 CONNESSIONE MECCANICA PNEUMATICA O IDRAULICA MECHANICAL, PNEUMATIC OR HYDRAULIC CONNECTION		02-17-06 	CONVERTITORE CONVERTER	04-01-01 	RESISTENZA VARIABILE (POTENZIOMETRO) VARIABLE RESISTOR	06-10-03 06-10-04 	TRASFORMATORE CON IL CENTRO DELLE BOBINE IN COMUNE TRANSFORMER WITH CENTER TAPPING ON ONE WINDINGS
02-12-05 MOVIMENTO IN RITARDO (NEL SENSO DEL MOVIMENTO DELL'ARCO AL RELATIVO CENTRO) 02-12-06 DELAYED MOVEMENT (IN SENSE OF ARC MOVEMENT TO ITS CENTER)		03-01-01 	CONDUTTORE CONDUCTOR	04-01-12 	SCALDIGLIA HEATER	06-15-01 	BATTERIA BATTERY OF PRIMARY OR SECONDARY CELLS
02-12-11 INTERBLOCCO MECCANICO TRA DUE DISPOSITIVI MECHANICAL INTERLOCK BETWEEN TWO DEVICES		03-01-02 	CONDUTTORE TRIFASE THREE CONDUCTORS	04-02-01 	CONDENSATORE CAPACITOR	07-02-01 	CONTATTO NORMALMENTE APERTO OPEN CONTACT
02-13-04 COMANDO SELETTORE ROTATIVE CONTROL		03-02-01 	NODO DI CONNESSIONE WIRES CONNECTION		DIVISORE CONDENSATORE CAPACITIVE DIVISOR	07-02-03 	CONTATTO NORMALMENTE CHIUSO CLOSED CONTACT
02-13-05 COMANDO PULSANTE PUSH-BUTTON CONTROL		03-02-02 	MORSETTO TERMINALS	04-03-01 	INDUCTOR COIL WINDING	07-02-04 	CONTATTO IN SCAMBIO CHANGEOVER CONTACT
02-13-08 COMANDO PULSANTE A FUNGO DI ARRESTO-EMERGENZA SAFETY OR EMERGENCY CONTROL WITH MUSHROOM PUSH-BUTTON		03-02-05 	CONNESSIONE A "T" T-CONNECTION	05-03-01 	DIODO DIODE	07-05-02 	IN RITARDO QUANDO IL DISPOSITIVO CHE CONTIENE IL CONTATTO STA ATTIVANDO (CONTATTI RITARDATI) MAKE CONTACT, DELAYED WHEN THE DEVICE CONTAINING THE CONTACT IS BEING ACTIVATED
02-13-10 COMANDO A PEDALE PEDAL CONTROL		03-03-01 	CONTATTO FEMMINA (PER CONNETTORE) FEMALE CONTACT (OF A SOCKET OR PLUG)	05-03-02 	DIODO LED LIGHT EMITTING DIODE	07-05-04 	CONTATTO DI ROTTURA, IN RITARDO QUANDO IL DISPOSITIVO CHE CONTIENE IL CONTATTO STA DISATTIVANDO BREAK CONTACT, DELAYED WHEN THE DEVICE CONTAINING THE CONTACT IS BEING DE-ACTIVATED
02-13-13 COMANDO A CHIAVE KEY CONTROL		03-03-03 	CONTATTO MASCHIO (PER CONNETTORE) MALE CONTACT (OF A SOCKET OR PLUG)	05-06-01 	DISPOSITIVO FOTOCONDUTTIVO DEL RESISTORE DIPENDENTE DALLA LUCE CON CONDUCEBILITÀ SIMMETRICA LIGHT DEPENDENT RESISTOR PHOTO-CONDUCTIVE DEVICE WITH SYMMETRICAL CONDUCTIVITY	07-07-01 	INTERRUTTORE MANUALE MANUALLY OPERATED SWITCH

02	New brand	18/12/2019	PCIA	User	ITALPCIA
01	Changed labels and added layout	07/07/2017	PCIA	Proved	D. Rizzotti
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## GRAPHICAL SYMBOL LIST

Document number: **SMXC287-02** Sheet 3 Sh. 21



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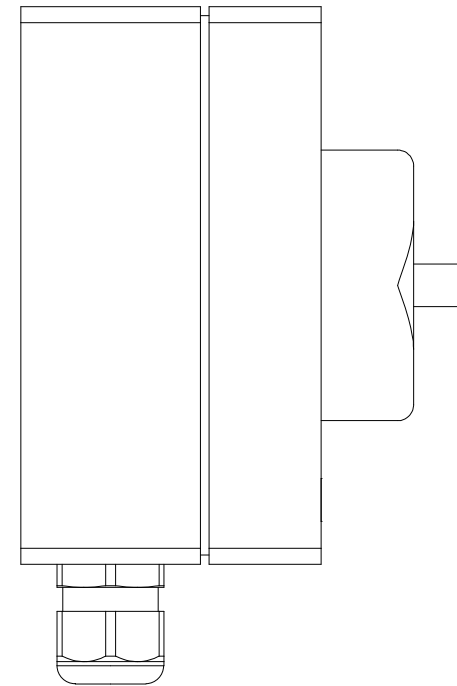
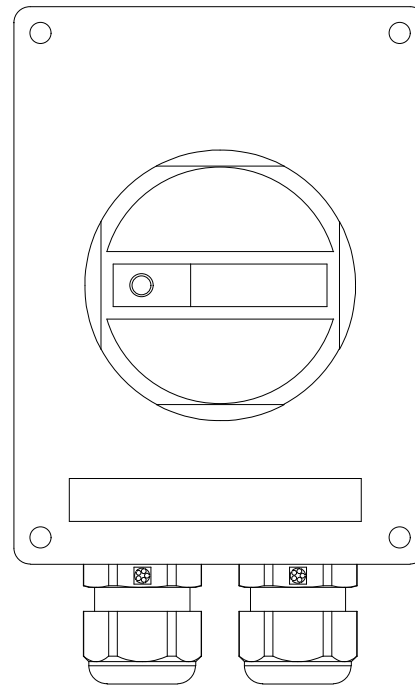
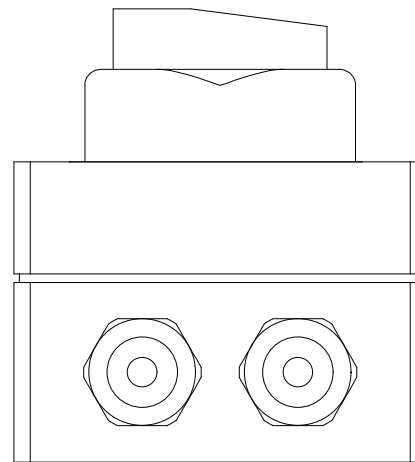
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Status	change	date	name		



ELECTRICAL LAYOUT

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Q1.1 - Q9.1  
Q1.2 - Q9.2



**Technical data**

Material: Polycarbonate  
 IP protection class: IP66  
 Color: Grey/black  
 Rated insulation voltage: 690V  
 Rated operational current: 16A  
 Ambient temperature: -40/+80°C

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Status	change	date	name			



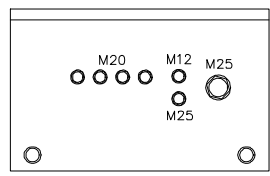
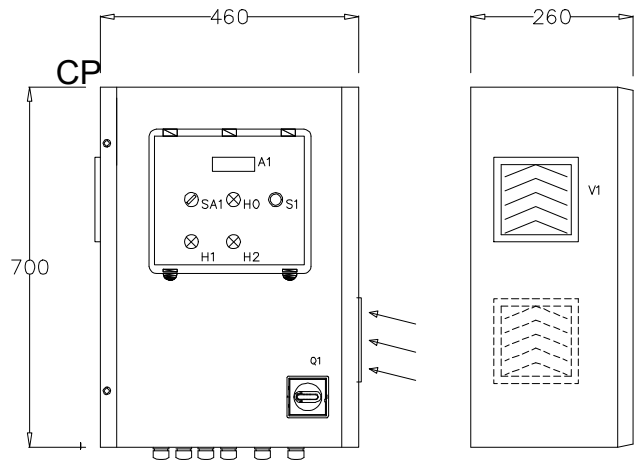
SWITCH LAYOUT

Document number: SMXC287-02 Sheet 5 Sh. 21

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A  
 B  
 C  
 D  
 E  
 F

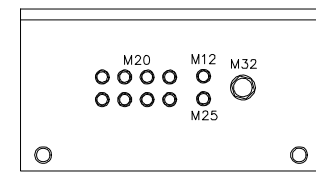
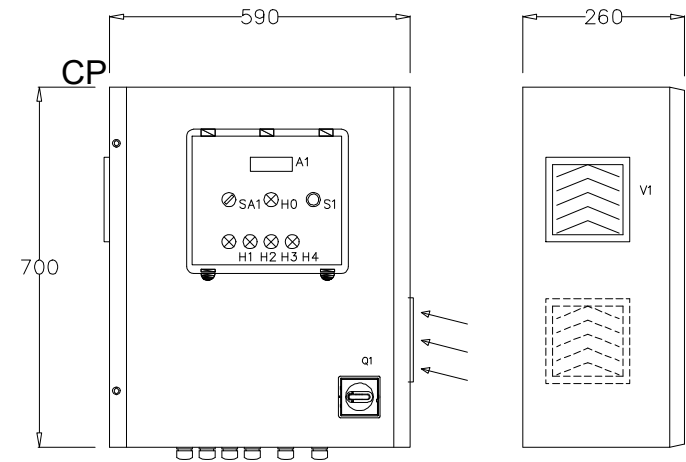
1  
 2  
 3  
 4  
 5  
 6  
 7  
 8



Plastic Box Dimension (HxBxP): 700x460x260

Color: RAL9002  
 External IP degree: IP54  
 Internal IP degree: IP20  
 Temperature range: -15°+ +35°c (standard)  
 -25°+ +45°c (version "F")  
 Umidity range: <95% (non condensation)

- LEGEND LIST:**
- Q1 = Main switch
  - V1 = Ventilator
  - H0 = Power on light
  - H1 = Fan motor 1 running
  - H2 = Fan motor 2 running
  - A1 = Step controller
  - S1 = reset PB
  - SA1 = MAN/AUT selector



Plastic Box Dimension (HxBxP): 700x590x260

Color: RAL9002  
 External IP degree: IP54  
 Internal IP degree: IP20  
 Temperature range: -15°+ +35°c (standard)  
 -25°+ +45°c (version "F")  
 Umidity range: <95% (non condensation)

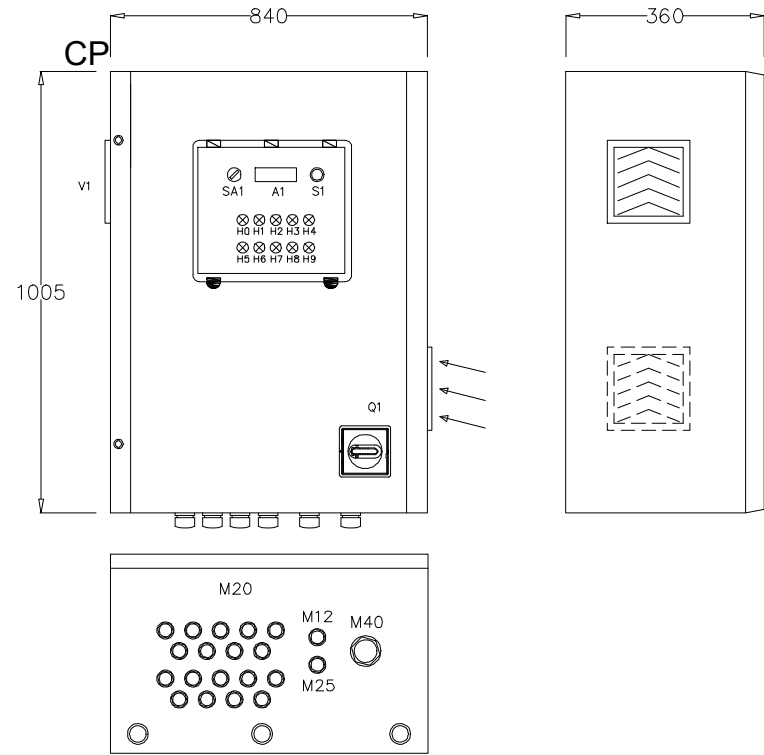
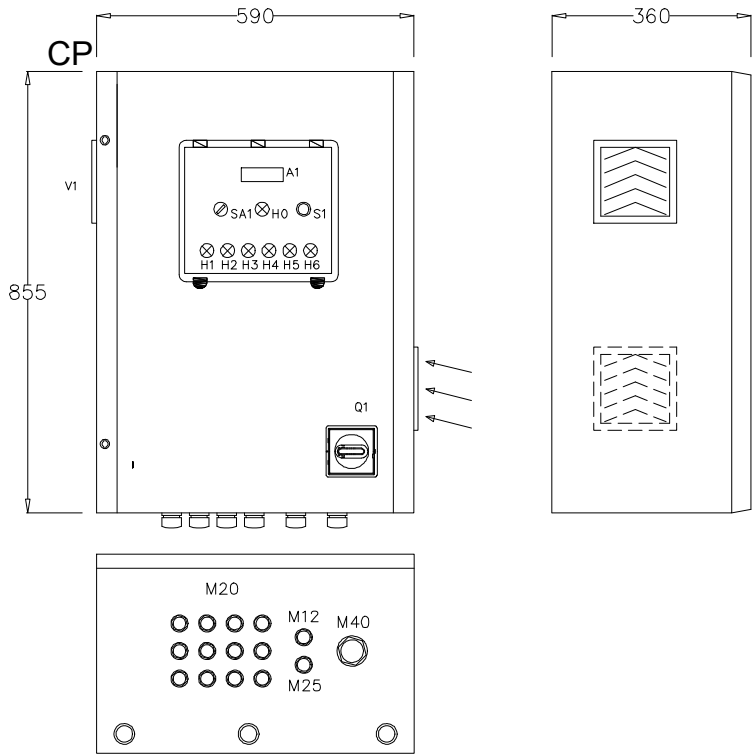
- LEGEND LIST:**
- Q1 = Main switch
  - V1 = Ventilator
  - H0 = Power on light
  - H1 = Fan motor 1 running
  - H2 = Fan motor 2 running
  - H3 = Fan motor 3 running
  - H4 = Fan motor 4 running
  - A1 = Step controller
  - S1 = reset PB
  - SA1 = MAN/AUT selector

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**CONTROL PANEL**

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**Plastic Box**  
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 Color: RAL9002  
 External IP degree: IP54  
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 Color: RAL9002  
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 Temperature range: -15°+ +35°c (standard)  
 -25°+ +45°c (version "F")  
 Umidity range: <95% (non condensation)

**LEGEND LIST:**  
 Q1 = Main switch  
 V1 = Ventilator  
 H0 = Power on light  
 H1 = Fan motor 1 running  
 H2 = Fan motor 2 running  
 H3 = Fan motor 3 running  
 H4 = Fan motor 4 running  
 H5 = Fan motor 5 running  
 H6 = Fan motor 6 running  
 A1 = Step controller  
 S1 = reset PB  
 SA1 = MAN/AUT selector

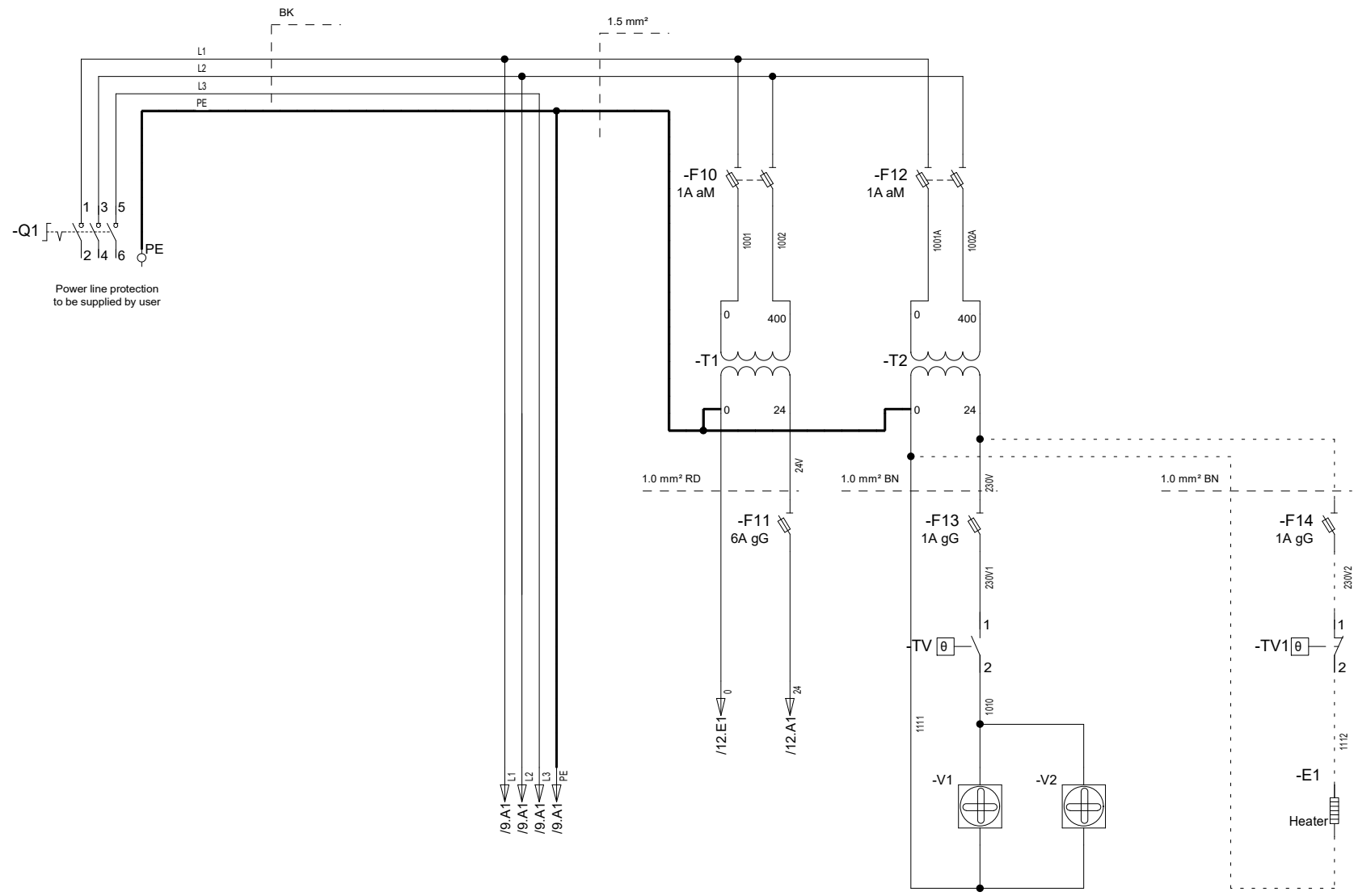
**LEGEND LIST:**  
 Q1 = Main switch  
 V1 = Ventilator  
 H0 = Power on light  
 H1 = Fan motor 1 running  
 H2 = Fan motor 2 running  
 H3 = Fan motor 3 running  
 H4 = Fan motor 4 running  
 H5 = Fan motor 5 running  
 H6 = Fan motor 6 running  
 H7 = Fan motor 7 running  
 H8 = Fan motor 8 running  
 H9 = Fan motor 9 running  
 A1 = Step controller  
 S1 = reset PB  
 SA1 = MAN/AUT selector

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Version ALFA_V						
n° Fans' feeding line	Box	T1	f11	Q1	K1:K8	PE
1 ÷ 2 (max 9A for line)	tg.3	100VA	4Agg	40A	9A	6mmq
1 ÷ 2 (range 9:16A for line)	tg.3	100VA	4Agg	40A	16A	6mmq
3 ÷ 4 (max 9A for line)	tg.4	100VA	4Agg	63A	9A	10mmq
3 ÷ 4 (range 9:16A for line)	tg.4	100VA	4Agg	63A	16A	10mmq
5 ÷ 6 (max 9A for line)	tg.5	160VA	6Agg	125A	9A	35mmq
5 ÷ 6 (range 9:16A for line)	tg.5	160VA	6Agg	125A	16A	35mmq
7 ÷ 8 (max 9A for line)	tg.6	160VA	6Agg	125A	9A	35mmq
7 ÷ 8 (range 9:16A for line)	tg.6	160VA	6Agg	125A	16A	35mmq
9 (max 9A for line)	tg.6	160VA	6Agg	160A	9A	35mmq
9 (range 9:16A for line)	tg.6	160VA	6Agg	160A	16A	35mmq

COOLING FAN  
if necessary

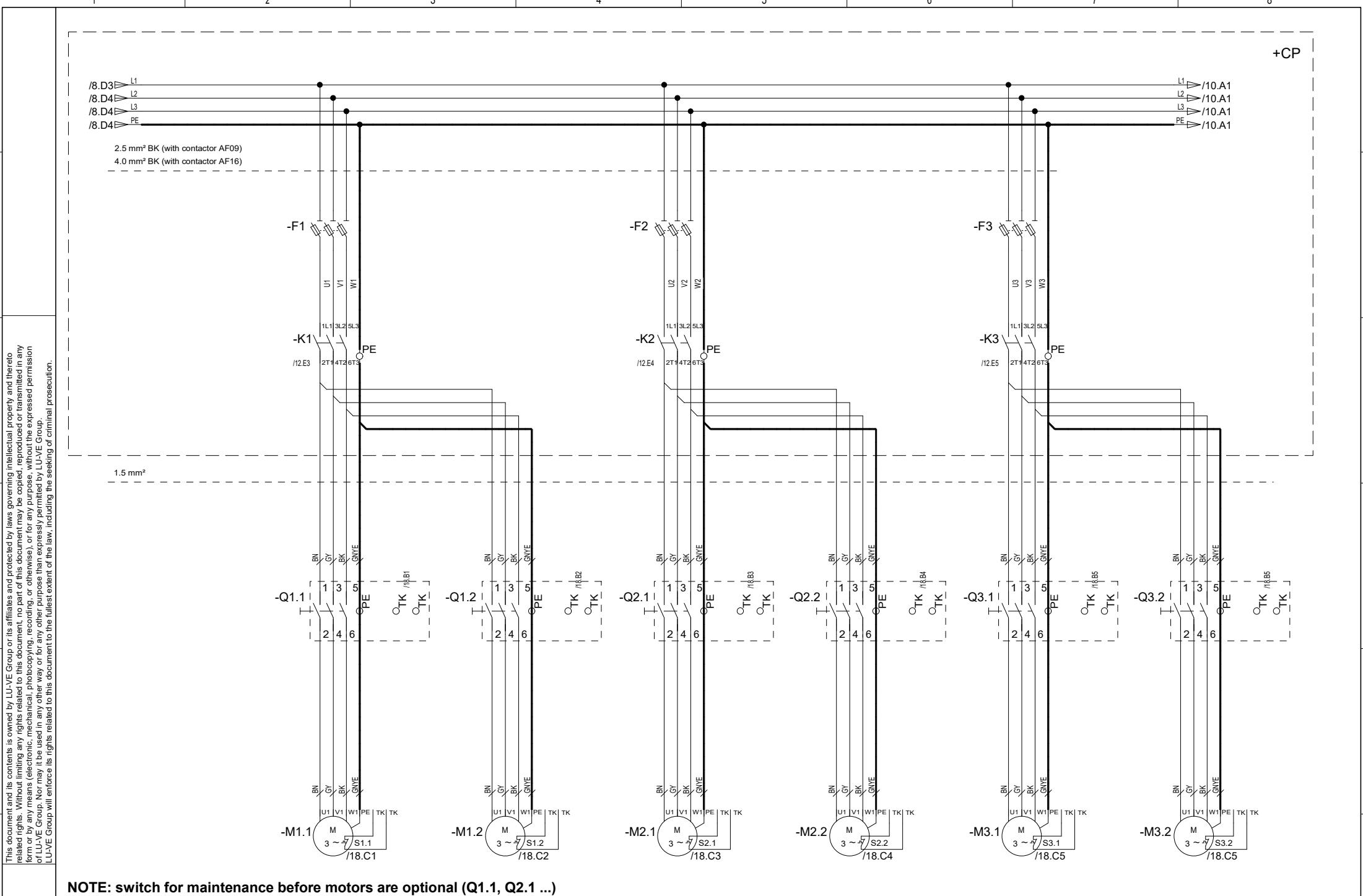
HEATER  
(optional)

date	18/12/2019
02 New brand	18/12/2019 PCIA User ITALPCIA
01 Changed labels and added layout	07/07/2017 PCIA Proved D. Rizzotti
Status change	date name



CONTROL PANEL POWER SUPPLY





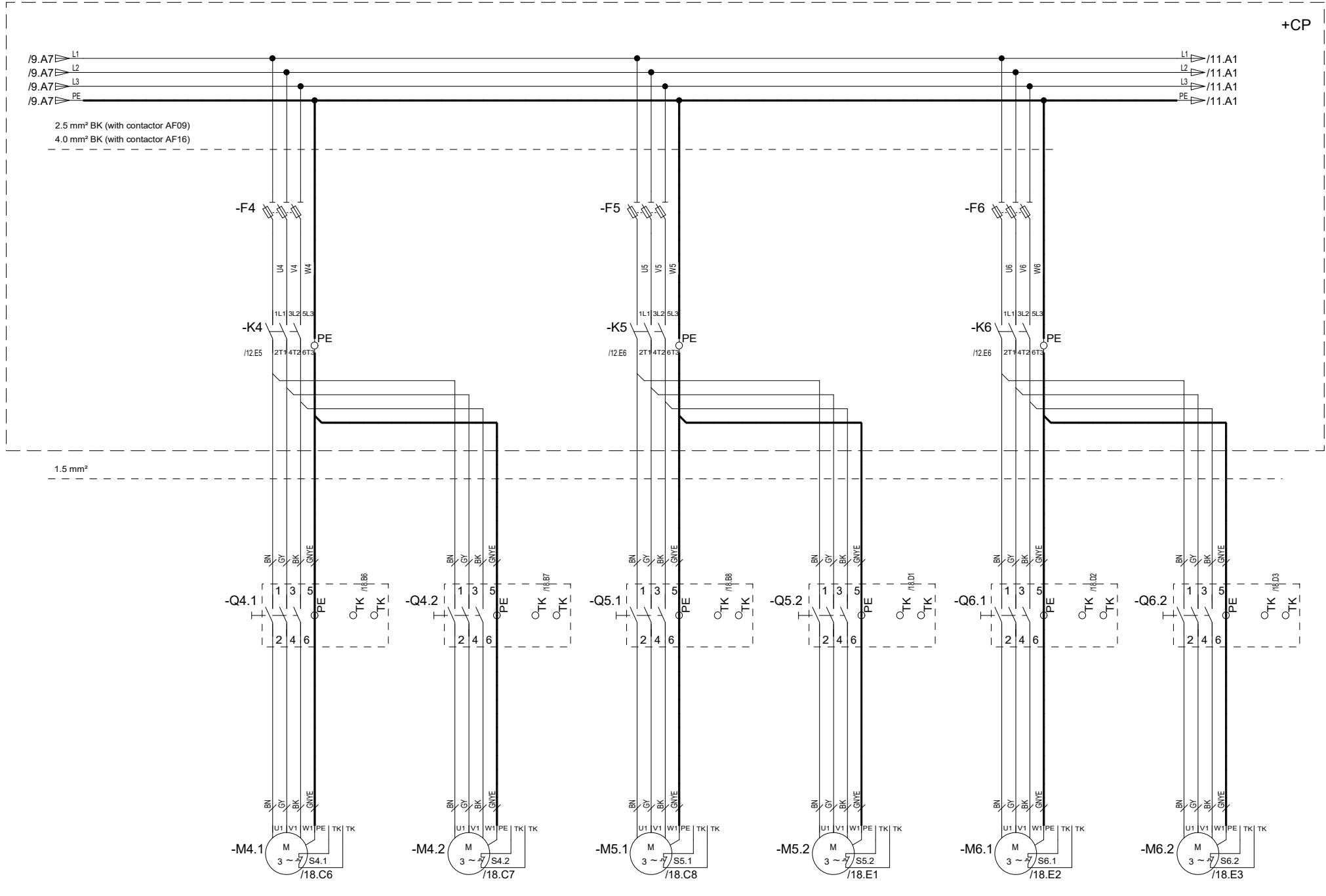
**NOTE: switch for maintenance before motors are optional (Q1.1, Q2.1 ...)**

Q2	New brand	18/12/2019	PCIA	User	ITALPCIA
Q1	Changed labels and added layout	07/07/2017	PCIA	Proved	D. Rizzotti
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**FAN CONNECTION**

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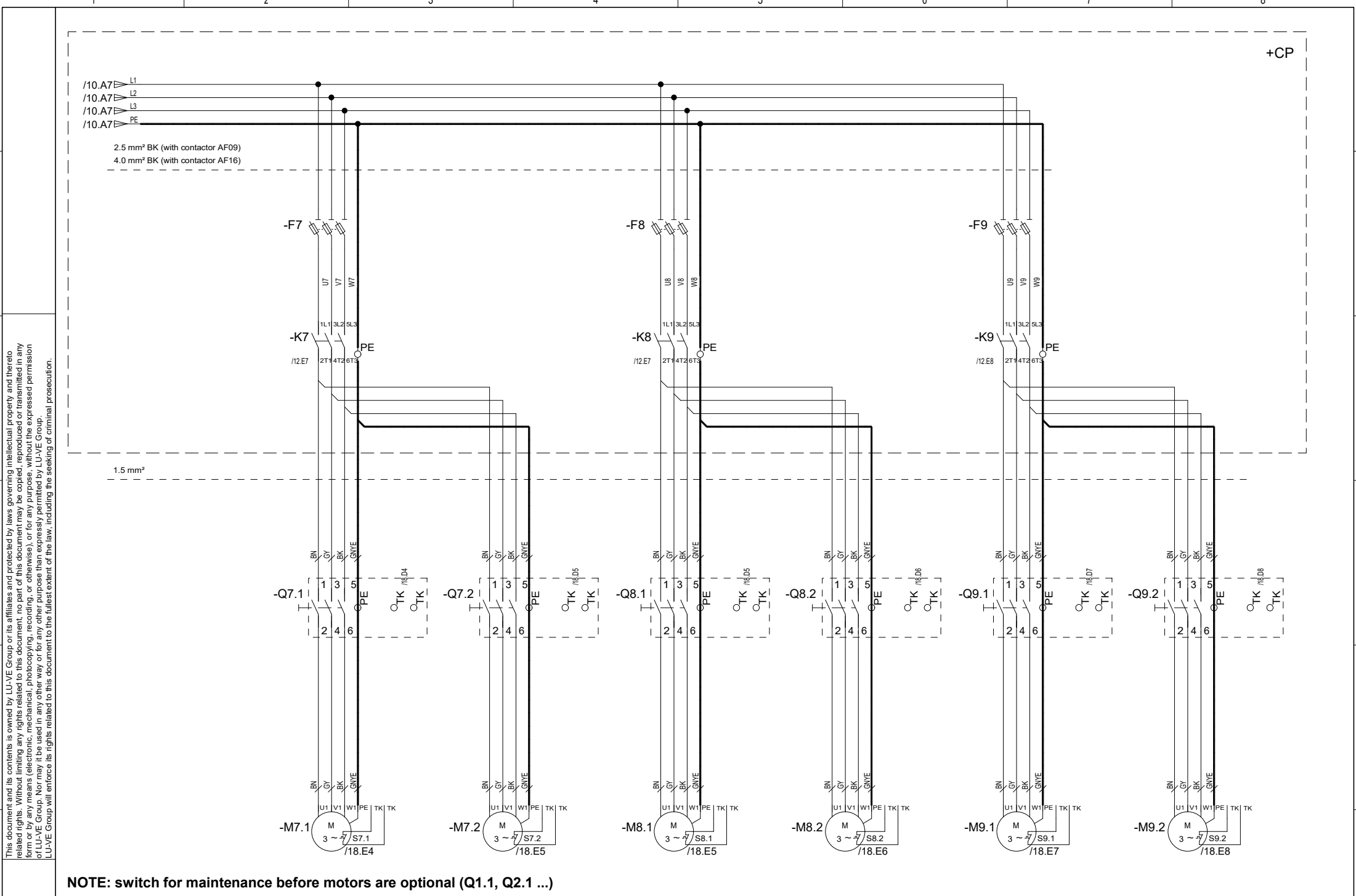


**NOTE: switch for maintenance before motors are optional (Q1.1, Q2.1 ...)**

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01	Changed labels and added layout	07/07/2017	PCIA	Proved	D. Rizzotti
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FAN CONNECTION



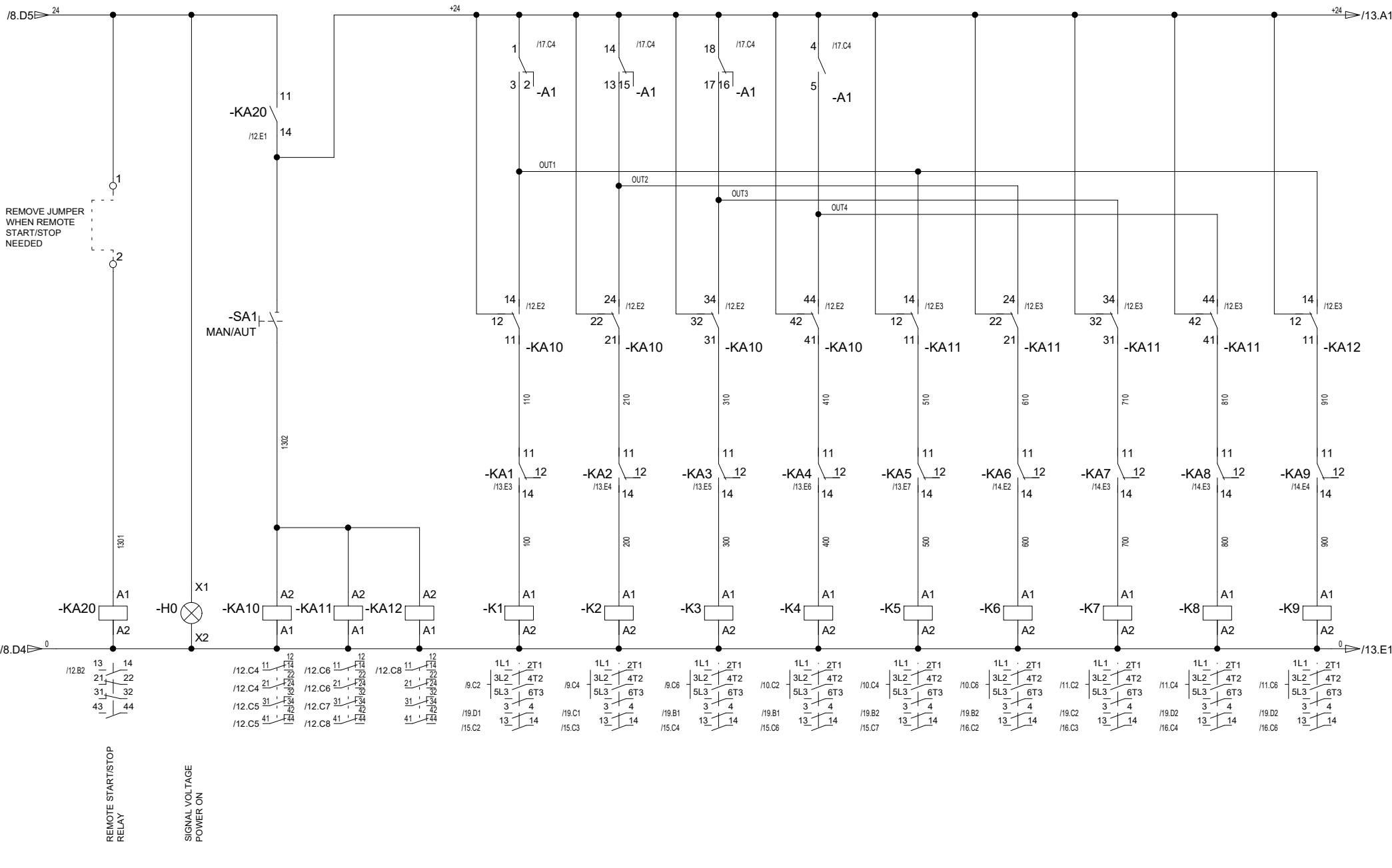
**NOTE: switch for maintenance before motors are optional (Q1.1, Q2.1 ...)**

Q2	New brand	18/12/2019	PCIA	User	ITALPCIA
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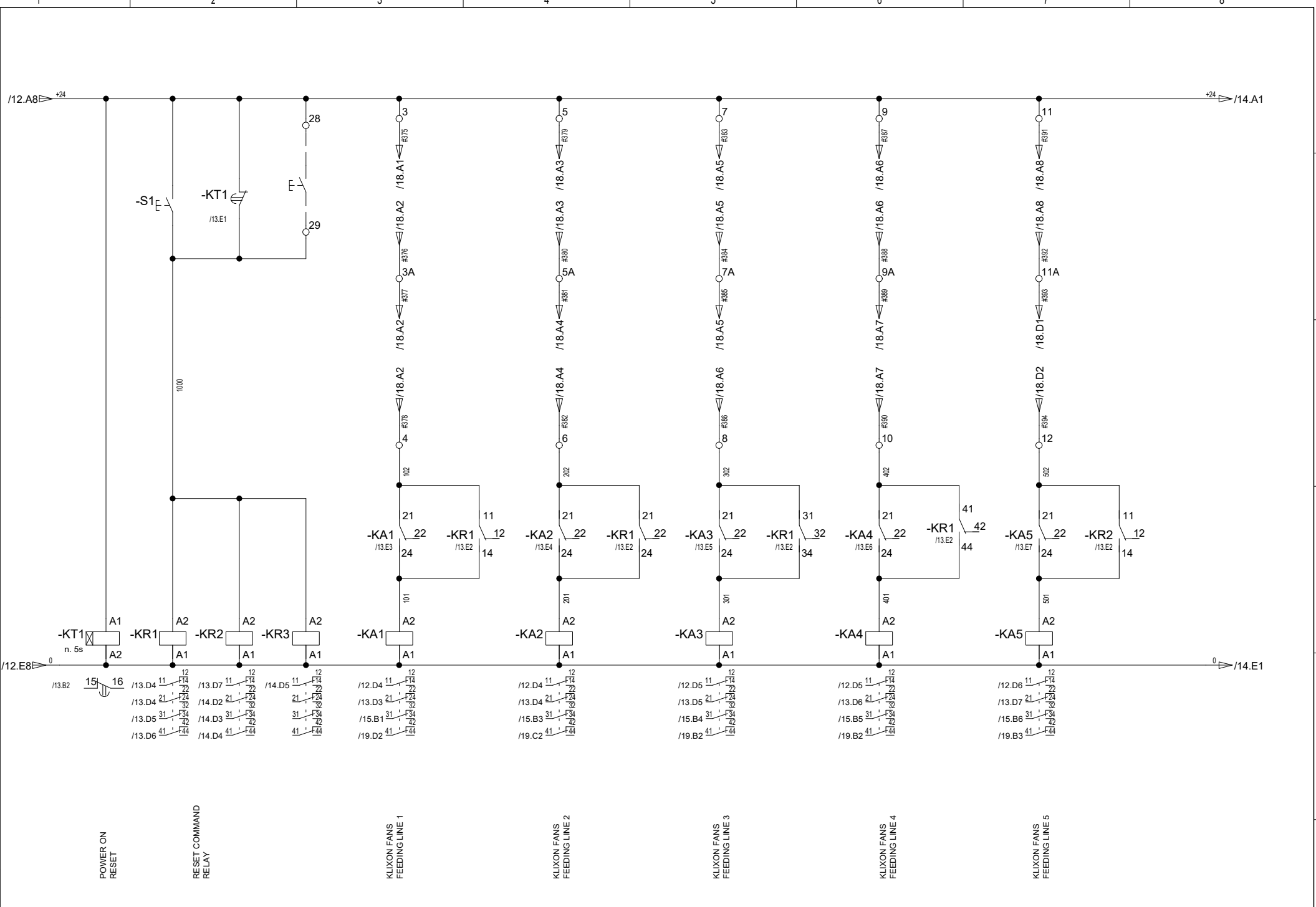


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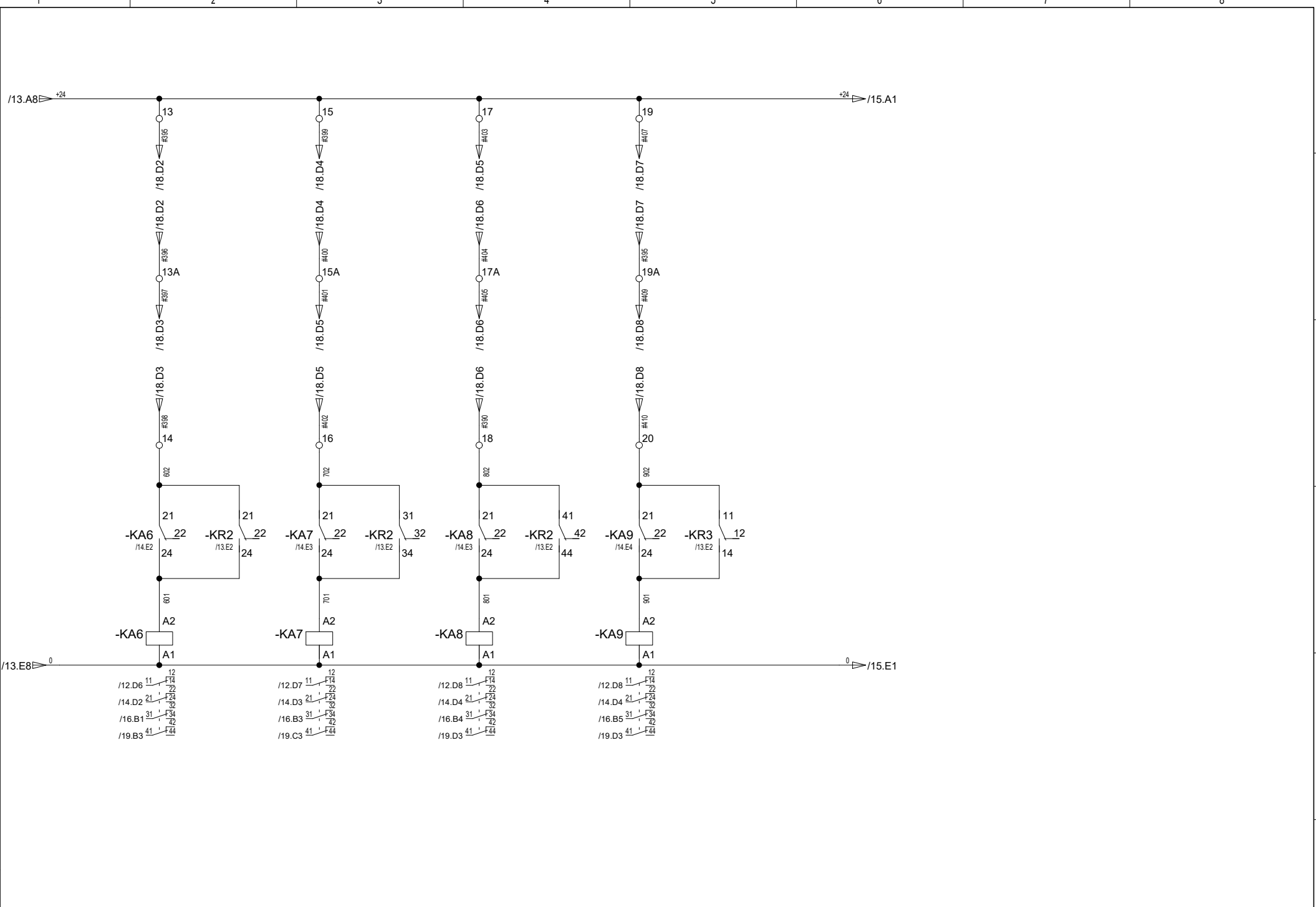


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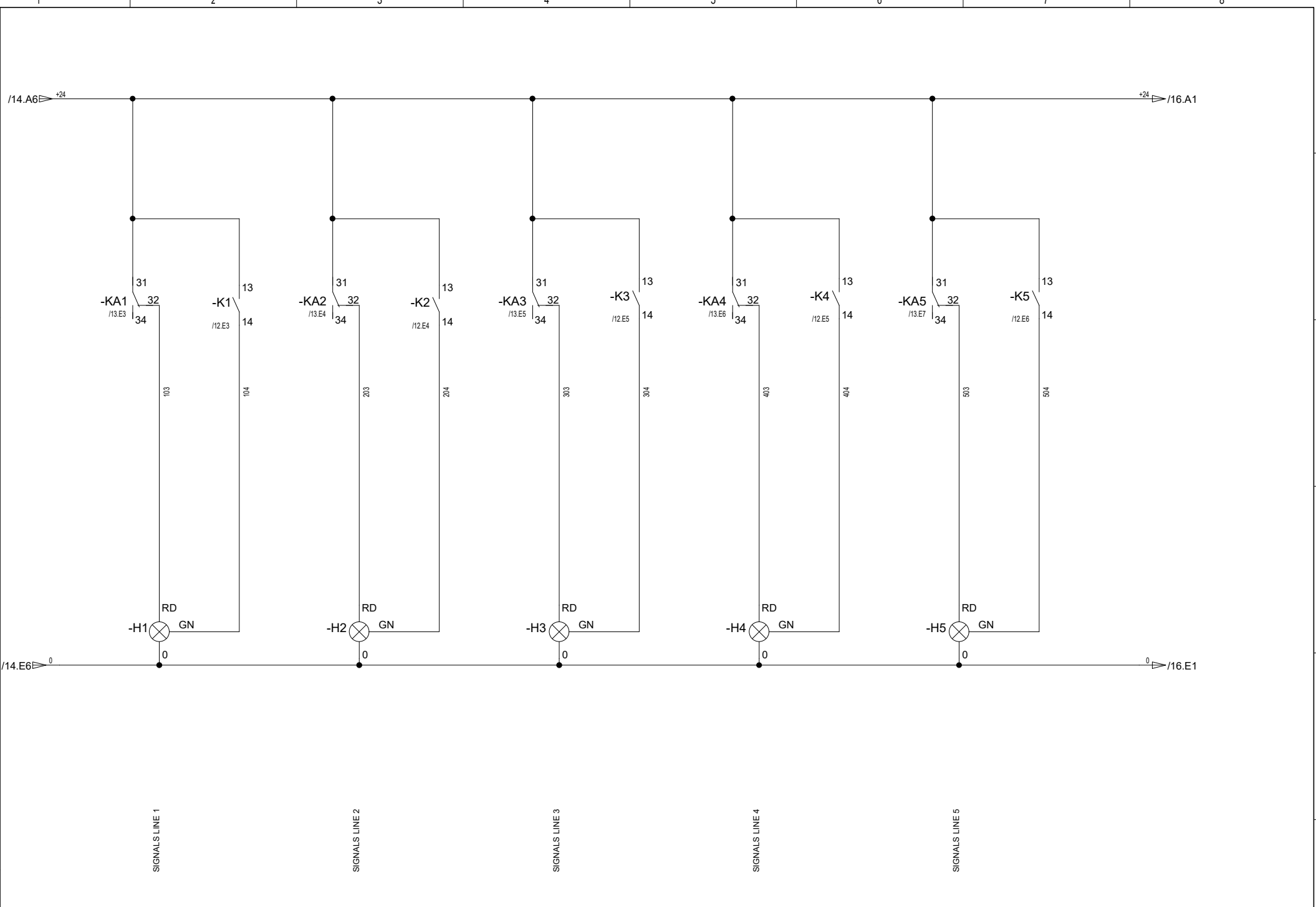


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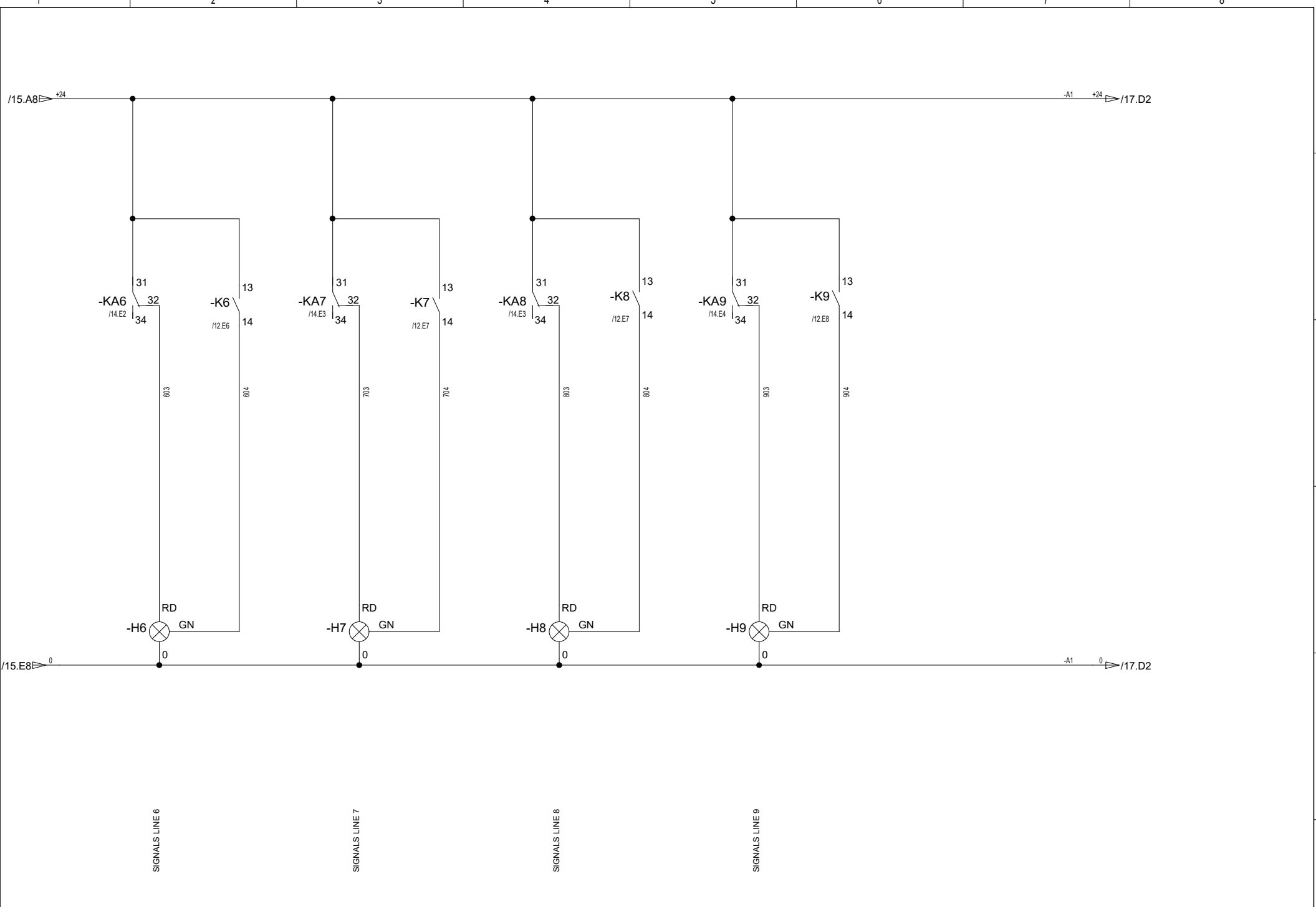


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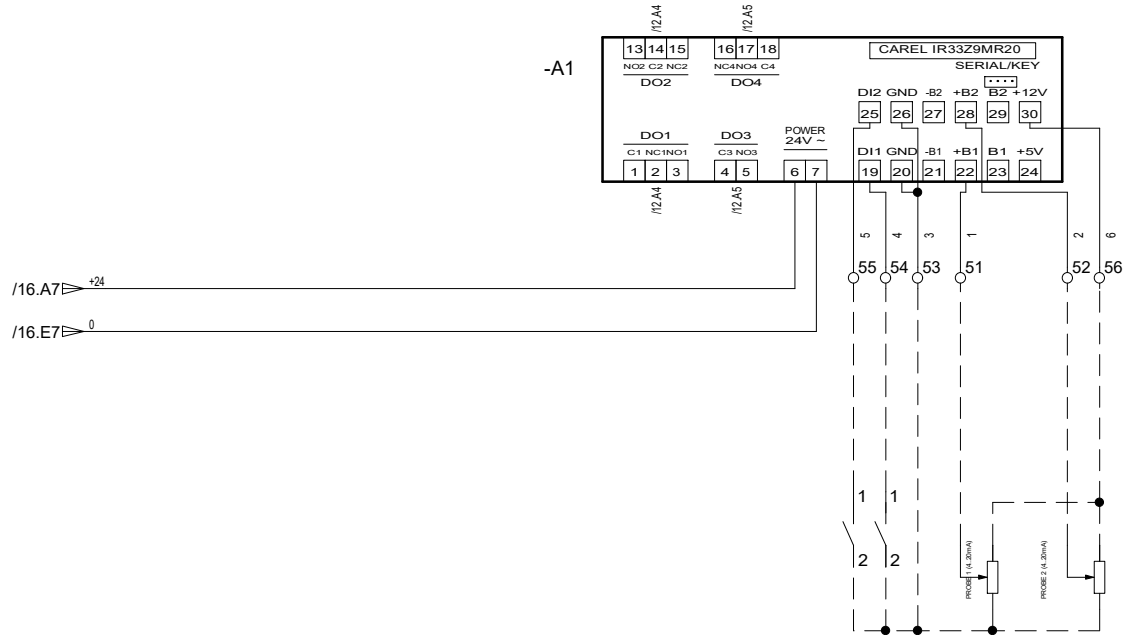
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NOTE: THE PROBES 4..20mA (3 wires) CONNECTION IS INDICATED ON THE DIAGRAM

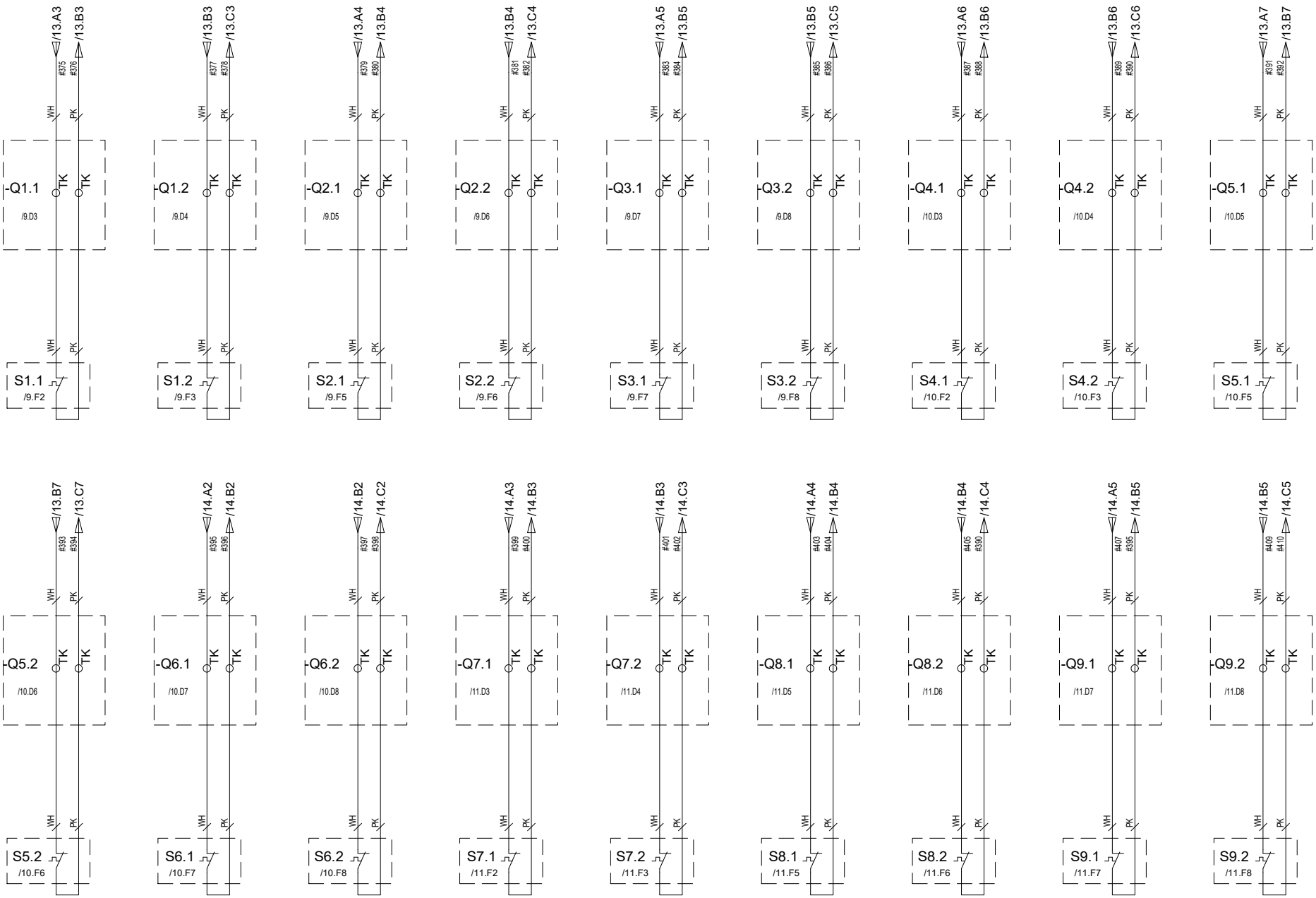
- PROBE TYPE for IR33B9:
- NTC (-50/+110°C)
  - NTC HT (-10/+150°C)
  - PTC (-50/+110°C)
  - PT1000 (-199/+800°C)
  - PT100 (-199/+800°C)
  - TCJ/TCK (-100/+800°C)
  - 0..1V (range -199..800)
  - -0.5..1.3V (range -199..800)
  - 0..10V (range -199..800)
  - 0..5V (range -199..800)
  - 0..20mA (range -199..800)
  - 4..20mA (range -199..800)

02	New brand	18/12/2019	PCIA	User	ITALPCIA
01	Changed labels and added layout	07/07/2017	PCIA	Proved	D. Rizzotti
Status	change	date	name		



STEP CONTROL

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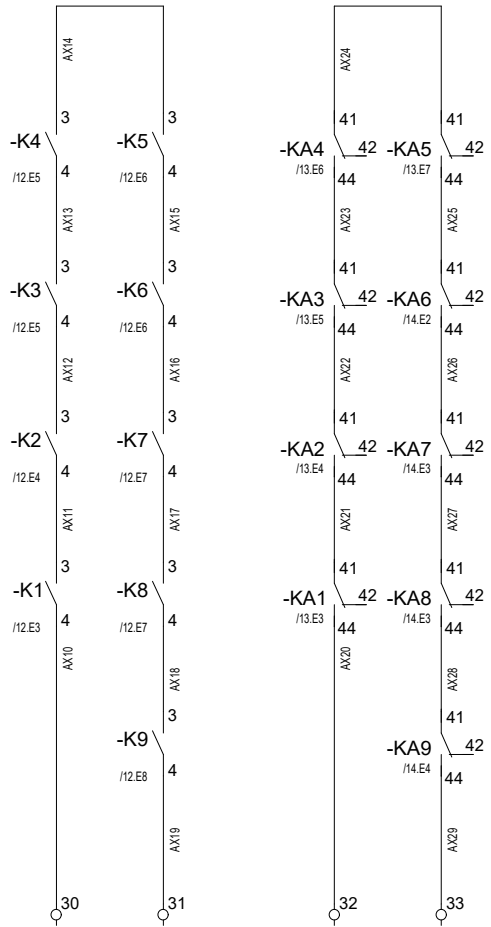
**NOTE: switch for maintenance before motors are optional (Q1.1, Q2.1 ...)**

02	New brand	18/12/2019	PCIA	User	18/12/2019	ITALPCIA
01	Changed labels and added layout	07/07/2017	PCIA	Proved	D. Rizzotti	
Status	change	date	name			



UNIT AUXILIARY

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ALL FANS RUNNING  
FREE CONTACT

FANS FAULT  
FREE CONTACT

02	New brand	18/12/2019	PCIA	User	18/12/2019	ITALPCIA
01	Changed labels and added layout	07/07/2017	PCIA	Proved	D. Rizzotti	
Status	change	date	name			



FREE CONTACTS

ELECTRIC MOTOR NOMINAL CURRENT (A)	FUSE SIZE
0,25 ÷ 0,50	CH10 2A gG
0,51 ÷ 0,90	CH10 1A am
0,91 ÷ 1,80	CH10 2A am
1,81 ÷ 3,60	CH10 4A am
3,61 ÷ 5,40	CH10 6A am
5,41 ÷ 7,20	CH10 8A am
7,21 ÷ 9,00	CH10 10A am
9,01 ÷ 10,80	CH10 12A am
10,81 ÷ 14,40	CH10 16A am
14,41 ÷ 18,00	CH10 20A am

**NOTE FOR FUSE SIZE:**  
max current for fuse size = current - 10% (temperature derating)

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02	New brand	18/12/2019	PCIA	User	ITALPCIA
01	Changed labels and added layout	07/07/2017	PCIA	Proved	D. Rizzotti
Status	change	date	name		

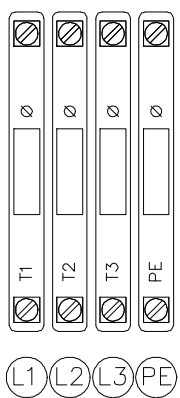


MOTOR PROTECTION SIZE

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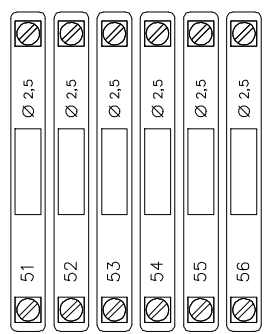
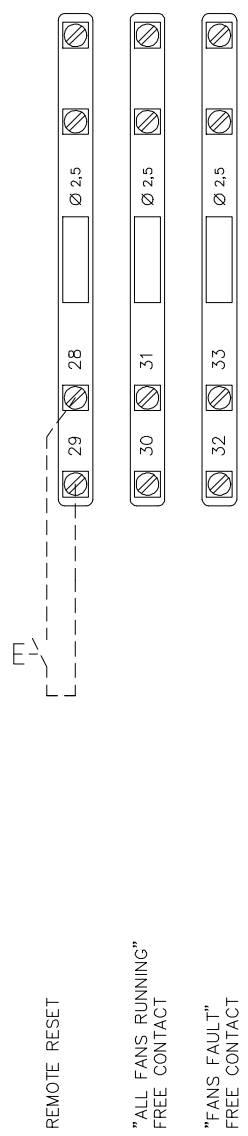
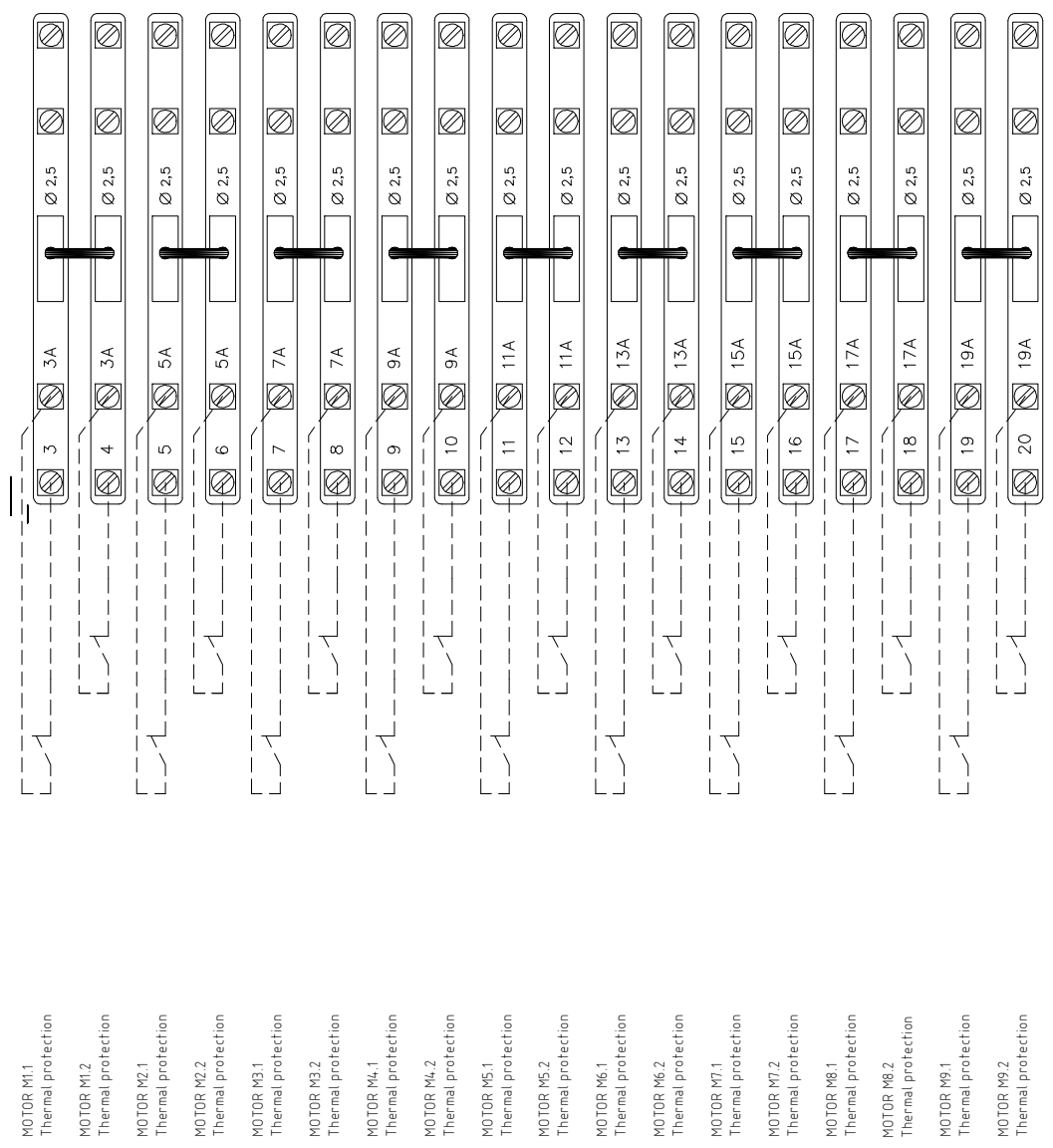
Sh. 21

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SWITCH Q1  
POWER  
SUPPLY

REMOTE START/STOP  
(remove jumper when you need)



PROBE CONNECTION  
FOR  
STEP CONTROLLER

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CONNECTION LINK

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