

PLANT

NOME QUADRO

DESCRIPTION

DESCRIZIONE

COSTUMER

CLIENTE

JOB

COMMESSA

DESING

DISEGNATORE

DRAWING No.

DISEGNO No.

EXAMPLE DRAWINGS

MAINBOARD

CEM 81

CEM.0000.00

CEM 81

CEM_0000_00_REVx_x.DWG

	INTERNAL EQUIPMENT LIST	
Item	Description	Sheets

NOMINAL VOLTAGE

TENSIONE NOMINALE

AUXILIARY VOLTAGE

TENSIONE AUSILIARY

FREQUENCY

FREQUENZA

NOMINAL CURRENT

CORRENTE NOMINALE

NOMINAL POWER

POTENZA NOMINALE

PROTECTION DEGREE

GRADO DI PROTEZIONE

400Vac

110Vac

50/60Hz

6A

2,5kW

IP54



DRAWINGS CHECKS AND APPROVALS					
0.0	PRELIMINARE	10/01/2012	CEM 81	CEM 81	CEM 81
Rev.	Revision	Date	Draw	Check	Appr.

	1	2	3	4	5	6	7	8	9	10	11	12	13	14
A	DRAWING LIST													
B	N° SHEET		TITLE											
	0	COVER												
	5	REVISION LIST												
	6	ELECTRICAL FEATURES												
	7	DATI ELETTRICI												
	8	DATI ELETTRICI												
	10	AUTOMATION LAYOUT												
	15	EXTERNAL LAYOUT												
	16	INTERNAL LAYOUT												
	20	CONTROL DESK												
C	21	CONTROL DESK												
	60	ARRIVO LINEA												
	100	CIRCUITI DI POTENZA MOTORE 1												
	105	POWER CIRCUITS												
	200	POWER CIRCUITS												
	201	POWER CIRCUITS												
	202	POWER CIRCUITS												
	220	POWER CIRCUITS												
	221	POWER CIRCUITS												
	250	COMMONS												
D	290	SAFETY CIRCUITS												
	295	SAFETY CIRCUITS												
	300	PLC LAYOUT												
	305	PLC												
	306	PLC												
	450	REMOTE PLC												
	451	REMOTE PLC												
	452	REMOTE PLC												
	453	REMOTE PLC												
	500	TERMINAL BOARD												
E	N° SHEET		TITLE											
	501	MORSETTIERA: XENC												
	550	CABLE												
	551	CABLE: =AF-W1												
	570	CONNECTOR: XAEC												
	571	CONNECTOR: XPEC												
	600	LISTA MATERIALE												
	601	LISTA MATERIALE												
F														

				 cooperativa elettromeccanica s.c.		TITLE: INDICE FOGLI		PROJECT: MODELLO PROGETTO		SHEET N°: 0A			
0.0	10/01/2012	CEM 81	PRELIMINARE										
REV.	DATE	SIGN.	MODIFY					DRW.: CEM 81		DATE: 10/01/2012			
								SECTION: MAINBOARD		JOB: CEM.0000.00		0◀▶5	

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A	<table><tr><td>REVISION</td><td>SHEET</td><td>OBJECT</td><td>DATE</td><td>CHECKED</td></tr><tr><td>0.0</td><td>ALL SHEETS</td><td>FIRST ISSUE</td><td>10/01/2012</td><td>GUBIANI I.</td></tr></table>														REVISION	SHEET	OBJECT	DATE	CHECKED	0.0	ALL SHEETS	FIRST ISSUE	10/01/2012	GUBIANI I.
REVISION	SHEET	OBJECT	DATE	CHECKED																				
0.0	ALL SHEETS	FIRST ISSUE	10/01/2012	GUBIANI I.																				
B																								
C																								
D																								
E																								
F																								
						TITLE: REVISION LIST					PROJECT: MODELLO PROGETTO	OPTION:	SHEET N°: 5											
						TITOLO:					SECTION: MAINBOARD	JOB: CEM.0000.00	0A◀▶6											
0.0	10/01/2012	CEM 81	PRELIMINARY																					
REV.	DATE	SIGN.	MODIFY			DRW.: CEM 81					DATE: 10/01/2012													

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ELECTRICAL DATA		
INCOMING LINE	400	V ±10%
FREQUENCY	50	Hz± 2%
AC MOTOR	400	Vac
AUXILIARIES AC MOTOR	-----	Vac
DC MOTOR	-----	Vac Vdc
AUXILIARIES DC MOTOR	-----	Vac Vdc
AC COMMAND CIRCUITS	-----	Vac
DC COMMAND CIRCUITS	24	Vdc
AC AUXILIARY CIRCUITS (SOCKETS - HEATERS)	-----	Vac
SOLENOID VALVES AND SENSOR	24	Vdc
UPS	220	Vac

REFERENCE STANDARD					
CEI-EN	☒	IEC	☒	CSA-UL	☐

DISTRIBUTION SYSTEM		
MAIN SUPPLY	SERVICES SUPPLY	
TN-C	☐	
TN-S	☐	
TT	☐	
IT	☒	
	TN-S	☒
	TT	☐
	IT	☐

GENERAL NOTES	
BEFORE INSTALLING OR OPERATING THIS EQUIPMENT, THE DOCUMENTATION MUST BE UNDERSTOOD BY THE QUALIFED ELECTRICAL MAINTENANCE PERSON WHO IS FAMILIAR WHIT THIS TYPE OF EQUIPMENT AND THE HAZARD INVOLVED. FAILLURE TO OBSERVE THIS PRECAUTION COULD RESULT IN BODY IN JURY.	

				 cooperativa elettromeccanica s.c.	TITLE: ELECTRICAL FEATURES					PROJECT: MODELLO PROGETTO		OPTION:		SHEET N°: 6	
					TITOLO:					SECTION: MAINBOARD		JOB: CEM.0000.00		5◀▶7	
0.0	10/01/2012	CEM 81	PRELIMINARY												
REV.	DATE	SIGN.	MODIFY		DRW.: CEM 81					DATE: 10/01/2012					

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CONTROL ROOMS CONDITIONS

MAX ROOM TEMPERATURE

+28°C

AVERAGE ROOM TEMPERATURE

+25°C

MINIMUM ROOM TEMPERATURE

+23°C

ENVIROMENTAL DATA

MAX RELATIVE HUMIDITY

90%

ALTITUDE ABOVE SEA LEVEL

<1000 m

CLIMATE

TEMPERATURE

MAX

+40°C

MIN.

+0°C

BOARD PAINTING AND SAFETY DEGREES

BOARD

INSIDE

RAL7035

IP20

OUTSIDE

RAL7035

IP31

INTERNAL PANEL

GALVANIZED

CONTROL DESK

RAL7035

INOX

IP32

LOCAL PANELS

RAL7035

IP55

WIRE COLOURS AND MINIMUM SECTIONS

WIRE TYPE

VOLTAGE

COLOUR

MIN. SECT.

AC POWER CIRCUITS

BLACK

2.5mmq

DC POWER CIRCUITS

BLACK

2.5mmq

AC AUXILIARY

>120VAC

RED

1.5mmq

DC AUXILIARY

>50VDC

BLUE

1.5mmq

I / O PLC

>50VDC

BLUE

0.7mmq

EXTERNAL AUXILIARY (WHEN THE SUPPLY IS UNKNOW OR AC)

ORANGE

1.5mmq

EXTERNAL AUXILIARY

>50VDC

ORANGE

1.5mmq

INTERCONNECTING (WHEN THE SUPPLY IS UNKNOW OR AC)

ORANGE

1.5mmq

INTERCONNECTING

>50VDC

ORANGE

1.5mmq

PE (EARTHING PROTECTION)

YELLOW GREEN

1.5mmq

UPS CIRCUITS

>50VDC

ORANGE

2.5mmq

SHUNT AND CURRENT TRASFORMER

BLACK

2.5mmq

INTERNAL CIRCUITS ALWAYS SUPPLIES

ORANGE
WHIT
DOUBLE
PROTECTION

1.5mmq

TE - EQS

BLACK

1.5mmq

0.0

10/01/2012

CEM 81

PRELIMINARE

REV.

DATE

SIGN.

MODIFY

cem81

cooperativa elettromeccanica s.c.

DRW.:

CEM 81

DATE:

10/01/2012

TITLE:

DATI ELETTRICI

PROJECT:

MODELLO PROGETTO

SECTION:

MAINBOARD

JOB:

CEM.0000.00

SHEET N°:

7

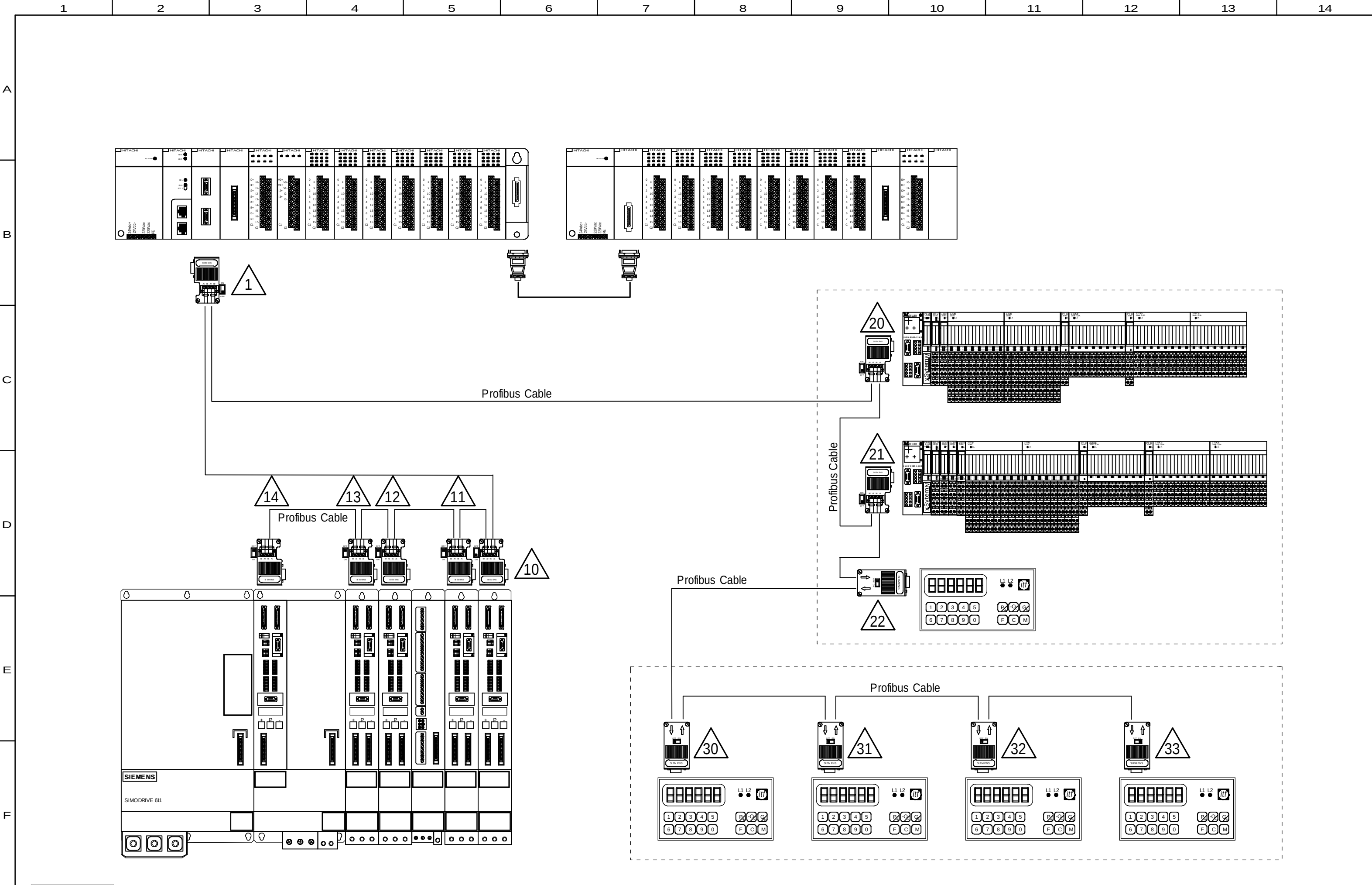
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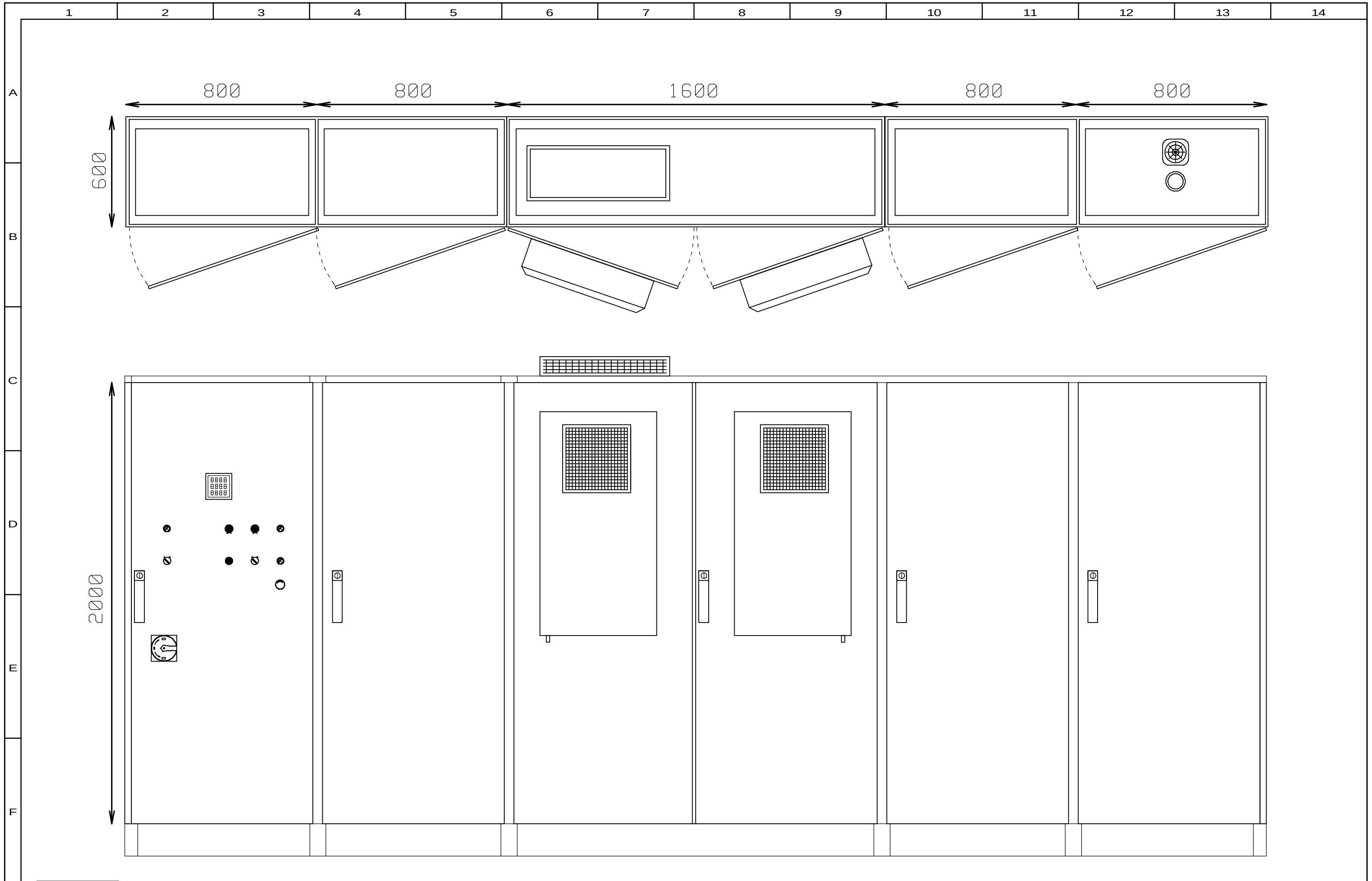
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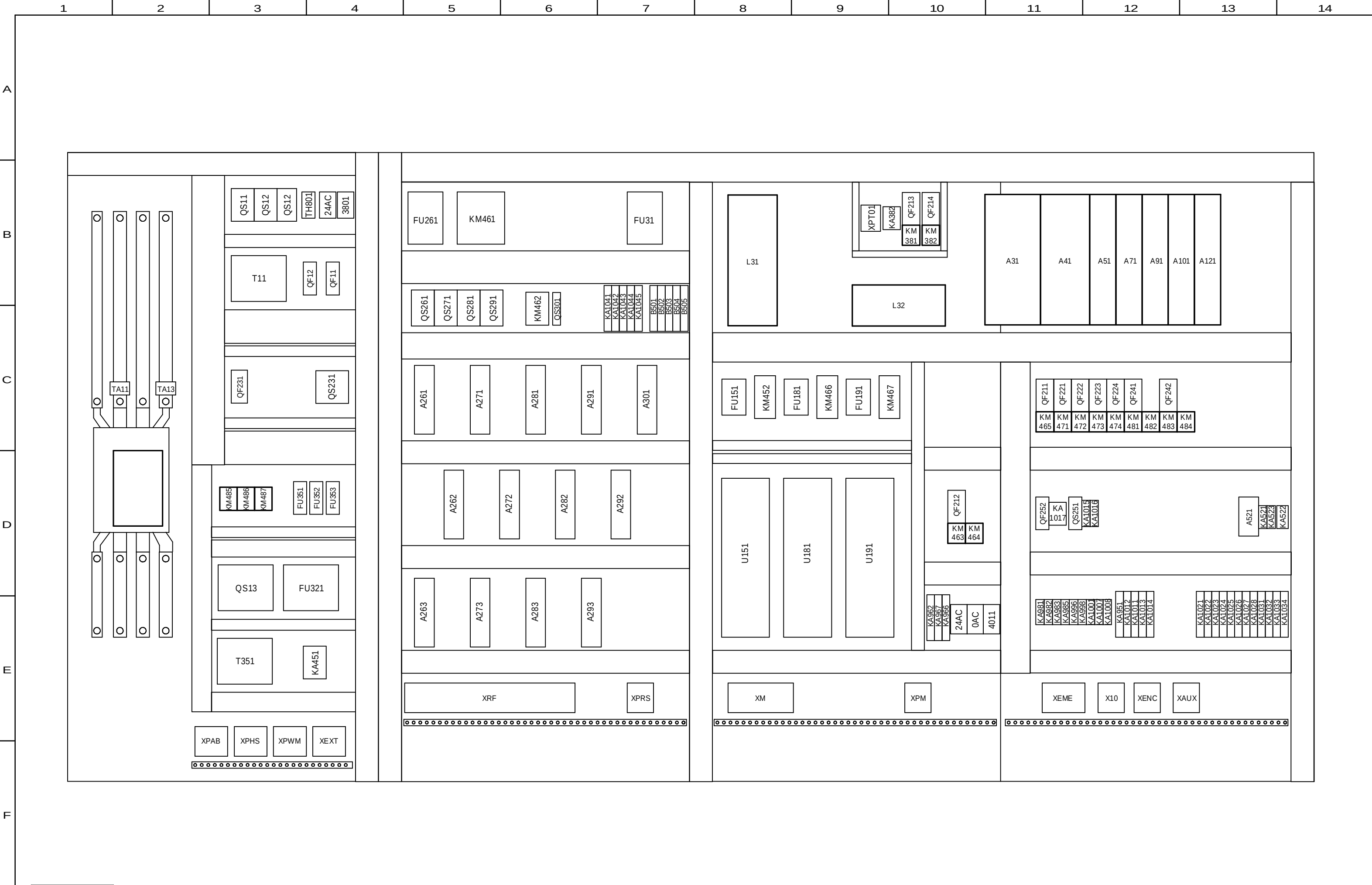
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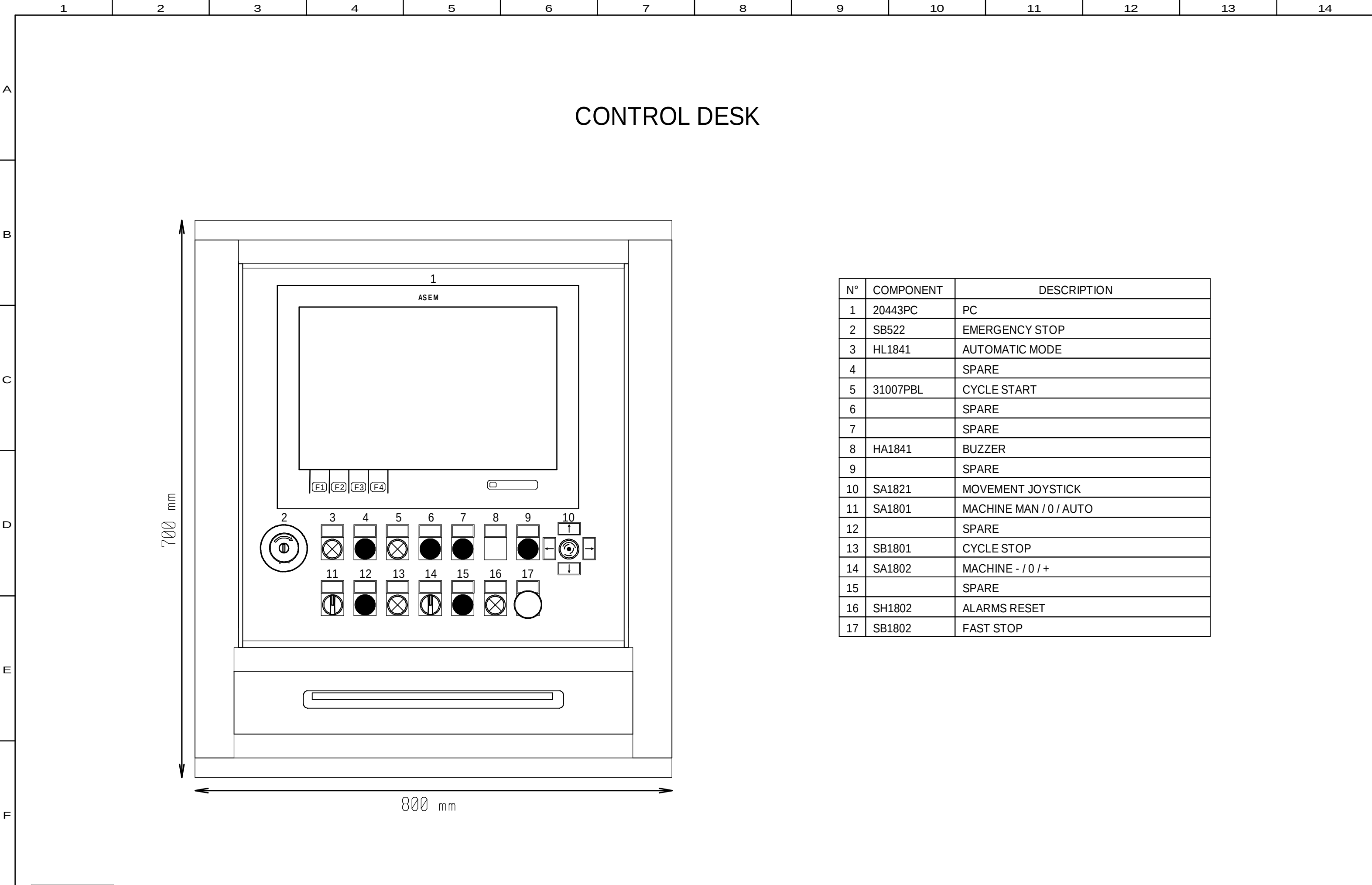
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REV.	DATE	SIGN.	MODIFY	DRW.: CEM 81				DATE: 10/01/2012															





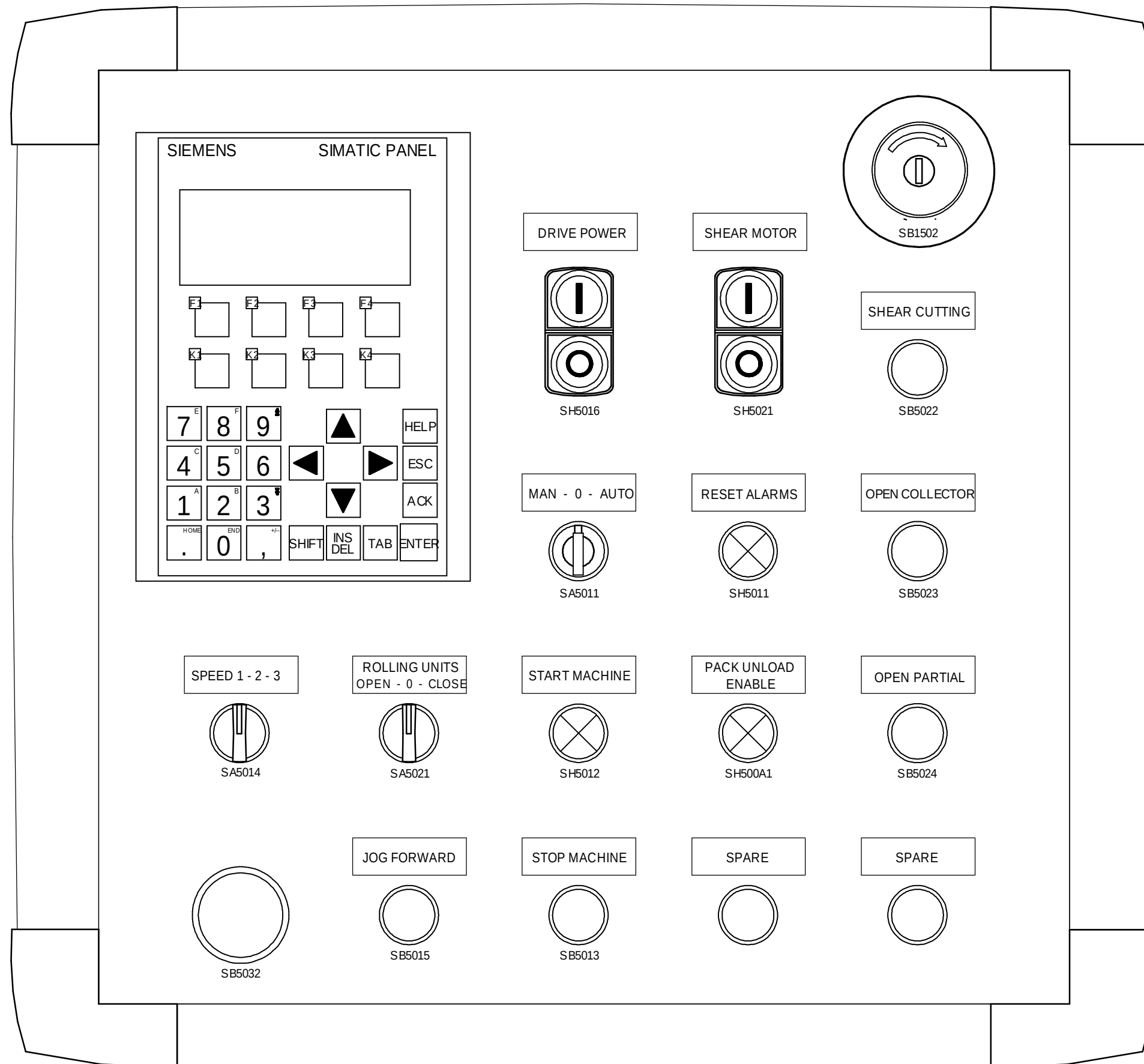
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					TITOLO: LAYOUT ESTERNO		SECTION: MAINBOARD	JOB: CEM.0000.00	10◀▶16
0.0	10/01/2012	CEM 81	PRELIMINARY						
REV.	DATE	SIGN.	MODIFY		DRW.: CEM 81	DATE: 10/01/2012			





N°	COMPONENT	DESCRIPTION
1	20443PC	PC
2	SB522	EMERGENCY STOP
3	HL1841	AUTOMATIC MODE
4		SPARE
5	31007PBL	CYCLE START
6		SPARE
7		SPARE
8	HA1841	BUZZER
9		SPARE
10	SA1821	MOVEMENT JOYSTICK
11	SA1801	MACHINE MAN / 0 / AUTO
12		SPARE
13	SB1801	CYCLE STOP
14	SA1802	MACHINE - / 0 / +
15		SPARE
16	SH1802	ALARMS RESET
17	SB1802	FAST STOP

CONTROL DESK



TITLE:
CONTROL DESK EXAMPLE 2

TITOLO:
PULPITO OPERATORE ESEMPIO 2

PROJECT:
MODELLO PROGETTO

SECTION:
MAINBOARD

OPTION:
--

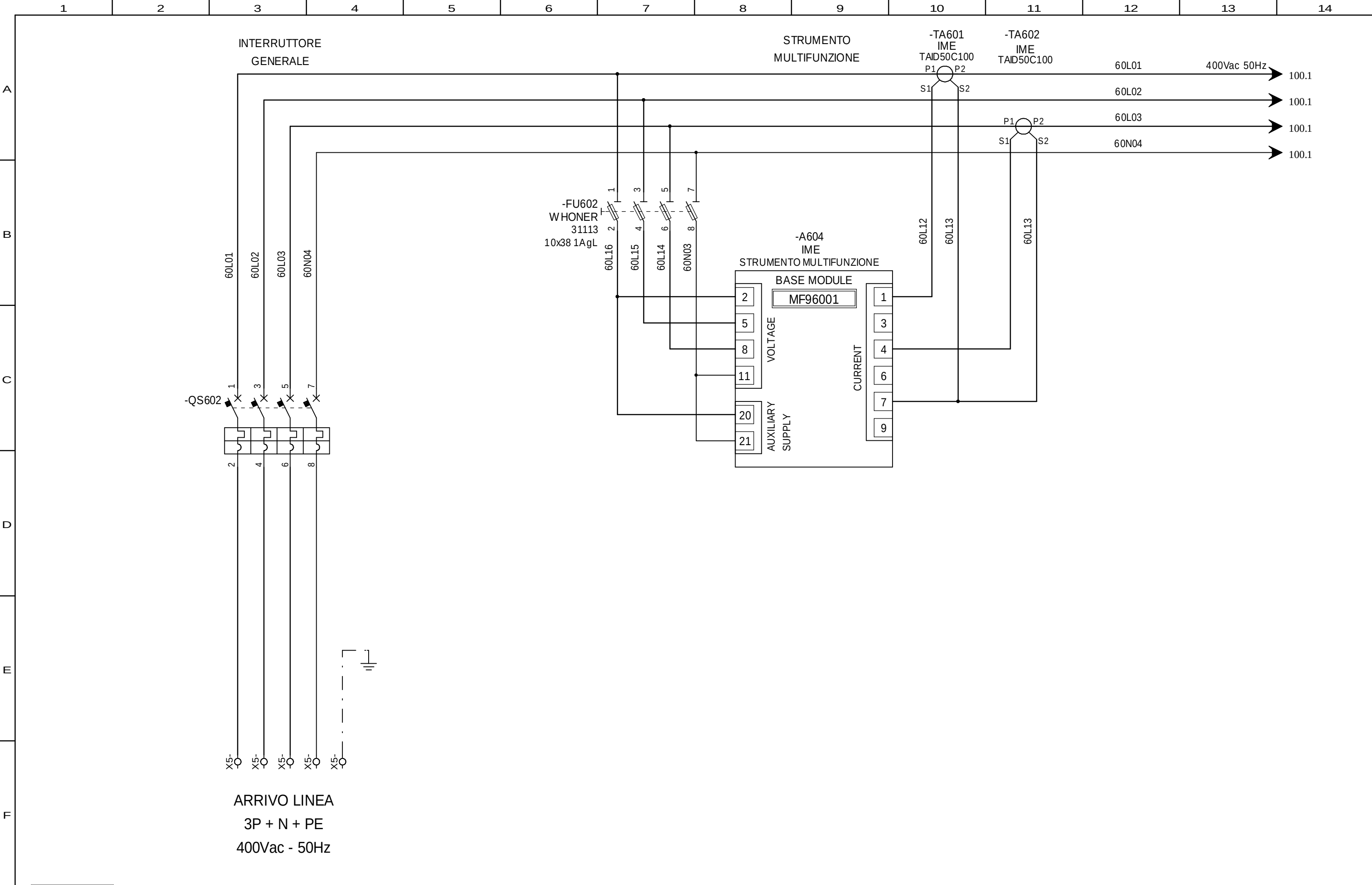
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CEM.0000.00

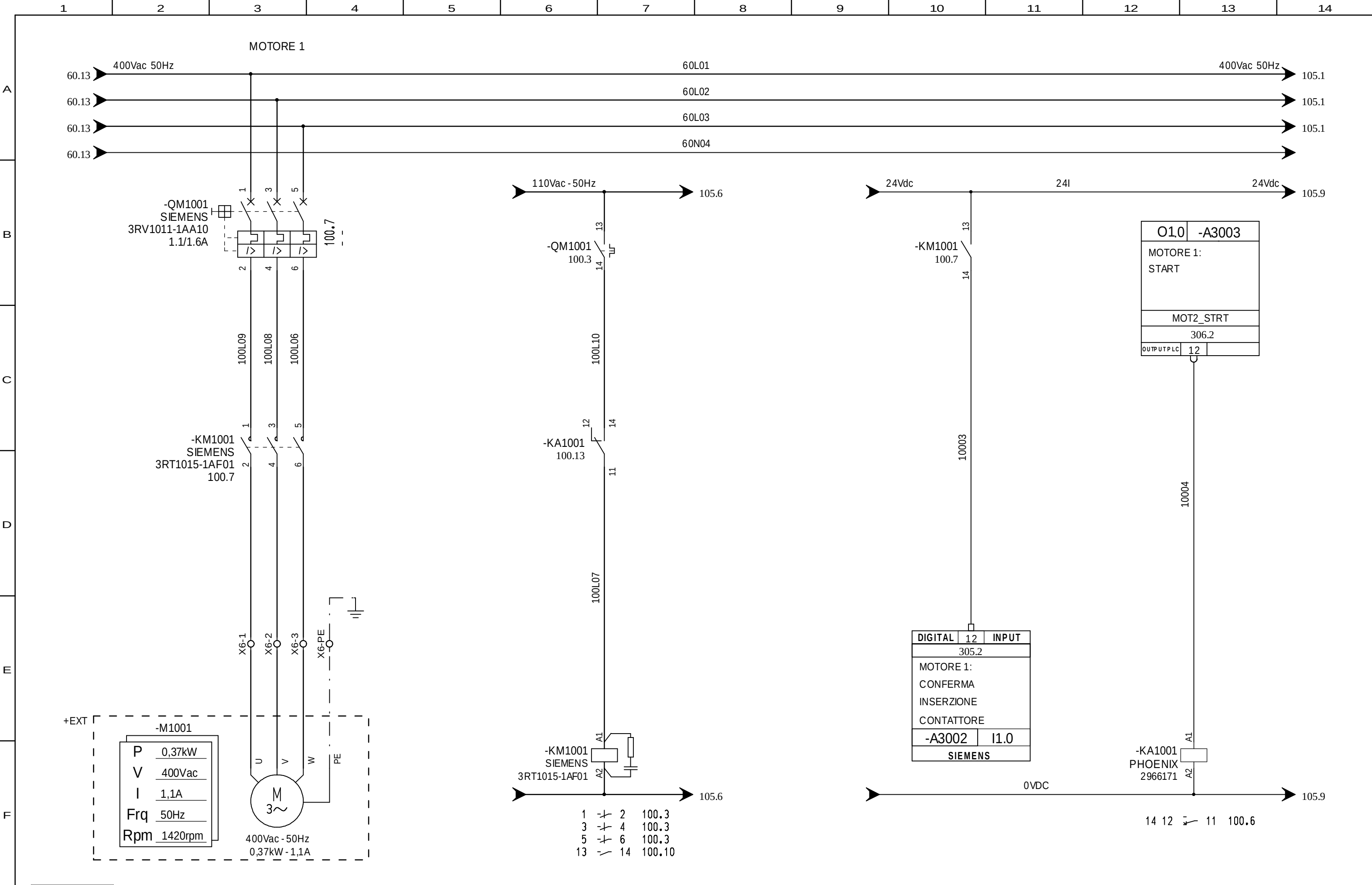
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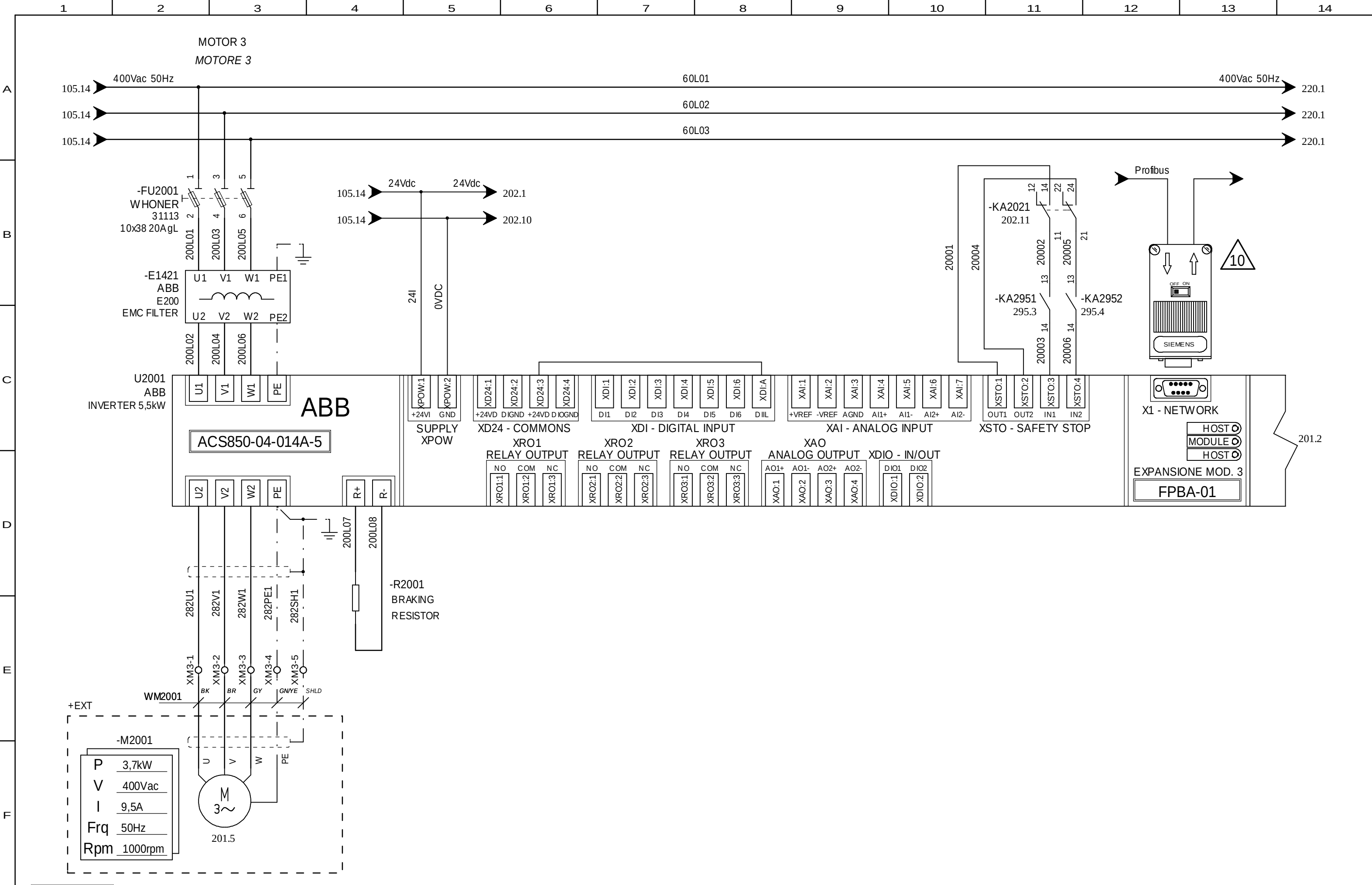
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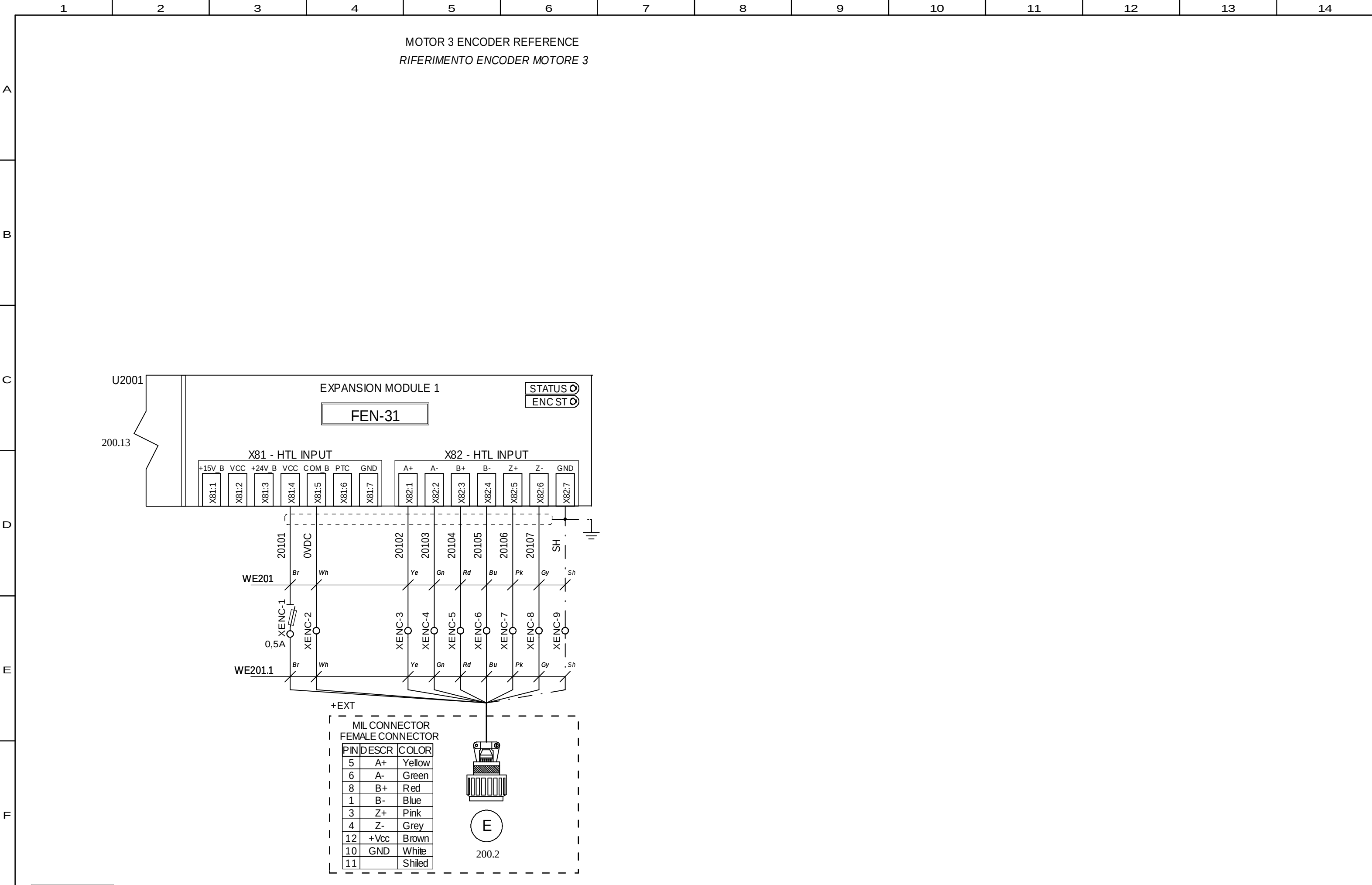
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REV.	DATE	SIGN.	MODIFY

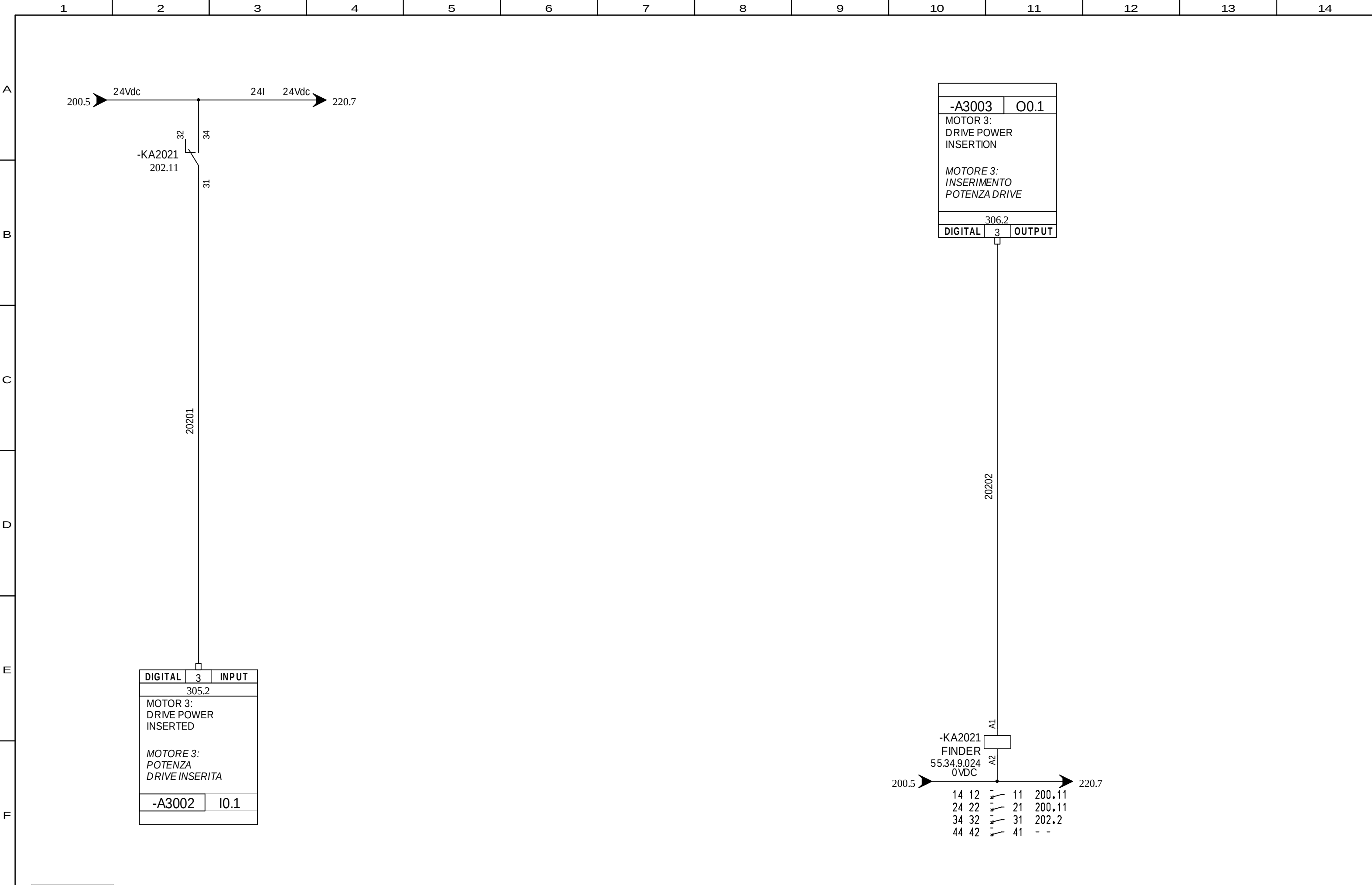
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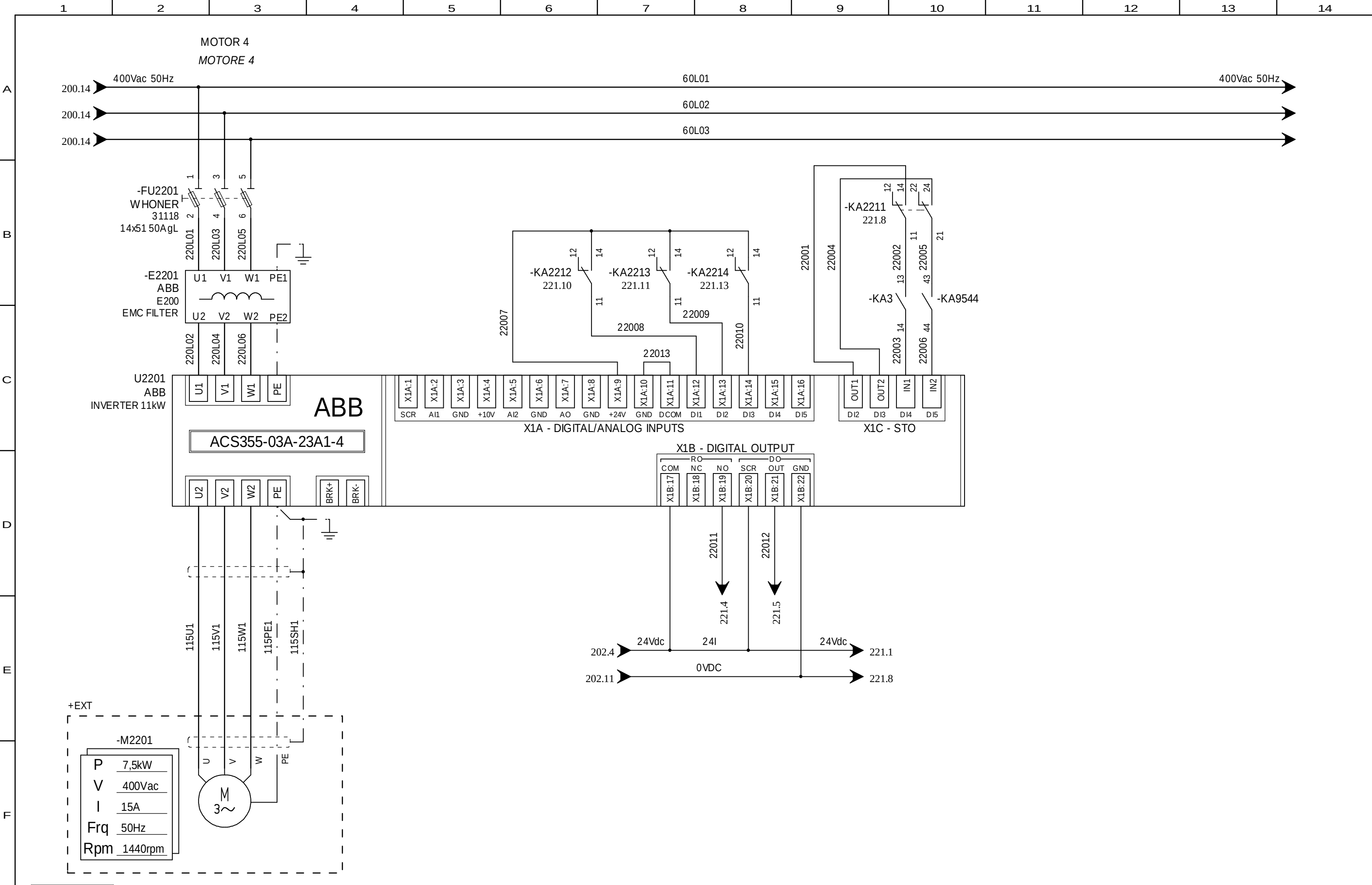




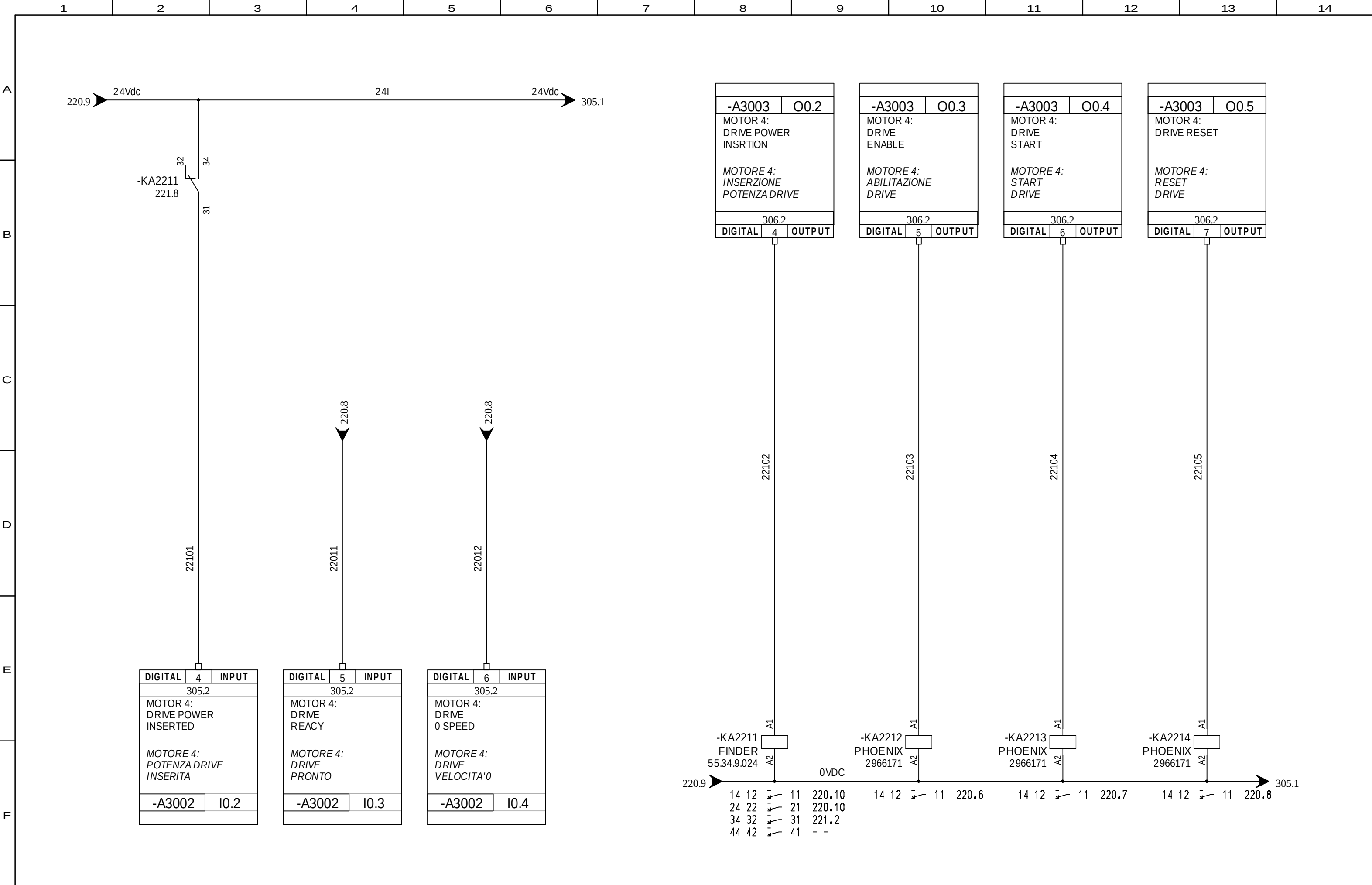


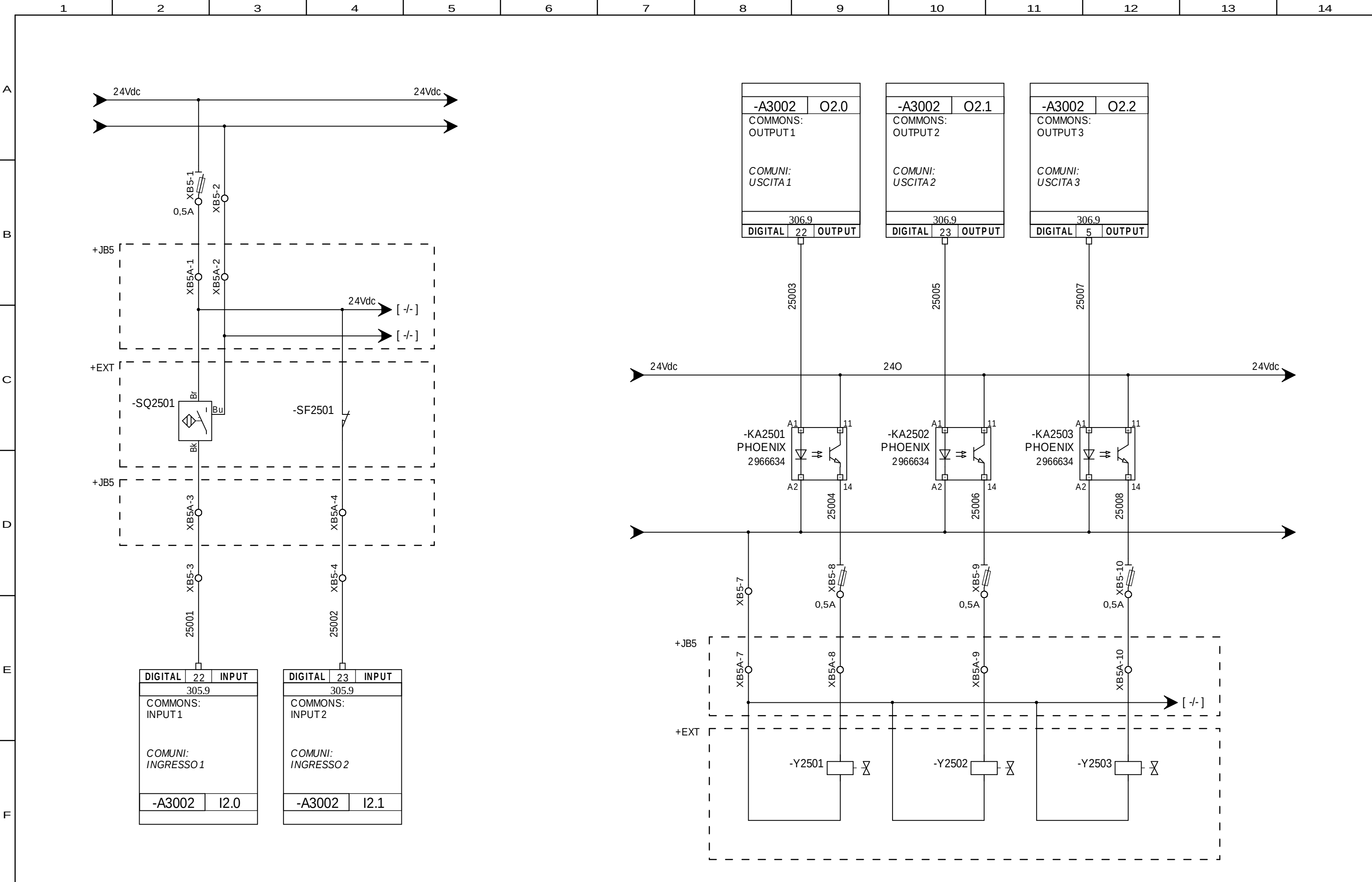


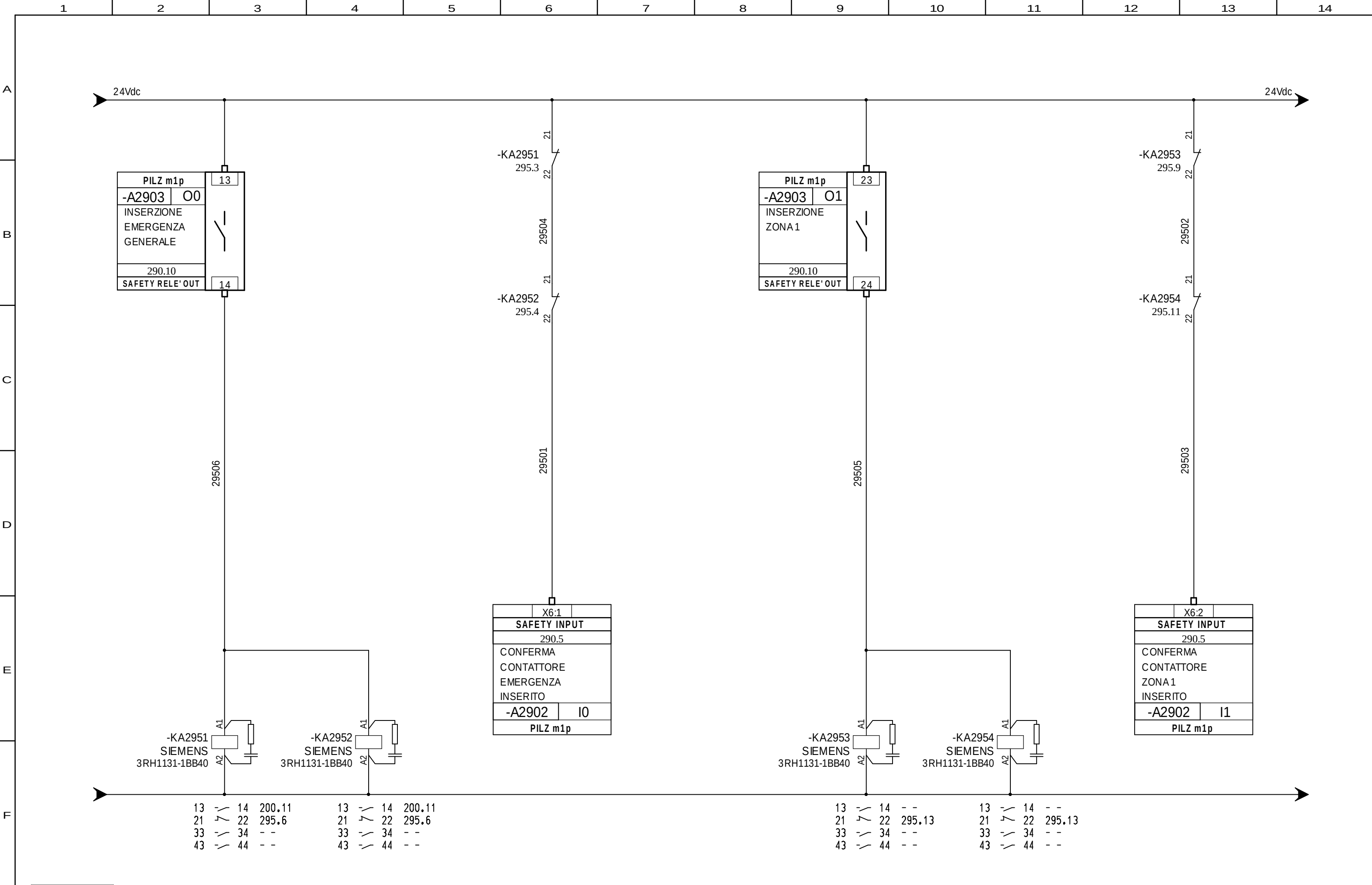


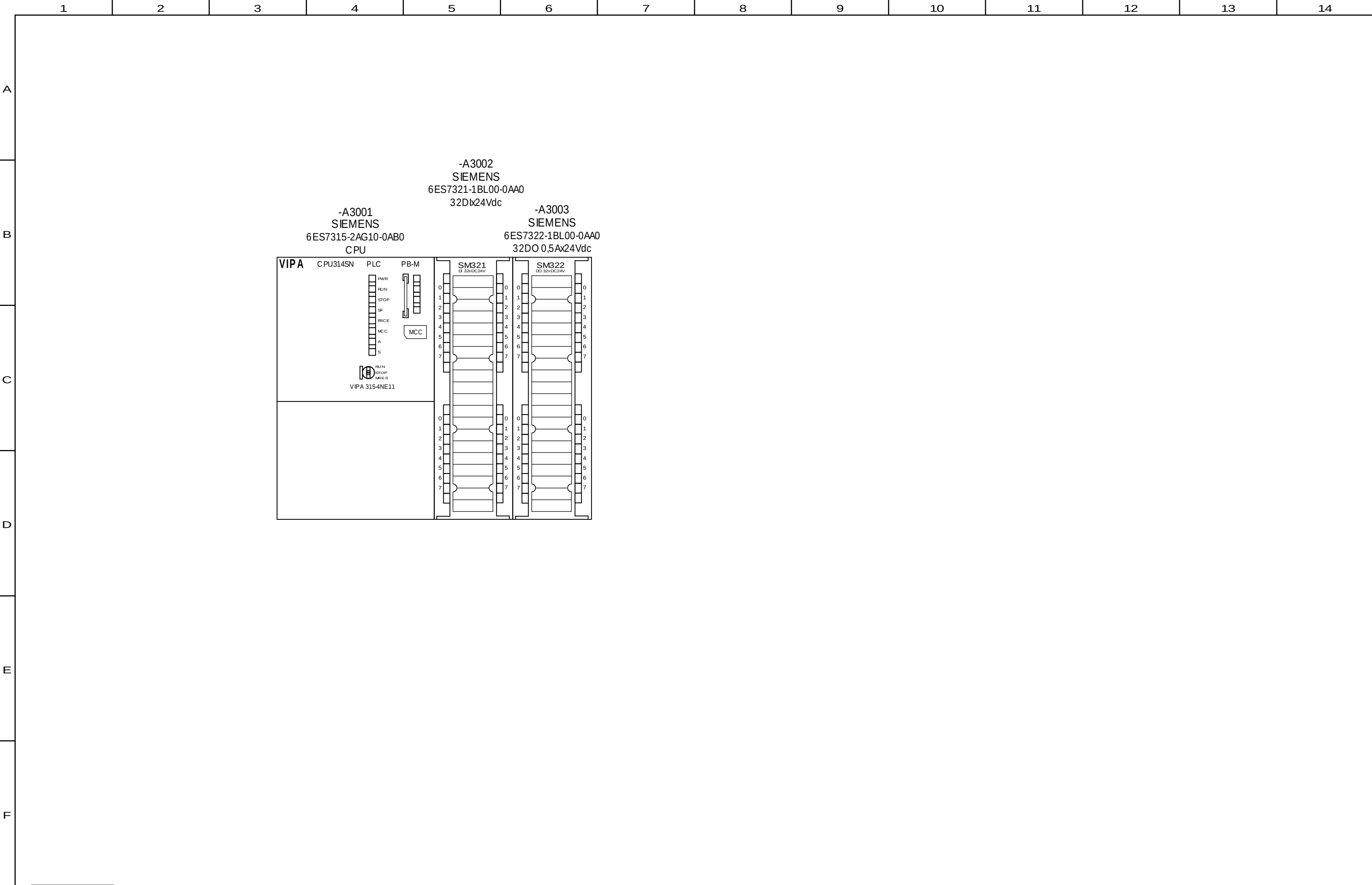


				cem81 cooperativa elettromeccanica s.c. TITLE: POWER CIRCUITS MOTOR 4 TITOLO: CIRCUITI DI POTENZA MOTORE 4		PROJECT: MODELLO PROGETTO	OPTION: --	SHEET N°: 220
						SECTION: MAINBOARD	JOB: CEM.0000.00	202◀▶221
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REV.	DATE	SIGN.	MODIFY					

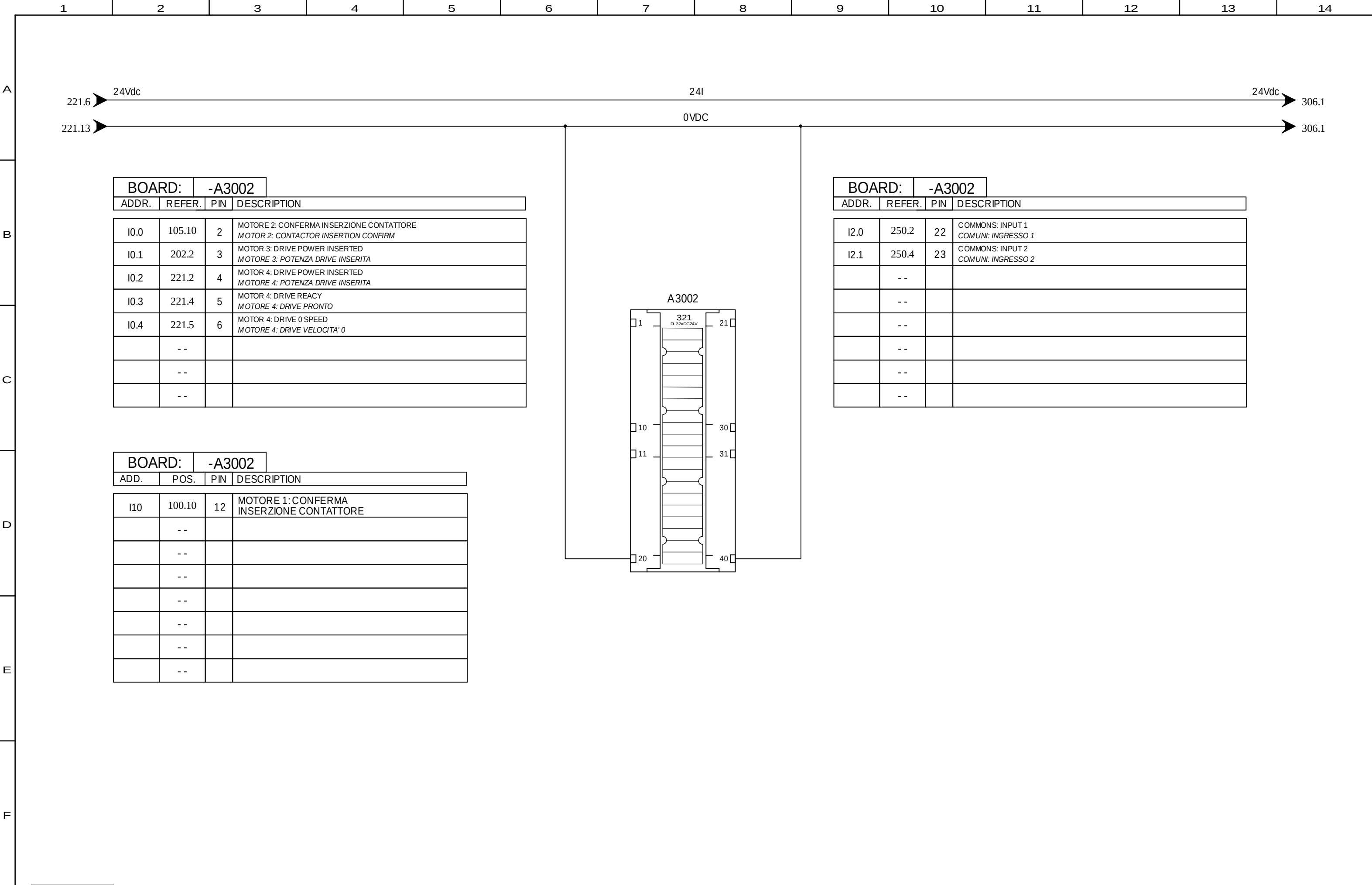


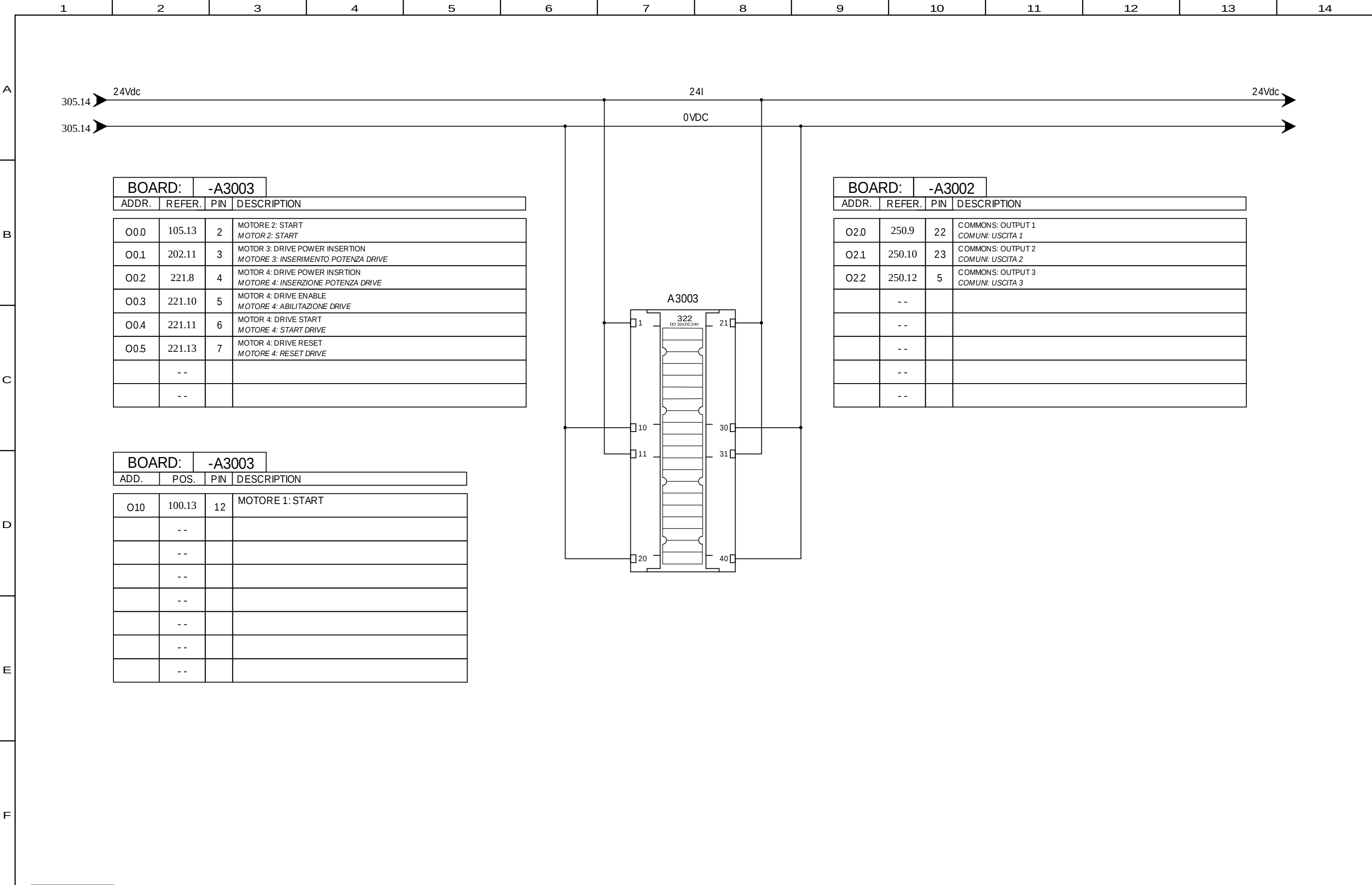


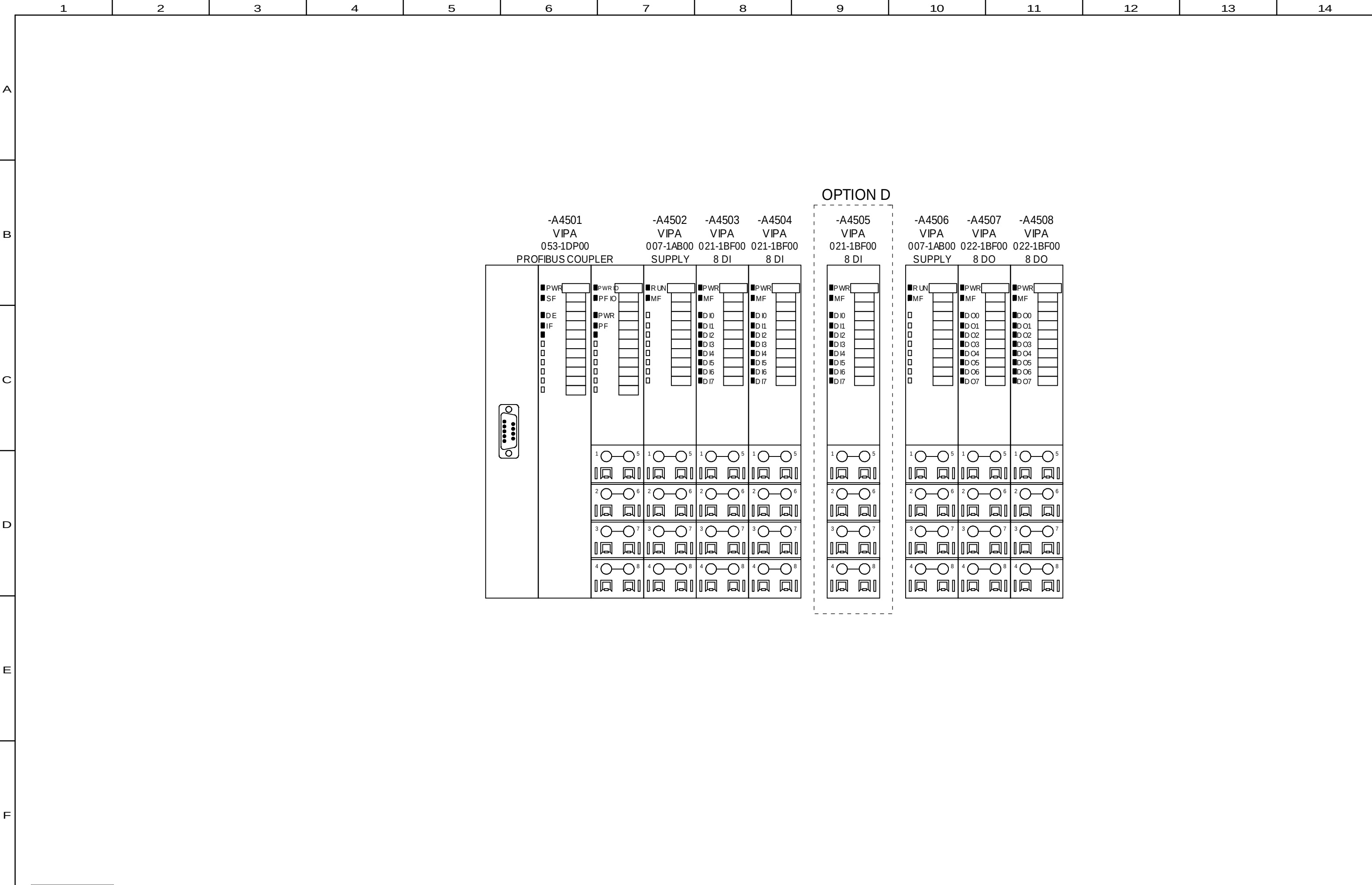


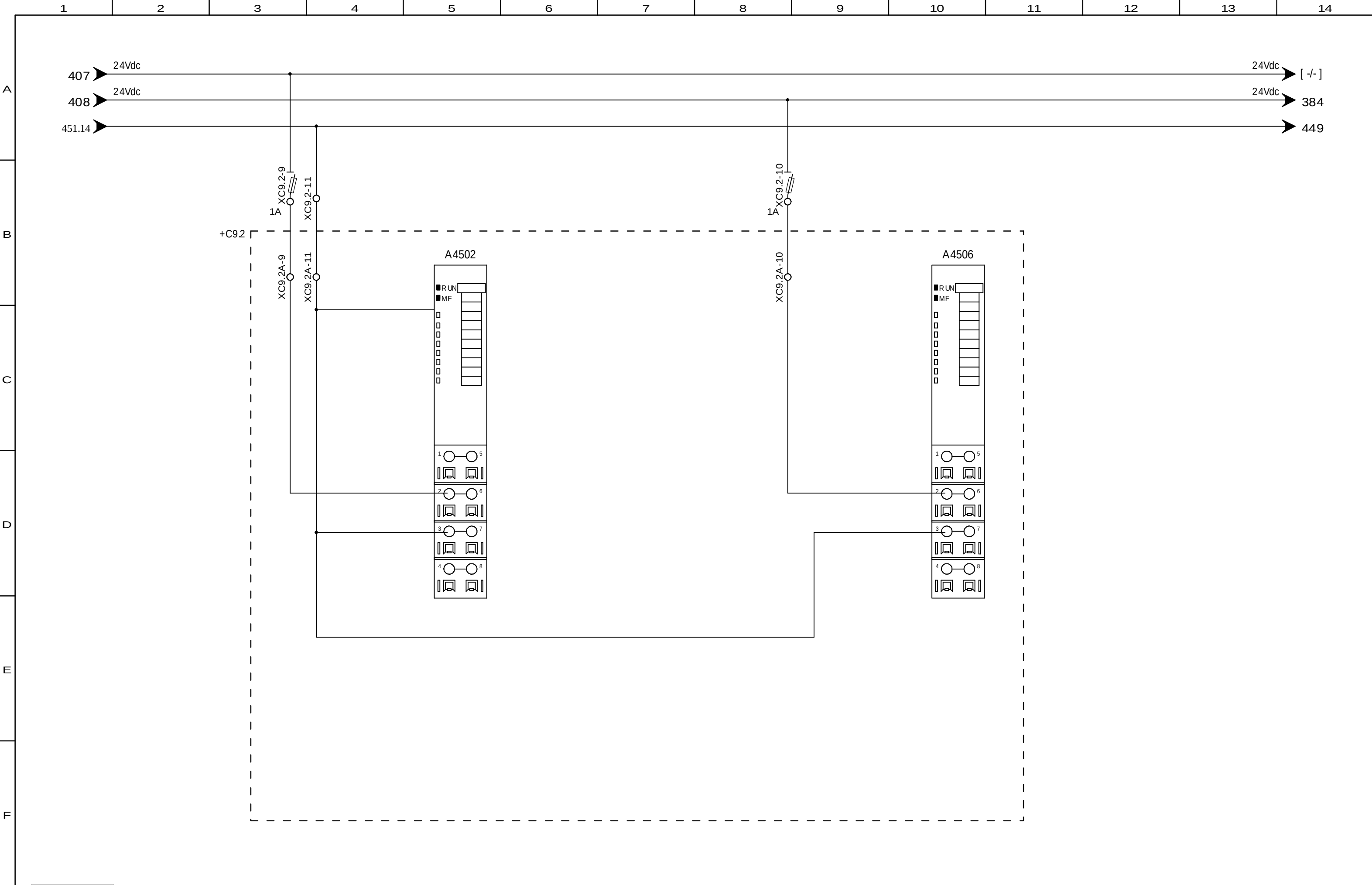


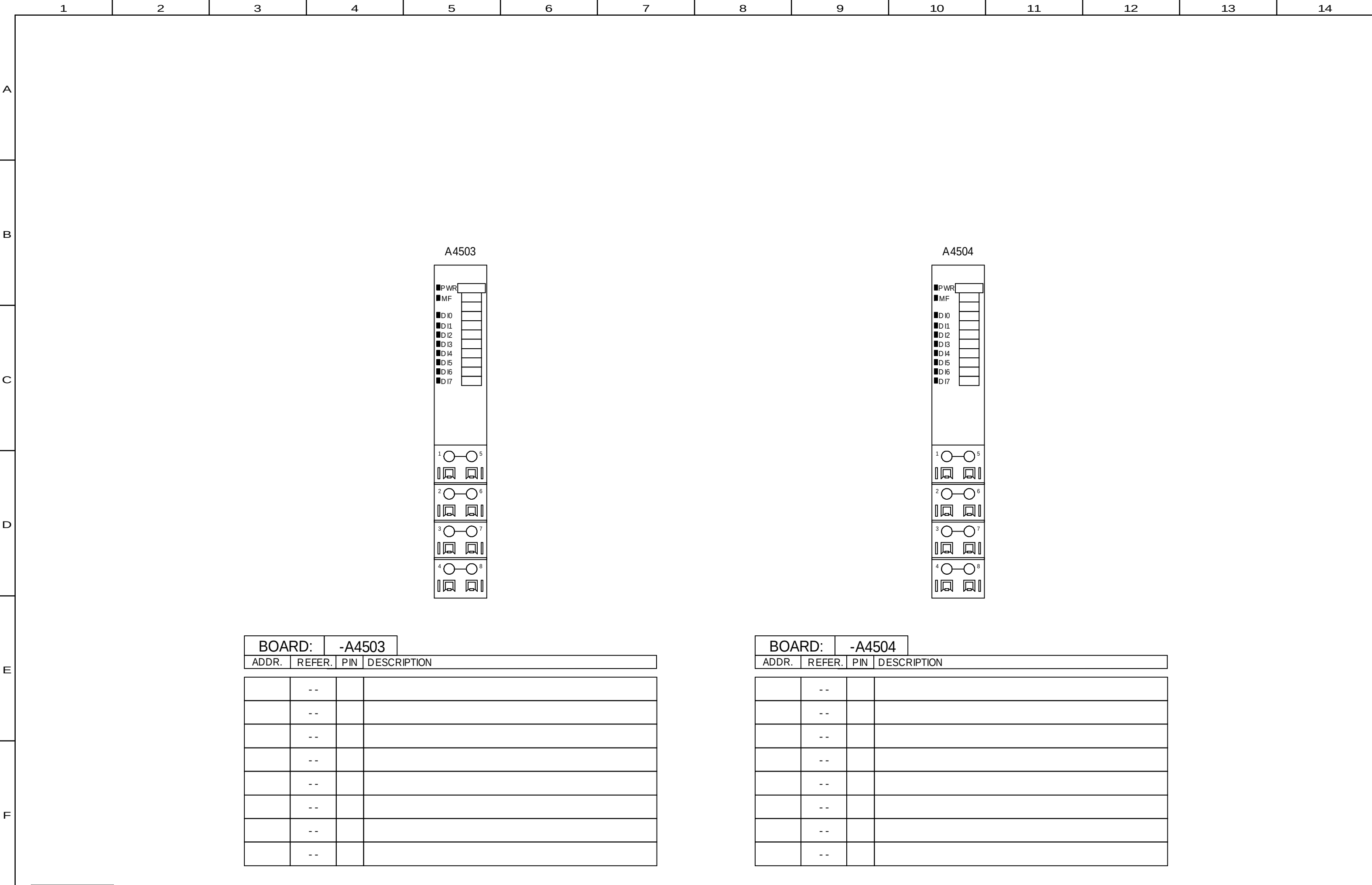
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REV.	DATE	SIGN.	MODIFY			DRW.: CEM 81	DATE: 10/01/2012		

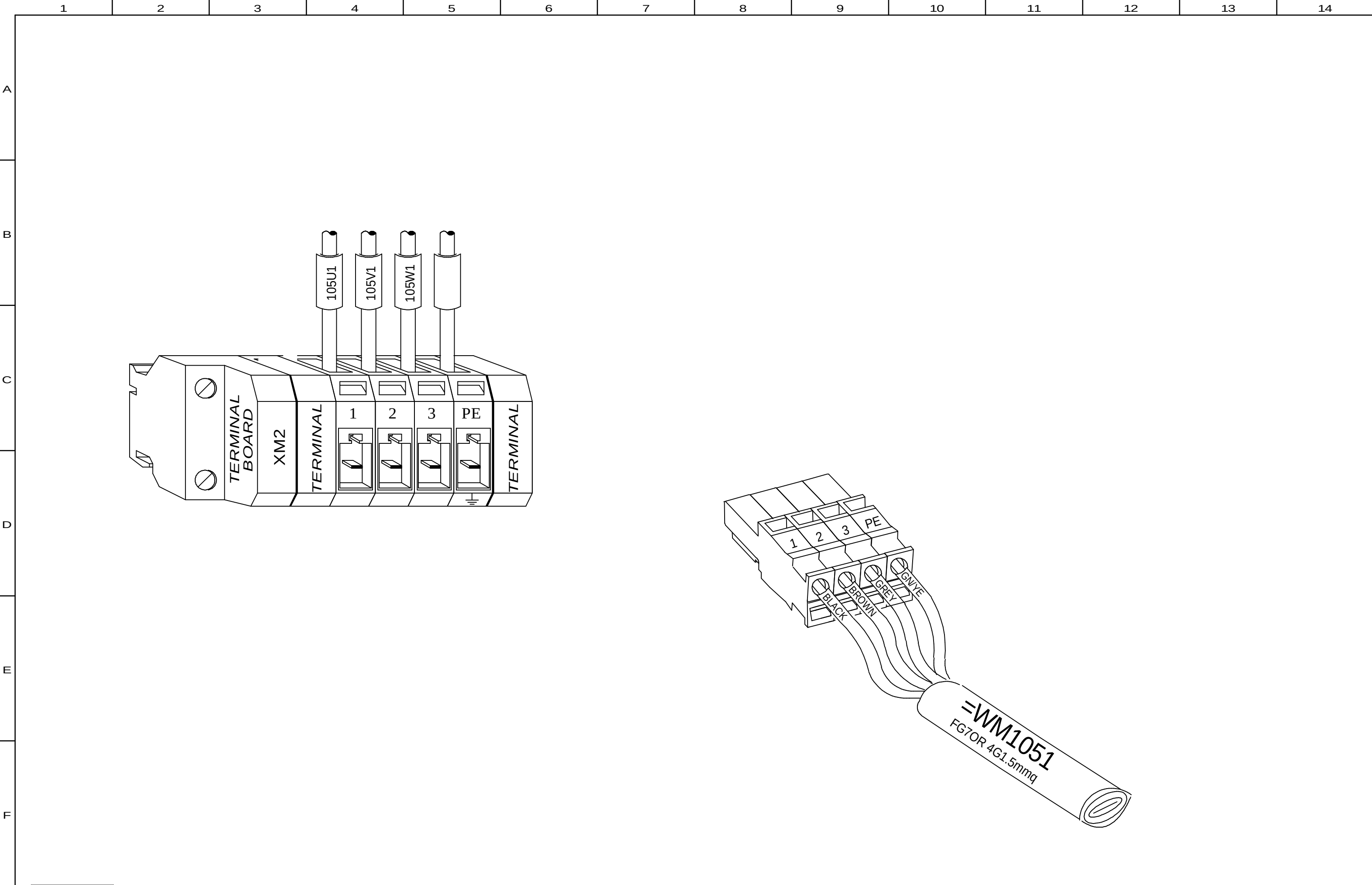












				 cooperativa elettromeccanica s.c.		TITLE: TERMINAL BOARD XM2	PROJECT: MODELLO PROGETTO	OPTION: --	SHEET N°: 500
						TITOLO: MORSETTIERA XM2	SECTION: MAINBOARD	JOB: CEM.0000.00	453◀▶501
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REV.	DATE	SIGN.	MODIFY			DRW.: CEM 81	DATE: 10/01/2012		



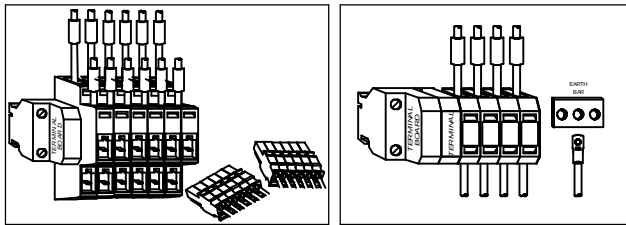
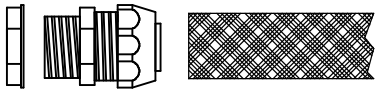
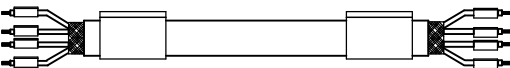
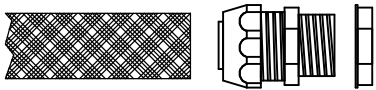
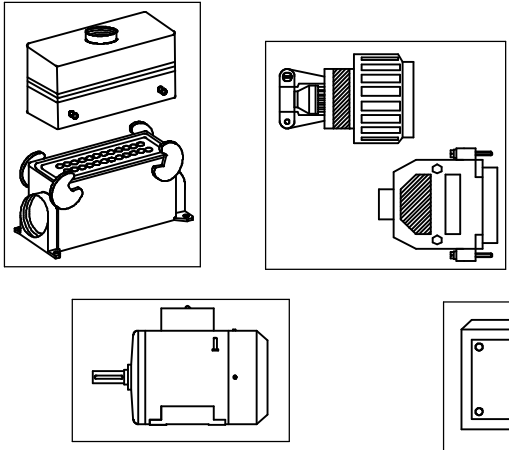
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SECTION:

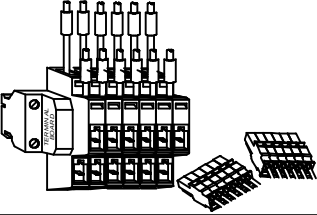
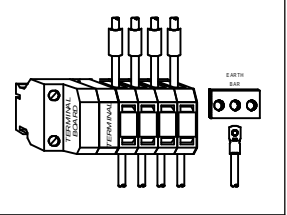
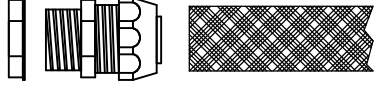
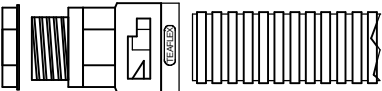
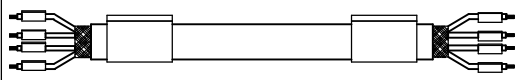
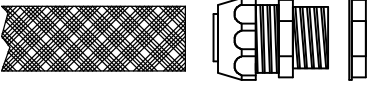
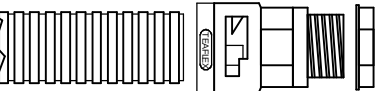
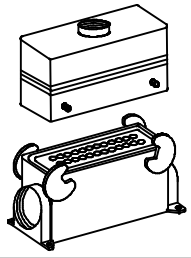
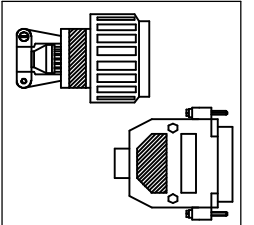
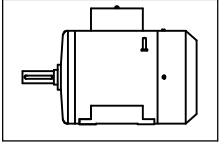
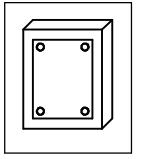
JOB:

SHEET N°:

500 ◀ ▶ 502

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A	SIGLAWM1051																																																																																						
	GRUPPOMOTOR 2																																																																																						
B	DESCRIZIONEMOTOR 2 SUPPLY																																																																																						
C	CONNESSIONE ORIGINE		INTESTAZIONE CAVO ORIGINE			CARATTERISTICHE CAVO			INTESTAZIONE CAVO DESTINAZIONE			CONNESSIONE DESTINAZIONE																																																																											
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						TITOLO: CAVO WM1051				SECTION: MAINBOARD		JOB: CEM.0000.00		502◀▶551	
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REV.	DATE	SIGN.	MODIFY			DRW.: CEM 81		DATE: 10/01/2012							

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				 cooperativa elettromeccanica s.c. DRW.: CEM 81 DATE: 10/01/2012	TITLE: CABLE: =AF-W1 =AF-W1 - 1/1	PROJECT: MODELLO PROGETTO	OPTION:	SHEET N°: 551	
						TITOLO:	SECTION: MAINBOARD	JOB: CEM.0000.00	550◀▶570
0.0	10/01/2012	CEM 81	PRELIMINARY						
REV.	DATE	SIGN.	MODIFY						

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XAEC

CONNECTOR LAYOUT

	PIN	WIRE NAME	POSITION	COMPONENT
		SPARE		
1	6506	206 / 8	QF652	
2	0V	206 / 9	A41	
3	6507	206 / 8	X404	
4	6508	206 / 10	X405	
5	6510	206 / 11	X406	
6	6512	206 / 13	X407	
7	6601	206 / 2	X408	
8	6602	206 / 4	X409	
9	6603	206 / 5	X410	
10	6604	206 / 7	X411	
11	4128	206 / 10	XC1P/B	
12	4121	206 / 10	XATN	
13	4131	206 / 10	XC1P/B	
14	4126	206 / 10	XATN	
16	SPARE			
17	SPARE			
18	SPARE			
19	SPARE			
20	SPARE			
21	SPARE			
22	11204	206 / 6	I13	
23	11205	206 / 7	I13	
24		206 / 7		
PE	SPARE			

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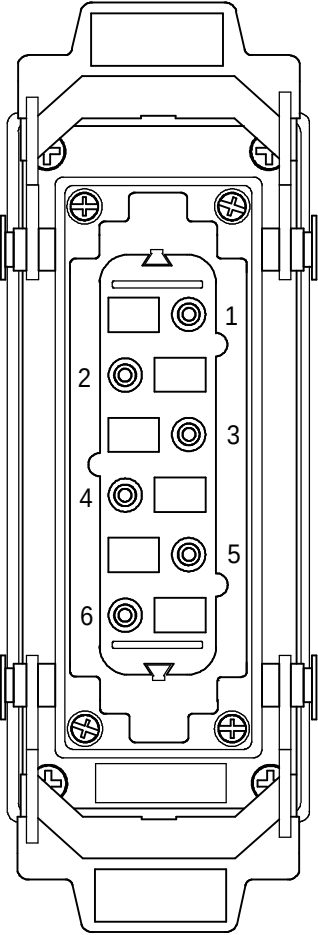
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E

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XPEC

CONNECTOR LAYOUT



PIN	WIRE NAME	POSITION	COMPONENT
1	U212	239 / 5	KM464
2	V212	239 / 6	KM464
3	W212	239 / 6	KM464
4	SPARE		
5	SPARE		
6	SPARE		
PE	PE	239 / 6	A31

LISTA MATERIALI

Sigla	Descrizione	Codice	Costruttore	Ubicazione	Posizione
A2901	Moduli di comunicazione PNOZmulti	773721	PILZ		290.4
A2902	Modulo base	773103	PILZ		290.5
A2903	Moduli di espansione PNOZmulti	773536	PILZ		290.10
A3001	UNITA' CPU 315-2DP	6ES7315-2AG10-0AB0	SIEMENS		300.3
A3002	Blocchi di ingressi digitali	6ES7321-1BL00-0AA0	SIEMENS		300.5
A3002	CONNETTORE FRONTALE 40 PIN	6ES7392-1AM00-0AA0	SIEMENS		300.5
A3003	Blocchi di uscite digitali SM3	6ES7322-1BL00-0AA0	SIEMENS		300.6
A3003	CONNETTORE FRONTALE 40 PIN	6ES7392-1AM00-0AA0	SIEMENS		300.6
A604	MULTIFUNCTION DEVICE	MF96001	IME		60.8
E1421	EMC FILTER	E200	ABB		200.2
E2201	EMC FILTER	E200	ABB		220.2
FU2001	10X38 3p	31113	WHONER		200.2
FU2201	14X51 3p	31118	WHONER		220.2
FU602	10X38 3p	31113	WHONER		60.7
KA1001	RELE' 1 CONT. 24VDC	2966171	PHOENIX		100.13
KA1051	RELE' 1 CONT. 24VDC	2966171	PHOENIX		105.13
KA2021	RELE' 4 CONT. 24VDC	55.34.9.024	FINDER		202.11
KA2021	ZOCCOLO 4 CONT.	94.74	FINDER		202.11
KA2211	RELE' 4 CONT. 24VDC	55.34.9.024	FINDER		221.8
KA2211	ZOCCOLO 4 CONT.	94.74	FINDER		221.8
KA2212	RELE' 1 CONT. 24VDC	2966171	PHOENIX		221.10
KA2213	RELE' 1 CONT. 24VDC	2966171	PHOENIX		221.11
KA2214	RELE' 1 CONT. 24VDC	2966171	PHOENIX		221.13
KA2501	OPTOISOLATORE 3A	2966634	PHOENIX		250.8
KA2502	OPTOISOLATORE 3A	2966634	PHOENIX		250.10
KA2503	OPTOISOLATORE 3A	2966634	PHOENIX		250.11
KA2951	CONT. AUS. 3NA+1NC, 24V DC	3RH1131-1BB40	SIEMENS		295.3
KA2951	CIRCUITO RC, AC24-48V, DC24-70V,S00	3RT1916-1CB00	SIEMENS		295.3
KA2952	CONT. AUS. 3NA+1NC, 24V DC	3RH1131-1BB40	SIEMENS		295.4
KA2952	CIRCUITO RC, AC24-48V, DC24-70V,S00	3RT1916-1CB00	SIEMENS		295.4
KA2953	CONT. AUS. 3NA+1NC, 24V DC	3RH1131-1BB40	SIEMENS		295.9
KA2953	CIRCUITO RC, AC24-48V, DC24-70V,S00	3RT1916-1CB00	SIEMENS		295.9
KA2954	CONT. AUS. 3NA+1NC, 24V DC	3RH1131-1BB40	SIEMENS		295.11
KA2954	CIRCUITO RC, AC24-48V, DC24-70V,S00	3RT1916-1CB00	SIEMENS		295.11
KA3	CONT. AUS. 3NA+1NC, 24V DC	3RH1131-1BB40	SIEMENS		220.10
KA3	CIRCUITO RC, AC24-48V, DC24-70V,S00	3RT1916-1CB00	SIEMENS		220.10
KM1	CONTATTORE AC-3 3kW/400V, 3P 1NA, COMAND	3RT1015-1AF01	SIEMENS		100.3
KM1	CIRCUITO RC, AC48-127V, DC70-150V,S00	3RT1916-1CC00	SIEMENS		100.3
KM1001	CONTATTORE AC-3 3kW/400V, 3P 1NA, COMAND	3RT1015-1AF01	SIEMENS		100.7
KM1001	CIRCUITO RC, AC48-127V, DC70-150V,S00	3RT1916-1CC00	SIEMENS		100.7

LISTA MATERIALI

[illegible]

					TITLE: LISTA MATERIALE	PROJECT: MODELLO PROGETTO		SHEET N°: 601
0.0	10/01/2012	CEM 81	PRELIMINARE			SECTION: MAINBOARD	JOB: CEM.0000.00	600 ◀▶
REV.	DATE	SIGN.	MODIFY			DRW.: CEM 81	DATE: 10/01/2012	