

PROGETTAZIONE E REALIZZAZIONE DI SISTEMI PER AUTOMAZIONI INDUSTRIALI

Tel.: (0)735 / 736262 - Fax : (0)735 / 730007

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Commissionario      : CENTERINOX
Tipo macchina      : FRESA 5 ASSI + MANDRINO
Disegno            : C01_0901
Commessa           : C01_0901
Cliente finale      :
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Responsabile progetto : NI
Progettista : LS

Inizio progetto : 07. Ott. 2010
Stampa progetto : 28. Set. 2009

Pagina iniziale : 1
Pagina finale : 65

EST automazione s.r.l.

PROGETTAZIONE E REALIZZAZIONE DI SISTEMI PER AUTOMAZIONI INDUSTRIALI

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Commessa : C01_0901
Tipo macchina : FRESA 5 ASSI + MANDRINO
Disegno : C01_0901
Commissionario : CENTERINOX

Dimensioni armadio (LxAxP) :
Tensione nominale d'impiego (Ue) : 400VAC ; 50Hz
Linea d'Alimentazione : 3PH+PE
Tensione nominale ausiliari (Ue) : 24VDC
Anno di costruzione : 2009
Standards : IEC 204-1 / EN 60 204-1 / CEI 44-5
IEC 439-1 / EN 60 439-1 / CEI 17-13/1
Grado di protezione :

Inizio progetto : 07.0tt.2010 Pagina finale : 65
Responsabile progetto : NI
Data di modifica : 07.0tt.2010
Progettista : LS

1

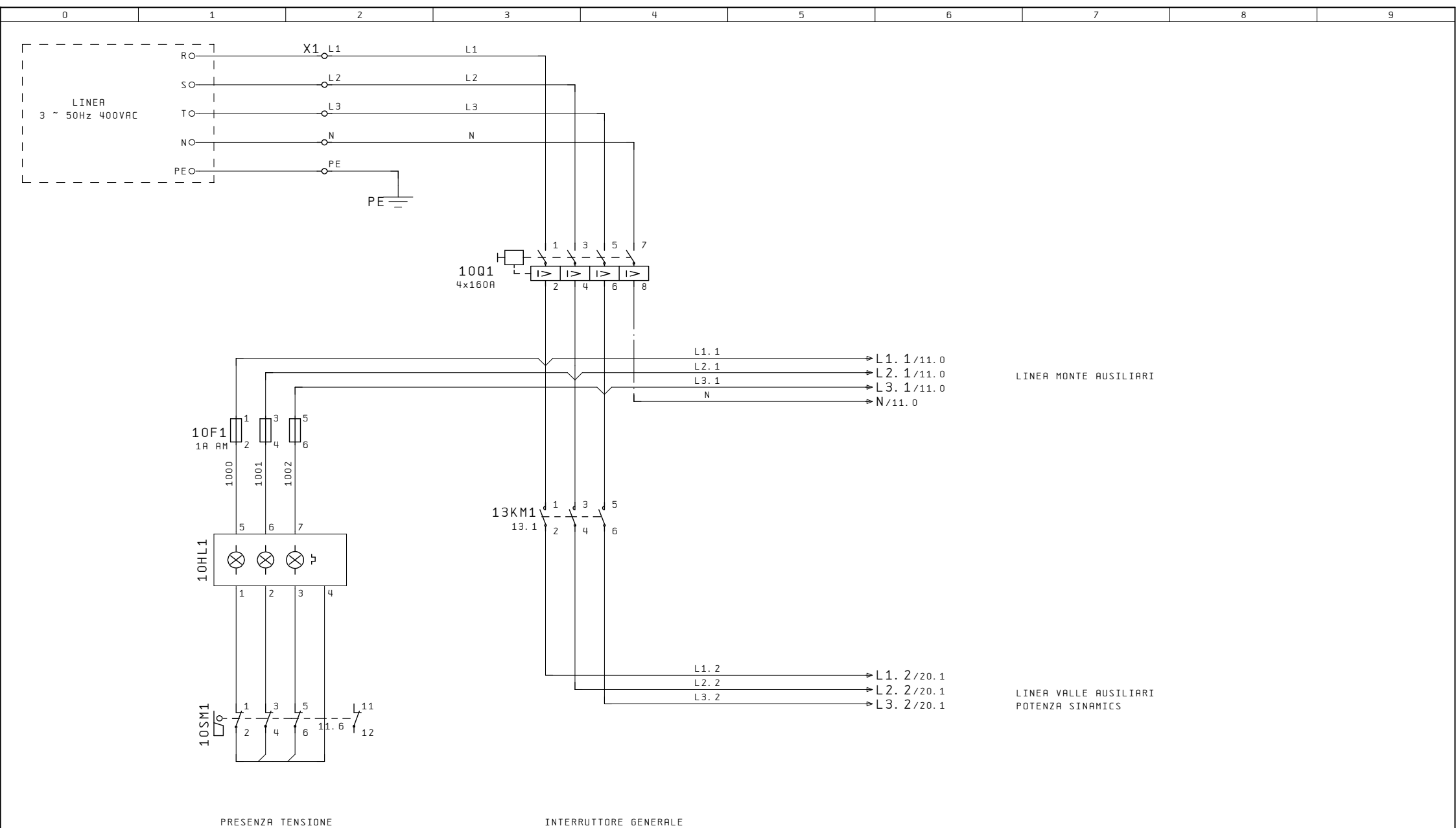
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Rev n°	Revision	Date	Chief	NI					=	+	2

EST automazione s.r.l.

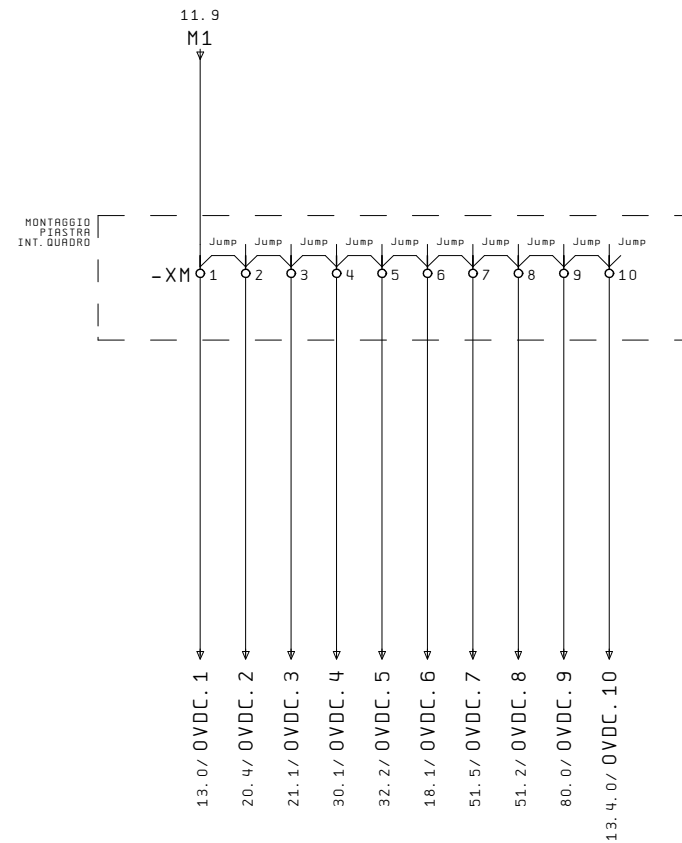
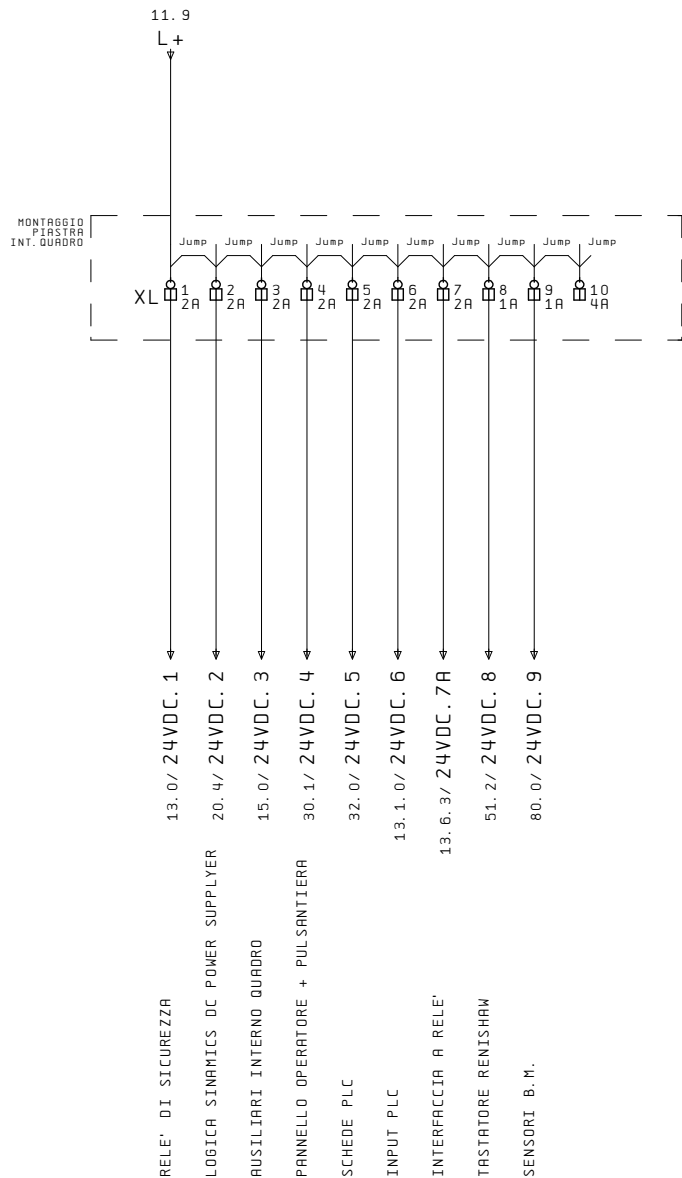
PROGETTAZIONE E REALIZZAZIONE DI SISTEMI PER AUTOMAZIONI INDUSTRIALI

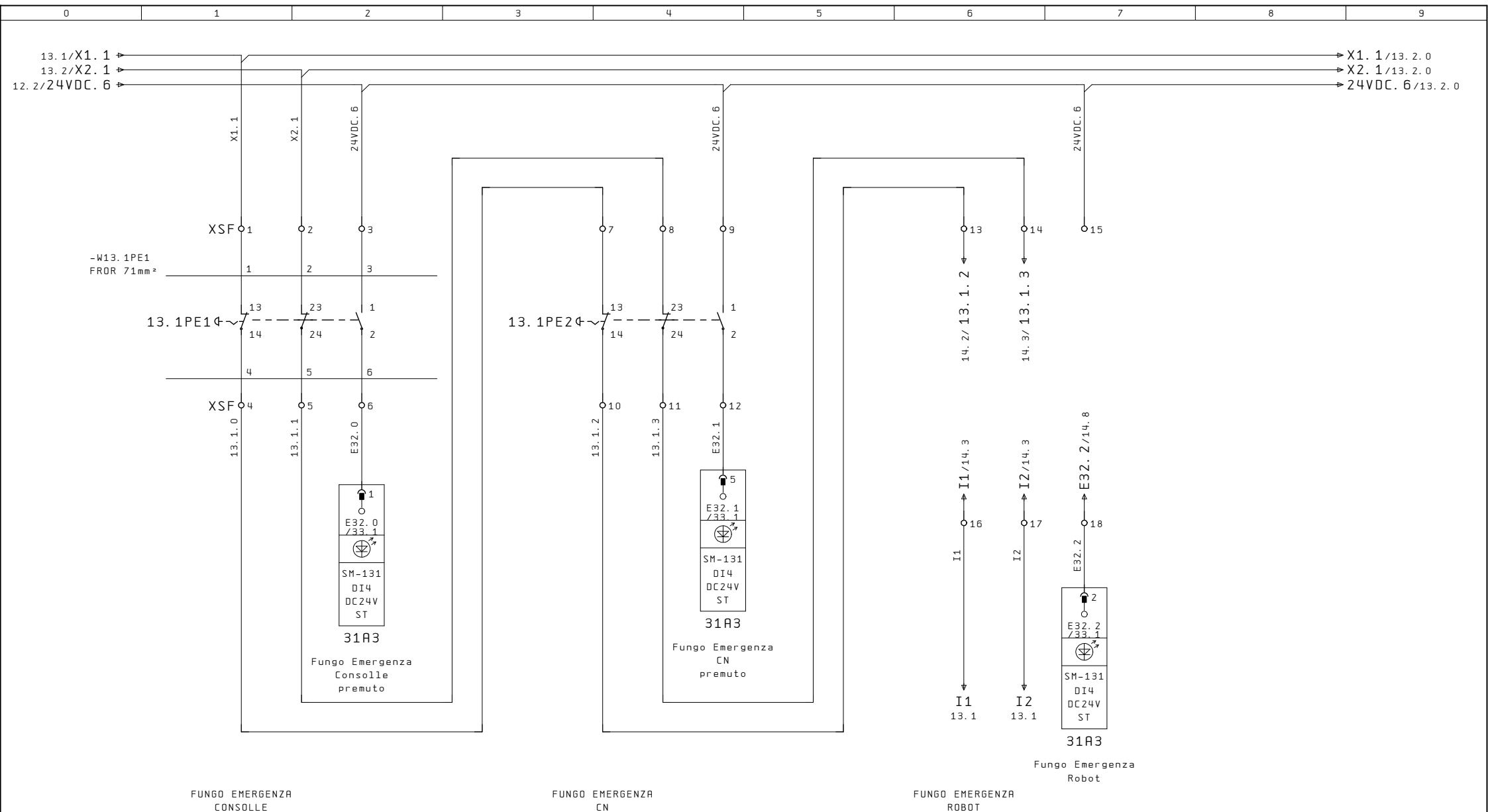
Tel.: (0)735 / 736262 - Fax : (0)735 / 730007

CODICI COLORI	
In conformità alla norma IEC 757, la seguente codifica dovrebbe essere usata per i colori dei conduttori	Colori usati nel cablaggio interno quadro
<div><div><div>NERO = BK</div><div>MARRONE = BN</div><div>ROSSO = RD</div><div>ARANCIO = OG</div><div>GIALLO = YE</div><div>VERDE = GN</div><div>BLU = BU</div><div>VIOLA = VT</div><div>GRIGIO = GY</div><div>BIANCO = WH</div><div>ROSA = PK</div><div>ORO = GD</div><div>TURCHESE = TQ</div><div>ARGENTO = SR</div></div><div>Per la combinazione di due colori seguire l'esempio sotto</div><div><div>GIALLO/VERDE = GNYE</div><div>ROSSO/BLU = RDBU</div></div></div>	<div>POTENZA</div> <div><div>400VAC = NERO (BK)</div><div>230VAC = NERO (BK)</div><div>Motori DC = NERO (BK)</div></div> <div>TENSIONI AUSILIARIE</div> <div><div>110/230VAC fase = ROSSO (RD)</div><div>230VAC neutro = GRIGIO (GY)</div><div>0VDC = MARRONE (BN)</div><div>+24VDC = BLU (BU)</div></div> <div>SEGNALI PLC</div> <div><div>DI/DO = BLU (BU)</div><div>AI/AO = BIANCO (WH)</div><div>Potenziale riferim. = MARRONE (BN)</div><div>Linee esterne = ARANCIO (OG)</div></div>



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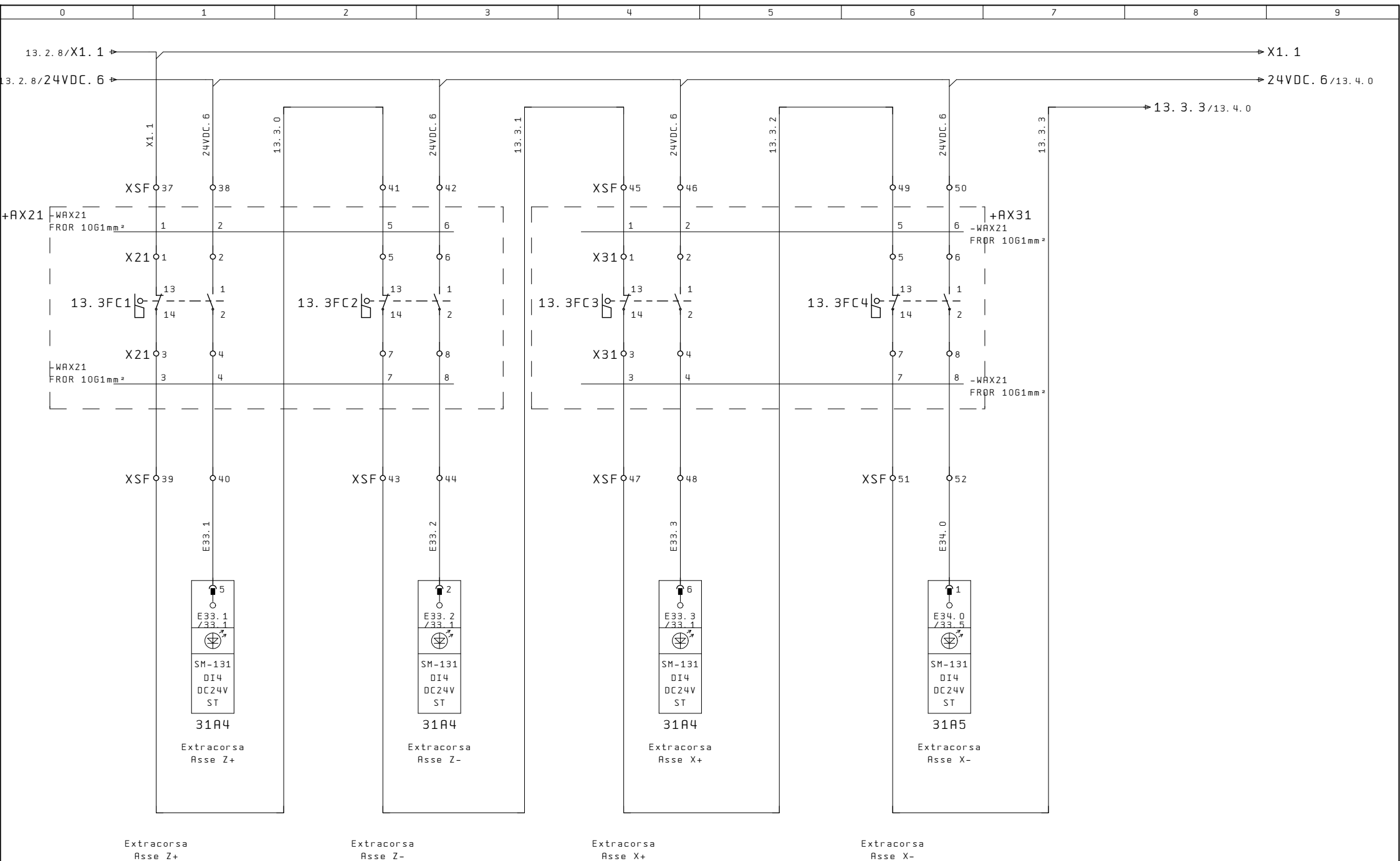


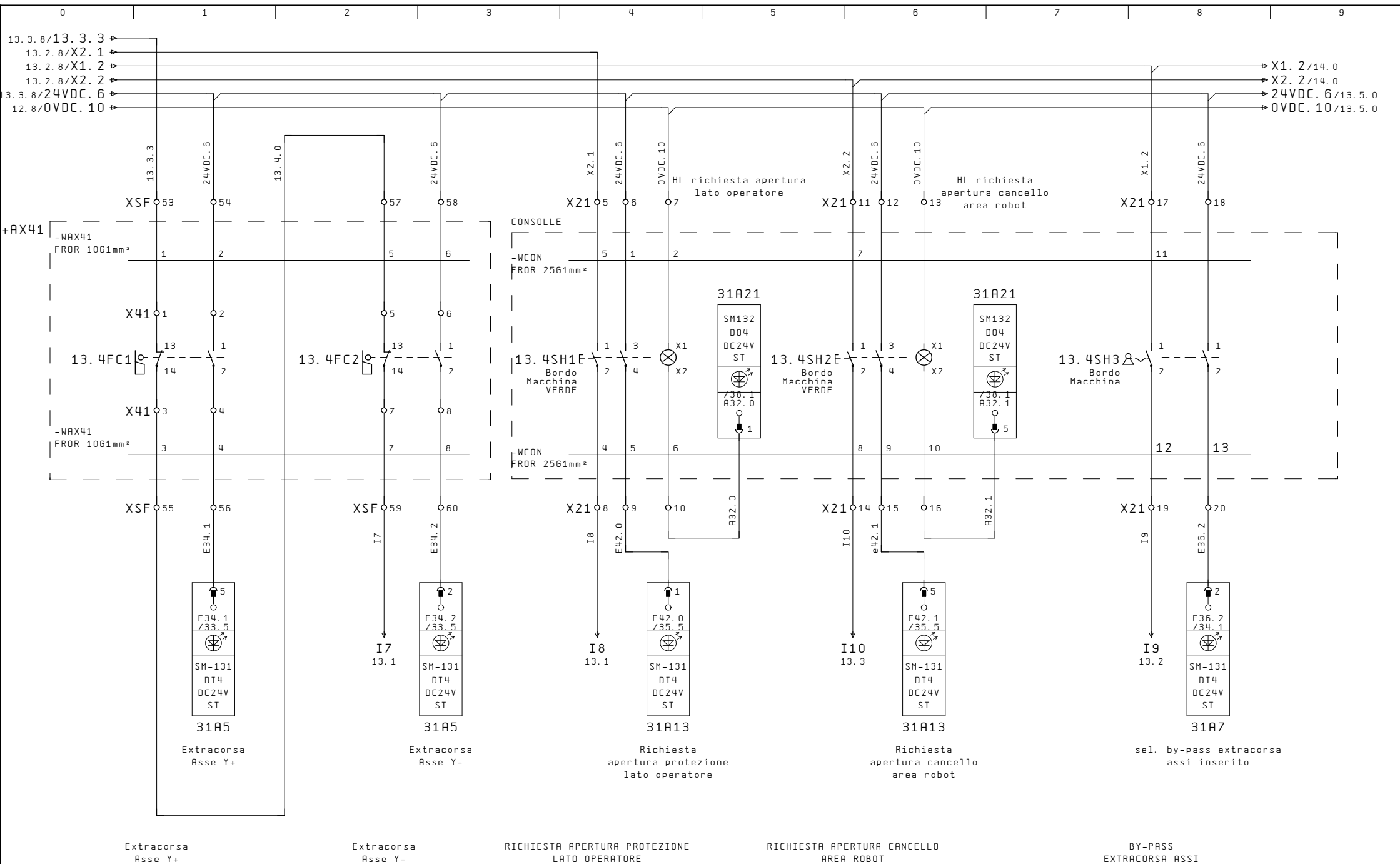


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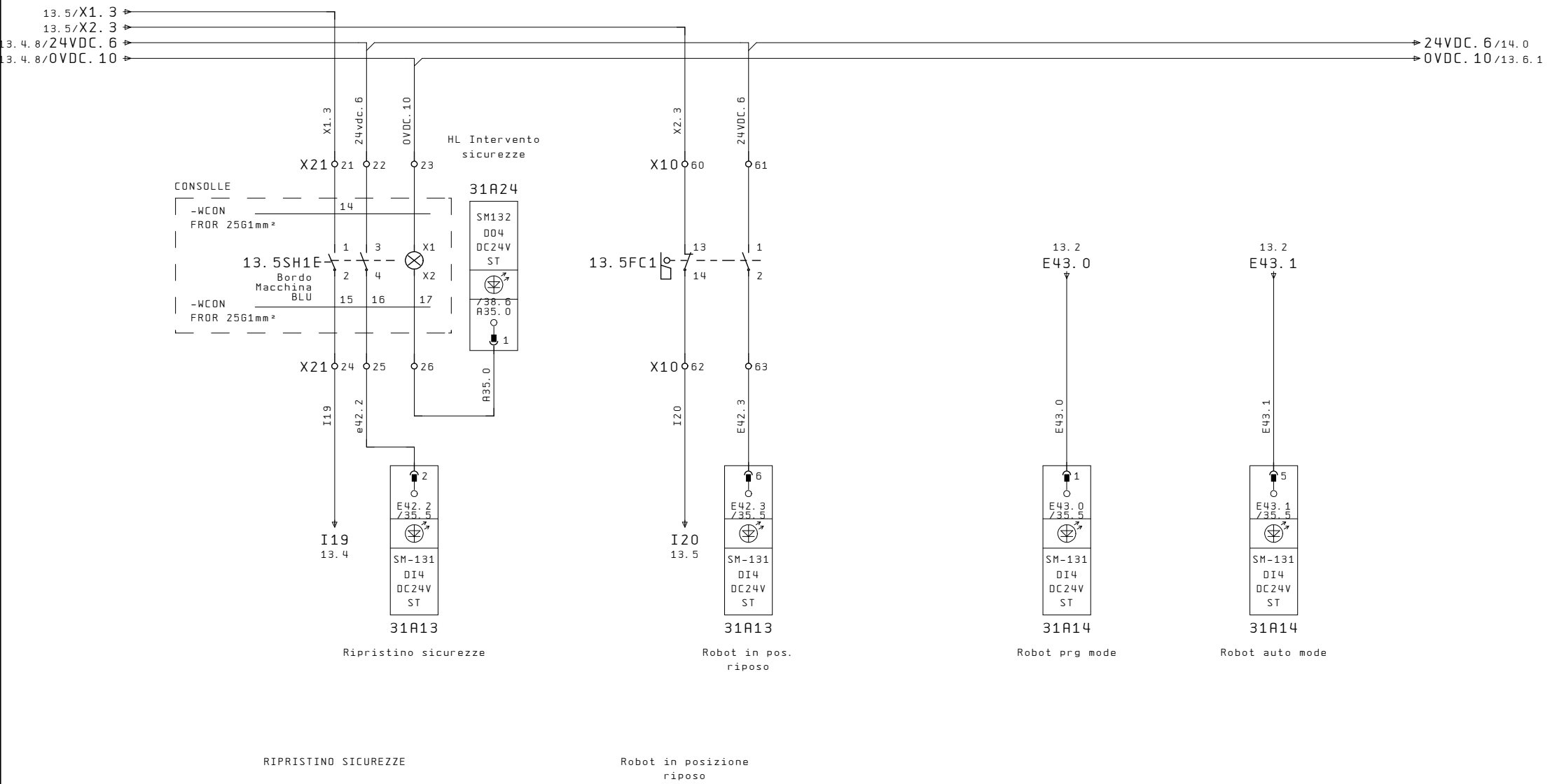
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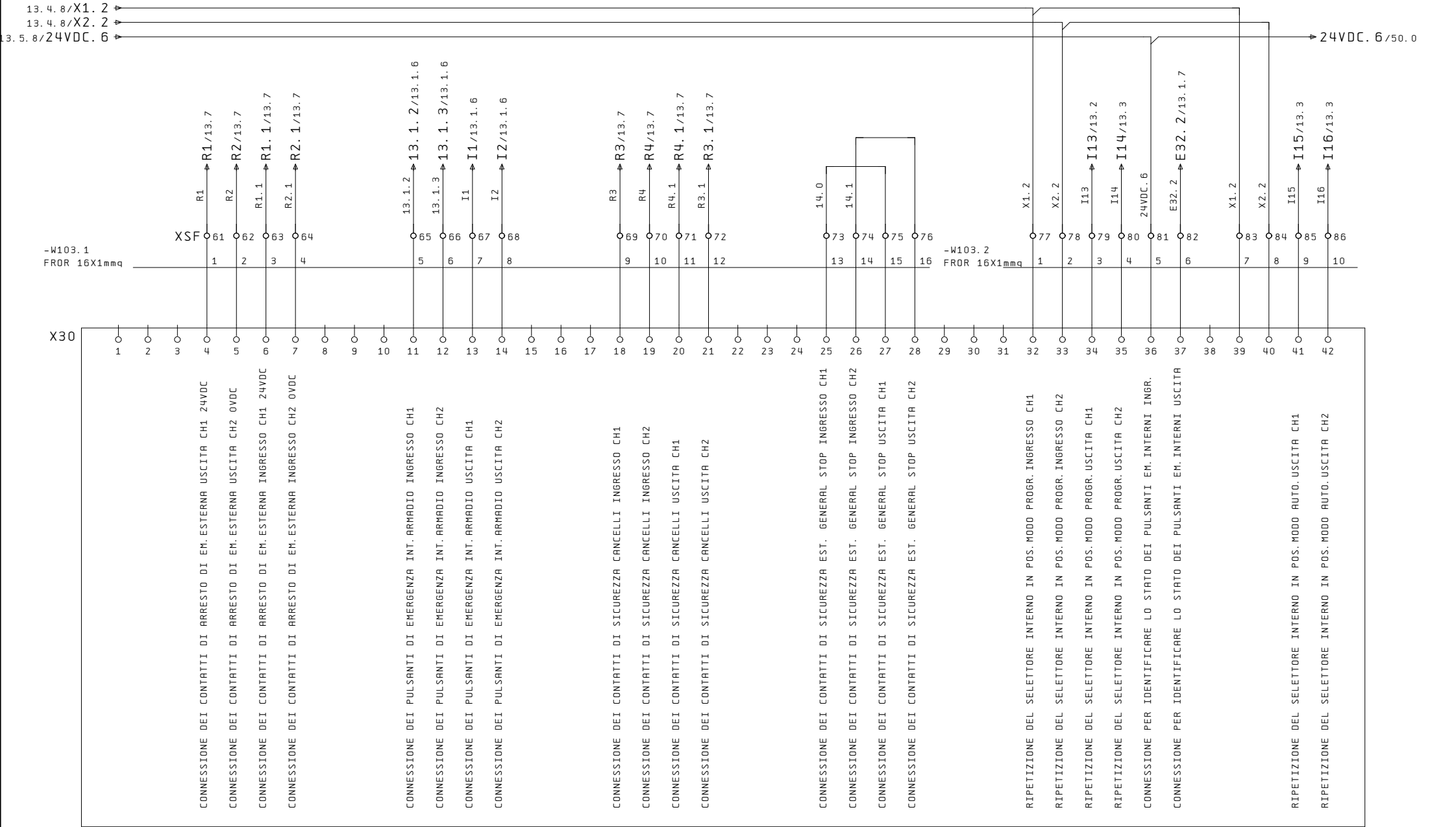


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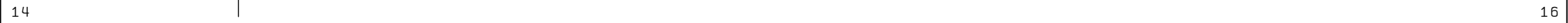




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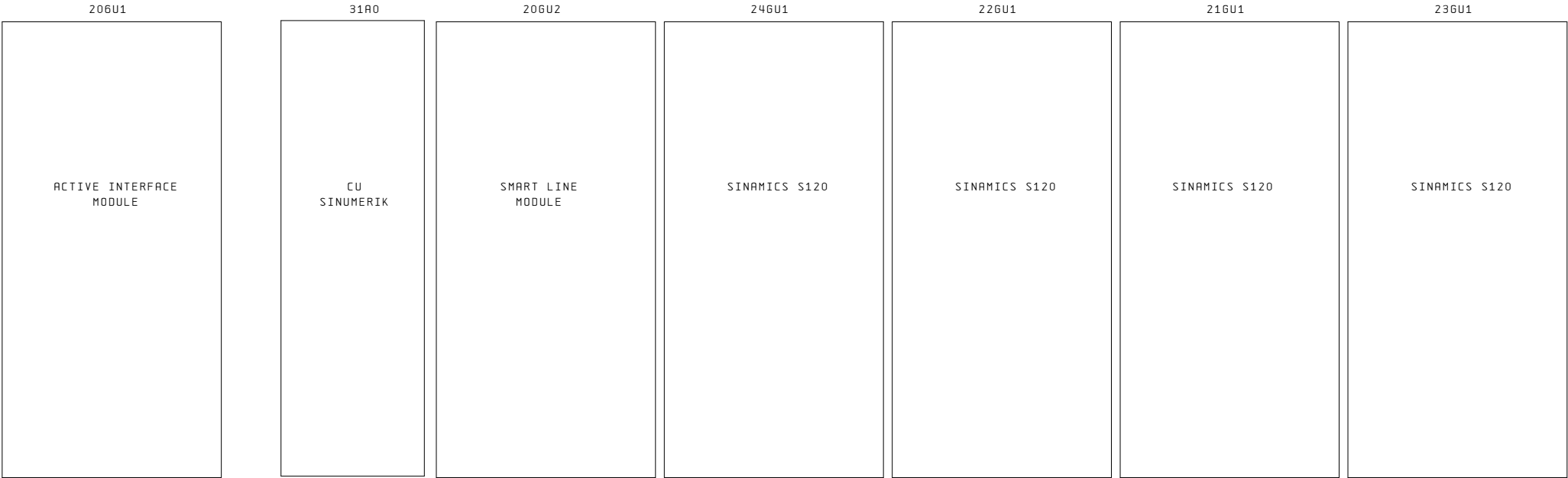
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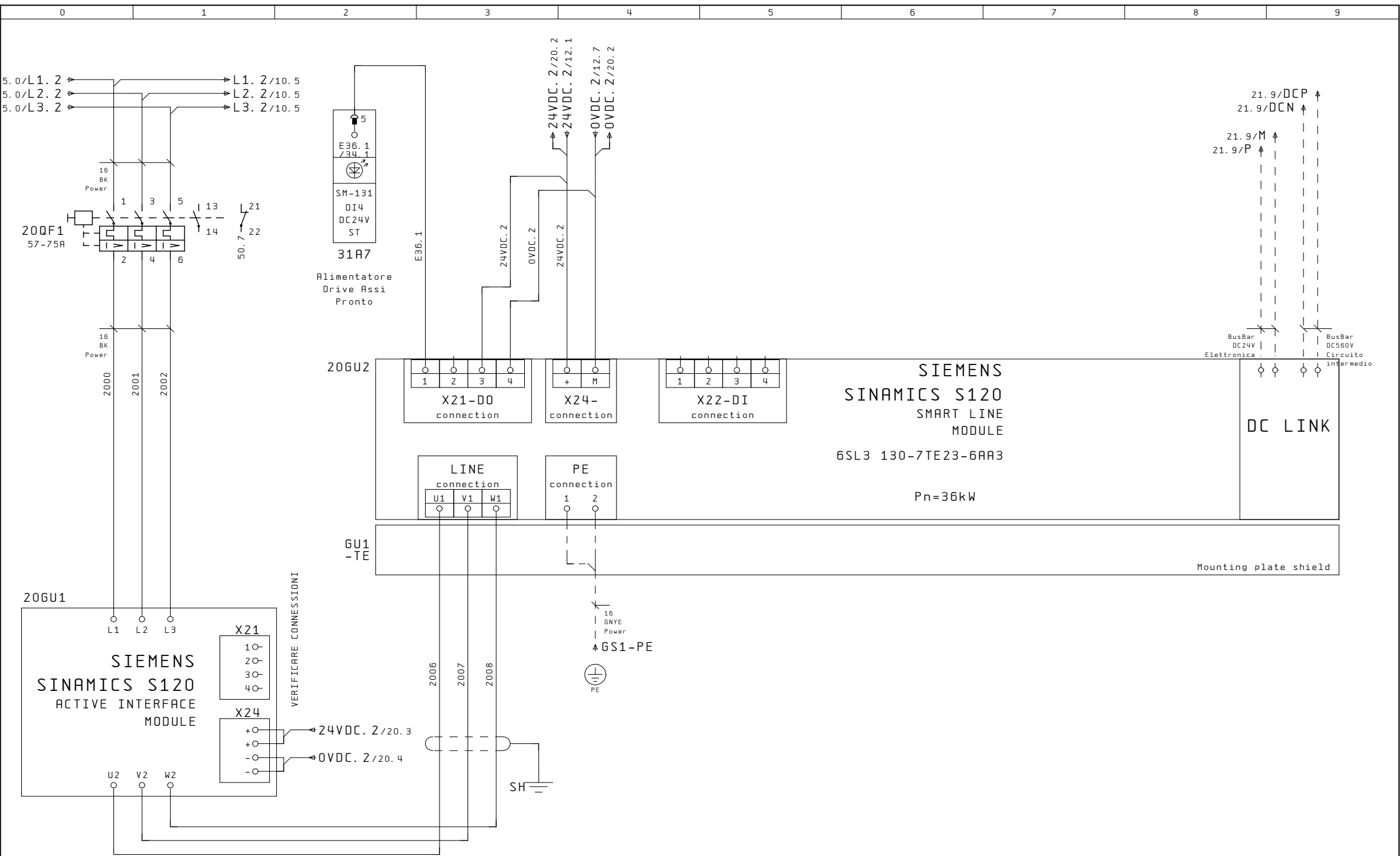
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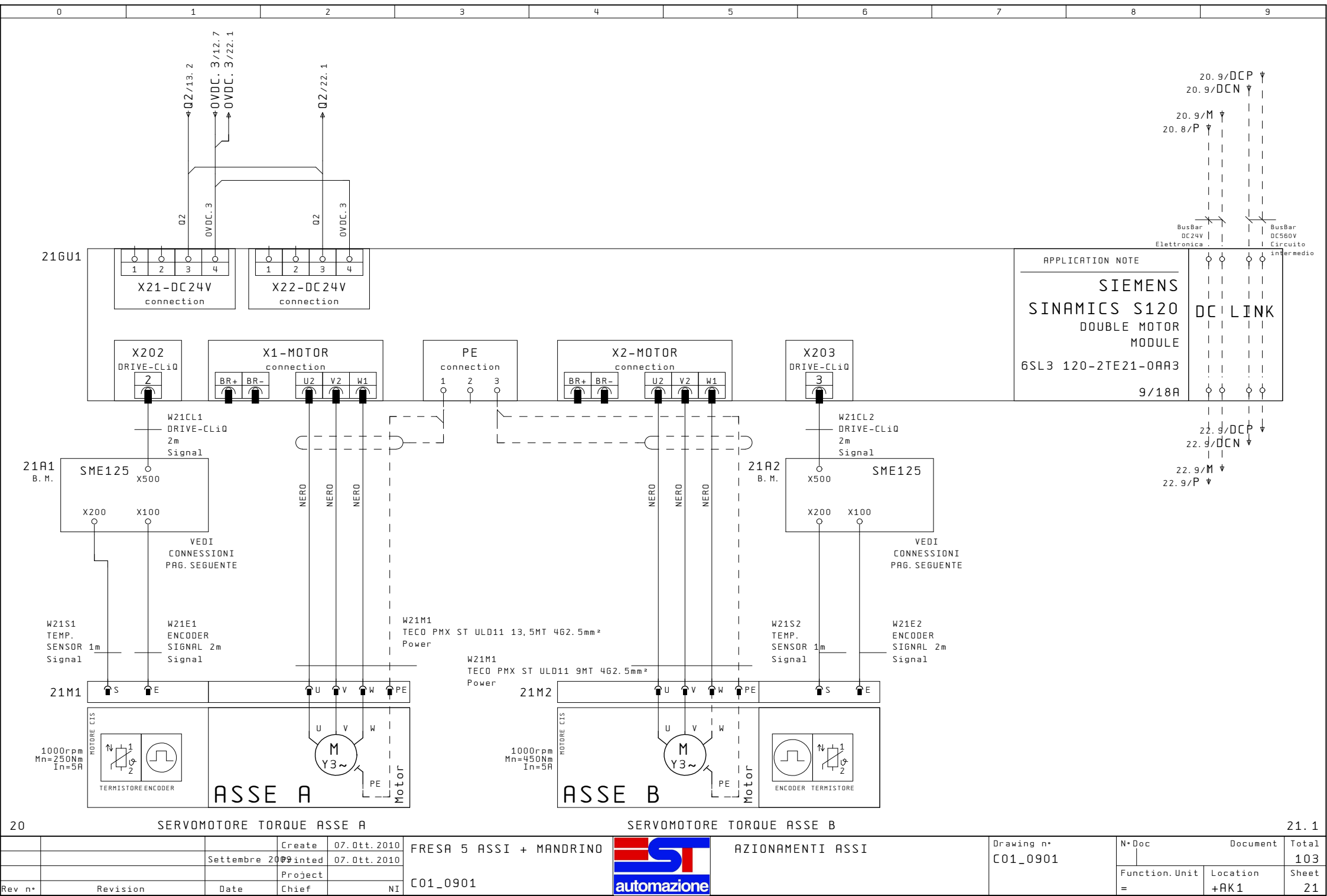
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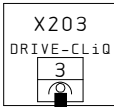
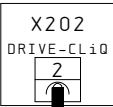
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Rev n°	Revision		Date	Chief	NI	C01_0901			=		+AK1	18A





COLLEGAMENTO VALIDO PER ASSI A/B
MOTORI TORQUE CIS MONTATI SU GRUPPI DELKEN

21GU1



ASSE A

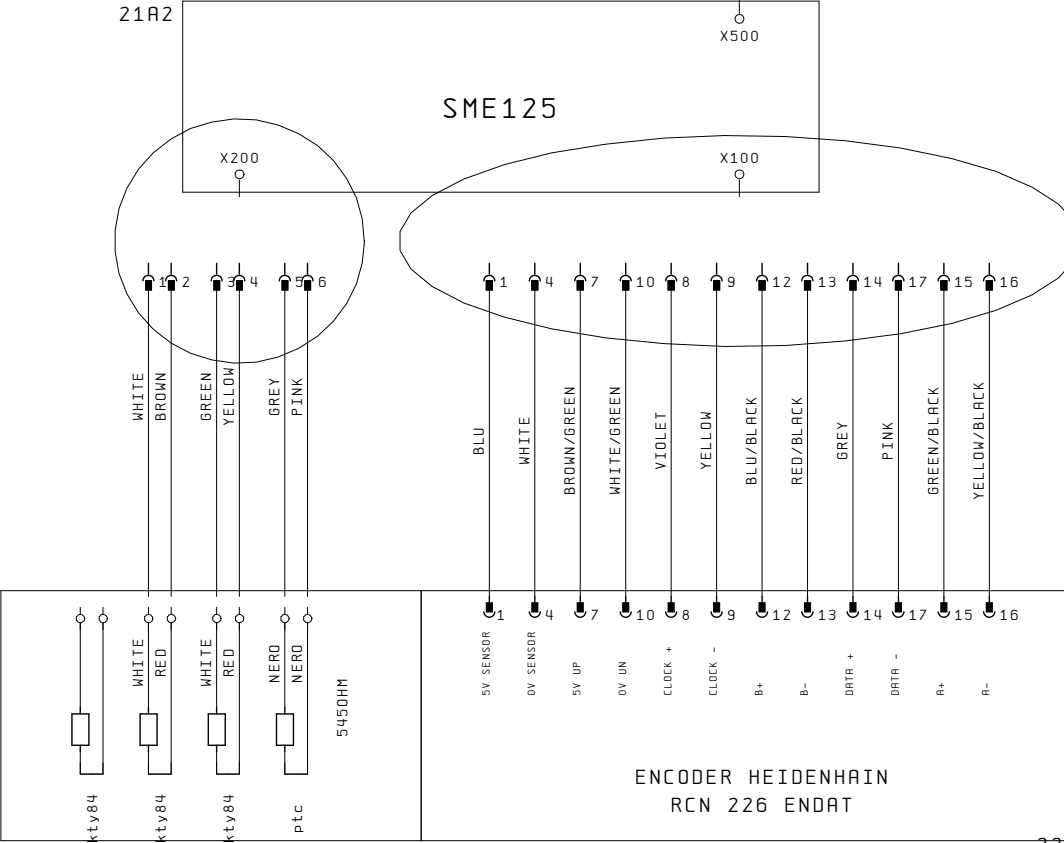
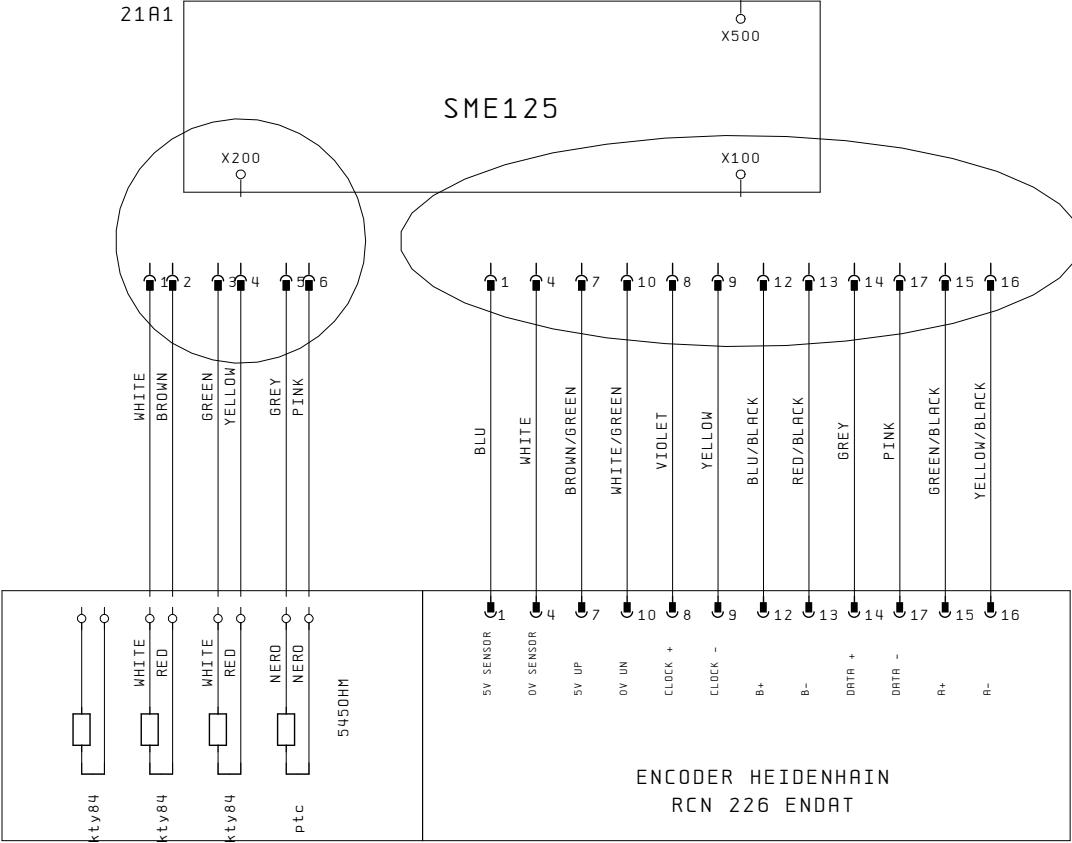
ASSE B

21A1

21A2

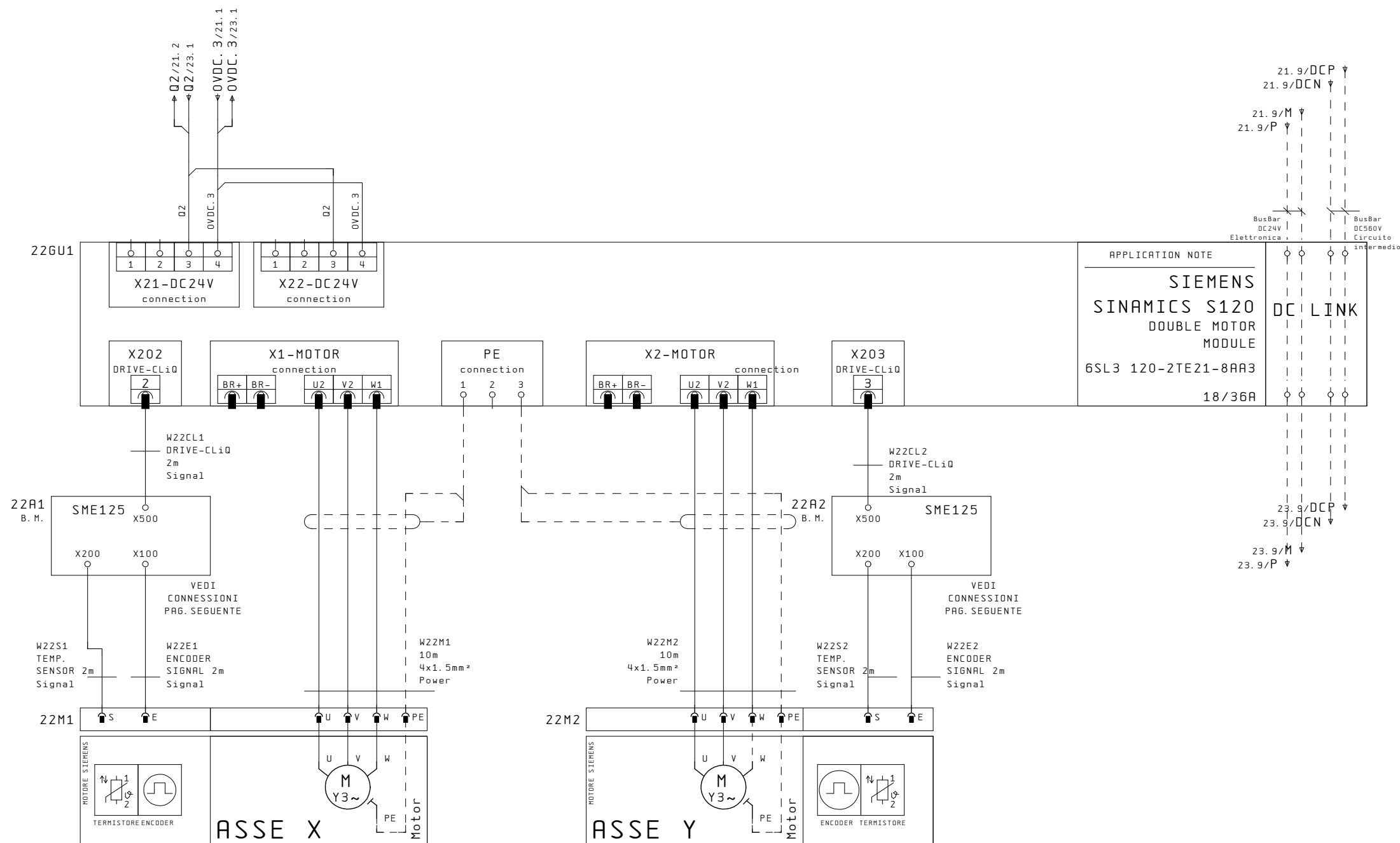
SME125

SME125



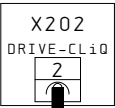
21

22



COLLEGAMENTO VALIDO PER ASSI X/Y
MOTORI LINEARI SIEMENS

22GU1



ASSE X

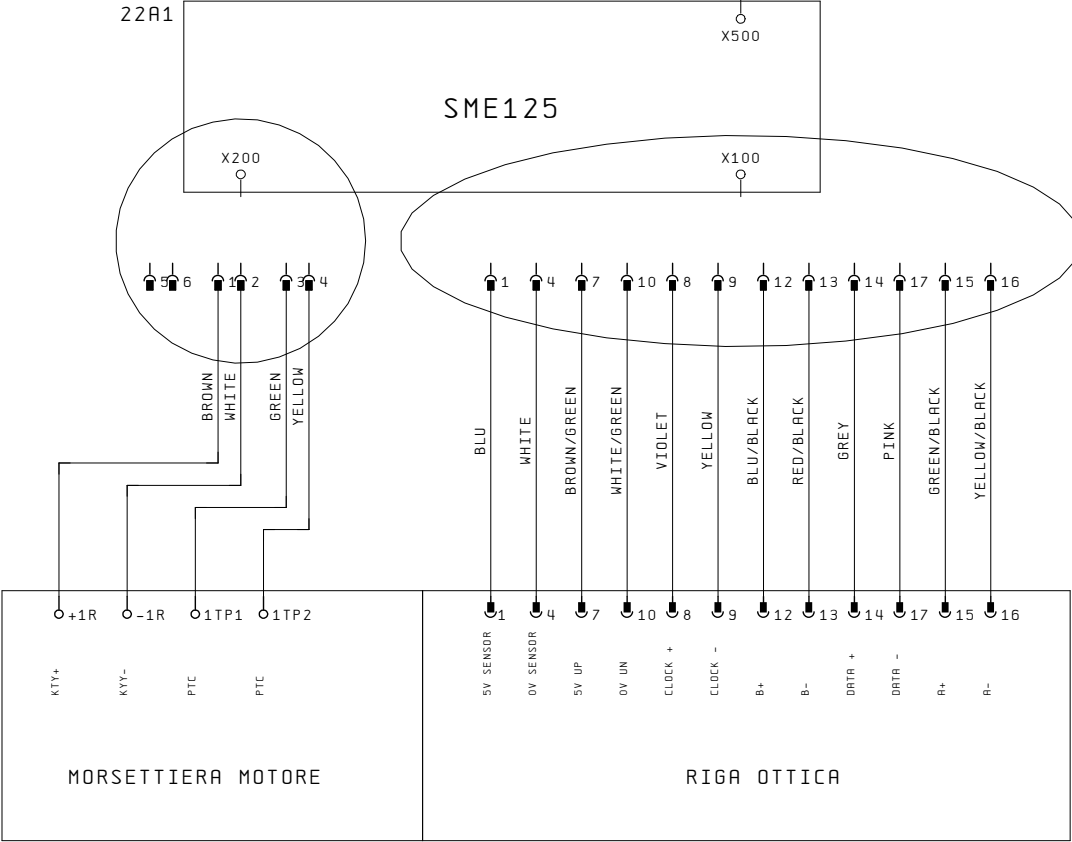
ASSE Y

22A1

22A2

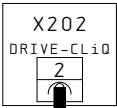
SME125

SME125



COLLEGAMENTO VALIDO PER ASSE Z
MOTORE LINEARE SIEMENS

23GU1



ASSE Z

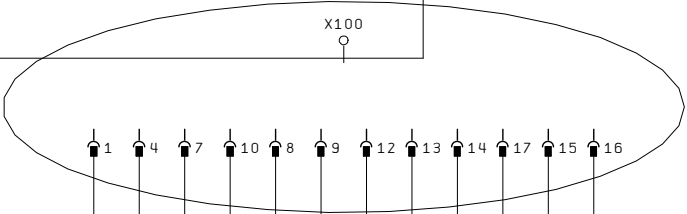
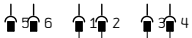
23A1

X500

SME125

X200

X100



BROWN
WHITE
GREEN
YELLOW



BLU
WHITE
BROWN/GREEN
WHITE/GREEN
VIOLET
YELLOW
BLU/BLACK
RED/BLACK
GREY
PINK
GREEN/BLACK
YELLOW/BLACK

O+1R O-1R O1TP1 O1TP2

KTY+ KTY- PTC PTC

MORSETTIERA MOTORE

C1 C4 C7 C10 C8 C9 C12 C13 C14 C17 C15 C16

5V SENSOR
0V SENSOR
5V UP
0V UN
CLOCK +
CLOCK -
B+
B-
DATA +
DATA -
A+
A-

RIGA OTTICA

23

			Create	07. Ott. 2010
		Settembre 2009	Printed	07. Ott. 2010
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Rev n°	Revision	Date	Chief	NI

FRESA 5 ASSI + MANDRINO
C01_0901



COLLEGAMENTI ASSI X/Y

Drawing n°
C01_0901

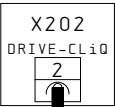
N° Doc	Document
Function. Unit	Location
=	+AK1

24

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Sheet
23. 1

COLLEGAMENTO VALIDO
MOTORE MANDRINO

24GU1



MOTORE
MANDRINO

24A1

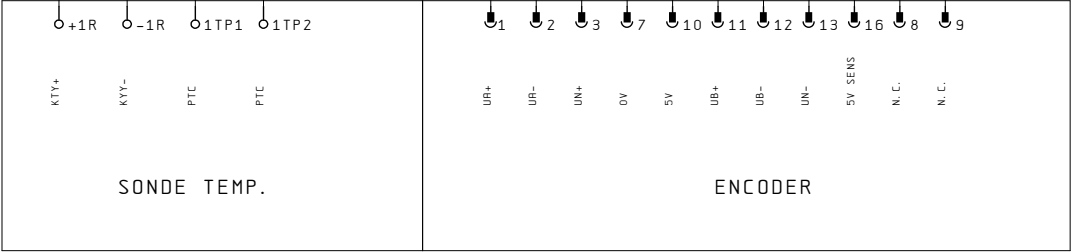
X500

SME120

X200

X100

+RX2



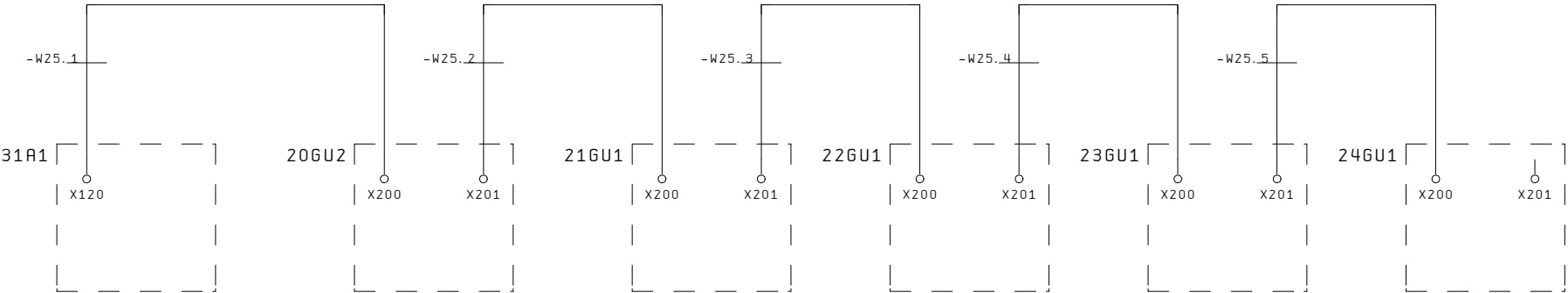
SONDE TEMP.

ENCODER

24

25

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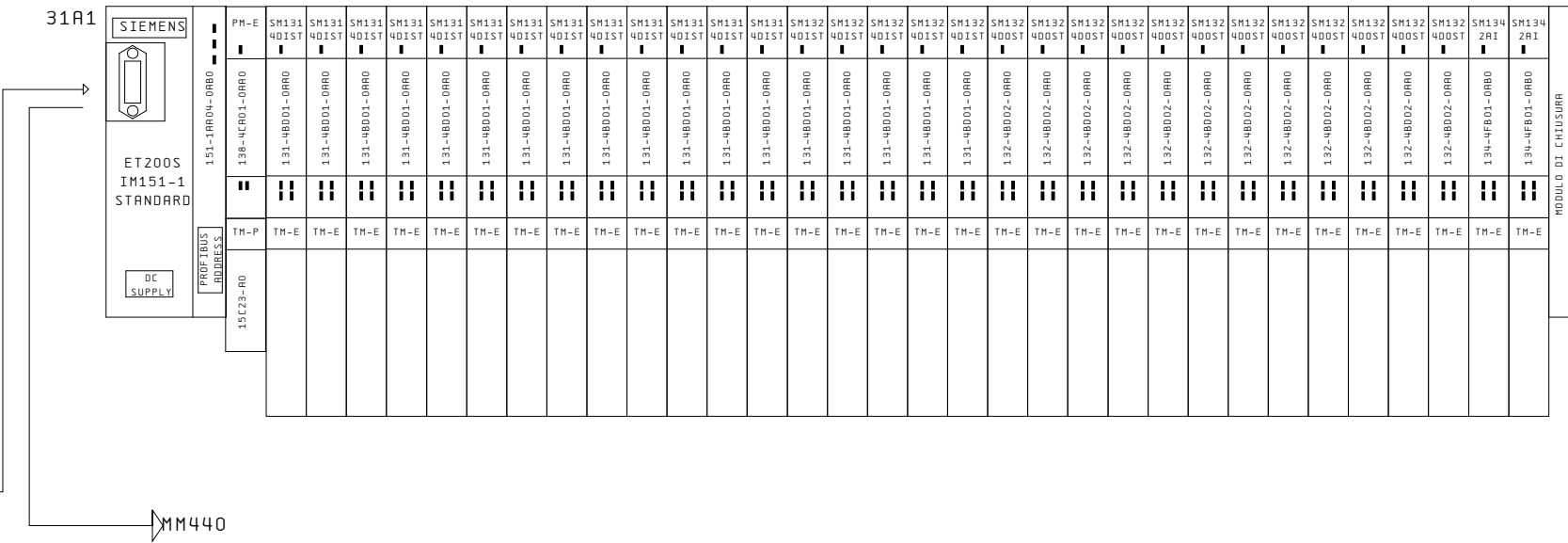
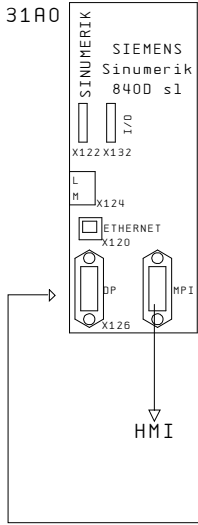


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27														30
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Rev n°	Revision		Date	Chief					NI	C01_0901	=	+AK1		28



Pin-out	Riferimenti incrociati		Pin-out	Riferimenti incrociati	
Bit	Rif. incrociato	Funzione	Bit	Rif. incrociato	Funzione
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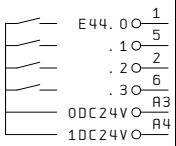
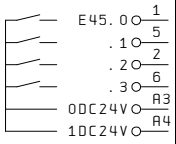
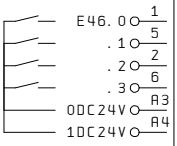
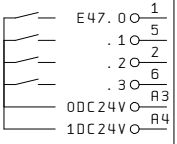
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Bit	Rif. incrociato	Funzione	
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	/50.8 /20.2 /13.4.8 /13.2.7	Magnetotermico Condizionatore Armadio Alimentatore Drive Assi Pronto Sel.By-pass extracorsa assi inserito Cancello Aperto Area Robot	
5			
31A8			
MODULO TERMINALE 6ES7 131-4BD01-0AA0 TIPO TM-E 15C26-A1			
	/84.1 /84.2 /84.3 /84.4	Flussostato asse X Flussostato asse Y Flussostato asse Z Flussostato asse A	
6			

Pin-out		Riferimenti incrociati	
Bit	Rif. incrociato	Funzione	
31A9			
MODULO TERMINALE 6ES7 131-4BD01-0AA0 TIPO TM-E 15C26-A1			
	/80.2 /80.4 /80.6 /81.2	Adduzione olio 1 Refrigerante AP. Adduzione olio 1 Refrigerante CH. Adduzione olio 2 Refrigerante AP. Livello Max Vasca Refrigerante	
7			
31A10			
MODULO TERMINALE 6ES7 131-4BD01-0AA0 TIPO TM-E 15C26-A1			
	/81.3 /81.5 /81.7 /80.8	Flussostato Refrigerante Esterno Pedale Mandrino Pedale Mandrino Adduzione olio 2 Refrigerante CH.	
8			

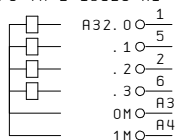
Pin-out	Riferimenti incrociati		Pin-out	Riferimenti incrociati	
Bit	Rif. incrociato	Funzione	Bit	Rif. incrociato	Funzione
<div><div>31A11</div><div><div>MODULO TERMINALE</div><div>6ES7 131-4BD01-0AA0</div><div>TIPO TM-E 15C26-A1</div><div><div><div><div></div><div>E40.00</div><div>$\frac{1}{5}$</div></div><div>/82.2</div><div>Portapezzo aperto</div></div><div><div><div></div><div>.10</div><div>$\frac{2}{5}$</div></div><div>/82.3</div><div>Portapezzo chiuso</div></div><div><div><div></div><div>.20</div><div>$\frac{2}{6}$</div></div><div>/82.5</div><div>Pressostato portamole</div></div><div><div><div></div><div>.30</div><div>$\frac{6}{6}$</div></div><div>/82.6</div><div>Pressostato mandrino</div></div><div><div><div></div><div>0DC24VO</div><div>$\frac{A3}{A4}$</div></div></div><div><div></div><div>1DC24VO</div><div>$\frac{A4}{A4}$</div></div></div></div><div>9</div></div>					
<div><div>31A12</div><div><div>MODULO TERMINALE</div><div>6ES7 131-4BD01-0AA0</div><div>TIPO TM-E 15C26-A1</div><div><div><div><div></div><div>E41.00</div><div>$\frac{1}{5}$</div></div><div>/82.8</div><div>Livello Max Centralina Oleodinamica</div></div><div><div><div></div><div>.10</div><div>$\frac{2}{5}$</div></div><div>/83.2</div><div>Pressostato Pinza</div></div><div><div><div></div><div>.20</div><div>$\frac{2}{6}$</div></div><div>/83.3</div><div>Pressostato tavola verticale</div></div><div><div><div></div><div>.30</div><div>$\frac{6}{6}$</div></div><div>/83.5</div><div>Pressostato tavola orizzontale</div></div><div><div><div></div><div>0DC24VO</div><div>$\frac{A3}{A4}$</div></div></div><div><div></div><div>1DC24VO</div><div>$\frac{A4}{A4}$</div></div></div></div><div>10</div></div>					
<div><div>31A13</div><div><div>MODULO TERMINALE</div><div>6ES7 131-4BD01-0AA0</div><div>TIPO TM-E 15C26-A1</div><div><div><div><div></div><div>E42.00</div><div>$\frac{1}{5}$</div></div><div>/13.4.4</div><div>richiesta apertura prot.lato operatore</div></div><div><div><div></div><div>.10</div><div>$\frac{2}{5}$</div></div><div>/13.4.6</div><div>Richiesta apertura cancello area robot</div></div><div><div><div></div><div>.20</div><div>$\frac{2}{6}$</div></div><div>/13.5.2</div><div>Ripristino Sicurezza</div></div><div><div><div></div><div>.30</div><div>$\frac{6}{6}$</div></div><div>/13.5.4</div><div>Robot in posizione riposo</div></div><div><div><div></div><div>0DC24VO</div><div>$\frac{A3}{A4}$</div></div></div><div><div></div><div>1DC24VO</div><div>$\frac{A4}{A4}$</div></div></div></div><div>11</div></div>					
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0	1	2	3	4	5	6	7	8	9
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Pin-out		Riferimenti incrociati	
Bit	Rif. incrociato	Funzione	
31A15			
MODULO TERMINALE 6ES7 131-4BD01-0AA0 TIPO TM-E 15C26-A1			
	/83.8 /83.9 /85.7 /85.8	Pressostato olio dropsa Livello olio dropsa Sel MAN/AUTO PB Consenso comandi manuali	
13			
31A16			
MODULO TERMINALE 6ES7 131-4BD01-0AA0 TIPO TM-E 15C26-A1			
	/84.5 /84.6 /84.7 /84.8	Flussostato asse B Flussostato elettromandrino Flussostato rettifica mole Flussostato riserva	
14			
31A17			
MODULO TERMINALE 6ES7 131-4BD01-0AA0 TIPO TM-E 15C26-A1			
	/50.5 /50.6 /51.8	Magnetotermico Pompa raffr. mot. lineari Magnetotermico Pompa recupero olio Allarme tastatore	
15			
31A18			
MODULO TERMINALE 6ES7 131-4BD01-0AA0 TIPO TM-E 15C26-A1			
	/86.2 /86.3 /86.5 /86.6	Livello Max Pompa olio lavorazione Livello Min Pompa olio lavorazione Livello Min Pompa refrigerante Pressostato contrappeso	
16			

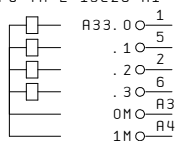
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Bit	Rif. incrociato	Funzione		Bit	Rif. incrociato	Funzione	
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<div>31A20</div> <div><div><div>MODULO TERMINALE</div><div>6ES7 131-4BD01-0AA0</div><div>TIPO TM-E 15C26-A1</div><div><div><div><div></div><div>E49.00</div><div><div>1</div><div>5</div></div></div><div><div></div><div>.10</div><div><div>2</div><div>6</div></div></div><div><div></div><div>.20</div><div><div>2</div><div>6</div></div></div><div><div></div><div>.30</div><div><div>6</div><div>A3</div></div></div><div><div></div><div>.30</div><div><div>A3</div><div>A4</div></div></div><div><div></div><div>00C24V</div><div><div>A3</div><div>A4</div></div></div><div><div></div><div>10C24V</div><div><div>A4</div><div>A4</div></div></div></div></div><div>18</div></div></div>							

Bit	Rif. incrociato	Funzione
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HL richiesta apertura prot. lato op.
HL richiesta apertura cancello area robot
Ciclo fresa Run

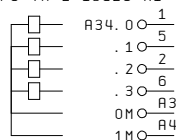
21



KM Ventola Raffr. Centralina Oleodinamica
KM pompa raffr. motori lineari
KM pompa recupero olio

22

Bit	Rif. incrociato	Funzione
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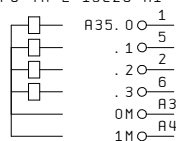


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Segnalazione Allarme
Segnalazione Preallarme
Segnalazione Macchina Pronta
Segnalazione Macchina Avviata

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23



HL intervento sicurezze

24

Pin-out

Riferimenti incrociati

Bit

Rif. incrociato

Funzione

31A25

MODULO TERMINALE
6ES7 132-4BD02-0AA0
TIPO TM-E 15C26-A1

A36.00

.10

.20

.30

0M

1M

1

5

2

6

A3

A4

/51.7

Esclusione tastatore

25

31A26

MODULO TERMINALE
6ES7 132-4BD02-0AA0
TIPO TM-E 15C26-A1

A37.00

.10

.20

.30

0M

1M

1

5

2

6

A3

A4

/102.1.4

/102.1.5

/102.1.6

/102.1.7

EV AP.refrigerante mola 1
EV CH.refrigerante mola 1
EV AP.refrigerante mola 2
EV CH.refrigerante mola 2

26

Pin-out

Riferimenti incrociati

Bit

Rif. incrociato

Funzione

31A27

MODULO TERMINALE
6ES7 132-4BD02-0AA0
TIPO TM-E 15C26-A1

A38.00

.10

.20

.30

0M

1M

1

5

2

6

A3

A4

/100.2

/100.3

/100.4

/100.5

EV Apertura imp.refrigerante
KM motore centralina oleodinamica KM centralina lubrificazione
KM motore centralina oleodinamica KM centralina lubrificazione
Riserva

27

31A28

MODULO TERMINALE
6ES7 132-4BD02-0AA0
TIPO TM-E 15C26-A1

A39.00

.10

.20

.30

0M

1M

1

5

2

6

A3

A4

/100.6

/100.7

/100.8

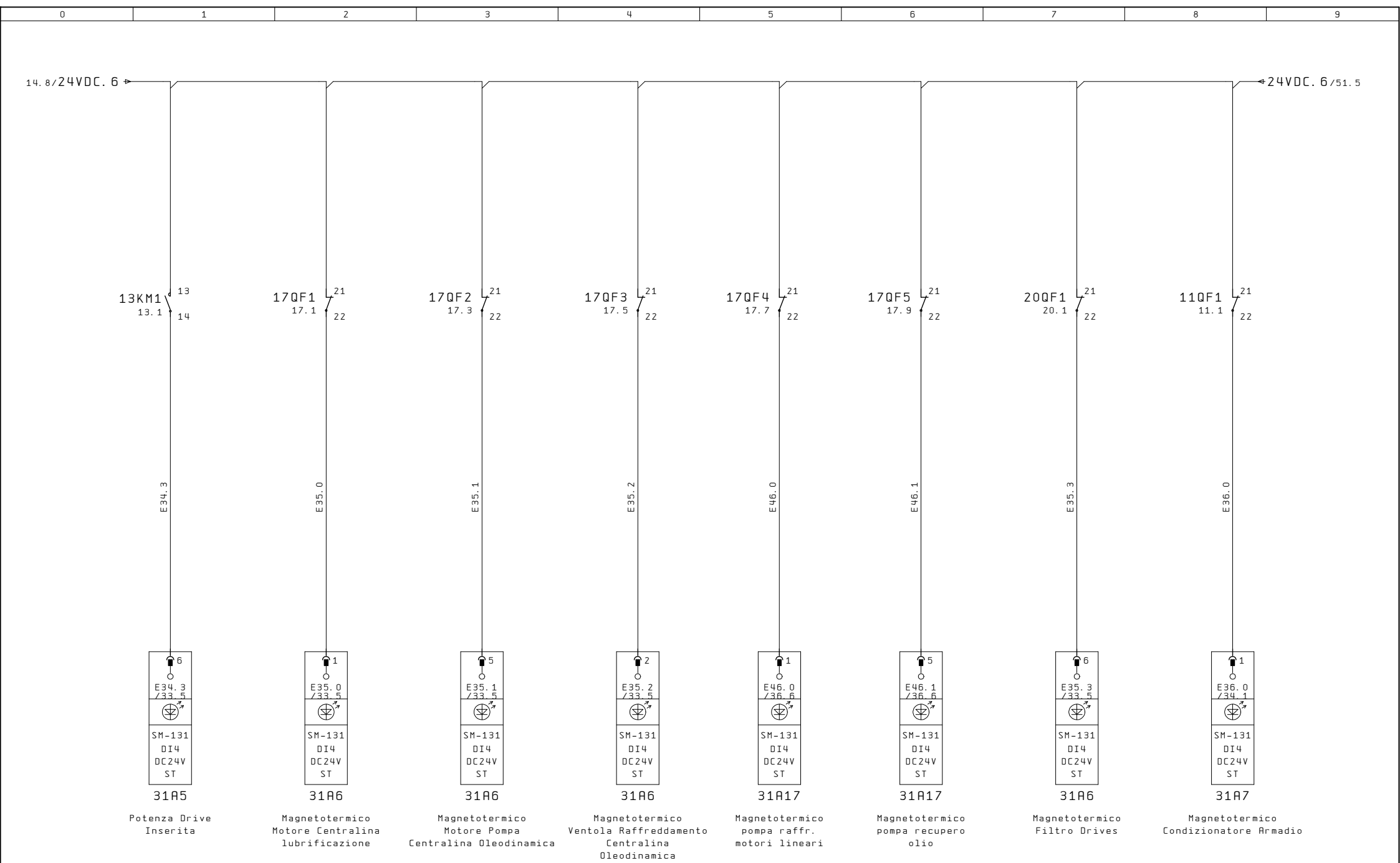
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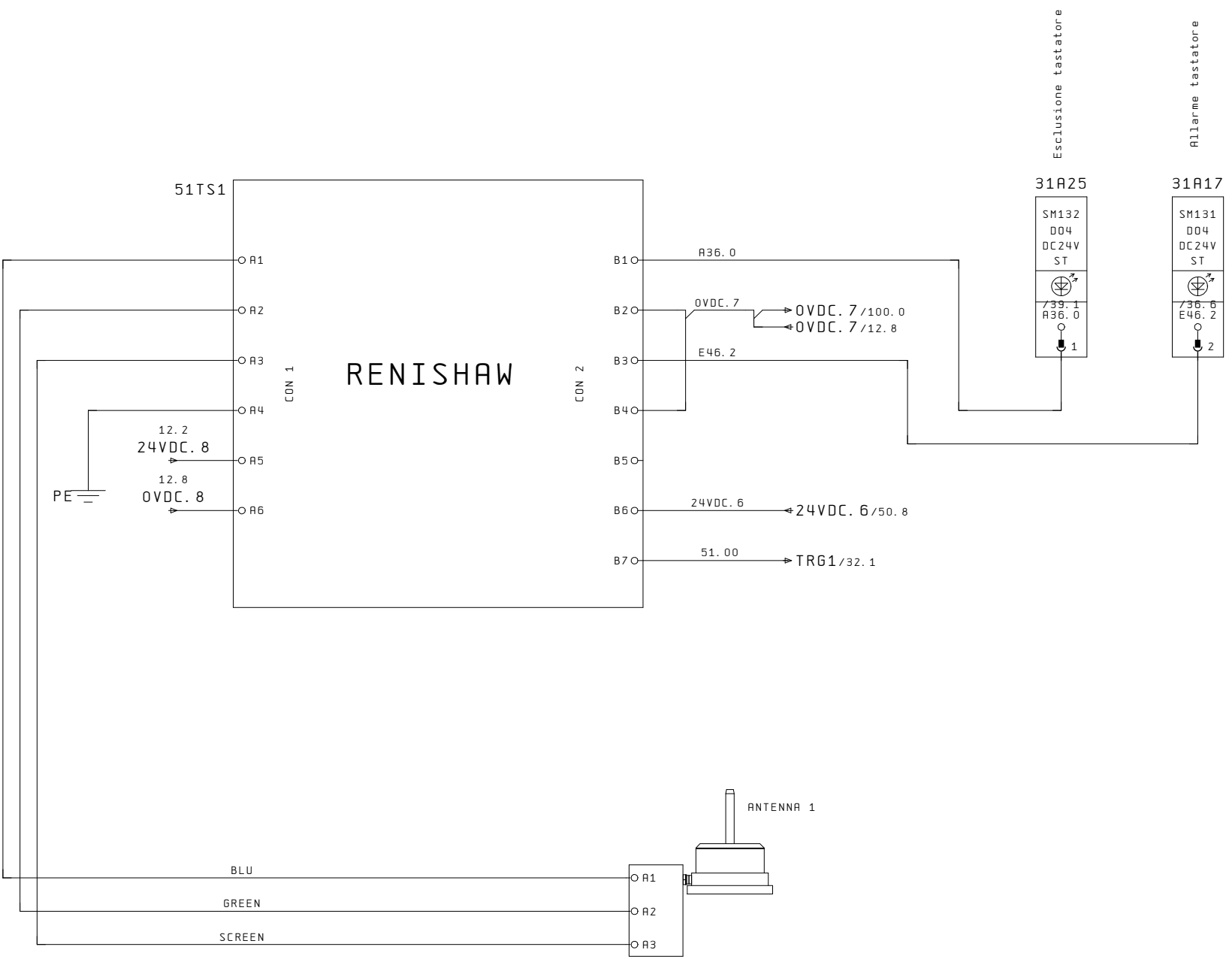
Apertura portamole
Chiusura portamole
Apertura portapezzo
Chiusura portapezzo

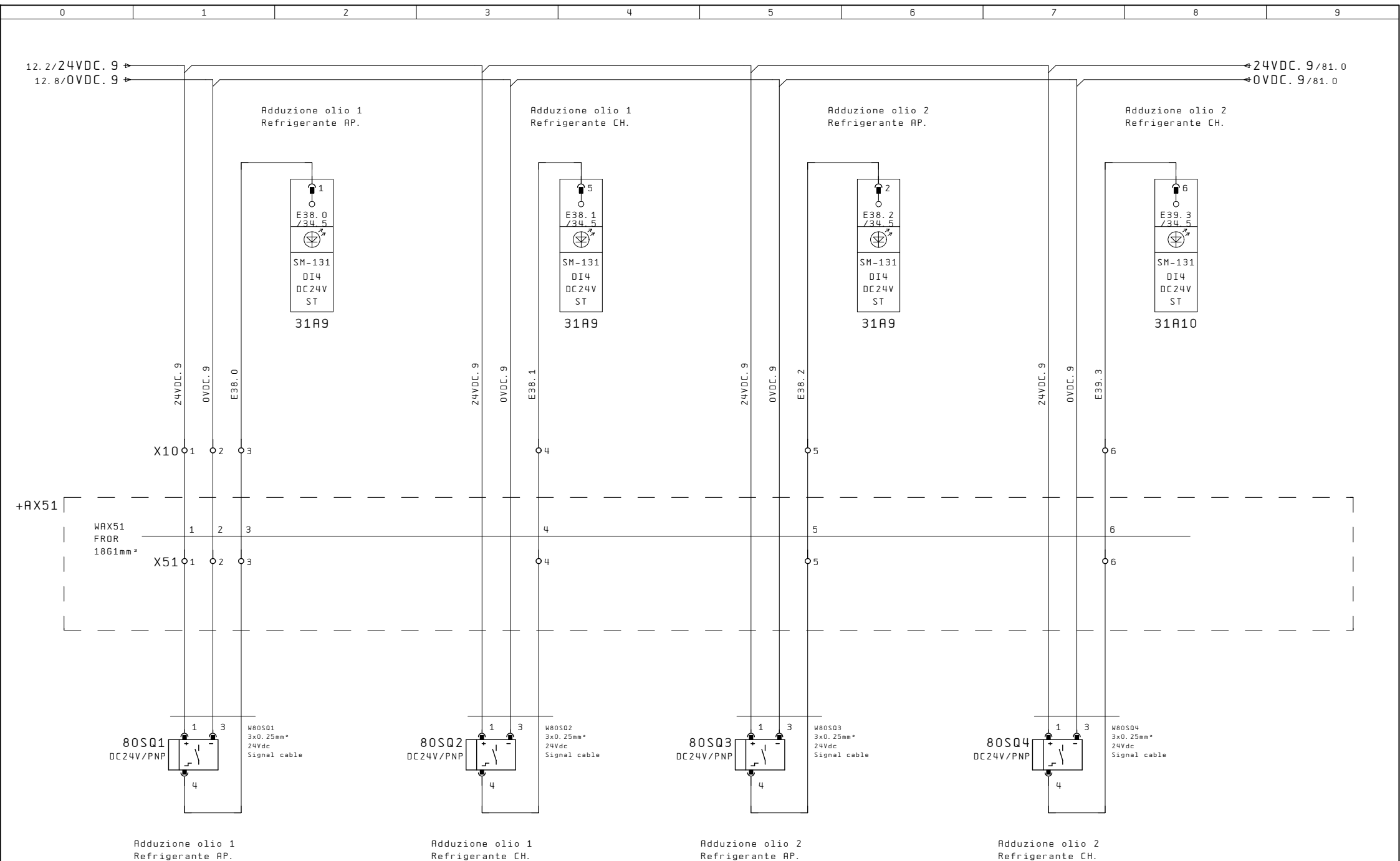
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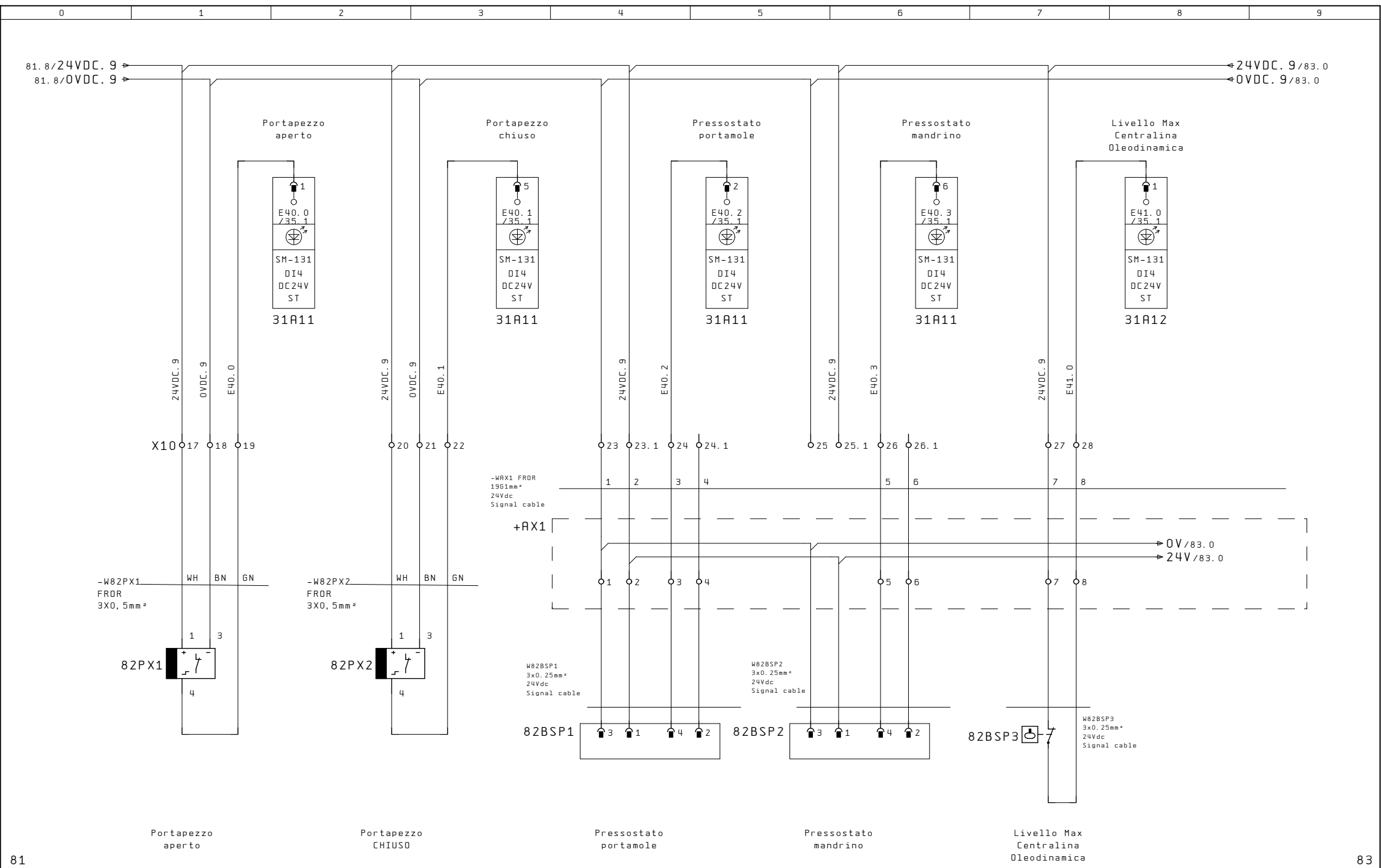
Pin-out		Riferimenti incrociati	
Bit	Rif. incrociato	Funzione	
31A29			
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29			
31A30			
<div><div>MODULO TERMINALE</div><div>6ES7 132-4BD02-0AA0</div><div>TIPO TM-E 15C26-A1</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div>A41.00</div><div>1</div><div>5</div><div>2</div><div>6</div><div>A3</div><div>A4</div></div><div><div>0MO</div><div>1MO</div></div></div></div> <div><div>/101.6</div><div>/101.7</div><div>/101.8</div><div>/101.8</div></div> <div><div>EV Sblocco freno asse Y</div><div>EV Bblocco freno asse Y</div><div>EV AP.protezione lato robot</div><div>EV CH.protezione lato robot</div></div>			
30			
31A31			
<div><div>MODULO TERMINALE</div><div>6ES7 132-4BD02-0AA0</div><div>TIPO TM-E 15C26-A1</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div>A42.00</div><div>1</div><div>5</div><div>2</div><div>6</div><div>A3</div><div>A4</div></div><div><div>0MO</div><div>1MO</div></div></div></div> <div><div>/102.2</div><div>/102.3</div><div>/102.4</div><div>/102.5</div></div> <div><div>EV Lubrificazione Asse A</div><div>EV Lubrificazione Asse B</div><div>EV Soffiera pulizia pezzo</div><div>EV Pressur.rettifica mola</div></div>			
31			
31A32			
<div><div>MODULO TERMINALE</div><div>6ES7 132-4BD02-0AA0</div><div>TIPO TM-E 15C26-A1</div><div><div><div></div><div></div><div></div><div></div><div></div><div></div></div><div><div>A43.00</div><div>1</div><div>5</div><div>2</div><div>6</div><div>A3</div><div>A4</div></div><div><div>0MO</div><div>1MO</div></div></div></div> <div><div>/102.6</div><div>/102.7</div><div>/102.8</div><div>/102.8</div></div> <div><div>EV Pressur.elettromandrino</div><div>EV Soffiera mandrino portapezzo</div><div>EV Soffiera mandrino portamole</div><div>EV Aria generale</div></div>			
32			

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Rev n°	Revision	Date	Chief	NI				C01_0901	=	+AK1





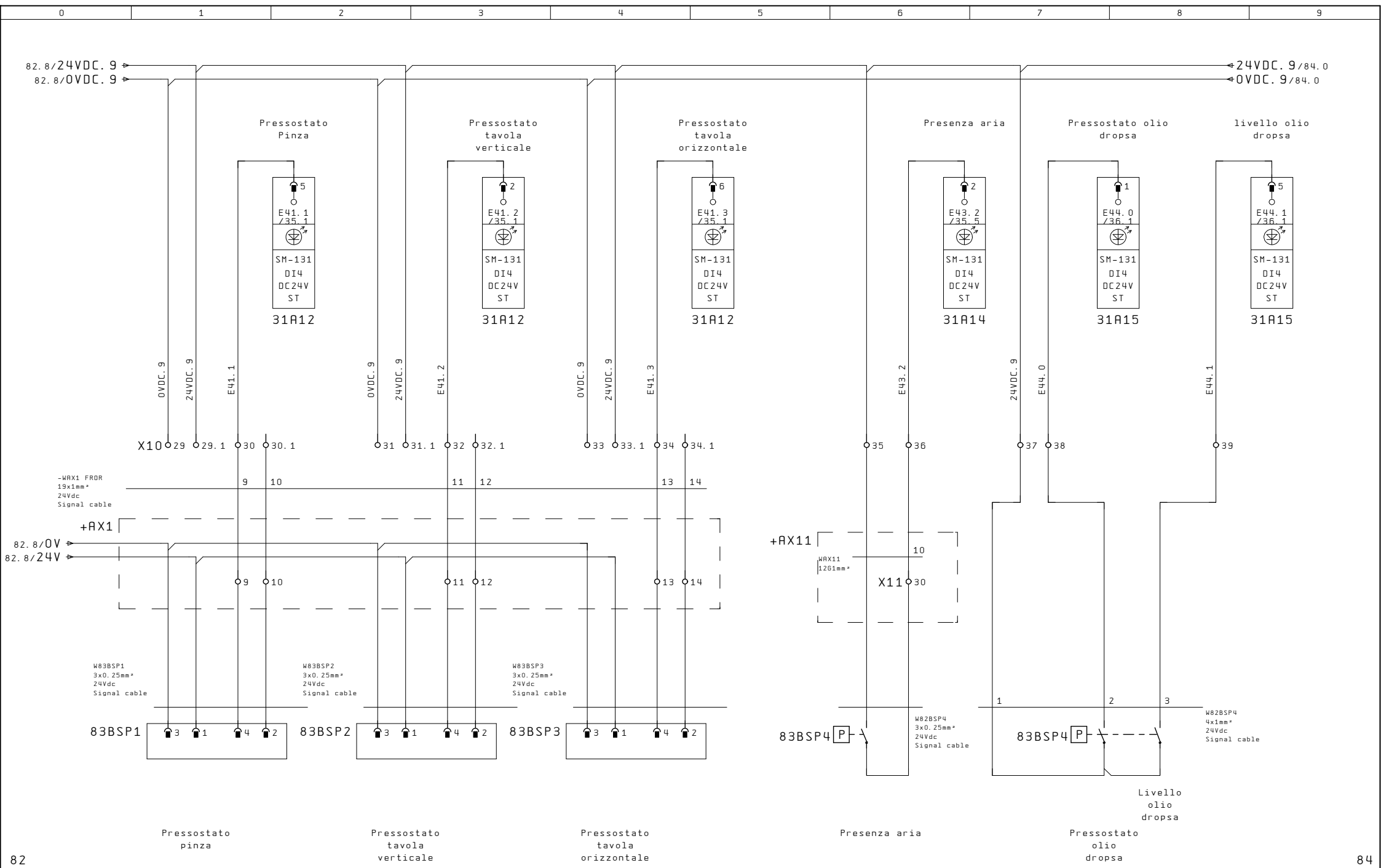


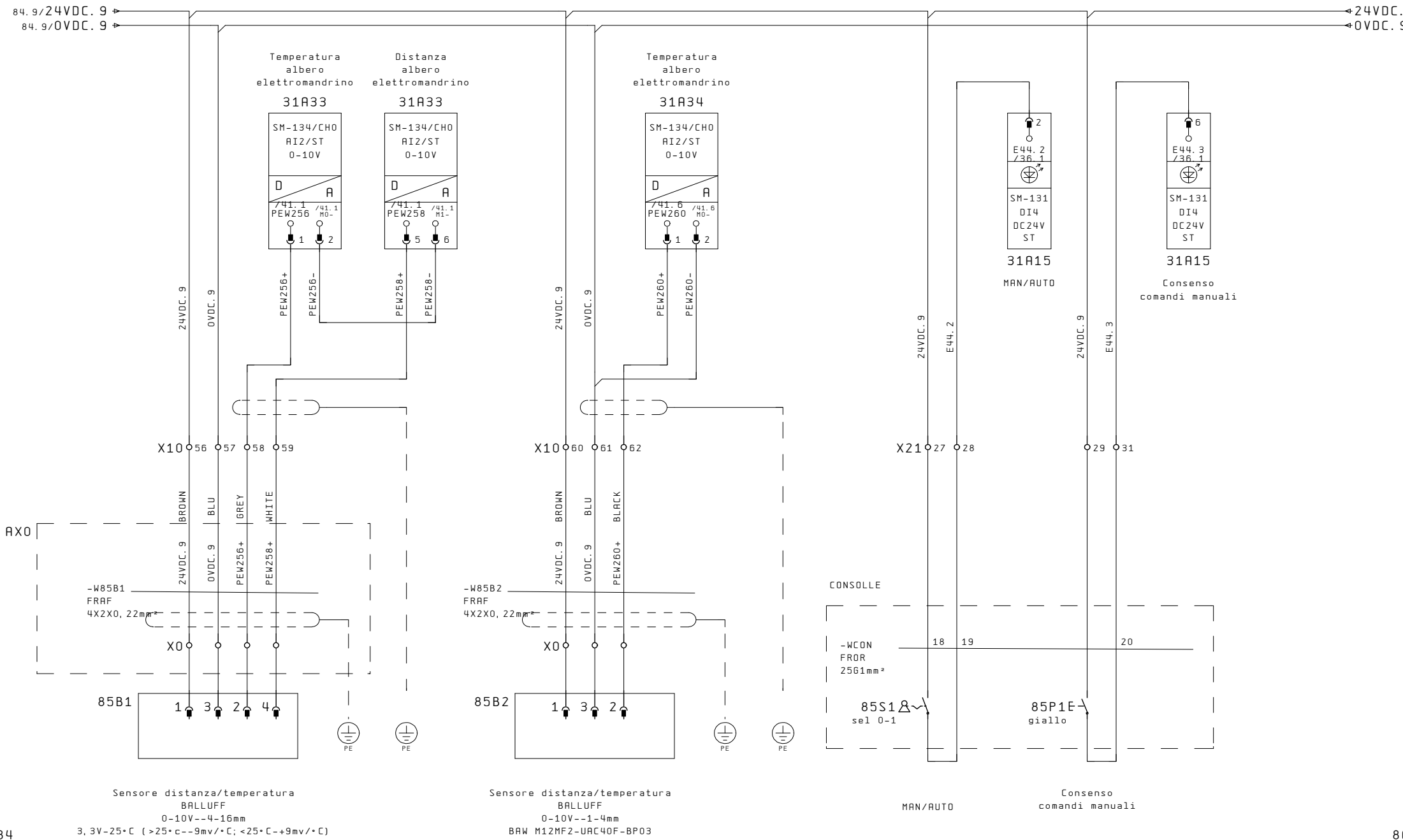


81

83

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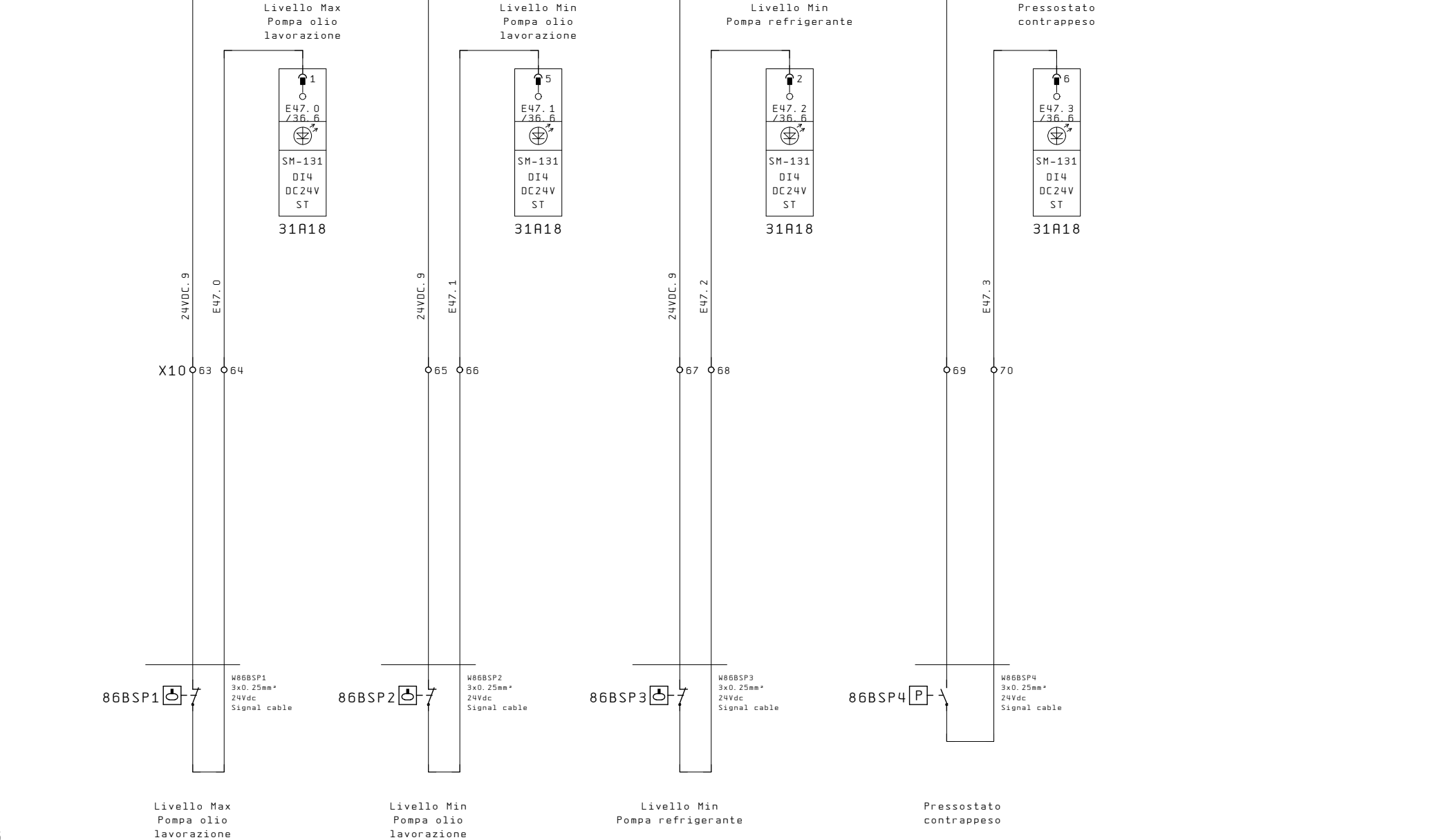


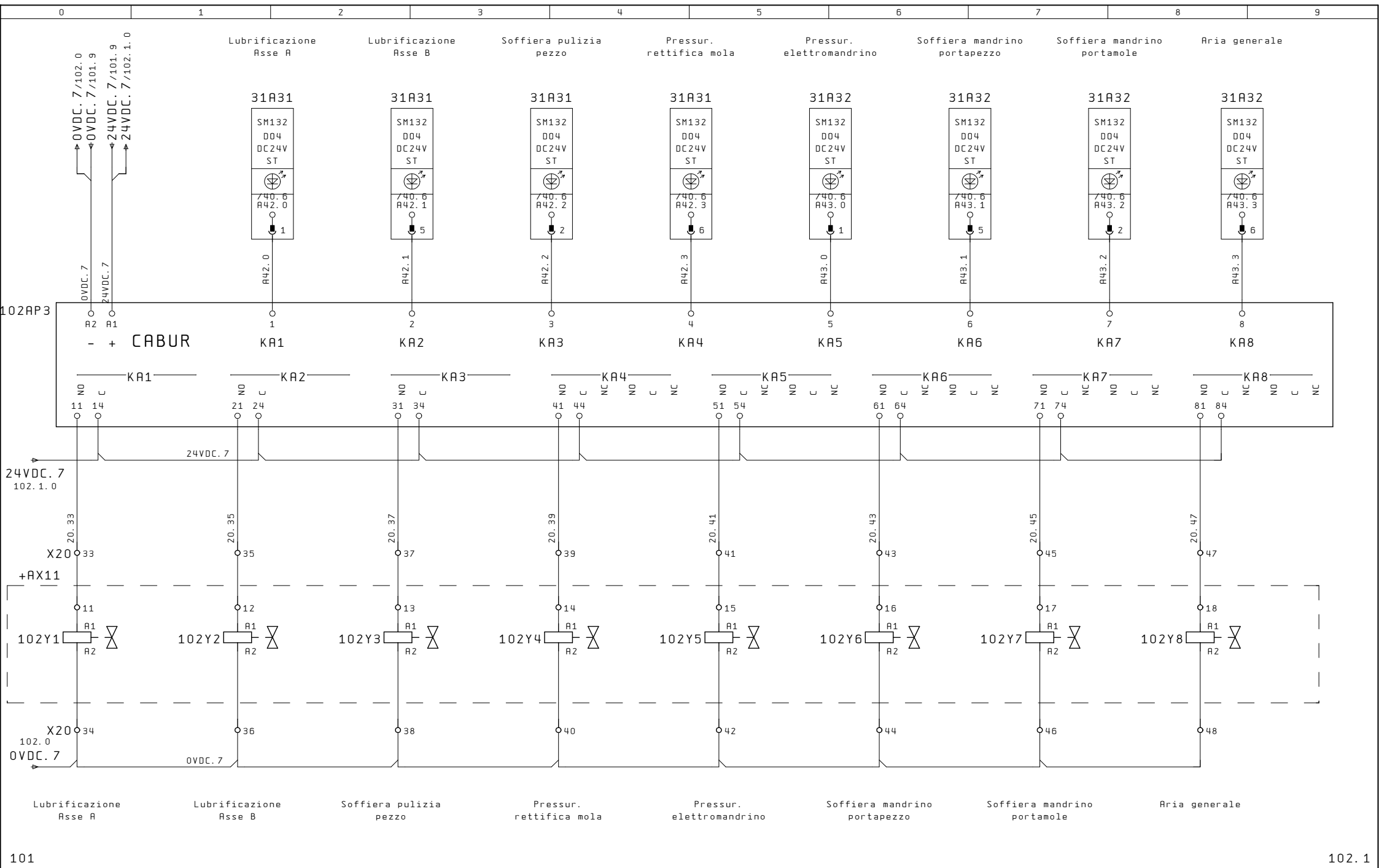
85. 9/24VDC. 9

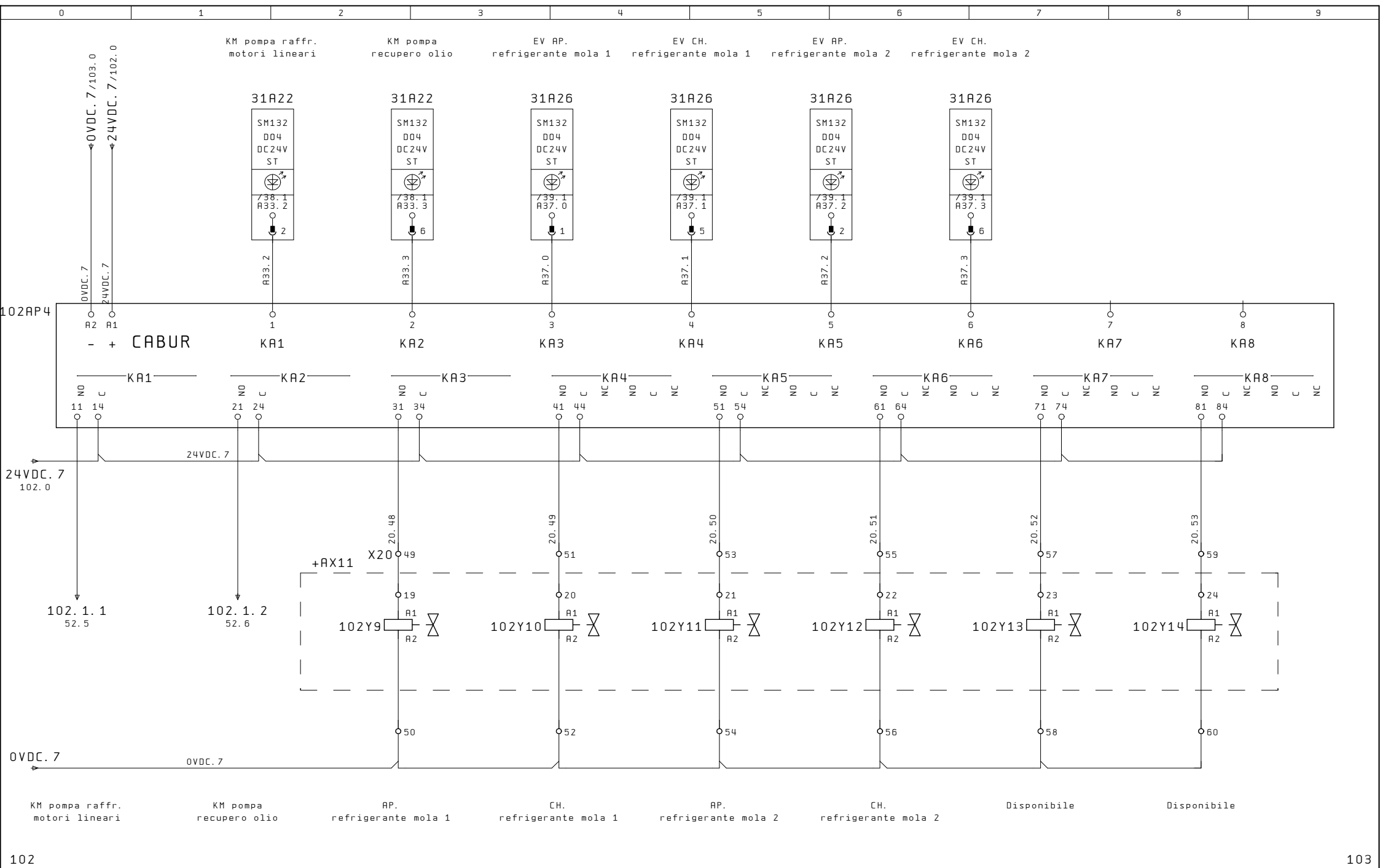
85. 9/0VDC. 9

24VDC. 9

0VDC. 9







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DISTINTA BASE

Sigla	Quantita'	Articolo	Tipo	Produttore	Codice
+AK1-10HL1	1	ELFIN. 050ASL500FI01	APP. SEGN. COMPLETO (3NC+1NC)	ELFIN	ECOMSEGELFI0003
+AK1-10F1	1	SIE. 3NW7 033	BASE X 3 FUSIBILI 10X38	SIEMENS	
+AK1-10Q1	1	SIE. 3VL1 716-1EH43-0AA0			
+AK1-10Q1	1	SIE. 3VL9 300-3HG04	COM. RINV. ROT. EM. X VL160-250	SIEMENS	
+AK1-11CZ1	1	TEXA. EG012BT1B			
+AK1-11QF1	1	SIE. 5SY6206-7BB	INT. AUT. 2P 6A (C)	SIEMENS	EINTAUTSIEM0724
+AK1-11QF1	1	SIE. 5ST3010	CONT. AUX 1L+1R (5SY)	SIEMENS	ECONAUXSIEM0003
+AK1-11PR1	1	GEW. 20203			
+AK1-11PR1	1	GEW. 26409			
+AK1-11QF2	1	SIE. 5SY6202-7BB	INT. AUT. 2P 2A (C)	SIEMENS	EINTAUTSIEM0720
+AK1-11QF3	1	SIE. 5SY6101-7BB	INT. AUT. 1P 1A (C)	SIEMENS	EINTAUTSIEM0701
+AK1-11EL2	1	ELFIN. 050PE13			
+AK1-11QF4	1	SIE. 3RV10 21-1EA10	MAGNTER 2.8-4A (S0)	SIEMENS	EINTMAGSIEM0035
+AK1-11AP1	1	SIE. 6EP1 436-3BA00	ALIMENT. 24VDC 20A TRIFASE	SIEMENS	EALIMENSIEM0007
+AK1-13KF1	1	SICK. FX3-CPU000000			
+AK1-13KF1	1	SICK. FX3-MPL0			
+AK1-13KF2	1	SICK. FX3-XTI084002			
+AK1-13KM1	1	SIE. 3RT10461BB40			
+AK1-13KF3	1	SICK. FX3-XTI084002			
+AK1-13KF4	1	SICK. FX3-XTI084002			
+AK1-13KF5	1	SICK. UE410-4R04			
+AK1-13KF6	1	SICK. UE410-4R04			
+AK1-13. 4SH1	1	TEL. ZB4-BW333	PULS. LUM. VERDE (LED)	TELEMECANIQUE	ECOMSEGTELE0311
+AK1-13. 4SH1	1	TEL. ZBV-B3	LED VERDE 24V	TELEMECANIQUE	ECOMSEGTELE0303
+AK1-13. 4SH1	1	TEL. ZB4-BZ103	BASE+2 CONT. NO	TELEMECANIQUE	ECOMSEGTELE0206
+AK1-13. 4SH2	1	TEL. ZB4-BW333	PULS. LUM. VERDE (LED)	TELEMECANIQUE	ECOMSEGTELE0311
+AK1-13. 4SH2	1	TEL. ZBV-B3	LED VERDE 24V	TELEMECANIQUE	ECOMSEGTELE0303
+AK1-13. 4SH2	1	TEL. ZB4-BZ103	BASE+2 CONT. NO	TELEMECANIQUE	ECOMSEGTELE0206
+AK1-13. 4SH3	1	TEL. ZB4-BG6	SEL. 2 POS CHIAVE RIT. SX	TELEMECANIQUE	ECOMSEGTELE0295
+AK1-13. 4SH3	1	TEL. ZB4-BZ101	BASE+CONT. NO	TELEMECANIQUE	ECOMSEGTELE0201
+AK1-13. 4SH3	1	TEL. ZBE-101	CONTATTO NO	TELEMECANIQUE	ECOMSEGTELE0207
+AK1-13. 5SH1	1	TEL. ZB4-BW363	PULS. LUM. BLU (LED)	TELEMECANIQUE	ECOMSEGTELE0316

+AK1/103

2

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+AK1-13. 5SH1	1	TEL. ZBV-B6	LED BLU 24V	TELEMECANIQUE	ECOMSEGTELE0306
+AK1-13. 5SH1	1	TEL. ZB4-BZ103	BASE+2 CONT. NO	TELEMECANIQUE	ECOMSEGTELE0206
+AK1-13. 6K1	1	SIE. 3RT10 16-1KB41	TELER. 24VDC. 4KW BASSO ASSORB.	SIEMENS	ETELERUSIEM0460
+AK1-15SH1	1	TEL. ZB4-BD201	SEL. 2 POS BIANCO LEVA CORTA	TELEMECANIQUE	ECOMSEGTELE0330
+AK1-15SH1	1	TEL. ZB4-BVB1	BASE+LED BIANCO 24V	TELEMECANIQUE	
+AK1-15SH1	1	TEL. ZBE-101	CONTATTO NO	TELEMECANIQUE	ECOMSEGTELE0207
+AK1-15KM1	1	SIE. 3RT10 15-1BB41	TELER. 24VDC. 3KW (1NO)	SIEMENS	ETELERUSIEM0081
+AK1-17QF1	1	SIE. 3RV10 11-0JA10	MAGNTER 0.7-1A (S00)	SIEMENS	EINTMAGSIEM0009
+AK1-17QF1	1	SIE. 3RV19 01-1E	CON. AUX 1L+1R (3RV1)	SIEMENS	
+AK1-17QF2	1	SIE. 3RV10 11-1GA10	MAGNTER 4.5-6.3A (S00)	SIEMENS	EINTMAGSIEM0017
+AK1-17QF2	1	SIE. 3RV19 01-1E	CON. AUX 1L+1R (3RV1)	SIEMENS	
+AK1-17QF3	1	SIE. 3RV10 21-0AA10	MAGNTER 0.11-0.16A (S0)	SIEMENS	EINTMAGSIEM0021
+AK1-17QF3	1	SIE. 3RV19 01-1E	CON. AUX 1L+1R (3RV1)	SIEMENS	
+AK1-52H1	1	TEL. XVB-Z03	ZOCCOLO ORIZZ + TUBO 400MM	TELEMECANIQUE	
+AK1-52H1	1	TEL. XVB-C21	BASE+COPERCHIO COLONNA	TELEMECANIQUE	ECOMSEGTELE0501
+AK1-52H1	1	TEL. XVB-C9B	BUZZER X COLONNA	TELEMECANIQUE	ECOMSEGTELE0510
+AK1-52H1	1	TEL. XVB-C2B3	EL. LUM. LED 24V VERDE X COL.	TELEMECANIQUE	
+AK1-52H1	1	TEL. XVB-C2B5	EL. LUM. LED 24V ARANCIO X COL.	TELEMECANIQUE	
+AK1-52H1	1	TEL. XVB-C2B4	EL. LUM. LED 24V ROSSO X COL.	TELEMECANIQUE	ECOMSEGTELE0522
+AK1-52HL1	1	TEL. XVB-C2B4	EL. LUM. LED 24V ROSSO X COL.	TELEMECANIQUE	ECOMSEGTELE0522
+AK1-52HL2	1	TEL. XVB-C2B5	EL. LUM. LED 24V ARANCIO X COL.	TELEMECANIQUE	
+AK1-52HL3	1	TEL. XVB-C2B3	EL. LUM. LED 24V VERDE X COL.	TELEMECANIQUE	
+AK1-52BZ1	1	TEL. XVB-C9B	BUZZER X COLONNA	TELEMECANIQUE	ECOMSEGTELE0510
+AK1-20QF1	1	SIE. 3RV10 41-4KA10	MAGNTER 57-75A (S3)	SIEMENS	EINTMAGSIEM0052
+AK1-20GU2	1	SIE. 6SL3 130-7TE23-6AA3			
+AK1-20GU2	1	SIE. 6SL3 162-1AF00-0AA1			
+AK1-20GU2	1	SIE. 6SL3 162-1AH01-0AA0			
+AK1-21A1	1	SIE. 6SL3055-0AA00-5KA0			
+AK1-21GU1	1	SIE. 6SL3 120-2TE21-0AA3			
+AK1-21A2	1	SIE. 6SL3055-0AA00-5KA0			
+AK1-22A1	1	SIE. 6SL3055-0AA00-5KA0			
+AK1-22GU1	1	SIE. 6SL3 120-2TE21-8AA3			

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Sigla	Quantita'	Articolo	Tipo	Produttore	Codice
+AK1-22A2	1	SIE. 6SL3055-0AA00-5KA0			
+AK1-23A1	1	SIE. 6SL3055-0AA00-5KA0			
+AK1-23GU1	1	SIE. 6SL3 120-1TE21-8AA3			
+AK1-24A1	1	SIE. 6SL3055-0AA00-5KA0			
+AK1-24GU1	1	SIE. 6SL3 120-1TE28-5AA3			
+AK1-30A1	1	SIE. 6FC5 203-0FA05-1AB0			
+AK1-30A2	1	SIE. 6FC5 303-0AF22-1AA0			
+AK1-31A0	1	SIE. 6FC 537-20AA0-0AA1			
+AK1-31A1	1	SIE. 6ES7 151-1AA04-0AB0			
+AK1-31A1	1	SIE. 6ES7 138-4CA01-0AA0			
+AK1-31A1	1	SIE. 6ES7 193-4CC20-0AA0			
	1	SIE. 6ES7 193-4CD30-0AA0	MOD. TERM. ET200S X POWER (-AUX)	SIEMENS	
+AK1-31A3	0,20	SIE. 6ES7 131-4BD01-0AA0	MODULO ET200S 4DI STD (5PZ)	SIEMENS	
+AK1-31A3	0,20	SIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A4	0,20	SIE. 6ES7 131-4BD01-0AA0	MODULO ET200S 4DI STD (5PZ)	SIEMENS	
+AK1-31A4	0,20	SIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A5	0,20	SIE. 6ES7 131-4BD01-0AA0	MODULO ET200S 4DI STD (5PZ)	SIEMENS	
+AK1-31A5	0,20	SIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A6	0,20	SIE. 6ES7 131-4BD01-0AA0	MODULO ET200S 4DI STD (5PZ)	SIEMENS	
+AK1-31A6	0,20	SIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A7	0,20	SIE. 6ES7 131-4BD01-0AA0	MODULO ET200S 4DI STD (5PZ)	SIEMENS	
+AK1-31A7	0,20	SIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A8	0,20	SIE. 6ES7 131-4BD01-0AA0	MODULO ET200S 4DI STD (5PZ)	SIEMENS	
+AK1-31A8	0,20	SIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A9	0,20	SIE. 6ES7 131-4BD01-0AA0	MODULO ET200S 4DI STD (5PZ)	SIEMENS	
+AK1-31A9	0,20	SIE. 6ES7 193-4CA40-0AA0			

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Sigla	Quantita'	Articolo	Tipo	Produttore	Codice
+AK1-31A10	1	6ES7 193-4CB30-0AA0			
+AK1-31A10	0,20	SIE. 6ES7 131-4BD01-0AA0	MODULO ET200S 4DI STD (5PZ)	SIEMENS	
+AK1-31A10	0,20	SIE. 6ES7 193-4CA40-0AA0			
+AK1-31A11	1	6ES7 193-4CB30-0AA0			
+AK1-31A11	0,20	SIE. 6ES7 131-4BD01-0AA0	MODULO ET200S 4DI STD (5PZ)	SIEMENS	
+AK1-31A11	0,20	SIE. 6ES7 193-4CA40-0AA0			
+AK1-31A12	1	6ES7 193-4CB30-0AA0			
+AK1-31A12	0,20	SIE. 6ES7 131-4BD01-0AA0	MODULO ET200S 4DI STD (5PZ)	SIEMENS	
+AK1-31A12	0,20	SIE. 6ES7 193-4CA40-0AA0			
+AK1-31A13	1	6ES7 193-4CB30-0AA0			
+AK1-31A13	0,20	SIE. 6ES7 131-4BD01-0AA0	MODULO ET200S 4DI STD (5PZ)	SIEMENS	
+AK1-31A13	0,20	SIE. 6ES7 193-4CA40-0AA0			
+AK1-31A14	1	6ES7 193-4CB30-0AA0			
+AK1-31A14	0,20	SIE. 6ES7 131-4BD01-0AA0	MODULO ET200S 4DI STD (5PZ)	SIEMENS	
+AK1-31A14	0,20	SIE. 6ES7 193-4CA40-0AA0			
+AK1-31A15	1	6ES7 193-4CB30-0AA0			
+AK1-31A15	0,20	SIE. 6ES7 131-4BD01-0AA0	MODULO ET200S 4DI STD (5PZ)	SIEMENS	
+AK1-31A15	0,20	SIE. 6ES7 193-4CA40-0AA0			
+AK1-31A16	1	6ES7 193-4CB30-0AA0			
+AK1-31A16	1	SIE. 6ES7 131-4BD01-0AA0	MODULO ET200S 4DI STD (5PZ)	SIEMENS	
+AK1-31A16	1	SIE. 6ES7 193-4CA40-0AA0			
+AK1-31A17	1	6ES7 193-4CB30-0AA0			
+AK1-31A17	0,20	SIE. 6ES7 132-4BD02-0AA0			
+AK1-31A17	0,20	SIE. 6ES7 193-4CA40-0AA0			
+AK1-31A18	1	6ES7 193-4CB30-0AA0			
+AK1-31A18	0,20	SIE. 6ES7 132-4BD02-0AA0			
+AK1-31A18	0,20	SIE. 6ES7 193-4CA40-0AA0			
+AK1-31A19	1	6ES7 193-4CB30-0AA0			
+AK1-31A19	0,20	SIE. 6ES7 132-4BD02-0AA0			
+AK1-31A19	0,20	SIE. 6ES7 193-4CA40-0AA0			
+AK1-31A20	1	6ES7 193-4CB30-0AA0			
+AK1-31A20	0,20	SIE. 6ES7 132-4BD02-0AA0			

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Sigla	Quantita'	Articolo	Tipo	Produttore	Codice
+AK1-31A20	0,20	OSIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A21	0,20	OSIE. 6ES7 132-4BD02-0AA0			
+AK1-31A21	0,20	OSIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A22	0,20	OSIE. 6ES7 132-4BD02-0AA0			
+AK1-31A22	0,20	OSIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A23	0,20	OSIE. 6ES7 132-4BD02-0AA0			
+AK1-31A23	0,20	OSIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A24	0,20	OSIE. 6ES7 132-4BD02-0AA0			
+AK1-31A24	0,20	OSIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A25	0,20	OSIE. 6ES7 132-4BD02-0AA0			
+AK1-31A25	0,20	OSIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A26	0,20	OSIE. 6ES7 132-4BD02-0AA0			
+AK1-31A26	0,20	OSIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A27	0,20	OSIE. 6ES7 132-4BD02-0AA0			
+AK1-31A27	0,20	OSIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A28	0,20	OSIE. 6ES7 132-4BD02-0AA0			
+AK1-31A28	0,20	OSIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-31A29	0,20	OSIE. 6ES7 134-4GB01-0AB0			
+AK1-31A29	0,20	OSIE. 6ES7 193-4CA40-0AA0			
	1	6ES7 193-4CB30-0AA0			
+AK1-52KM4	1	SIE. 3RT10 15-1KB41	TELER. 24VDC. 3KW BASSO ASSORB.	SIEMENS	ETELERUSIEM0455
+AK1-52KM5	1	SIE. 3RT10 15-1KB41	TELER. 24VDC. 3KW BASSO ASSORB.	SIEMENS	ETELERUSIEM0455
+AK1-52KM6	1	SIE. 3RT10 15-1KB41	TELER. 24VDC. 3KW BASSO ASSORB.	SIEMENS	ETELERUSIEM0455

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Sigla	Quantita'	Articolo	Tipo	Produttore	Codice
+AK1-100AP1	1	CABUR. XCRE81			
+AK1-101AP2	1	CABUR. XCRE81			
+AK1-102AP3	1	CABUR. XCRE81			
W21S1	1	SIE. 6FX7002-2SL00-1ACO			
W21CL1	1	SIE. 6FX7002-2SL00-1ACO			
W21M1	1	SIE. 6FX7002-5LM62-1AKO			
W21M2	1	SIE. 6FX7002-5LM62-1AKO			
W21CL2	1	SIE. 6FX7002-2SL00-1ACO			
W21S2	1	SIE. 6FX7002-2SL00-1ACO			
W21M2. 1	1	SIE. 6FX7002-5LM62-1AKO			
W22CL1	1	SIE. 6FX7002-2SL00-1ACO			
W22M1	1	SIE. 6FX8002-5CS11-1ABO			
W22M1	1	SIE. 6FX7002-5LM62-1AKO			
W22M2	1	SIE. 6FX8002-5CS11-1ABO			
W22M2	1	SIE. 6FX7002-5LM62-1AKO			
W22CL2	1	SIE. 6FX7002-2SL00-1ACO			
W22S2	1	SIE. 6FX7002-2SL00-1ACO			
W22M2. 1	1	SIE. 6FX8002-5CS11-1ABO			
W22M2. 1	1	SIE. 6FX7002-5LM62-1AKO			
W23S1	1	SIE. 6FX7002-2SL00-1ACO			
W23CL1	1	SIE. 6FX7002-2SL00-1ACO			
W23M1	1	SIE. 6FX8002-5CS11-1ABO			
W23M1	1	SIE. 6FX7002-5LM62-1AKO			
W24S1	1	SIE. 6FX7002-2SL00-1ACO			
W24CL1	1	SIE. 6FX7002-2SL00-1ACO			
W24M1	1	SIE. 6FX8002-5CS11-1ABO			
W24M1	1	SIE. 6FX7002-5LM62-1AKO			