



Strada Molino Magi, 66
 47892 Gualdicciolo
 Tel +378 0549 941426 Fax +378 0549 941426
 Repubblica di San Marino

Modello Macchina
 Machine Model
 Maschine Modell
 Modele de la Machine
 Modelo Maquina

Freesby 212 h.3100 Window Conv

Numero Matricola
 Machine Serial Number
 Maschine Kennnummer
 Numero de Matricule
 Numero de Matricula

Tensione di alimentazione
 Power Supply Voltage
 Spannungsversorgung
 Voltage electrique
 Tension de Alimentacion

230 V 50 Hz

1 Ph + N

Potenza Installata
 Installed Power
 Installierte Leistung
 Puissance installée
 Potencia Instalada

1.9 kW

Corrente Assorbita
 Absorbed Current
 Stromaufnahme
 Absorption Electrique
 Absorcion

7 A

Codice Quadro Elettrico

7450306628R7040B

Indice Modifica

00

Numero Bolla

**ESECUZIONE
SPECIALE**

Costruire secondo specifica tecnica 50.1.1
 Controllare con scheda di collaudo

30191798

Elaborato da

Brizi A.

Verificato da

Ingrosso D.

Approvato da

Casale C.



Description

**Copertina
Cover sheet**

Code

3709305855

Date

05/12/2019

Total

29

Prev

Subs

2

Page

1

Machine

Freesby 212 h.3100 Window Conv

Sommario delle pagine

Table of contents

Impianto Higher-level function	Luogo di montaggio Mounting location	Pagina Page	Descrizione pagina Page description	Campo aggiuntivo delle pagine supplementary page field	Data Date	Elaboratore Edited by
		1	Copertina Cover sheet		05/12/2019	abrizi
		2	Sommario delle pagine : /1 - /140 Table of contents : /1 - /140		06/12/2019	abrizi
		2.1	Sommario delle pagine : /150 - /172 Table of contents : /150 - /172		06/12/2019	abrizi
		4	Targhetta quadro elettrico Plate control cabinet		05/12/2019	abrizi
		5	Distinta articoli Parts list		06/12/2019	abrizi
		5.1	Distinta articoli Parts list		06/12/2019	abrizi
		10	Alimentazione Power supply		05/12/2019	abrizi
		20	Circuito di potenza Power circuit		05/12/2019	abrizi
		30	Circuito di potenza Power circuit		05/12/2019	abrizi
		40	Circuito di potenza Power circuit		05/12/2019	abrizi
		60	Circuito ausiliario Auxiliary circuit		05/12/2019	abrizi
		70	Circuito ausiliario Auxiliary circuit		05/12/2019	abrizi
		80	Circuito ausiliario Auxiliary circuit		06/12/2019	abrizi
		100	Circuito ausiliario Auxiliary circuit		05/12/2019	abrizi
		110	Circuito ausiliario Auxiliary circuit		05/12/2019	abrizi
		140	Circuito ausiliario Auxiliary circuit		05/12/2019	abrizi



Description

Sommario delle pagine : /1 - /140
Table of contents : /1 - /140

Code

3709305855

Date

05/12/2019

Total

29

Prev

1

Subs

2.1

Page

2

Machine

Freesby 212 h.3100 Window Conv

Sommario delle pagine

Table of contents

Impianto Higher-level function	Luogo di montaggio Mounting location	Pagina Page	Descrizione pagina Page description	Campo aggiuntivo delle pagine supplementary page field	Data Date	Elaboratore Edited by
		150	Circuito ausiliario Auxiliary circuit		05/12/2019	abrizi
		160	Layout		05/12/2019	abrizi
		162	Plc, Inverter		05/12/2019	abrizi
		163	Sommario cavi Cable overview		06/12/2019	abrizi
		164	Morsettiera di potenza Power terminalboard		06/12/2019	abrizi
		165	Morsettiera 24Vdc 24Vdc terminalboard		06/12/2019	abrizi
		166	Morsettiera Ausiliari Aux Terminal strip		06/12/2019	abrizi
		167	Morsettiera Ausiliari Aux Terminal strip		06/12/2019	abrizi
		168	Connettore basamento Base connector		06/12/2019	abrizi
		169	Connettore basamento Base connector		06/12/2019	abrizi
		170			06/12/2019	abrizi
		171			06/12/2019	abrizi
		172			06/12/2019	abrizi



Description

Sommario delle pagine : /150 - /172
Table of contents : /150 - /172

Code

3709305855

Date

05/12/2019

Total

29

Prev

2

Subs


4

Page

2.1

Machine

Freesby 212 h.3100 Window Conv

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In	<input type="text" value="7"/> A	Ik	<input type="text" value="10"/> Ka	<input type="text"/>
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Description

Targhetta quadro elettrico
Plate control cabinet

Code 3709305855

Date 05/12/2019

Total 29

Prev 2.1

Subs 5

Page

Machine

Freesby 212 h.3100 Window Conv

Distinta articoli

Parts list

F01_ART_0000

SEF	Designazione Designation	Numero tipo Type number	Produttore Manufacturer	Quantità Quantity	Codice Code	Pagina Page
-Z1	Filtro alimentazione Main filter	10SS4-2DC2-Q (10S42EC2)	Comestero Sistemi	1	00L0430751D	/10.1
-QS1	Sezionatore 600V 40A 3P Switch-disconnector 600V 40A 3P	OT40FT3	ABB	1	0099000193H	/10.1
-QS1	Polo aggiuntivo di terra 40A Protective earth terminal 40A	OTPE40FD	ABB	1	0099000398	/10.1
-QS1	Maniglia retroquadro GRI-NER Handle for door mounted GY-BK	OHBS2RJ	ABB	1	0001310774	/10.1
-X1	morsetto passante per 3 conduttori 3-CONDUCTOR THROUGH TERMINAL BLOCK	2002-1301	WAGO	4	00L0074294C	/10.4
-F7	Fusibile Cilindrico 10,3x38 GG 2A 500VAC Cylindrical Fuse 10,3x38 GG 2A 500VAC	10,3x38 GG 2A 500VAC		1	0001304231	/20.1
-F7	Base per fusibile 10,3 X 38 Base for fuse 10,3 X 38	10,3X38 1P		1	0001352427E	/20.1
-U1	Inverter Variable speed drives	INV01ROB_2	Robopac	1	1430300271	/20.2
-SA1	Selettori a chiave, 2 posizioni, ad impulso Selector switch actuator, 2 Pos., spring-return	M22-WS	Eaton Moeller	1	0001300015G	/20.5
-SA1	Supporto per contatti Fixing adapter	M22-A	Eaton Moeller	1	0001300700A	/20.5
-SA1	Elementi di contatto, 1NA, Fissaggio frontale, Cage clamp Contact element, 1N/O, Front fixing, Cage clamp	M22-CK10	Eaton Moeller	1	0001300024F	/20.5
-SA1	Elementi di contatto, 1NC, Fissaggio frontale, Cage clamp Contact element, 1N/C, Front fixing, Cage clamp	M22-CK01	Eaton Moeller	2	0001300027C	/20.5
-W13	Cavo M12 4Poli Fem 90° 5,0m M12 Cable 4P Fem 90° 5,0m	M12 4P FEM 90GR 5,0M		1	0001313340B	/20.7
-SQ4	Sensore induttivo, M12 PNP NO Proximity switch, M12 PNP NO	AM6/AP-2H	Microdetectors	1	0202300001	/20.8
-U2	Inverter Variable speed drives	INV01ROB_2	Robopac	1	1430300271	/30.1
-U10	Logica Programmabile PLC	PLC01ROB_1	Robopac	1	1430300238	/40.0
-U11	Scheda Card	PRES03ROB	Robopac	1	1430300220	/40.7
-SQ2	Finecorsa Limit switch	FR-515-M1	Pizzato	1	0001309611B	/40.7
-SQ3	Cella di carico Loading cell	FFL 2K 0250AF	Nbc Elettronica	1	0204300004	/40.8
-U8	Modulo di sicurezza Safety relay	CS-AT-10V024-TF1	Pizzato	1	1400300008	/60.1
-SB1	Pulsanti per arresto d'emergenza, Sblocco a rotazione Emergency-Stop actuator, non-illuminated , turn to release	M22-PVT	Eaton Moeller	1	0001300005F	/60.2
-SB1	Supporto per contatti Fixing adapter	M22-A	Eaton Moeller	1	0001300700A	/60.2
-SB1	Elementi di contatto, 1NC, Fissaggio frontale, Cage clamp Contact element, 1N/C, Front fixing, Cage clamp	M22-CK01	Eaton Moeller	2	0001300027C	/60.2
-SB2	Pulsante, piatto, blu, ad impulso Pushbutton actuator, flush, blue, spring return	M22-D-B	Eaton Moeller	1	0001300696B	/60.5
-SB2	Supporto per contatti Fixing adapter	M22-A	Eaton Moeller	1	0001300700A	/60.5
-SB2	Elementi di contatto, 1NA, Fissaggio frontale, Cage clamp Contact element, 1N/O, Front fixing, Cage clamp	M22-CK10	Eaton Moeller	2	0001300024F	/60.5
-SB3	Pulsante, piatto, bianco, ad impulso Pushbutton actuator, flush, white, spring-return	M22-D-W	Eaton Moeller	1	0001307116L	/70.3
-SB3	Supporto per contatti Fixing adapter	M22-A	Eaton Moeller	1	0001300700A	/70.3
-SB3	Elementi di contatto, 1NA, Fissaggio frontale, Cage clamp Contact element, 1N/O, Front fixing, Cage clamp	M22-CK10	Eaton Moeller	1	0001300024F	/70.3
-SB4	Pulsante, piatto, nero, ad impulso Pushbutton actuator, flush, black, spring-return	M22-D-S	Eaton Moeller	1	0001300762B	/70.4
-SB4	Supporto per contatti Fixing adapter	M22-A	Eaton Moeller	1	0001300700A	/70.4
-SB4	Elementi di contatto, 1NC, Fissaggio frontale, Cage clamp Contact element, 1N/C, Front fixing, Cage clamp	M22-CK01	Eaton Moeller	1	0001300027C	/70.4
-X3.1	Custodia con leva Mobile case	MK-VG20	Ilme	1	0001357358D	/70.7
-X3.1	Frutto Femmina, 4poli + Gnd Female insert, 4P+GND	CKF 04	Ilme	1	0001353016D	/70.7
-X3.2	Custodia con piolini Mobile case	MK-V20	Ilme	1	0001357351H	/70.7
-X3.2	Frutto Maschio, 4poli + Gnd Male insert, 4P+GND	CKM 04	Ilme	1	0001353017F	/70.7
-W20	Cavo M12 4Poli Fem 5,0m M12 Cable 4P Fem 5,0m	M12 4P FEM 5,0M		1	0001313474	/70.7
-SQ7	Sensore induttivo, M12 PNP NO Proximity switch, M12 PNP NO	AM6/AP-2H	Microdetectors	1	0202300001	/70.7



Description

Distinta articoli
Parts list

Code

3709305855

Date

05/12/2019

Total

29

Prev

4

Subs

5.1

Page

5

Machine

Freesby 212 h.3100 Window Conv

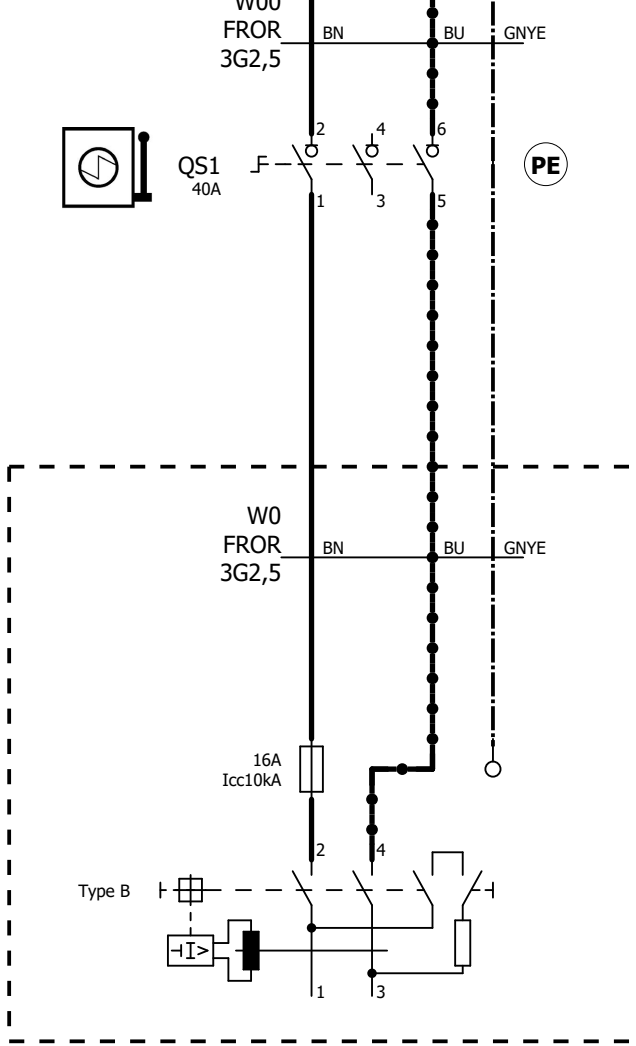
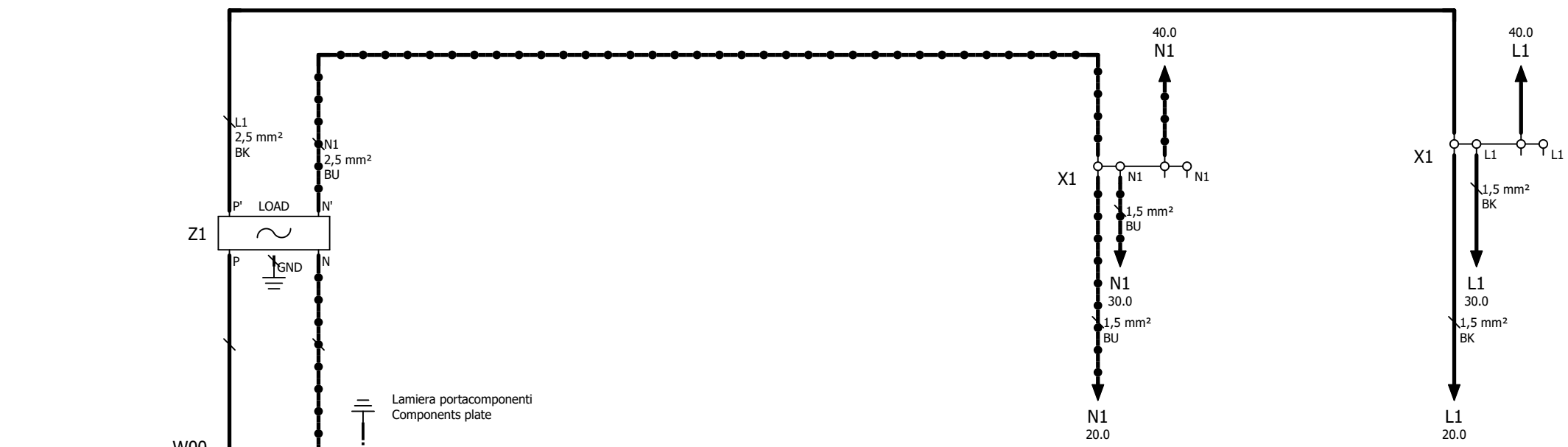
Distinta articoli

Parts list

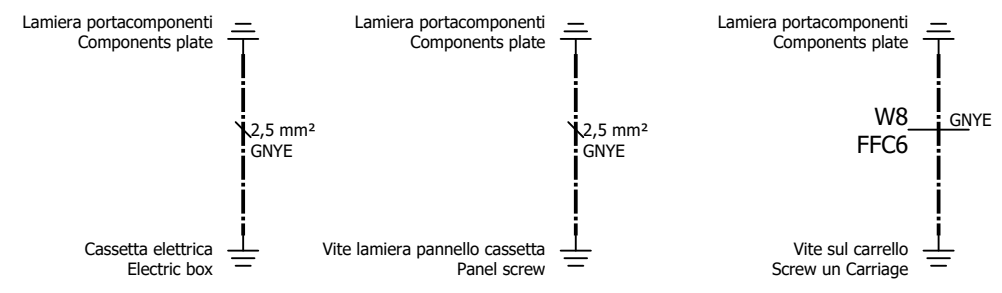
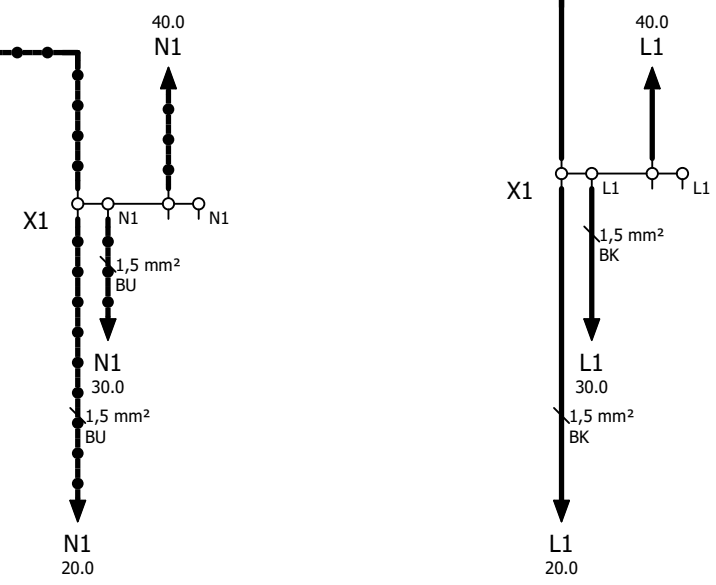
F01_ART_0000

SEF	Designazione Designation	Numero tipo Type number	Produttore Manufacturer	Quantità Quantity	Codice Code	Pagina Page
-SQ1	Fincorsa Limit switch	FR-1630-M1	Pizzato	1	0001309638L	/80.0
-SB7	Operatore a pedale Pedal	PX-40210-M2	Pizzato	1	0622300001	/80.4
-B3	Fotocellula Photocell	S100-PR-5-B10-PK	Datalogic	1	00L0452514	/80.5
-B3	Fotocellula riflessione	M18 ST-S3Z-M18	Datalogic	1	5830301702	/80.5
-B1	Fotocellula Light barrier	S6-5-C200	Datalogic	1	0001310154D	/100.1
-B1	^{Opt} Fotocellula Light barrier	S62-PA-2-M31-PP SV4761	Datalogic	1	00L0162782	/100.1
-SQ8	Fincorsa Limit switch	FR-555-M1	Pizzato	1	0001309717G	/100.7
-SB8	Pulsante, piatto, nero, ad impulso Pushbutton actuator, flush, black, spring-return	M22-D-S	Eaton Moeller	1	0001300762B	/100.8
-SB8	Supporto per contatti Fixing adapter	M22-A	Eaton Moeller	1	0001300700A	/100.8
-SB8	Elementi di contatto, 1NA, Fissaggio frontale, Cage clamp Contact element, 1N/O, Front fixing, Cage clamp	M22-CK10	Eaton Moeller	1	0001300024F	/100.8
-K2	CONTATTORE, AC-3, 4KW/400V, 1NO, DC 24V CONTACTOR, AC-3, 4KW/400V, 1NO, DC 24V	3RT2016-2BB41	Siemens	1	00L0116063C	/110.2
-K2	VARISTORE AC 24...48V, DC 24...70V SURGE SUPPRESSOR, VARISTOR, AC 24...48V, DC 24...70V	3RT2916-1BB00	Siemens	1	00L0116090L	/110.2
-H1	Buzzer	E6-1IS6A1CV1B	Pizzato	1	0530300002	/110.7
-X42	connettore femmina FEMALE PLUG	231-106/026-000	WAGO	1	00L0143872C	/140.1
-U9	Touch screen	MT4414TE	Noxon	1	1490300025	/150.2
-M1	Lamiera portacomponenti Components plate		Robopac	1	4940301670	/160.0
-M1	Cassetta elettrica Electric box		Noxon	1	4280300293R7040B	/160.0
-M1	Pannello cassetta elettrica		Noxon	1	5210300460R7040B	/160.0
-M1	Catena porta cavo Cable tray chain	56 M- SR250L025038-AN250L025KM1	Stendalto	1	0880300009	/160.0





A cura del cliente
By the customer



IN CASE OF 3Ph400V/415V+N+PE POWER SUPPLY CONNECT ONE PHASE TO R, NEUTRAL TO N AND PROTECTIVE EARTH TO PE

IN CASE OF 3Ph220V/240V+PE POWER SUPPLY CONNECT TWO PHASES TO R AND N AND PROTECTIVE EARTH TO PE

IN CASE OF 220/230V+PE SINGLE PHASE POWER SUPPLY CONNECT TO R/N/PE



Description

Alimentazione
Power supply

Code 3709305855

Date 05/12/2019

Total 29

Prev 5.1

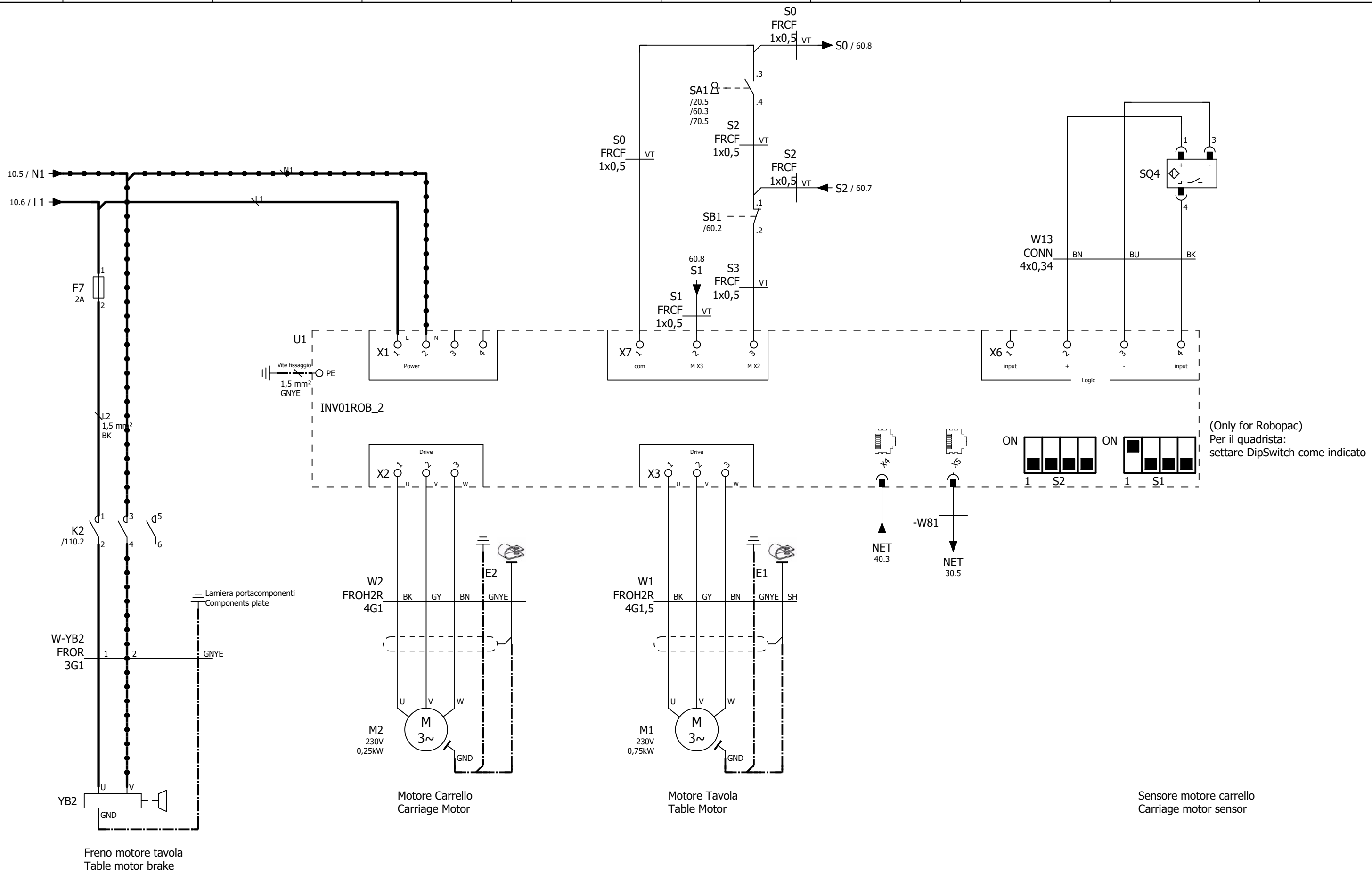
Subs 20

Page

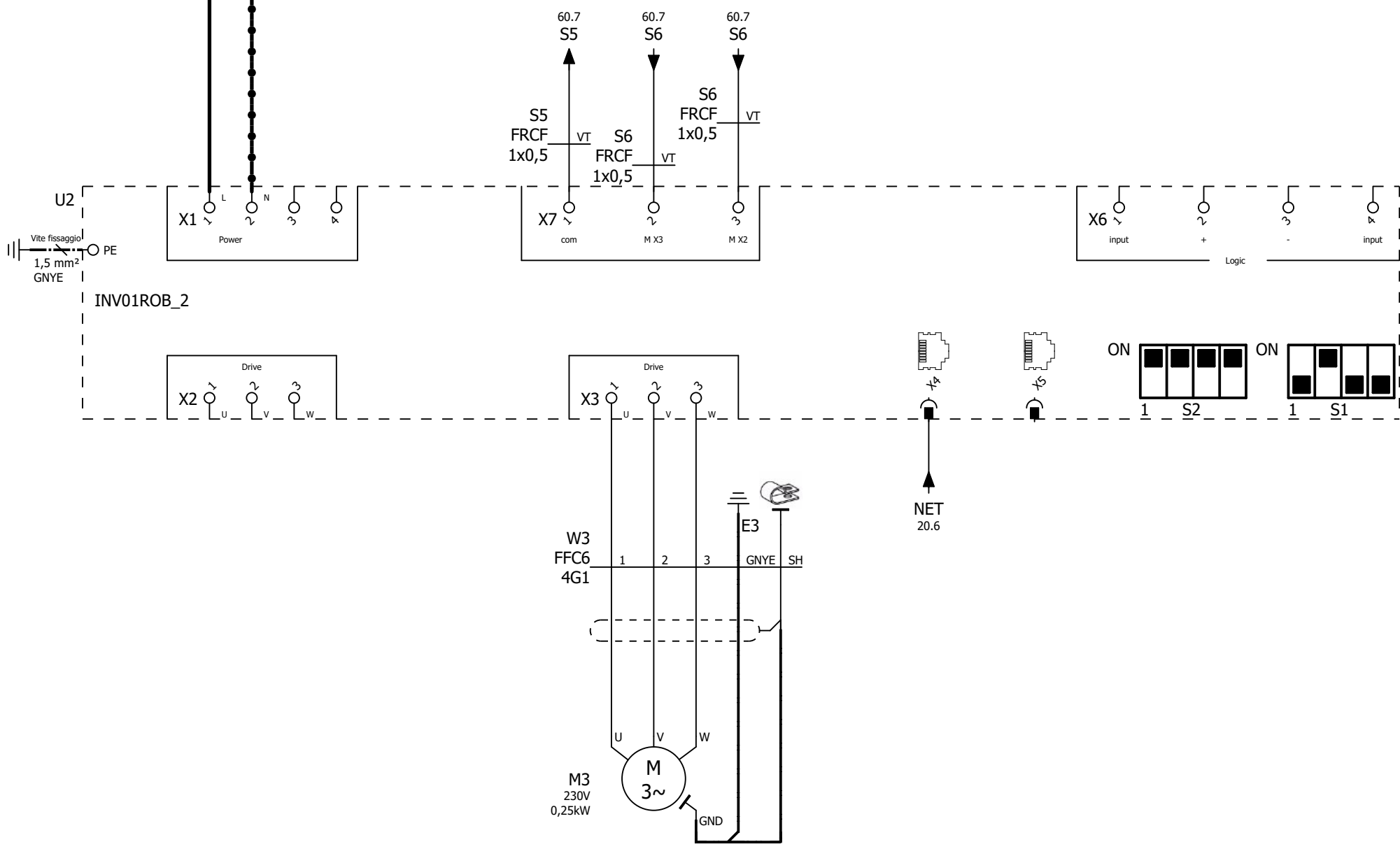
Machine

Freesby 212 h.3100 Window Conv

10



10.5 / N1
10.6 / L1



(Only for Robopac)
Per il quadrista:
settare DipSwitch come indicato

Motore Svolgimento Film
Unrolling film Motor



Description

Circuito di potenza
Power circuit

Code 3709305855

Date 05/12/2019

Total 29

Prev 20

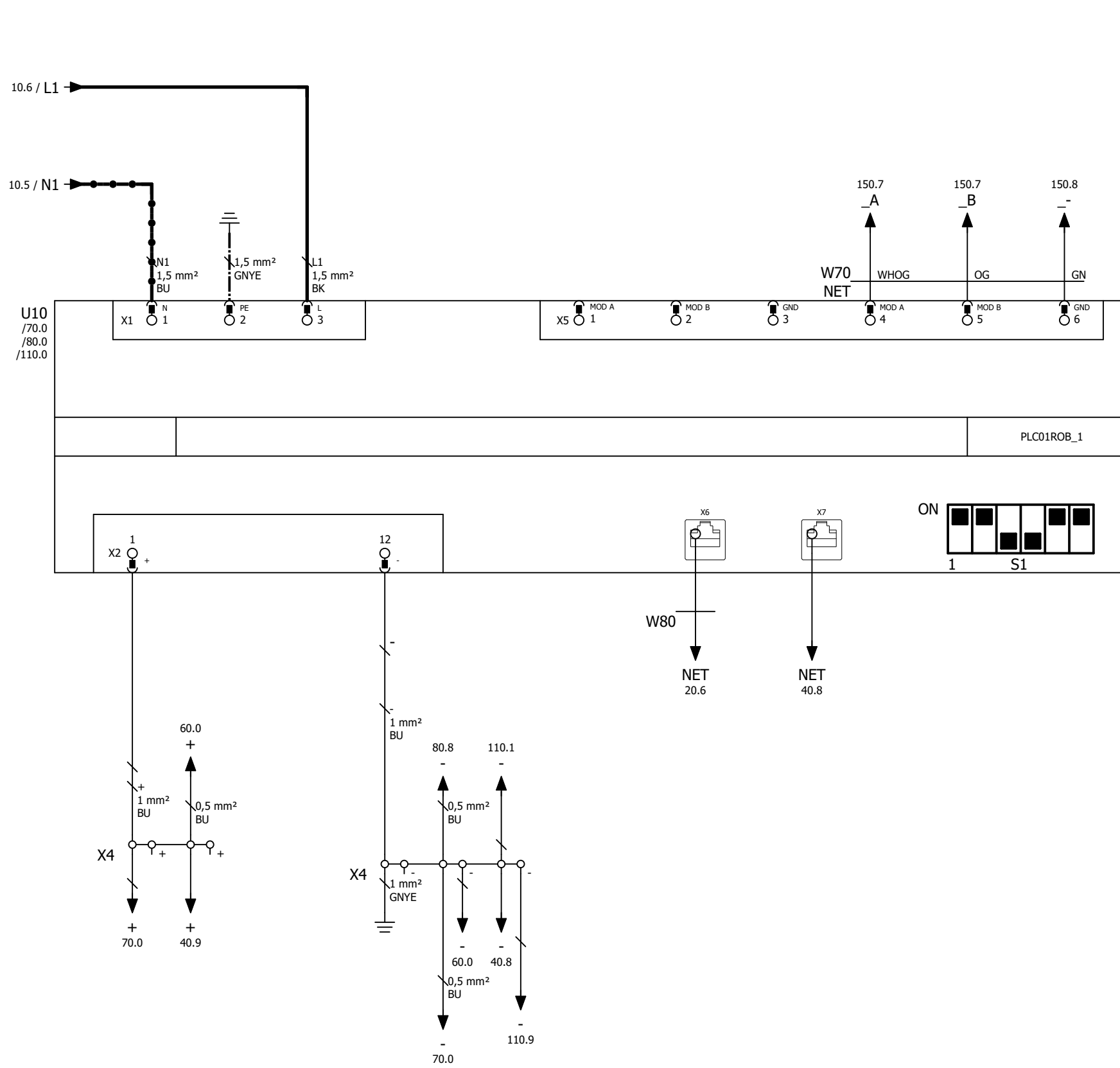
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Page

Machine

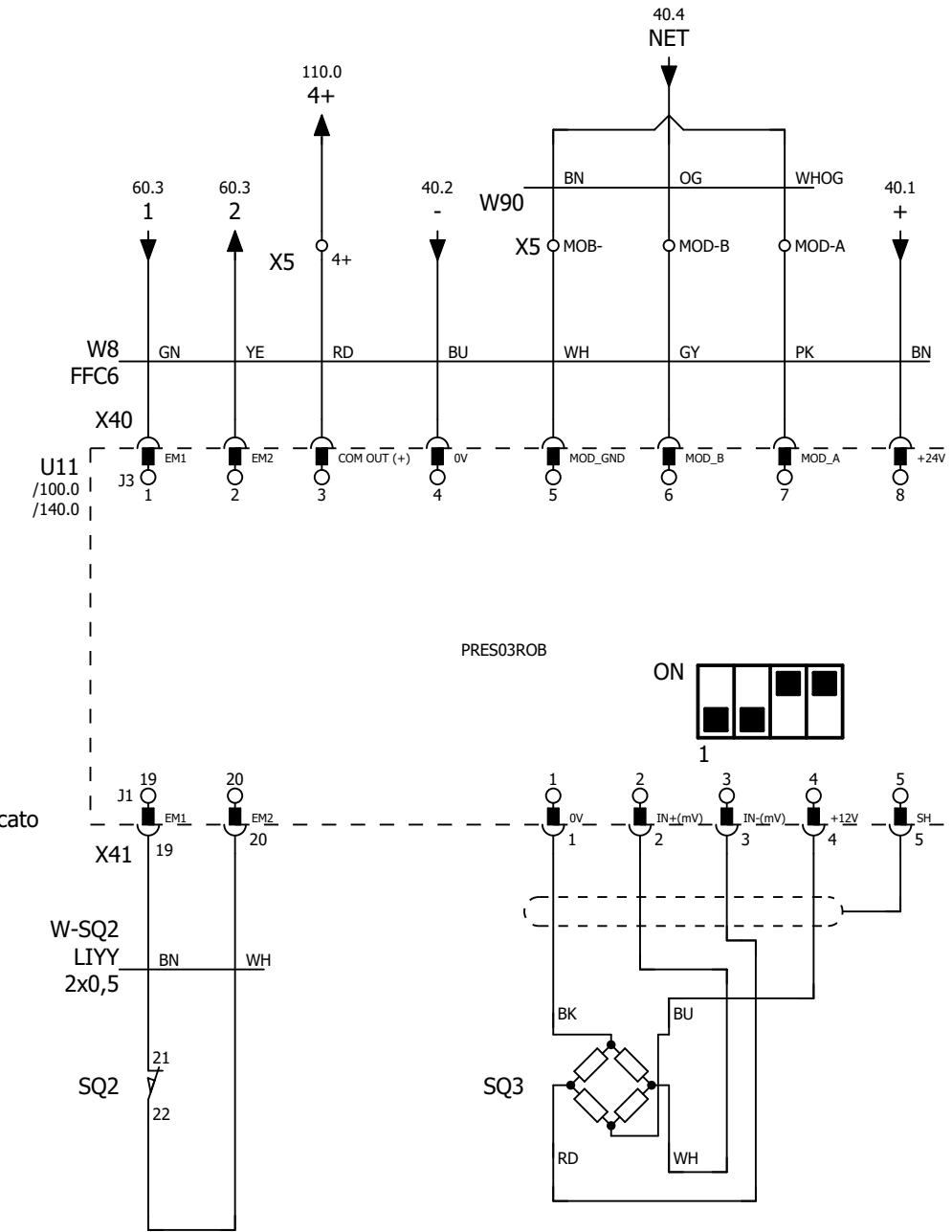
Freesby 212 h.3100 Window Conv

30



Alimentazione 24Vdc
24Vdc Power supply

(Only for Robopac)
Per il quadrista:
settare DipSwitch come indicato



Emergenza carrello
Carriage emergency

Cella di carico
Load cell



Description

Circuito di potenza
Power circuit

Code

3709305855

Date

05/12/2019

Total

29

Prev

30

Subs

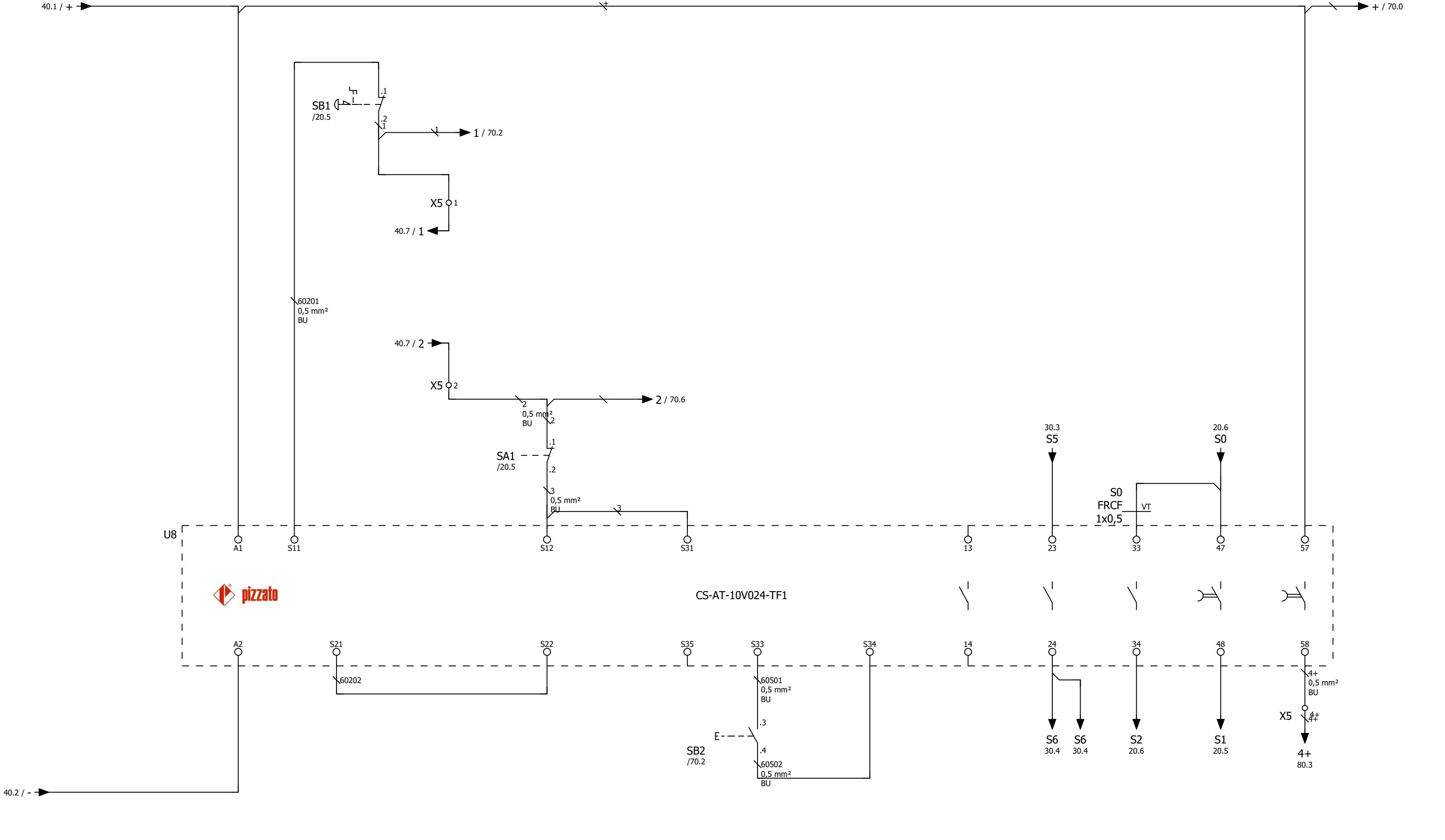
60

Page

40

Machine

Freesby 212 h.3100 Window Conv



Emergenza
Emergency stop

Emergenza carrello
Carriage emergency

Sospensione sicurezza
carrello
Carriage safety
exception

RESET
RESET

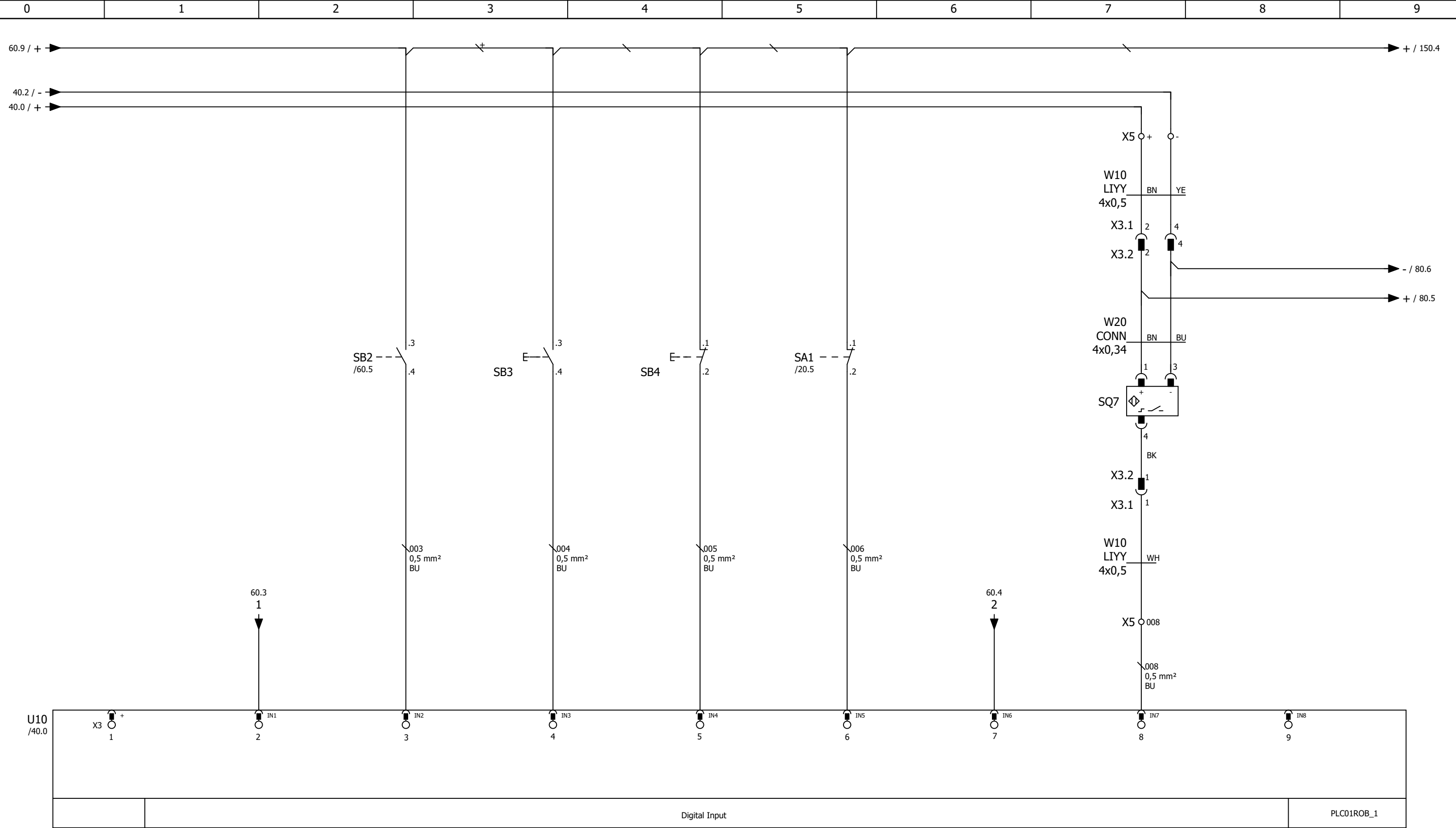
Abilitazione Inverters
Inverters enable



Description

Circuito ausiliario
Auxiliary circuit

Code	3709305855	Date	05/12/2019	Total	29	Prev	40	Subs	70	Page	60
Machine	Freesby 212 h.3100 Window Conv										



Emergenza
Emergency stop

RESET
RESET

Start

STOP
STOP

Sospensione sicurezza
carrello
Carriage safety
exception

Emergenza carrello
Carriage emergency

Fase tavola
Table phase



Description

Circuito ausiliario
Auxiliary circuit

Code

3709305855

Date

05/12/2019

Total

29

Prev

60

Subs

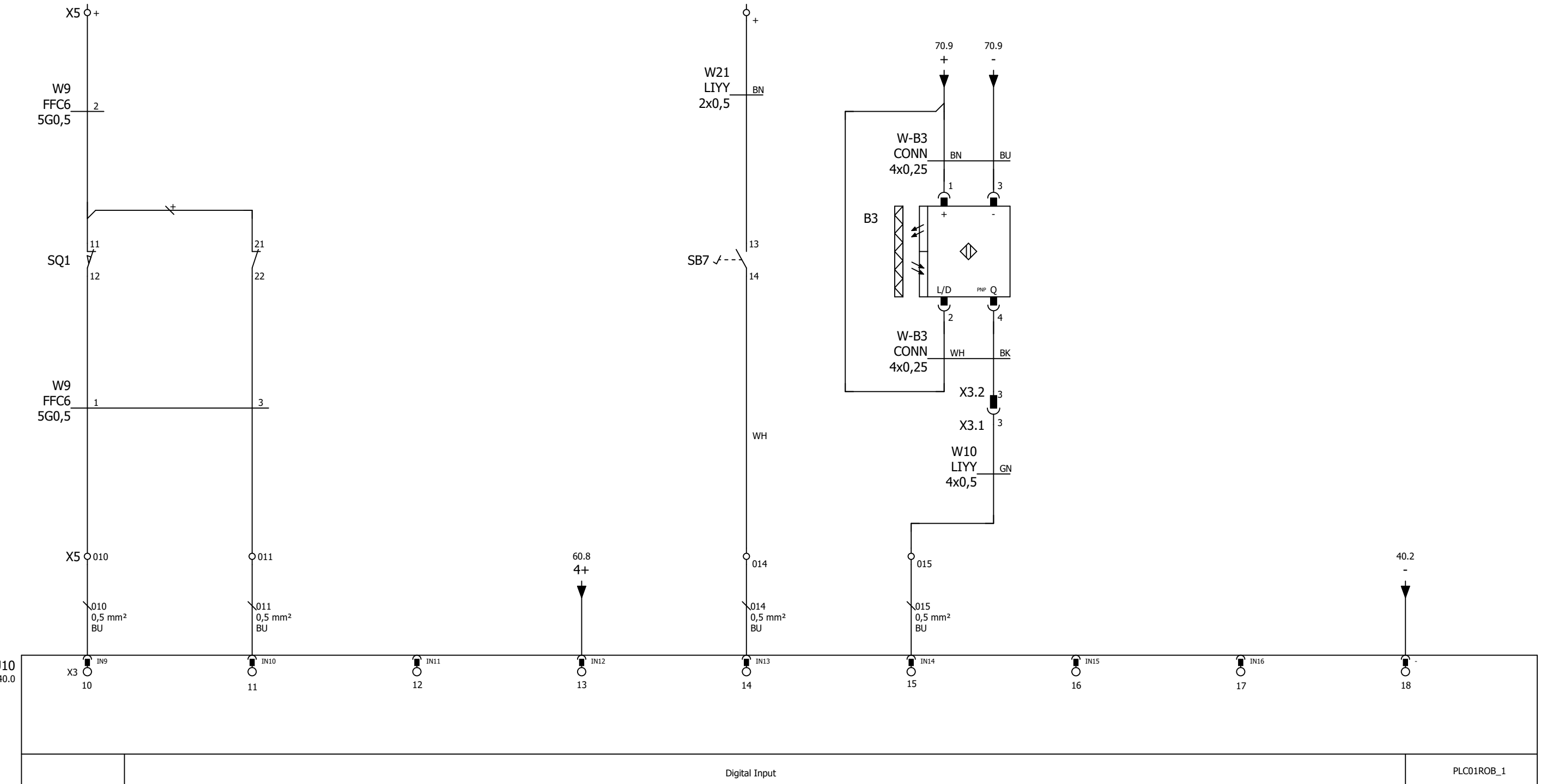
80

Page

70

Machine

Freesby 212 h.3100 Window Conv



Finecorsa alto
High Limit switch

Finecorsa basso
Down Limit switch

Retroazione emergenza
Emergency feedback

Pedale salita discesa pressore
Up-down pressure pedal

Fotocellula rulliera
Conveyor photocelle



Description

Circuito ausiliario
Auxiliary circuit

Code 3709305855

Date 05/12/2019

Total 29

Prev 70

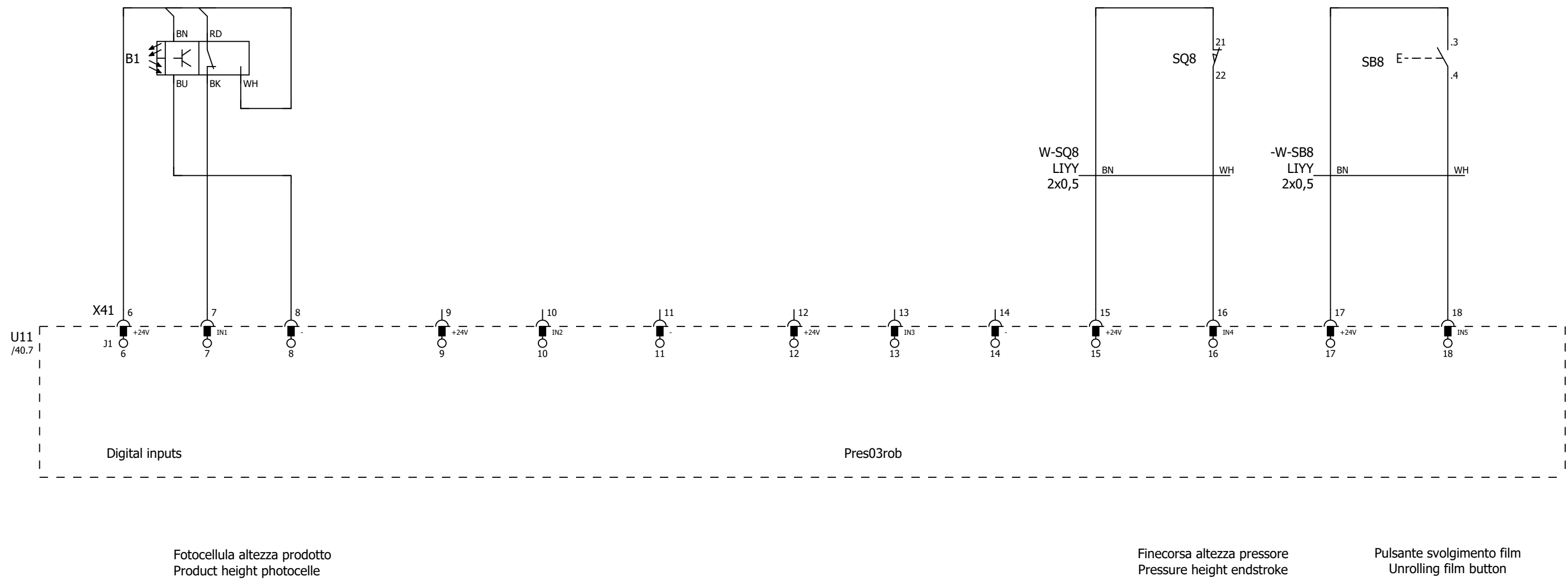
Subs 100

Page

Machine

Freesby 212 h.3100 Window Conv

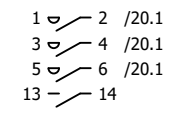
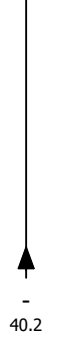
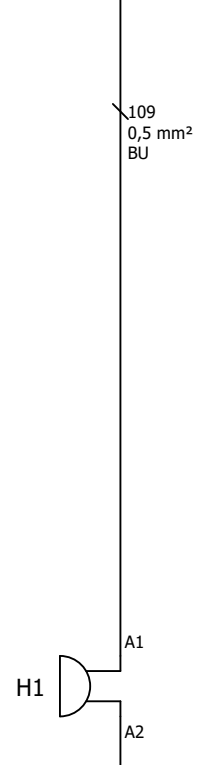
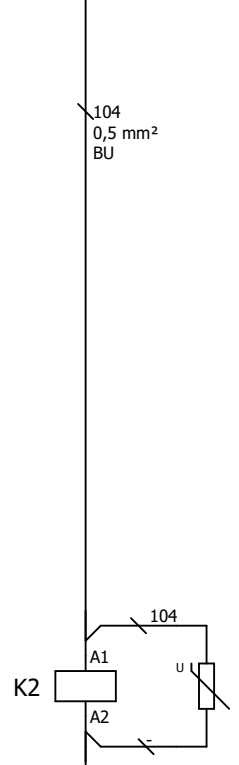
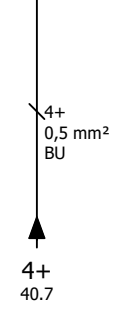
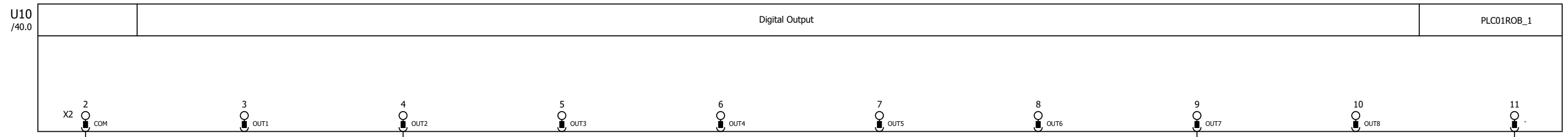
80



Description

Circuito ausiliario
Auxiliary circuit

Code	3709305855	Date	05/12/2019	Total	29	Prev	80	Subs	110	Page	100
Machine	Freesby 212 h.3100 Window Conv										



Freno motore tavola
Table motor brake

Sirena
Siren



Description

Circuito ausiliario
Auxiliary circuit

Code 3709305855

Date 05/12/2019

Total 29

Prev 100

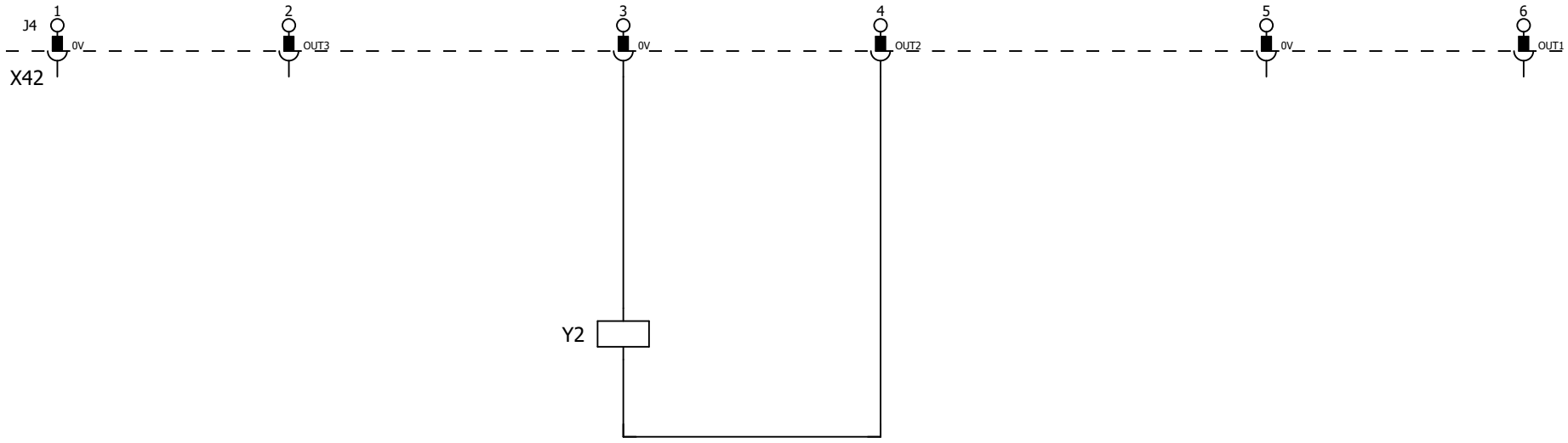
Subs 140

Page

Machine

Freesby 212 h.3100 Window Conv

U11
/40.7



Taglio
Cut
(Optional)



Description

Circuito ausiliario
Auxiliary circuit

Code

3709305855

Date

05/12/2019

Total

29

Prev

110

Subs

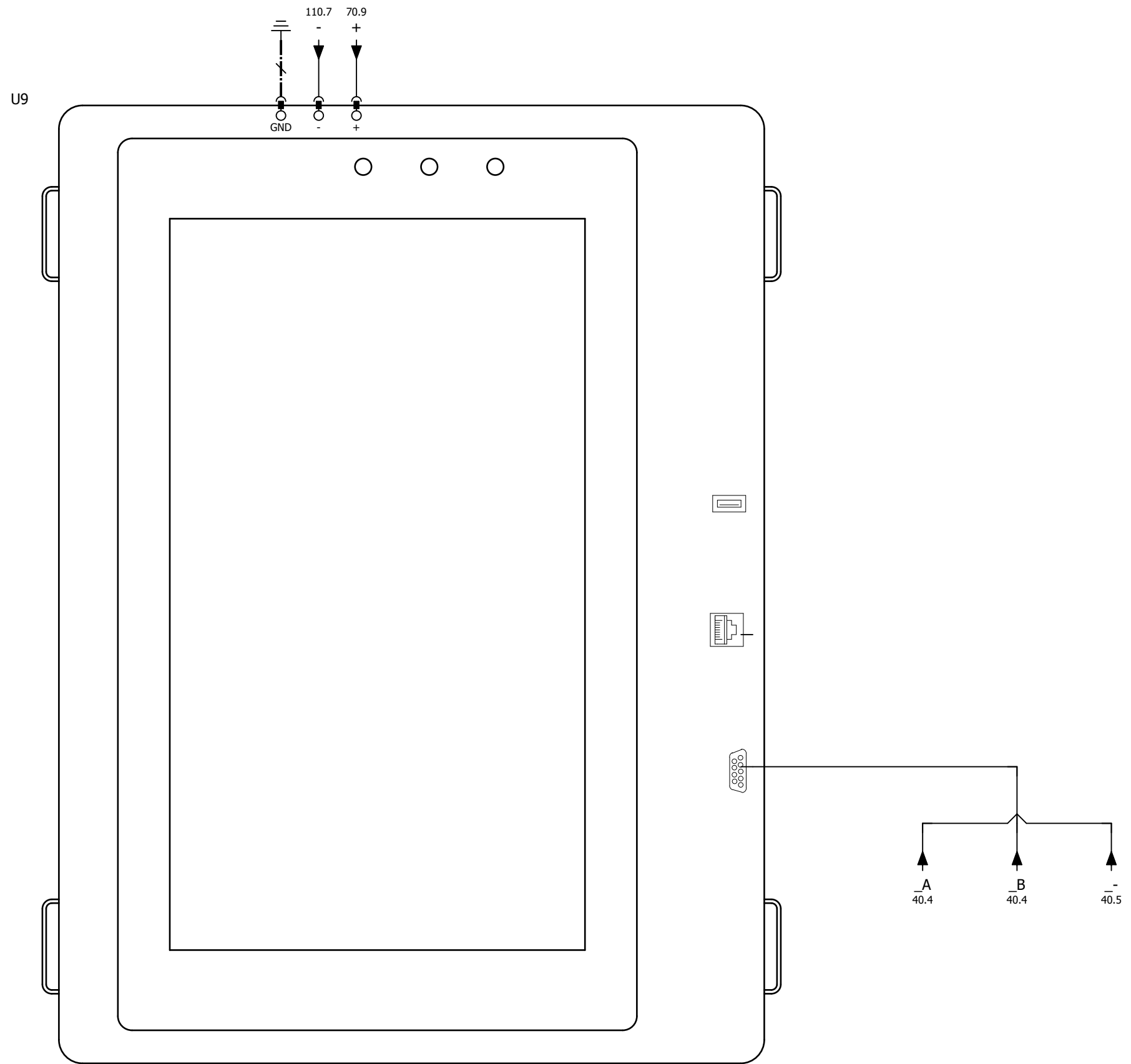
150

Page

140

Machine

Freesby 212 h.3100 Window Conv



Description

Circuito auxiliar
Auxiliary circuit

Code 3709305855

Date 05/12/2019

Total 29

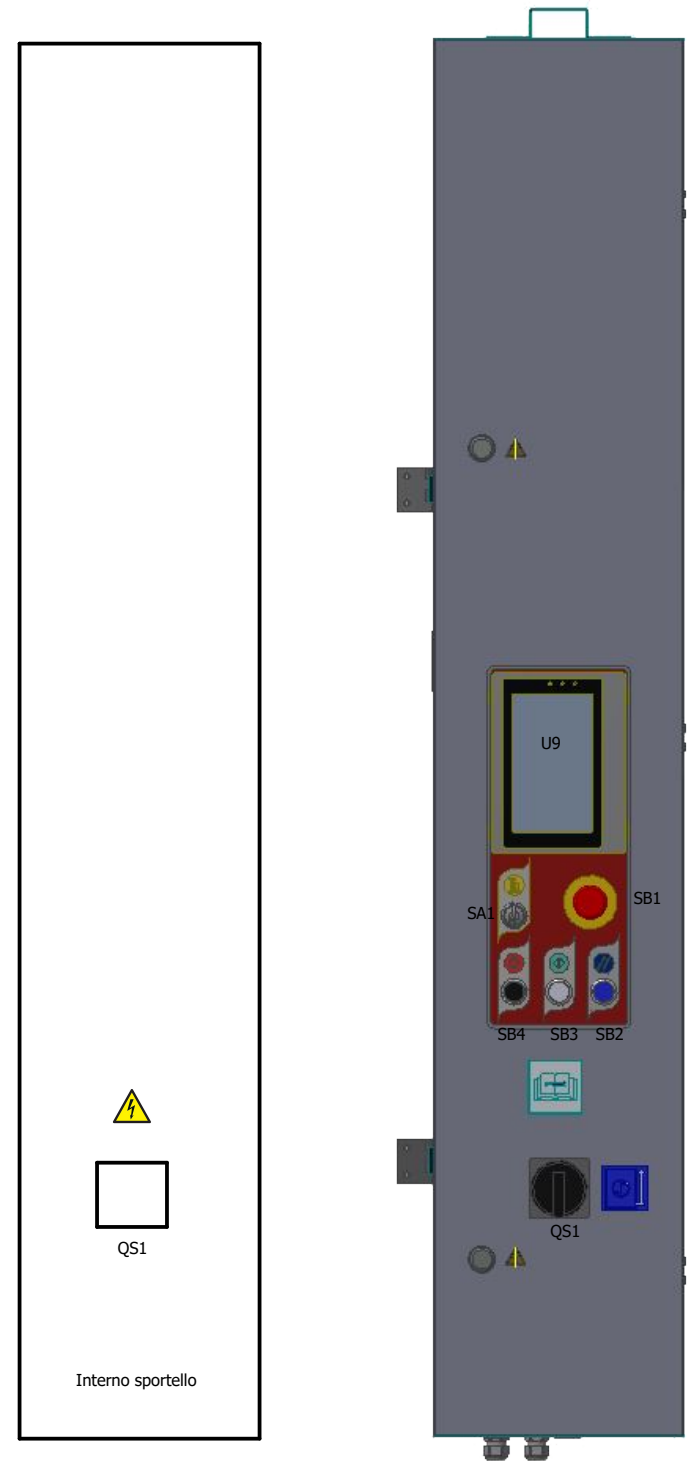
Prev 140

Subs 160

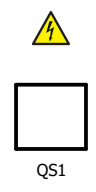
Page

Machine

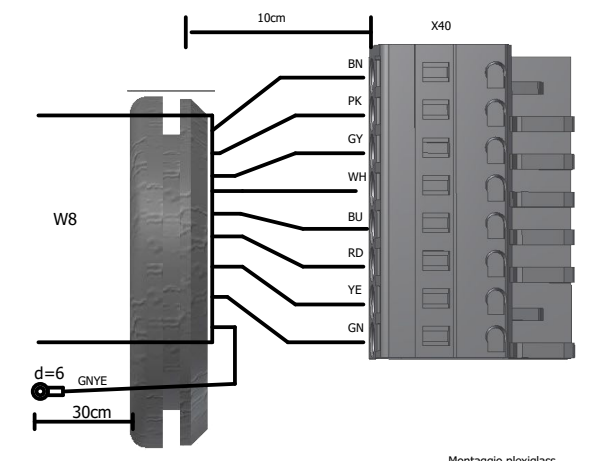
Freesby 212 h.3100 Window Conv



Per il quadrista:
 posizionare la targa pericolo di folgorazione
 sopra il sezionatore di alimentazione QS1

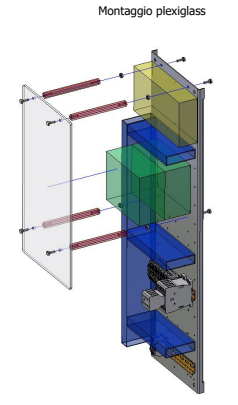


Interno sportello

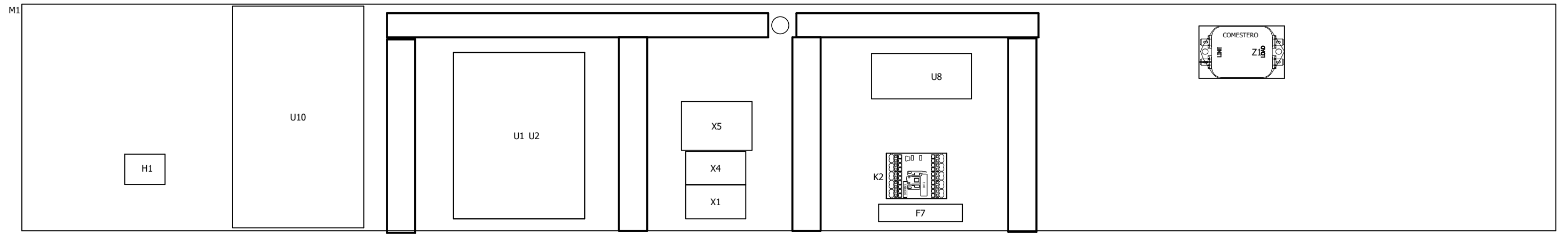


Posizionare la leva 90° a sinistra.

- 11 - Filo 2
- 12 - Filo 1
- 21 - Ponte con contatto 11
- 22 - Filo 3



Per il quadrista: W0 deve proseguire fino a QS1 passando nella parte inferiore della cassetta (sotto il filtro).
 Tragitto inverso per W00 per collegarsi sul Line di Z1.



Parte bassa



Description

Layout

Code 3709305855

Date 05/12/2019

Total 29

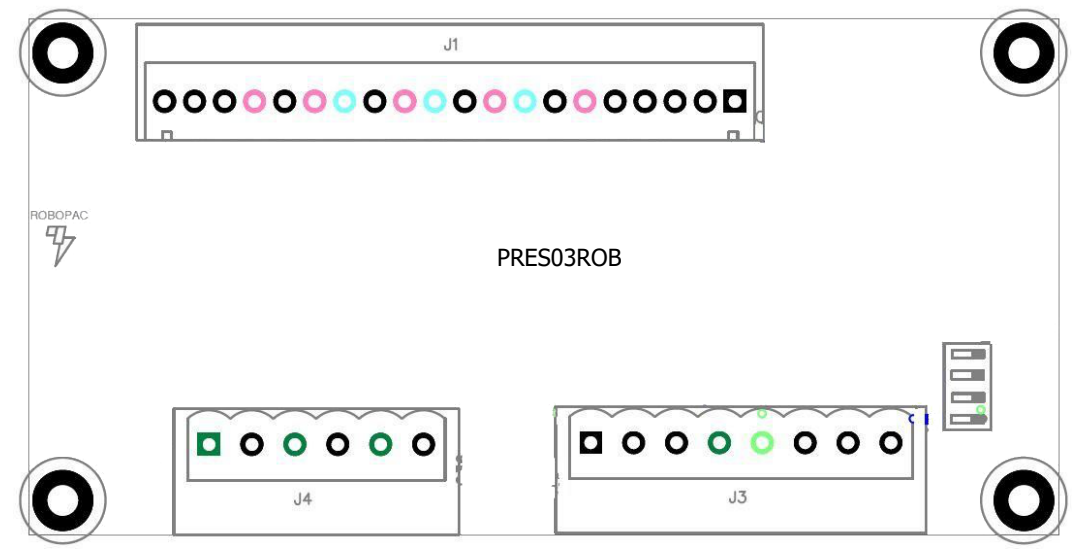
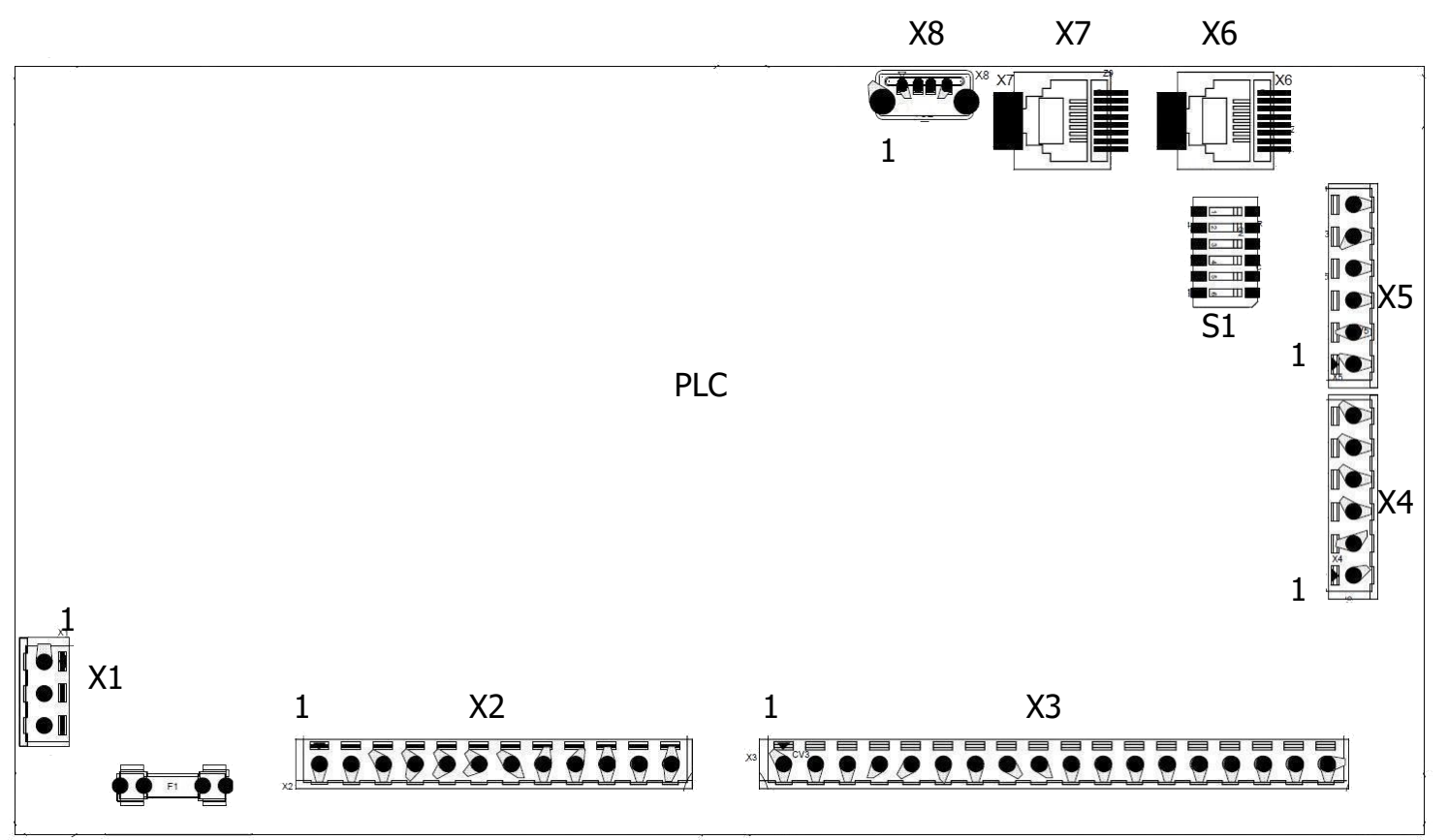
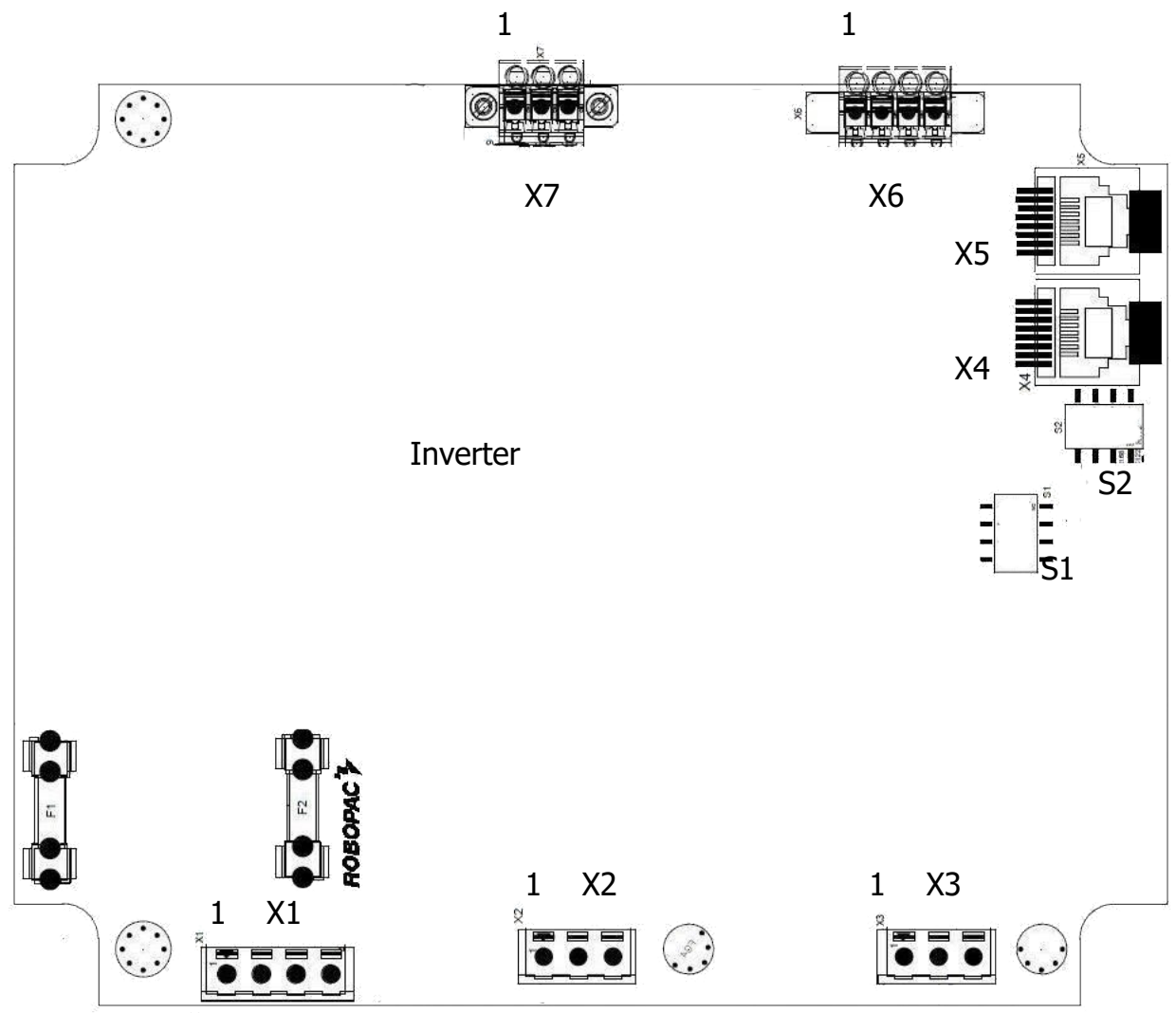
Prev 150

Subs 162

Page

Machine

Freesby 212 h.3100 Window Conv



Description
Plc, Inverter

Code	3709305855	Date	05/12/2019	Total	29	Prev	160	Subs	163	Page	162
Machine	Freesby 212 h.3100 Window Conv										

Sommario cavi

Cavo	Origine	N° Conduttori	Sezione	Capicorda origine	Spelatura origine (cm)	Lunghezza fuori cassetta (m)	Spelatura destinazione (cm)	Capicorda destinazione	Destinazione	Note
-W0		3G	2,5 mm ²	Puntalino	15	2,8	7	Puntalino	-QS1	
-W1	-U1;-E1	4G	1,5 mm ²	--	15	3	10	Occhiello d=4, Gnd e sch d=5	-M1	
-W2	-U1;-E2	4G	1 mm ²	--	15	2,8	10	Occhiello d=4, Gnd e sch d=5	-M2	
-W3	-U2;-E3	4G	1 mm ²	--	15	3,6	10	Occhiello d=4, Gnd e sch d=5	-M3	In catena portacavo
-W8	-X5;-X4			--	15	3,5	7	--	-X40	In catena portacavo
-W9	-X5	5G	0,5 mm ²	--	15	3,05	5	Puntalino	-SQ1	In catena portacavo
-W10	-X5	4	0,5 mm ²	--	15	2,7	7	Puntalino	-X3.1	
-W13	-U1	4	0,34 mm ²	--	15	2,95			-SQ4	
-W21	-X5	2	0,5 mm ²	--	15	5	7	Puntalino	-SB7	In guaina.
-W-YB2	-K2	3G	1 mm ²	--	15	2,8	7	Occhiello d=4, Gnd d=5	-YB2	



Description

Sommario cavi
Cable overview

Code

3709305855

Date

05/12/2019

Total

29

Prev

162

Subs

164

Page

163

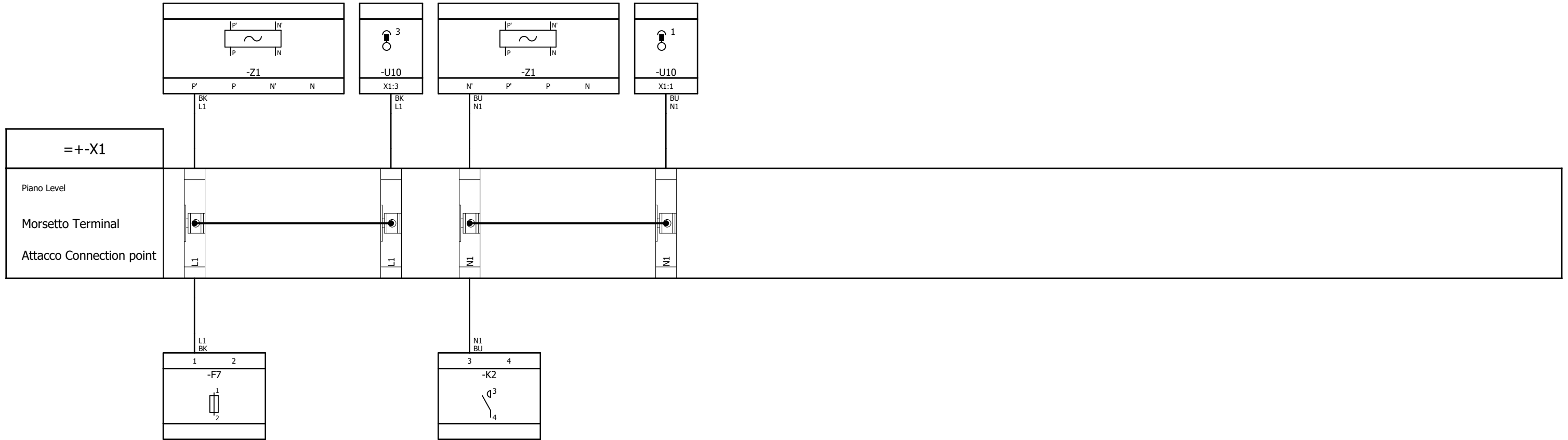
Machine

Freesby 212 h.3100 Window Conv

Schema allacciamento morsetti

Terminal-connection diagram

Destinazioni interne
Internal targets



Destinazioni esterne
External targets



Description

Morsettiera di potenza
Power terminalboard

Code

3709305855

Date

05/12/2019

Total

29

Prev

163

Subs

165

Page

Machine

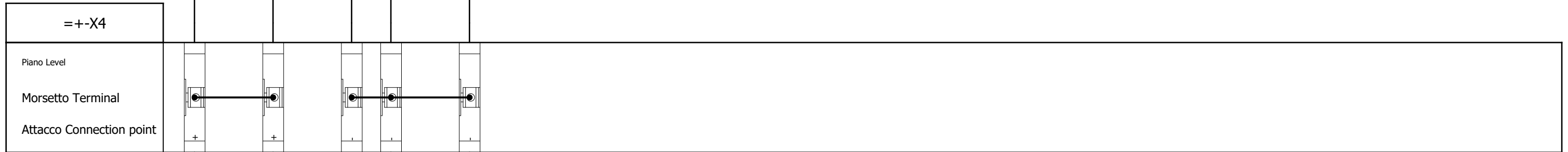
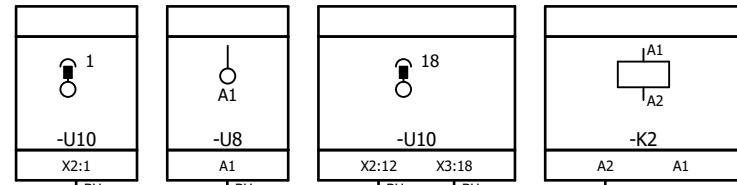
Freesby 212 h.3100 Window Conv

164

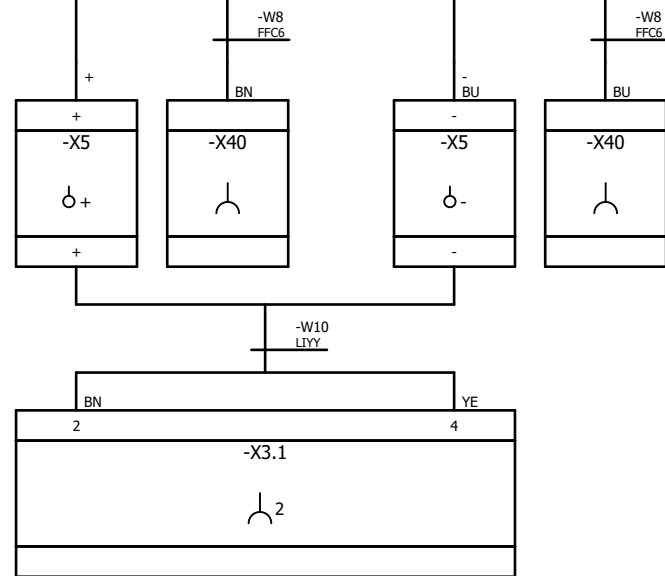
Schema allacciamento morsetti

Terminal-connection diagram

Destinazioni interne
Internal targets



Destinazioni esterne
External targets



Description

Morsettiera 24Vdc
24Vdc terminalboard

Code

3709305855

Date

05/12/2019

Total

29

Prev

164

Subs

166

Page

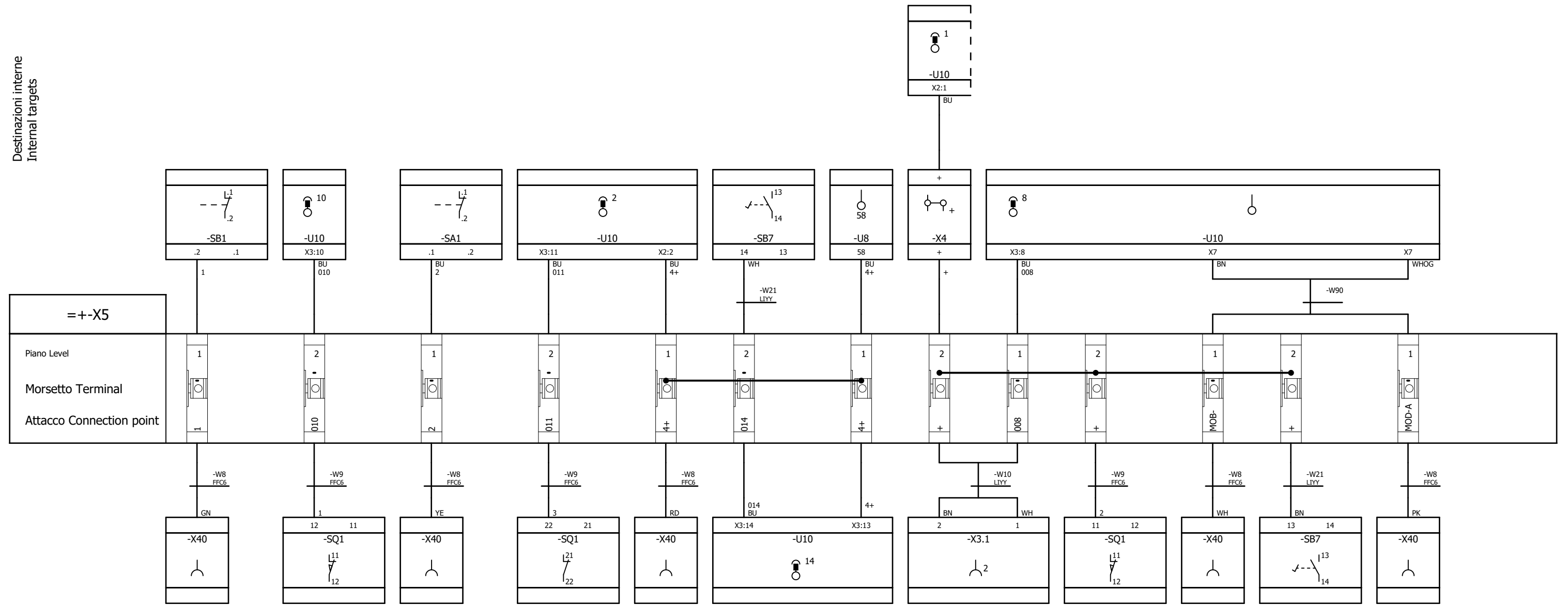
165

Machine

Freesby 212 h.3100 Window Conv

Schema allacciamento morsetti

Terminal-connection diagram



Destinazioni esterne
External targets

Destinazioni interne
Internal targets

Emergenza carrello
Carriage emergency

Fincorsa alto
High Limit switch

Emergenza carrello
Carriage emergency

Fincorsa basso
Down Limit switch

Emergenza carrello
Carriage emergency

Pedale salita discesa pressore
Up-down pressure pedal

RESET
RESET

Fase tavola
Table phase

=

Fincorsa alto
High Limit switch

Cella di carico
Load cell

Pedale salita discesa pressore
Up-down pressure pedal

Cella di carico
Load cell

Description

Morsettiera Ausiliari
Aux Terminal strip

Code

3709305855

Date

05/12/2019

Total

29

Prev

165

Subs

167

Page

166

Machine

Freesby 212 h.3100 Window Conv



Schema allacciamento morsetti

Terminal-connection diagram



Destinazioni esterne
External targets

Destinazioni interne
Internal targets

Fase tavola
Table phase

Cella di carico
Load cell

Fotocellula rulliera
Conveyor photocelle



Description

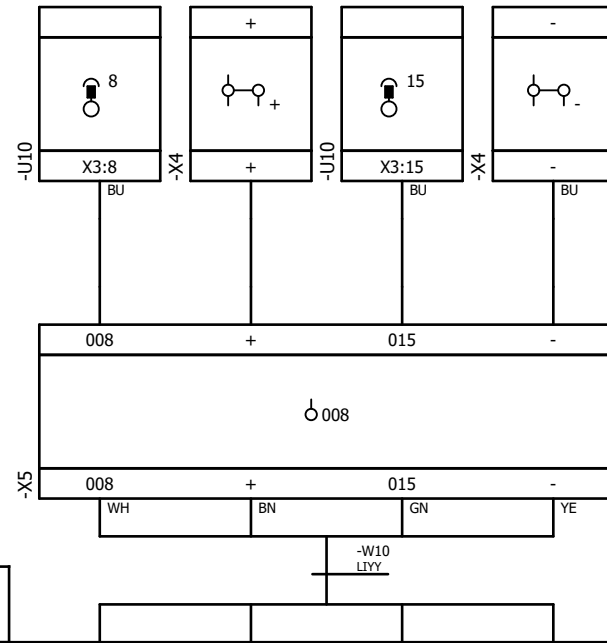
Morsettiera Ausiliari
Aux Terminal strip

Code	3709305855	Date	05/12/2019	Total	29	Prev	166	Subs	168	Page	167
Machine	Freesby 212 h.3100 Window Conv										

Schema allacciamento connettori

Pin-connection diagram

Destinazioni interne



=+-X3.1



Destinazioni esterne

Fase tavola
Table phase

||

Fotocellula rulliera
Conveyor photocelle

Fase tavola
Table phase

Connettore basamento
Base connector

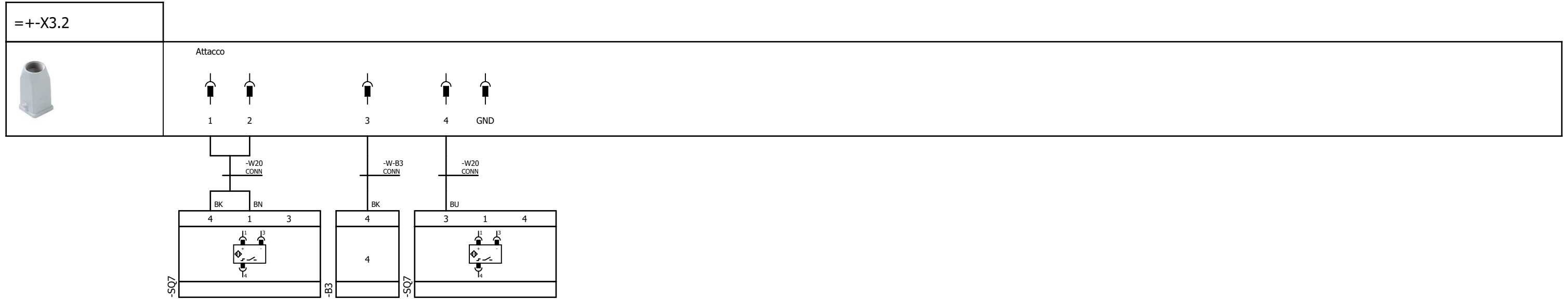


Code	3709305855	Date	05/12/2019	Total	29	Prev	167	Subs	169	Page	168
Machine	Freesby 212 h.3100 Window Conv										

Schema allacciamento connettori

Pin-connection diagram

Destinazioni interne



Destinazioni esterne

Fase tavola
Table phase

Fotocellula rulliera
Conveyor photocelle

Fase tavola
Table phase

Connettore basamento
Base connector

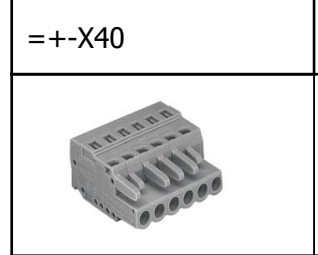
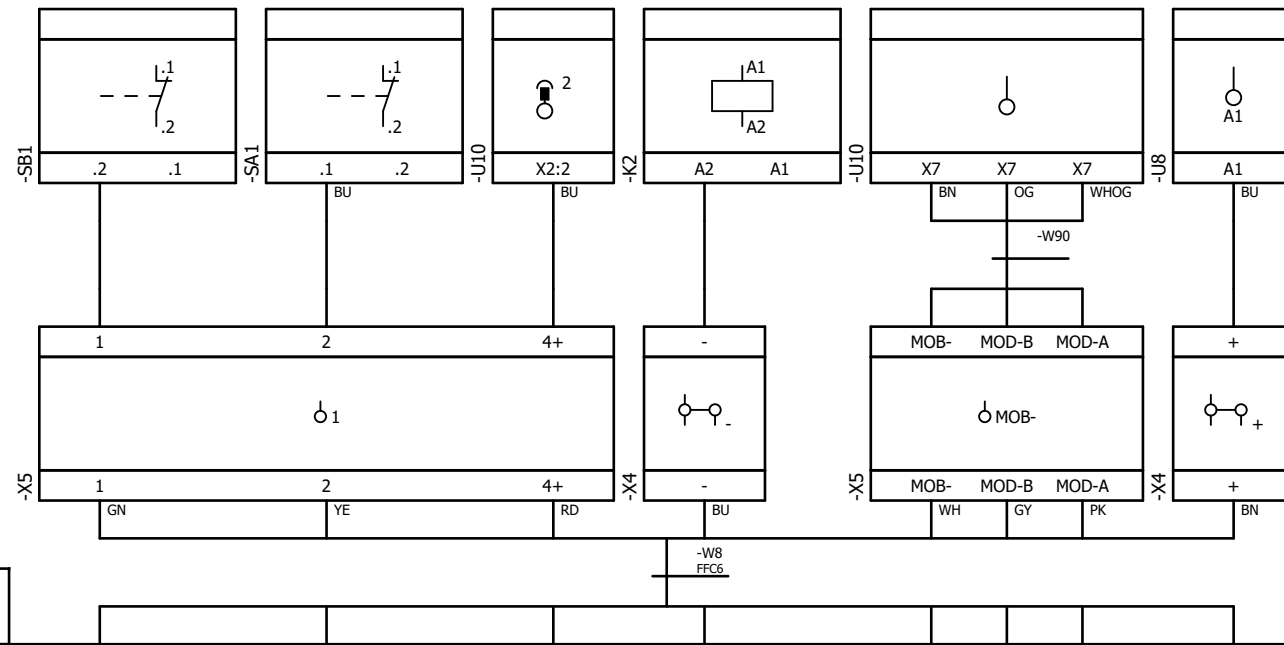


Code	3709305855	Date	05/12/2019	Total	29	Prev	168	Subs	170	Page	169
Machine	Freesby 212 h.3100 Window Conv										

Schema allacciamento connettori

Pin-connection diagram

Destinazioni interne



Destinazioni esterne

- Emergenza carrello
Carriage emergency
- Emergenza carrello
Carriage emergency
- Emergenza carrello
Carriage emergency
- Cella di carico
Load cell
- Cella di carico
Load cell
- ||
- ||
- ||



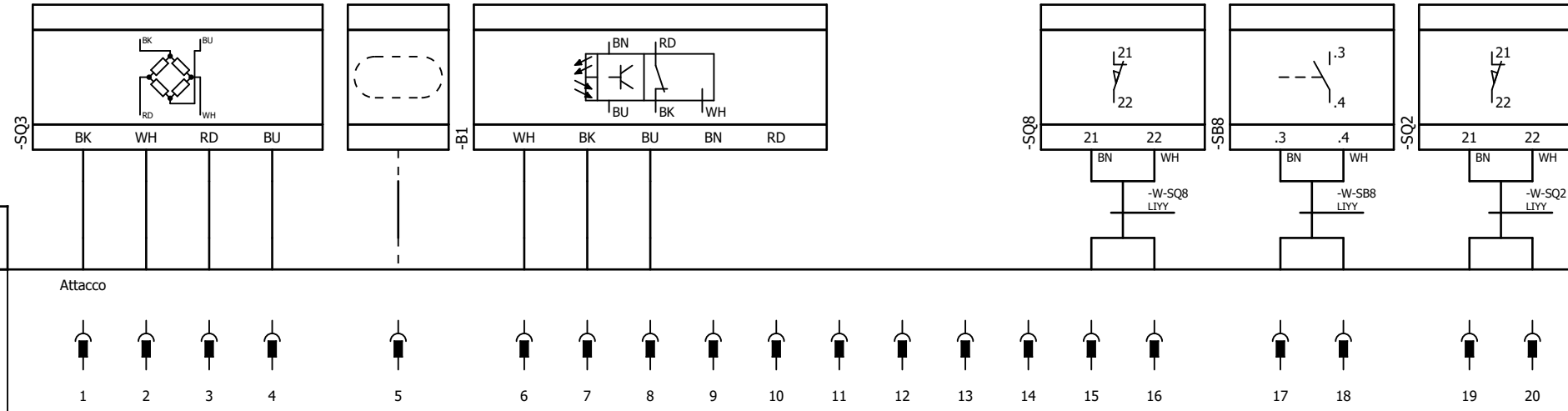
Description

Code	3709305855	Date	05/12/2019	Total	29	Prev	169	Subs	171	Page	170
Machine	Freesby 212 h.3100 Window Conv										

Schema allacciamento connettori

Pin-connection diagram

Destinazioni interne



Destinazioni esterne

Cella di carico Load cell					Fotocellula altezza prodotto Product height photocelle													Pulsante svolgimento film Unrolling film button		Emergenza carrello Carriage emergency	
------------------------------	--	--	--	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--



Description

Code	3709305855	Date	05/12/2019	Total	29	Prev	170	Subs	172	Page	171
Machine	Freesby 212 h.3100 Window Conv										

Schema allacciamento connettori

Pin-connection diagram

Destinazioni interne



Destinazioni esterne

Taglio
Cut || || ||



Description