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 Repubblica di San Marino

Modello Macchina Machine Model Maschine Modell Modele de la Machine Modelo Maquina	<b>Robot S7 P3GS/PVS Stop&amp;Go</b>		Numero Matricola Machine Serial Number Maschine Kennummer Numero de Matricule Numero de Matricula		
Tensione di alimentazione Power Supply Voltage Spannungsversorgung Voltage electrique Tension de Alimentacion	<b>100-240V</b>	<b>50 Hz / 60 Hz</b>	Potenza Installata Installed Power Installierte Leistung Puissance installée Potencia Instalada	<b>kW</b> <b>Page 3</b>	Corrente Assorbita Absorbed Current Stromaufnahme Absorption Electrique Absorcion <b>A</b> <b>Page 3</b>
<b>For Robopac Use Only</b>					
Control cabinet code	<b>7450307767</b>	Revision index	<b>R0</b>	Bill number	
<div style="border: 2px solid red; padding: 10px; text-align: center;"> <b>ESECUZIONE SPECIALE</b> </div>		Costruire secondo specifica tecnica 50.1.1 Controllare con scheda di collaudo			7450307767_Reer
		Edited by	<b>Savioli V.</b>	Checked by	<b>P.Ginetti</b>



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		2.1	Sommario delle pagine : /35 - /230 Table of contents : /35 - /230		14/02/2022	vsavioli
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		5	Distinta articoli Parts list		10/02/2022	vsavioli
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		10	Alimentazione Power supply		14/02/2022	vsavioli
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		25	Motore carrello salita/discesa Carriage motor upstroke/downstroke		09/02/2022	vsavioli
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		59	Circuito emergenza Emergency circuit		14/02/2022	vsavioli
		60	Circuito emergenza Emergency circuit		10/02/2022	vsavioli
		80	Circuito di potenza Power circuit		09/02/2022	vsavioli
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		310	Uscite Outputs		10/02/2022	vsavioli
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		400	Pannello Operatore Operator panel		09/02/2022	vsavioli
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		600	Layout armadio elettrico Panel layout		14/02/2022	vsavioli
		605	Layout armadio elettrico Panel layout		09/02/2022	vsavioli
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		671	Sommario cavi Cable overview		10/02/2022	vsavioli
		672	Schema morsetti =+-X1 Terminal diagram =+-X1		10/02/2022	vsavioli

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		674	Schema morsetti =+-X3 Terminal diagram =+-X3		14/02/2022	vsavioli
		674.a	Schema morsetti =+-X3 Terminal diagram =+-X3		10/02/2022	vsavioli
		675	Schema morsetti =+-X8.1 Terminal diagram =+-X8.1		10/02/2022	vsavioli
		676	Schema morsetti =+-X10.1 Terminal diagram =+-X10.1		10/02/2022	vsavioli
		677	Schema morsetti =+-X20.1 Terminal diagram =+-X20.1		10/02/2022	vsavioli
		678	Schema morsetti =+-X30.1 Terminal diagram =+-X30.1		10/02/2022	vsavioli
		679	Schema morsetti =+-X31.1 Terminal diagram =+-X31.1		10/02/2022	vsavioli
		680	Schema morsetti =+-X0206 Terminal diagram =+-X0206		10/02/2022	vsavioli
		681	Schema morsetti =BM+CAR-X2006 Terminal diagram =BM+CAR-X2006		10/02/2022	vsavioli
		682	Schema allacciamento connettori =+-X0.1 Pin-connection diagram =+-X0.1		10/02/2022	vsavioli
		683	Schema allacciamento connettori =+-X0.2 Pin-connection diagram =+-X0.2		10/02/2022	vsavioli
		684	Schema allacciamento connettori =+-X2005.1 Pin-connection diagram =+-X2005.1		10/02/2022	vsavioli
		685	Schema allacciamento connettori =+-X3104.1 Pin-connection diagram =+-X3104.1		10/02/2022	vsavioli
		686	Schema allacciamento connettori =+-X3104.2 Pin-connection diagram =+-X3104.2		10/02/2022	vsavioli
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		688	Schema allacciamento connettori =+-X3106.2 Pin-connection diagram =+-X3106.2		10/02/2022	vsavioli
		689	Schema allacciamento connettori =+-X4007 Pin-connection diagram =+-X4007		10/02/2022	vsavioli
		690	Schema allacciamento connettori =BM+CAR-X403.1 Pin-connection diagram =BM+CAR-X403.1		10/02/2022	vsavioli
		691	Schema allacciamento connettori =BM+CAR-X403.2 Pin-connection diagram =BM+CAR-X403.2		10/02/2022	vsavioli
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		692.a	Schema allacciamento connettori =BM+CAR-X2005.2 Pin-connection diagram =BM+CAR-X2005.2		10/02/2022	vsavioli
		693	Schema allacciamento connettori =+-X8.2 Pin-connection diagram =+-X8.2		10/02/2022	vsavioli
		694	Schema allacciamento connettori =+-X8.3 Pin-connection diagram =+-X8.3		10/02/2022	vsavioli
		695	Schema allacciamento connettori =+-X10.2 Pin-connection diagram =+-X10.2		10/02/2022	vsavioli
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		699	Schema allacciamento connettori =+-X30.2 Pin-connection diagram =+-X30.2		10/02/2022	vsavioli
		700	Schema allacciamento connettori =+-X30.3 Pin-connection diagram =+-X30.3		10/02/2022	vsavioli
		701	Schema allacciamento connettori =+-X31.2 Pin-connection diagram =+-X31.2		10/02/2022	vsavioli

Battery charger	NE 284	NE 328
V	100/240	100/240
kW	0,5	0,8
A	5/2	8/3,3



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# Distinta articoli

## Parts list

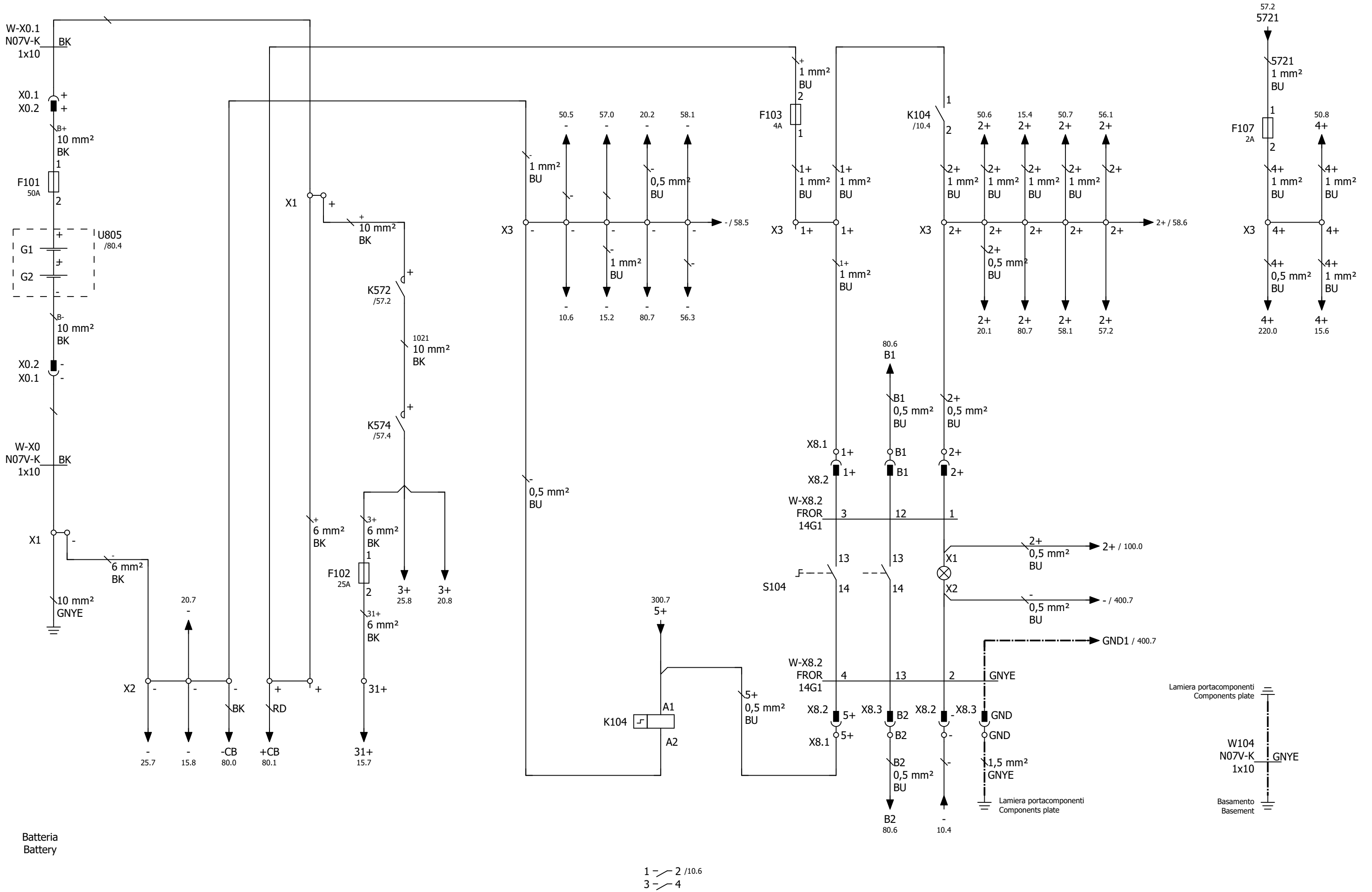
DT	Designazione Designation	Numero tipo Type number	Produttore Manufacturer	Quantità Quantity	Codice Code	Pagina Page
X0.2	Connettore 2P 50A Connector 2P 50A	6331G1-BK	Anderson Power Products	1	00L0026523A	/10.0
X0.2	Maniglia Handle	995G50-BK	Anderson Power Products	1	00L0026524C	/10.0
X0.1	Connettore 2P 50A Connector 2P 50A	6331G1-BK	Anderson Power Products	1	00L0026523A	/10.0
F102	Fusibile Cilindrico 10,3x38 GG 25A 500VAC Cylindrical Fuse 10,3x38 GG 25A 500VAC	10,3x38 GG 25A 500VAC		1	0001304234	/10.2
F102	Base per fusibile 10,3 X 38 Base for fuse 10,3 x 38	10,3X38 1P		1	0001352427E	/10.2
K104	Relé ad impulso, 2contatti NO 16A,24Vdc Modular step relay, double phase switch 2 NO (DPST-NO) - DC - 24 V - AgNi	20.22.9.024.0000	Finder	1	0001304323E	/10.4
F103	Fusibile Cilindrico 5x20 4A Ritardato Cylindrical Fuse 5x20 4A T	5x20 RIT 4A 500VAC		1	0001304080H	/10.5
F103	Morsetto portafusibile Terminal block for fuse	2002-1611	Wago	1	00L0074329H	/10.5
S104	Supporto per contatti Fixing adapter	M22-A	Eaton Moeller	1	0001300700A	/10.5
S104	Elementi di contatto, 1NA, Fissaggio frontale, Cage clamp Contact element, 1N/O, Front fixing, Cage clamp	M22-CK10	Eaton Moeller	2	0001300024F	/10.5
S104	Elementi LED, bianco, Fissaggio frontale, Cage clamp LED element, white, Front fixing, Cage clamp	M22-CLED-W	Eaton Moeller	1	0001300926A	/10.5
F107	Fusibile Cilindrico 5x20 2A Rapido Cylindrical Fuse 5x20 2A Fast	5x20 RAP 2A 250VAC		1	0001304031	/10.9
F107	Morsetto portafusibile Terminal block for fuse	2002-1611	Wago	1	00L0074329H	/10.9
W-X2005.1.1	Cavo sistema di misura   iguPUR   chainflex® CF894 (4x(2x0,34)+4x0,5)C Cable	CF894.011	IGUS	5,5	00L0502344	/15.1
W-X2005.1.2	Cavo   iguPUR   chainflex® CF891 (4G1,5)C	CF891.15.04	IGUS	5,5	00L0562992	/15.7
W-A201-X1	Cavo M12 Canopen Fem 2,0m	M12 CANOPEN FEM PF 2,0M	AS Connection Systems	4,9	00L0644270	/20.1
V1	Diodo Diode	1N4007		1	00L0253832	/20.6
F208	Fusibile Cilindrico 10,3x38 GG 32A 500VAC Cylindrical Fuse 10,3x38 GG 32A 500VAC	10,3x38 GG 32A 500VAC		1	0001304238	/20.8
F208	Base per fusibile 10,3 X 38 Base for fuse 10,3 x 38	10,3X38 1P		1	0001352427E	/20.8
W-A251-X1	Cavo M12 Canopen Fem 5,0m	M12 CANOPEN FEM PF 5,0M	AS Connection Systems	1	00L0644269	/25.1
F258	Fusibile Cilindrico 10,3x38 GG 32A 500VAC Cylindrical Fuse 10,3x38 GG 32A 500VAC	10,3x38 GG 32A 500VAC		1	0001304238	/25.8
F258	Base per fusibile 10,3 X 38 Base for fuse 10,3 x 38	10,3X38 1P		1	0001352427E	/25.8
A301	Azionamento Operating element	7BL00045	TIALSEA	1	00L0639095	/30.1
W-M306	Cavo   iguPUR   chainflex® CF891 (4G1,5)C	CF891.15.04	IGUS	0,95	00L0562992	/30.6
F308	Fusibile Cilindrico 10,3x38 GG 25A 500VAC Cylindrical Fuse 10,3x38 GG 25A 500VAC	10,3x38 GG 25A 500VAC		1	0001304234	/30.8
F308	Base per fusibile 10,3 X 38 Base for fuse 10,3 x 38	10,3X38 1P		1	0001352427E	/30.8
A351	Azionamento Operating element	7BL00045	TIALSEA	1	00L0639095	/35.1
W-M356	Cavo   iguPUR   chainflex® CF891 (4G1,5)C	CF891.15.04	IGUS	1,5	00L0562992	/35.6
F358	Fusibile Cilindrico 10,3x38 GG 25A 500VAC Cylindrical Fuse 10,3x38 GG 25A 500VAC	10,3x38 GG 25A 500VAC		1	0001304234	/35.8
F358	Base per fusibile 10,3 X 38 Base for fuse 10,3 x 38	10,3X38 1P		1	0001352427E	/35.8
A401	Azionamento Operating element	7BL00045	TIALSEA	1	00L0639095	/40.1
X403.2	Connettore maschio Male connector	231-638/019-000	Wago	1	0001351467H	/40.3
W0406	Cavo   iguPUR   chainflex® CF891 (4G1,5)C	CF891.15.04	IGUS	1,5	00L0562992	/40.6
F0408	Fusibile Cilindrico 10,3x38 GG 25A 500VAC Cylindrical Fuse 10,3x38 GG 25A 500VAC	10,3x38 GG 25A 500VAC		1	0001304234	/40.8
F0408	Base per fusibile 10,3 X 38 Base for fuse 10,3 x 38	10,3X38 1P		1	0001352427E	/40.8
U500	Logica Programmabile PLC	PLC04ROB	Robopac	1	1430300321	/50.0
U550	Logica Programmabile PLC	PLC04ROB	Robopac	1	1430300321	/55.0
A560	MOSAIC unità principale (8 ingressi / 4 OSSD singole) MOSAIC main unit (8 input / 4 OSSD single)	M1S	Reer	1	00L0405846	/56.0

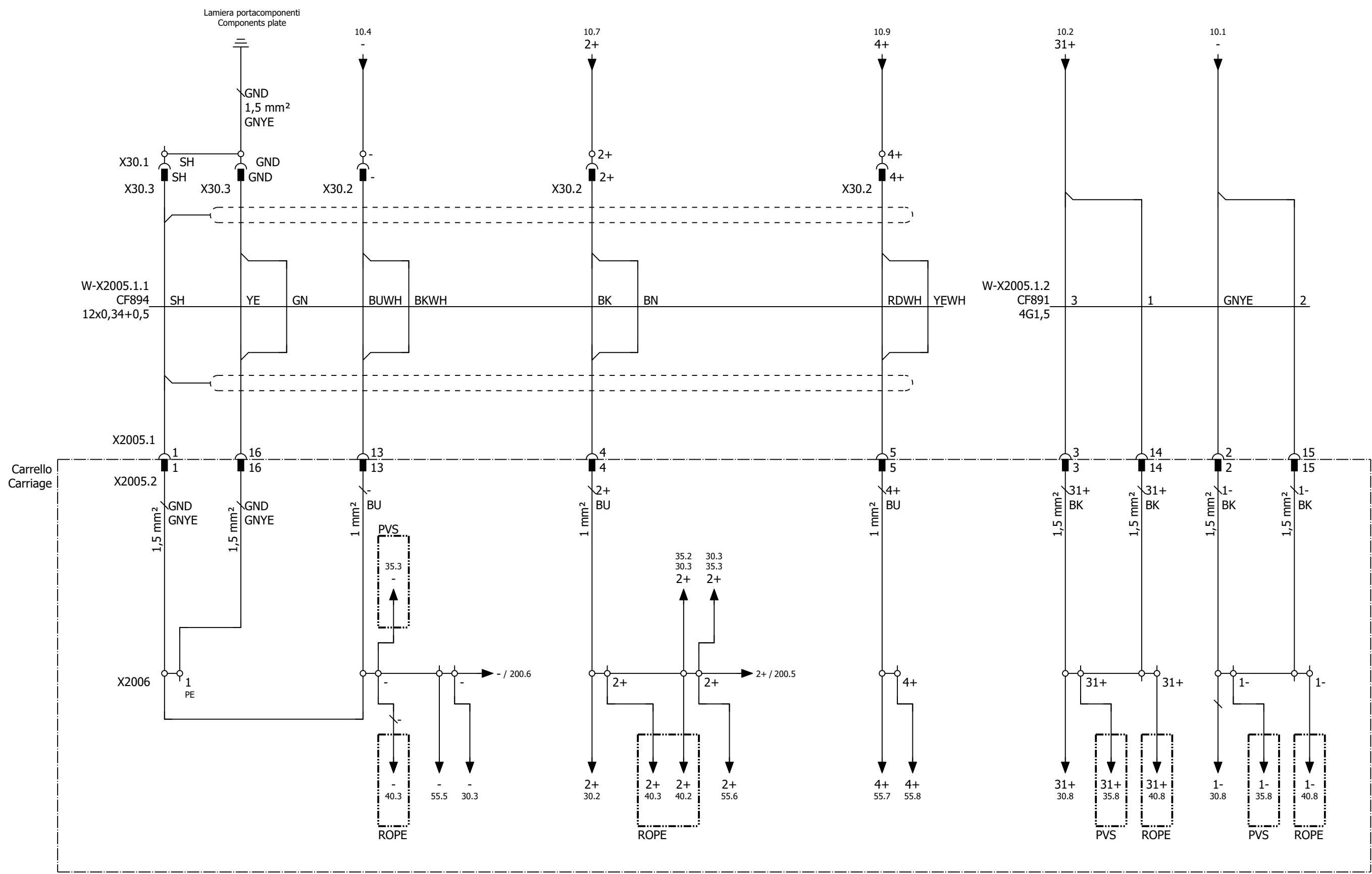
# Distinta articoli

## Parts list

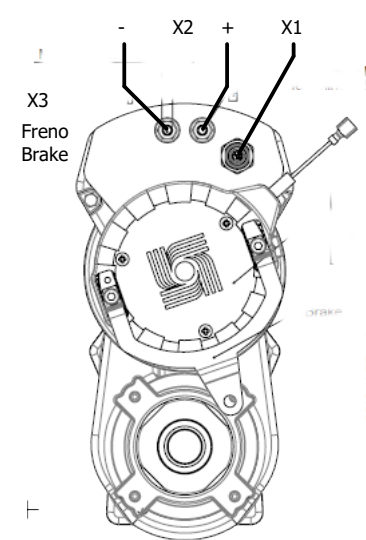
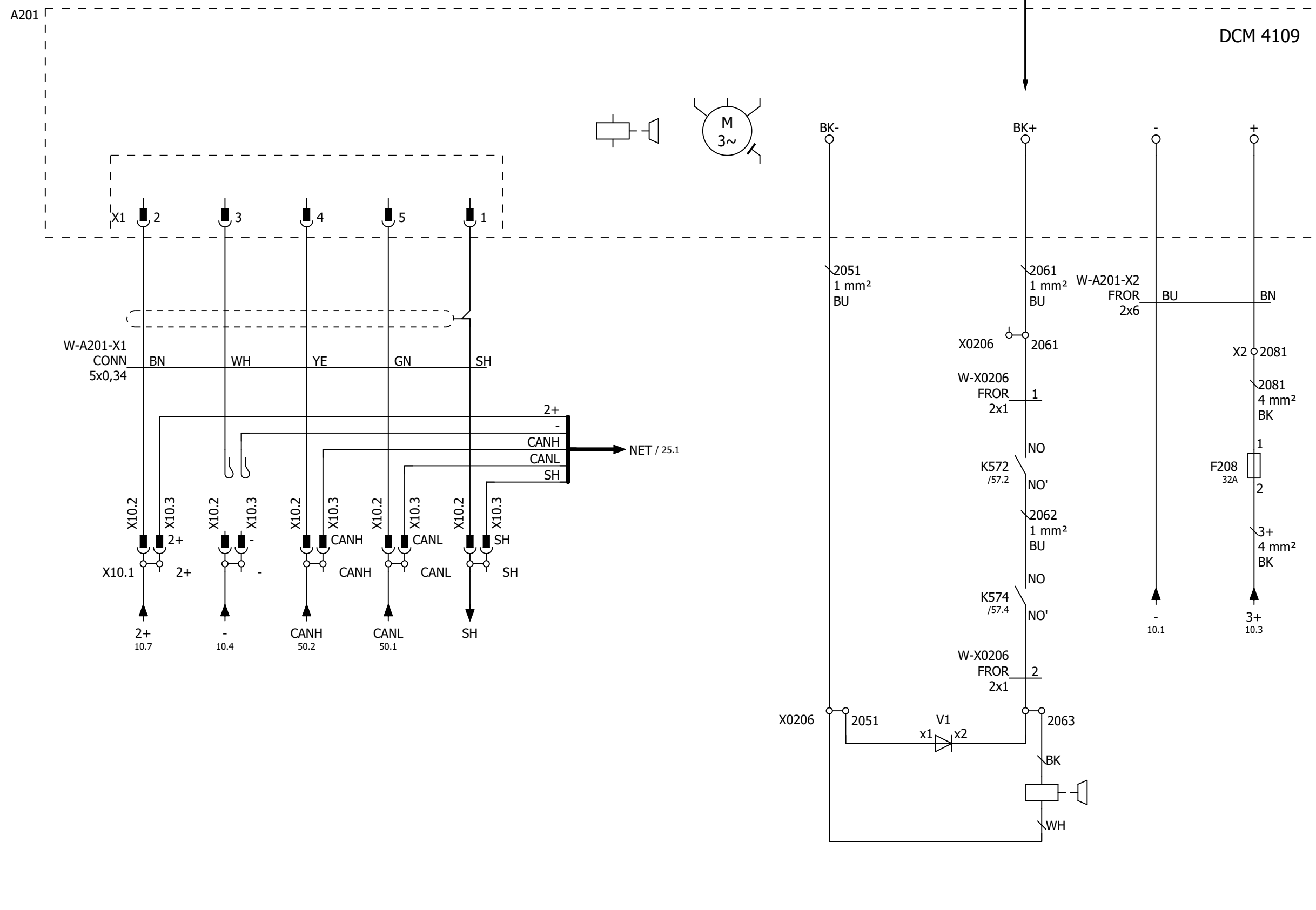
DT	Designazione Designation	Numero tipo Type number	Produttore Manufacturer	Quantità Quantity	Codice Code	Pagina Page
A560	MEMORY CARD		Reer	1	0110300191	/56.0
A560	CONNETTORE BUS MOSAIC MOSAIC BUS CONNECTOR		Reer	1	00L0022231	/56.0
A564	MOSAIC unità di espansione I/O (8 ingressi / 2 OSSD doppie) MOSAIC I/O expansion unit (8 input / 2 OSSD pair)	MI802	Reer	1	0110300196	/56.4
A567	MOSAIC unità di espansione sensori di prossimità MOSAIC proximity expansion unit	MV0	Reer	1	1371300023	/56.7
K571	Relè sicurezza, 2 poli, 8 A, 24Vdc	48.12.9.024.5007	Finder	1	00L0606220	/57.1
K572	Contattore per trazione elettrica Contactor	ETL20PA2	Ravioli	1	0470300003	/57.2
K573	Relè sicurezza, 2 poli, 8 A, 24Vdc	48.12.9.024.5007	Finder	1	00L0606220	/57.3
K574	Contattore per trazione elettrica Contactor	ETL20PA2	Ravioli	1	0470300003	/57.4
U580	Laser scanner di sicurezza Safety Laser Scanner	SZ-16V	Keyence	1	00L0389278	/58.1
W-U580	Cavo per Laser scanner Safety Laser Scanner cable	SZ-P5PM	Keyence	5	00L0681049	/58.1
W-BG586	Cavo M12 4Poli Fem 5,0m Cable m12 4poli fem 5,0m	M12 4P FEM 5,0M		1	0001313474	/58.6
BG586	Fail-safe inductive sensor	GIFA4004-2PS/SIL2/V4A/US	IFM	1	0202310039	/58.6
W-B592	Cavo M12 4Poli Fem 90° 5,0m M12 cable 4p fem 90° 5,0m	M12 4P FEM 90GR 5,0M		1	0001313340B	/59.1
B592	Sensore induttivo, M12 PNP NO Proximity switch, m12 pnp no	AM6/AP-3H		1	0202300001	/59.2
W-B594	Cavo M12 4Poli Fem 90° 5,0m M12 cable 4p fem 90° 5,0m	M12 4P FEM 90GR 5,0M		1	0001313340B	/59.3
B594	Sensore induttivo, M12 PNP NO Proximity switch, m12 pnp no	AM6/AP-3H		1	0202300001	/59.4
S1005	Pulsanti per arresto d'emergenza, Sblocco a rotazione Emergency-Stop actuator, non-illuminated , turn to release	M22-PVT	Eaton Moeller	1	0001300005F	/60.2
S1005				1		/100.5
S1005	Supporto per contatti Fixing adapter	M22-A	Eaton Moeller	1	0001300700A	/60.2
S1005				1		/100.5
S1005	Elementi di contatto, 1NC, Fissaggio frontale, Cage clamp Contact element, 1N/C, Front fixing, Cage clamp	M22-CK01	Eaton Moeller	1	0001300027C	/60.2
S1005				1		/100.5
S1005	Elementi di contatto, 1NA, Fissaggio frontale, Cage clamp Contact element, 1N/O, Front fixing, Cage clamp	M22-CK10	Eaton Moeller	1	0001300024F	/60.2
S1005				1		/100.5
W-S607	Cavo M12 4Poli Fem 5,0m Cable m12 4poli fem 5,0m	M12 4P FEM 5,0M		1	0001313474	/60.7
S607	Finecorsa a cerniera Hinge Limit switch	HP-AA052D-KAM	Pizzato	1	0202300007	/60.7
X806	Connettore maschio Male connector	231-604	Wago	1	0001351430L	/80.7
W-X806	Connettore femmina Female connector	231-104/037-000	Wago	1	0001351429H	/80.7
S1000	Pulsante, piatto, bianco, ad impulso Pushbutton actuator, flush, white, spring-return	M22-D-W	Eaton Moeller	1	0001307116L	/100.0
S1000	Supporto per contatti Fixing adapter	M22-A	Eaton Moeller	1	0001300700A	/100.0
S1000	Elementi di contatto, 1NA, Fissaggio frontale, Cage clamp Contact element, 1N/O, Front fixing, Cage clamp	M22-CK10	Eaton Moeller	1	0001300024F	/100.0
S1004	Pulsante, piatto, blu, ad impulso Pushbutton actuator, flush, blue, spring return	M22-D-B	Eaton Moeller	1	0001300696B	/100.4
S1004	Supporto per contatti Fixing adapter	M22-A	Eaton Moeller	1	0001300700A	/100.4
S1004	Elementi di contatto, 1NA, Fissaggio frontale, Cage clamp Contact element, 1N/O, Front fixing, Cage clamp	M22-CK10	Eaton Moeller	2	0001300024F	/100.4
X2005.1	Connettore femmina Female connector	231-316/037-000	Wago	1	0001351462G	/200.2
SQ2002	Finecorsa Limit switch	FR-1630-M1	Pizzato	1	0001309638L	/200.2
X2005.2	Connettore maschio Male connector	231-646/019-000	Wago	1	0001351460C	/200.4
B2005	Fotocellula Photocell	S6-5-C200	Datalogic	1	0001310154D	/200.5

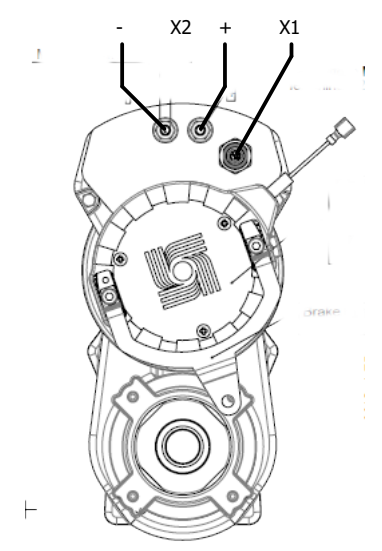
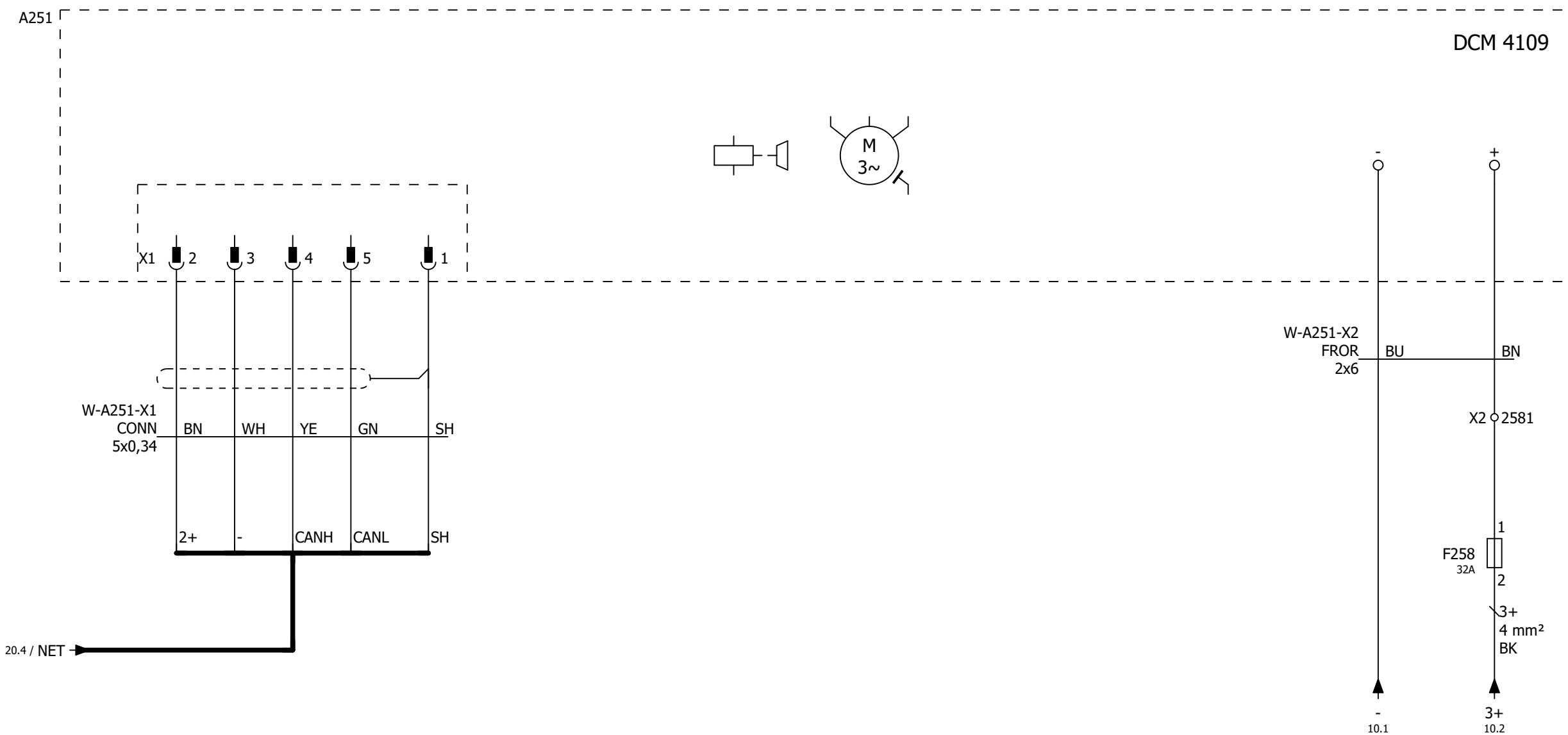


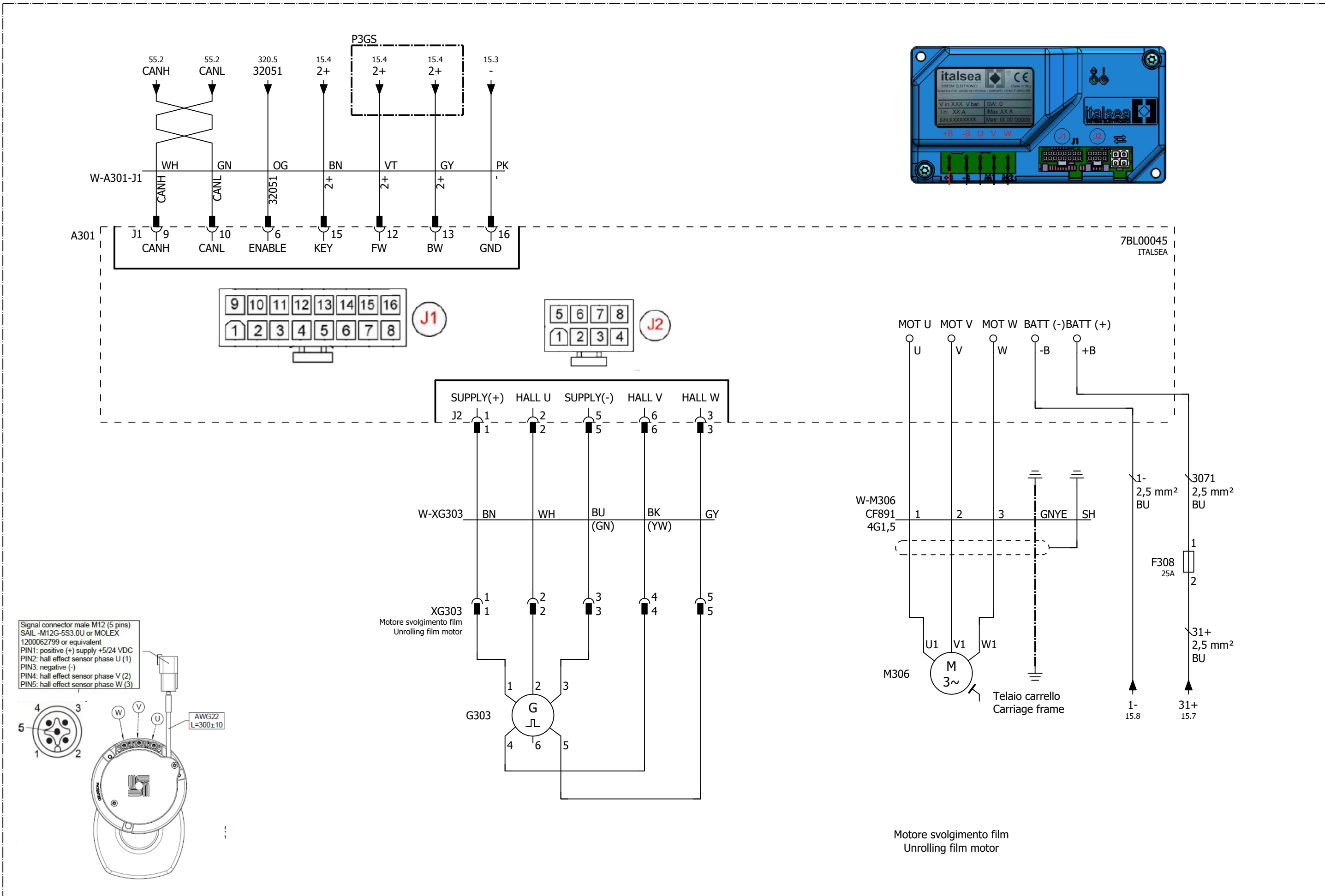




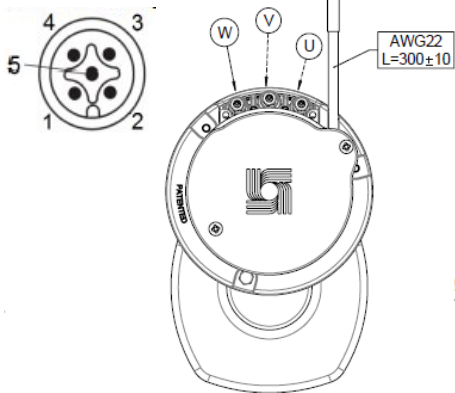
NOTA PER MONTAGGIO:  
Il morsetto BK+ è quello più vicino al connettore M12 X1

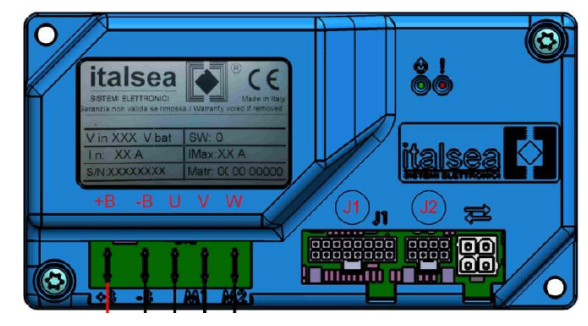
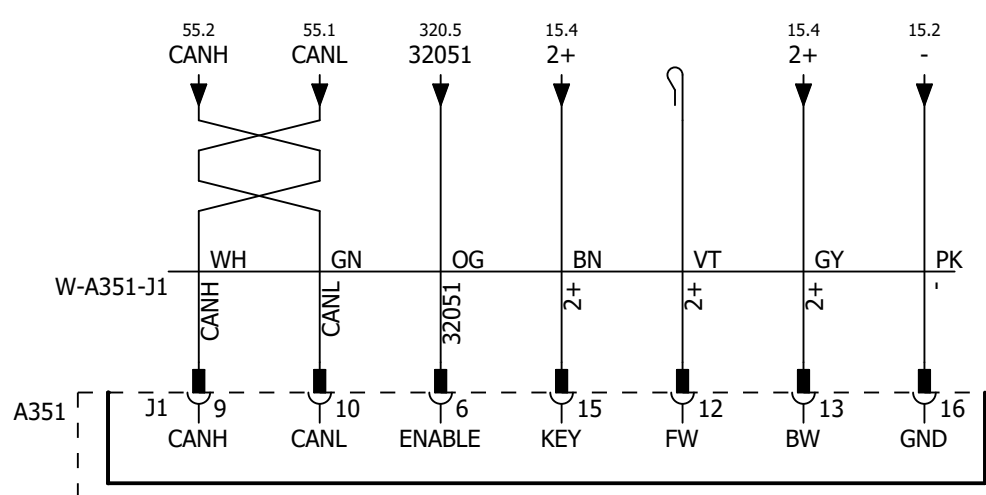




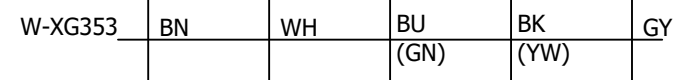
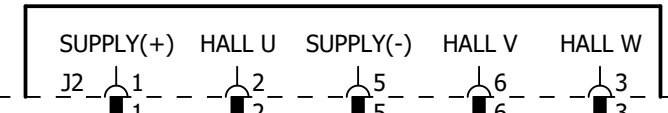
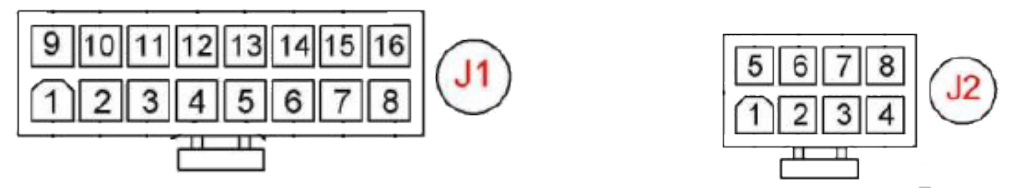


Signal connector male M12 (5 pins)  
SAIL -M12G-5S3.0U or MOLEX  
1200062799 or equivalent  
PIN1: positive (+) supply +5/24 VDC  
PIN2: hall effect sensor phase U (1)  
PIN3: negative (-)  
PIN4: hall effect sensor phase V (2)  
PIN5: hall effect sensor phase W (3)

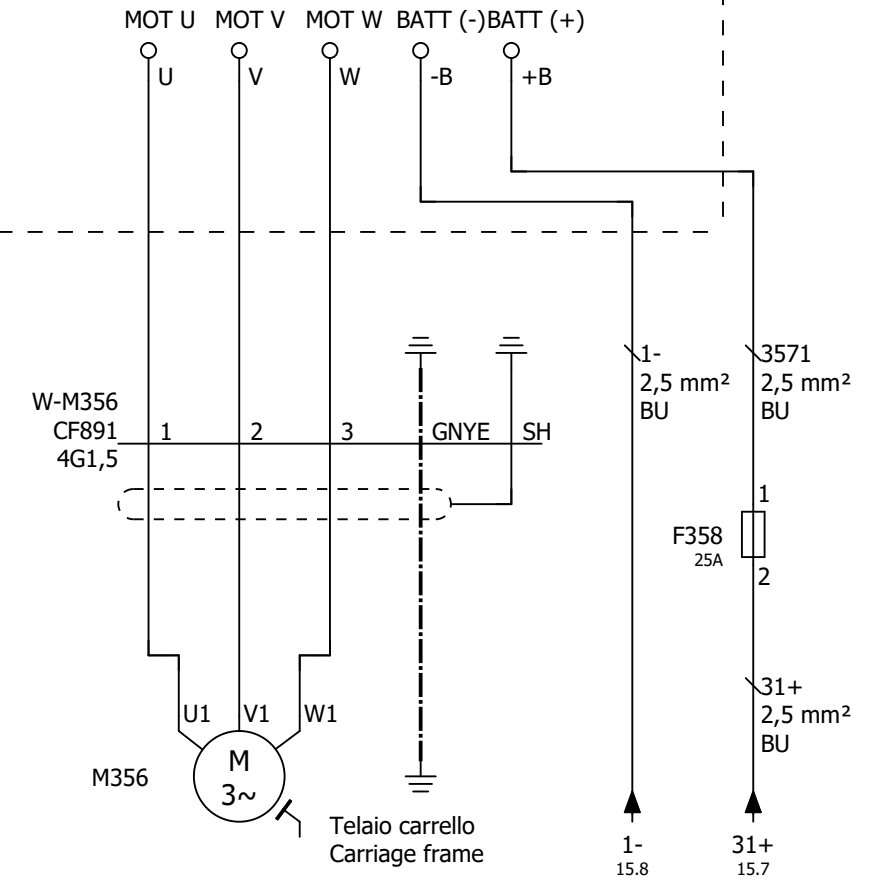
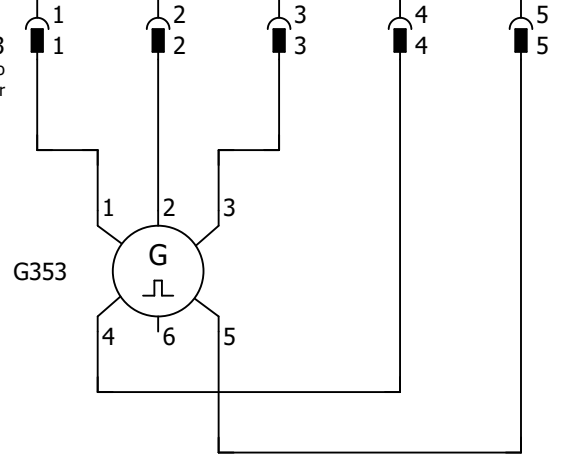




7BL00045  
ITALSEA

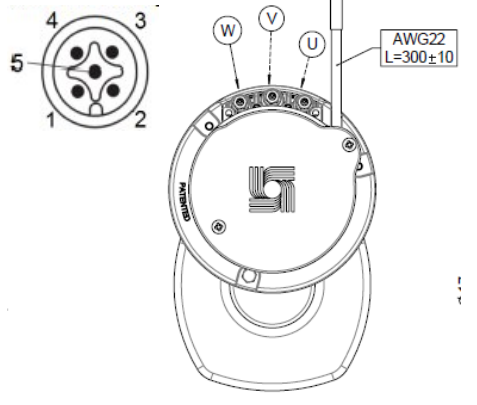


XG353  
Motore Prestiro  
Prestretch motor

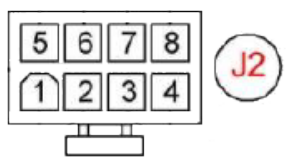
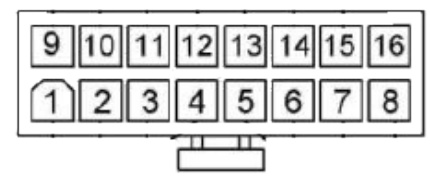
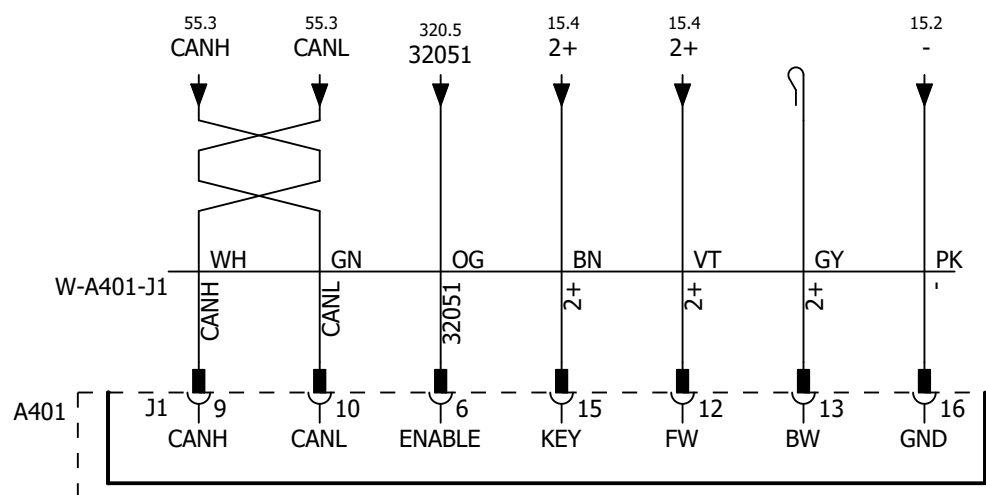
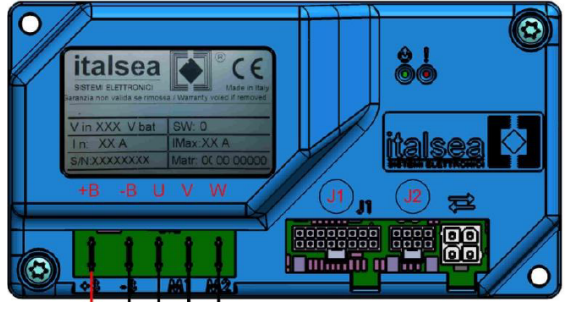


Motore svolgimento film  
Unrolling film motor

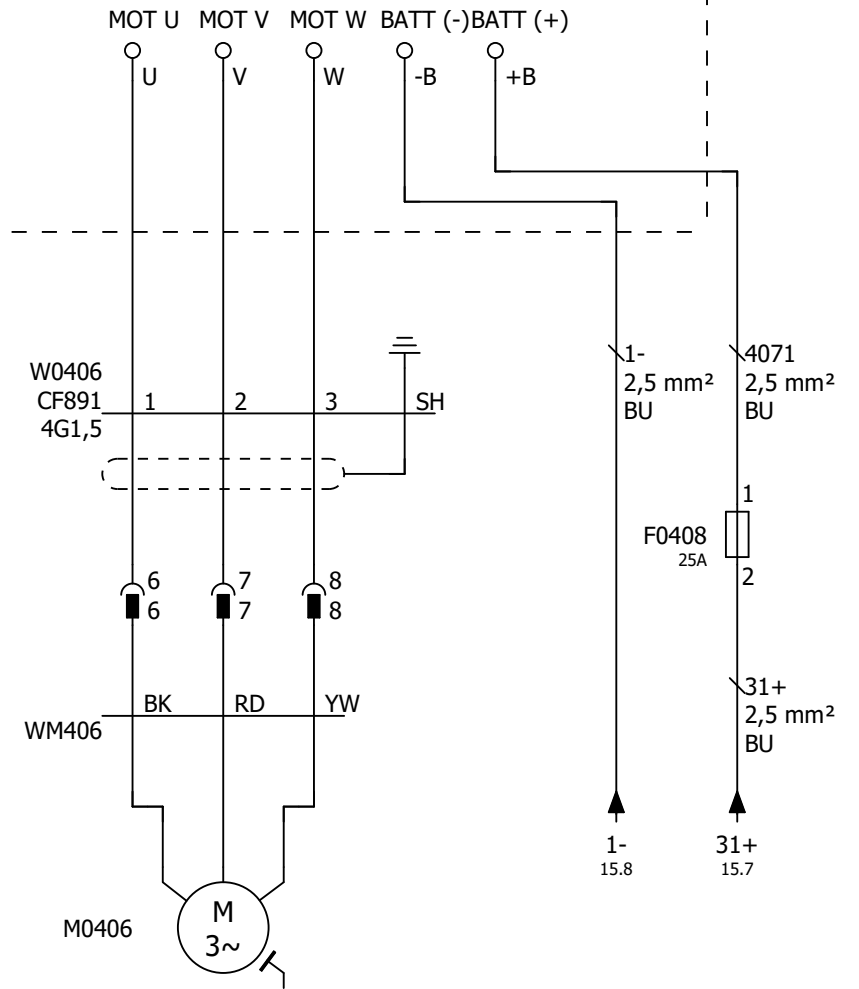
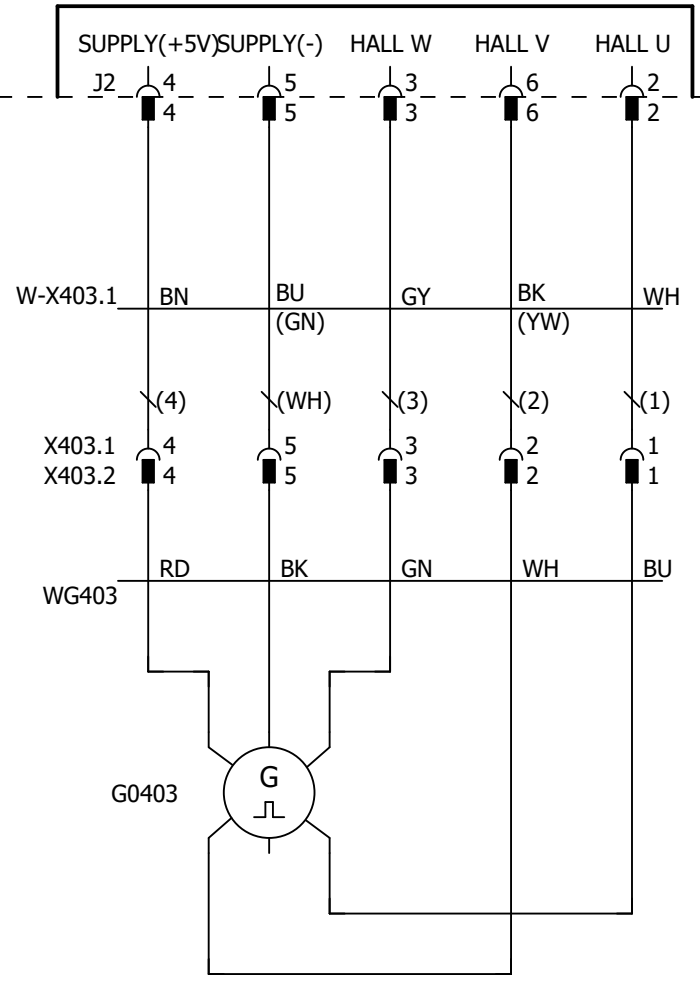
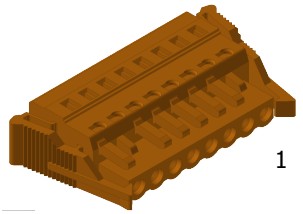
Signal connector male M12 (5 pins)  
SAIL -M12G-5S3.0U or MOLEX  
1200062799 or equivalent  
PIN1: positive (+) supply +5/24 VDC  
PIN2: hall effect sensor phase U (1)  
PIN3: negative (-)  
PIN4: hall effect sensor phase V (2)  
PIN5: hall effect sensor phase W (3)



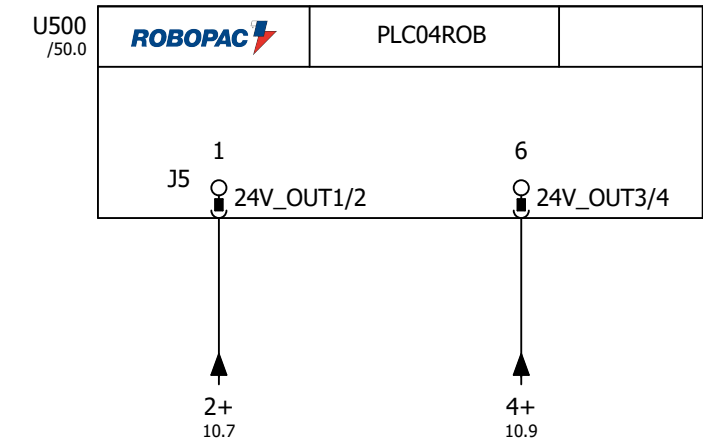
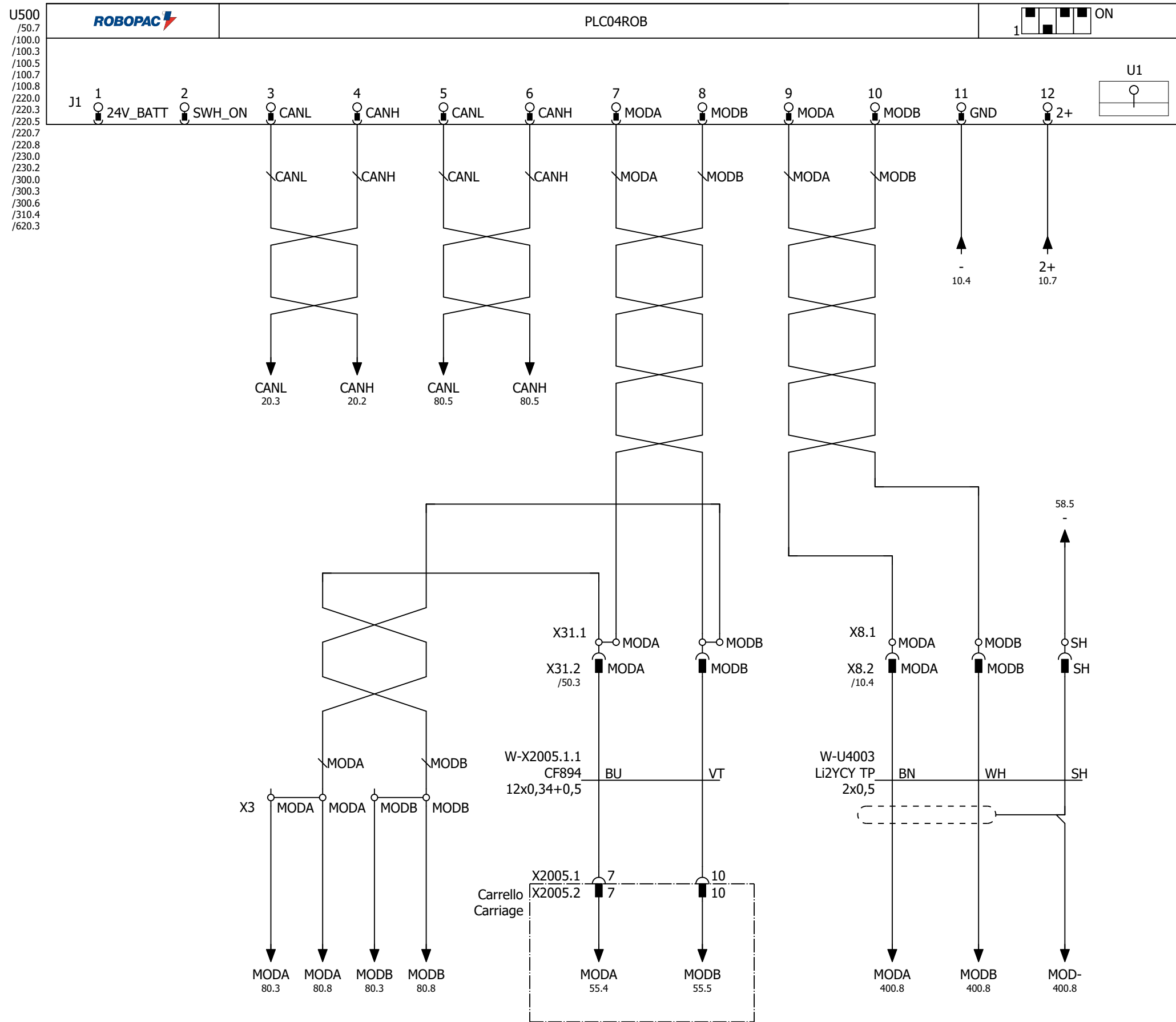
# OPTIONAL ROPE



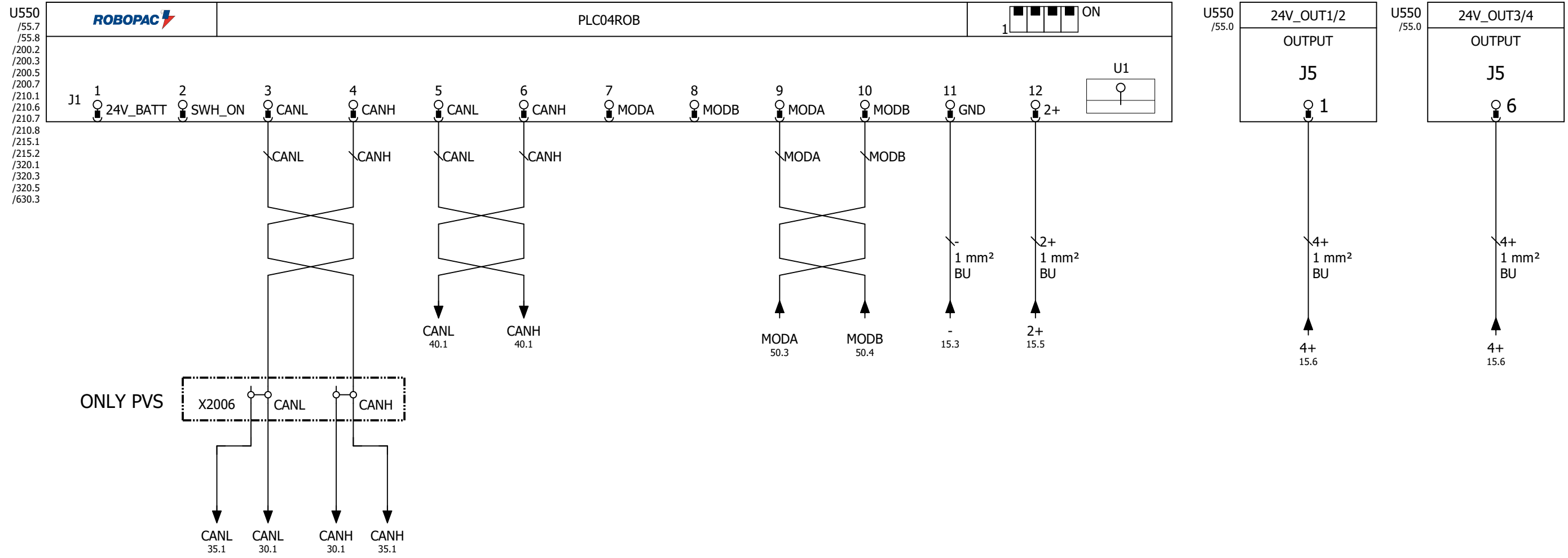
7BL00045  
ITALSEA

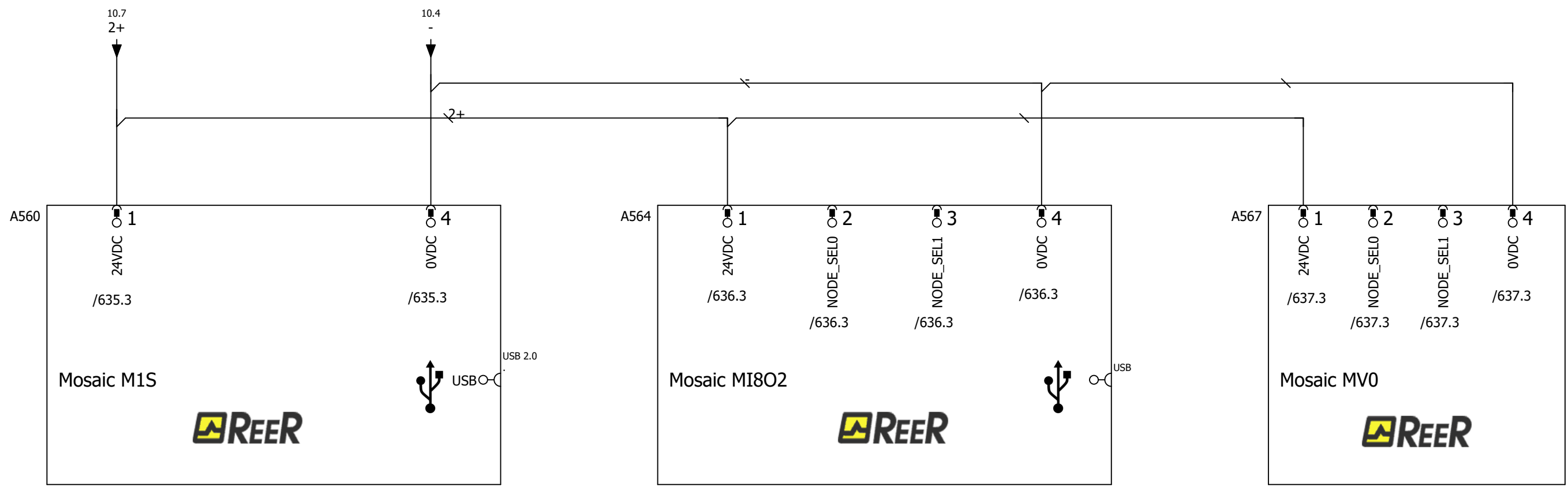


Motore cordonatore  
Rope device motor

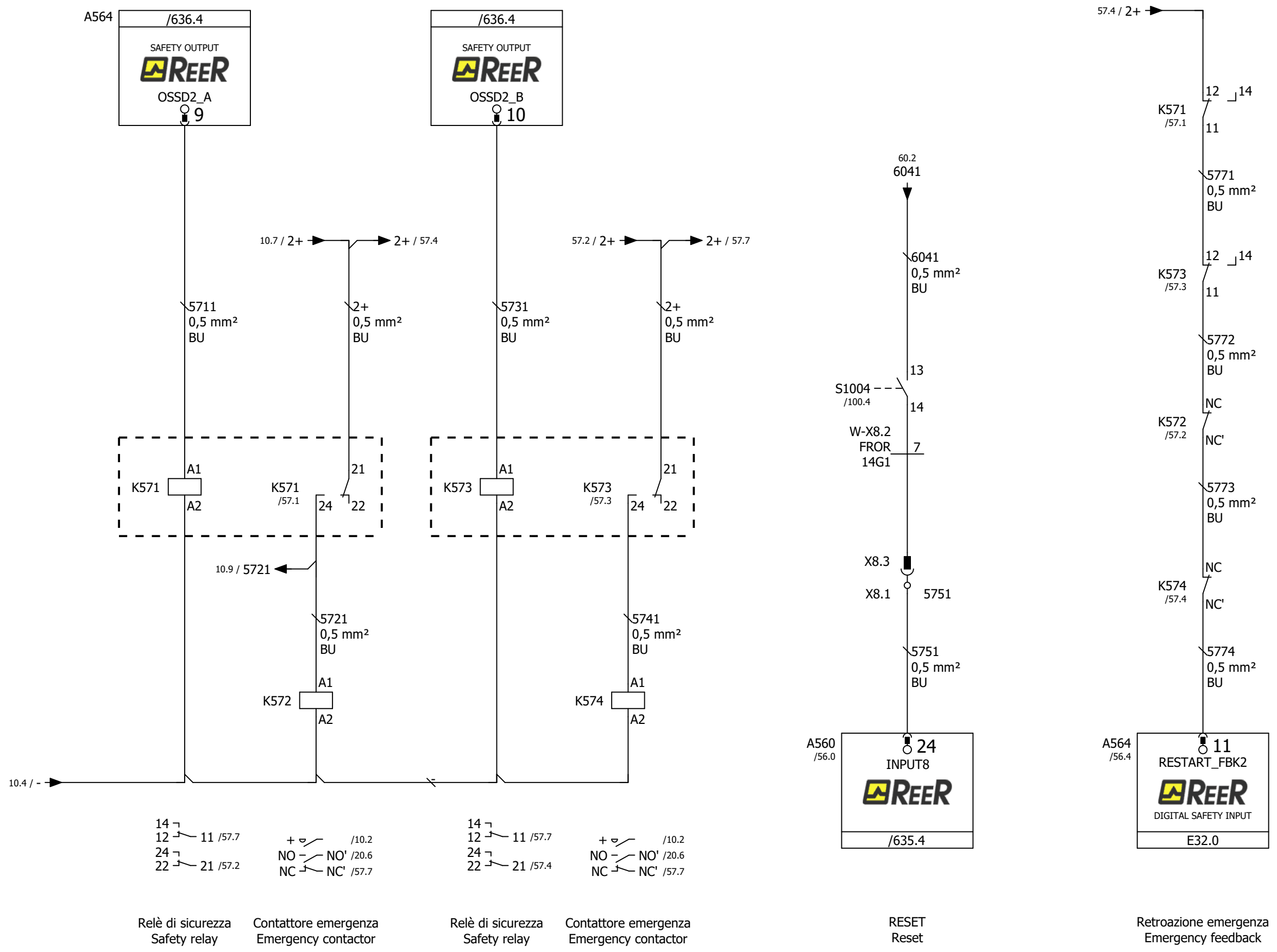


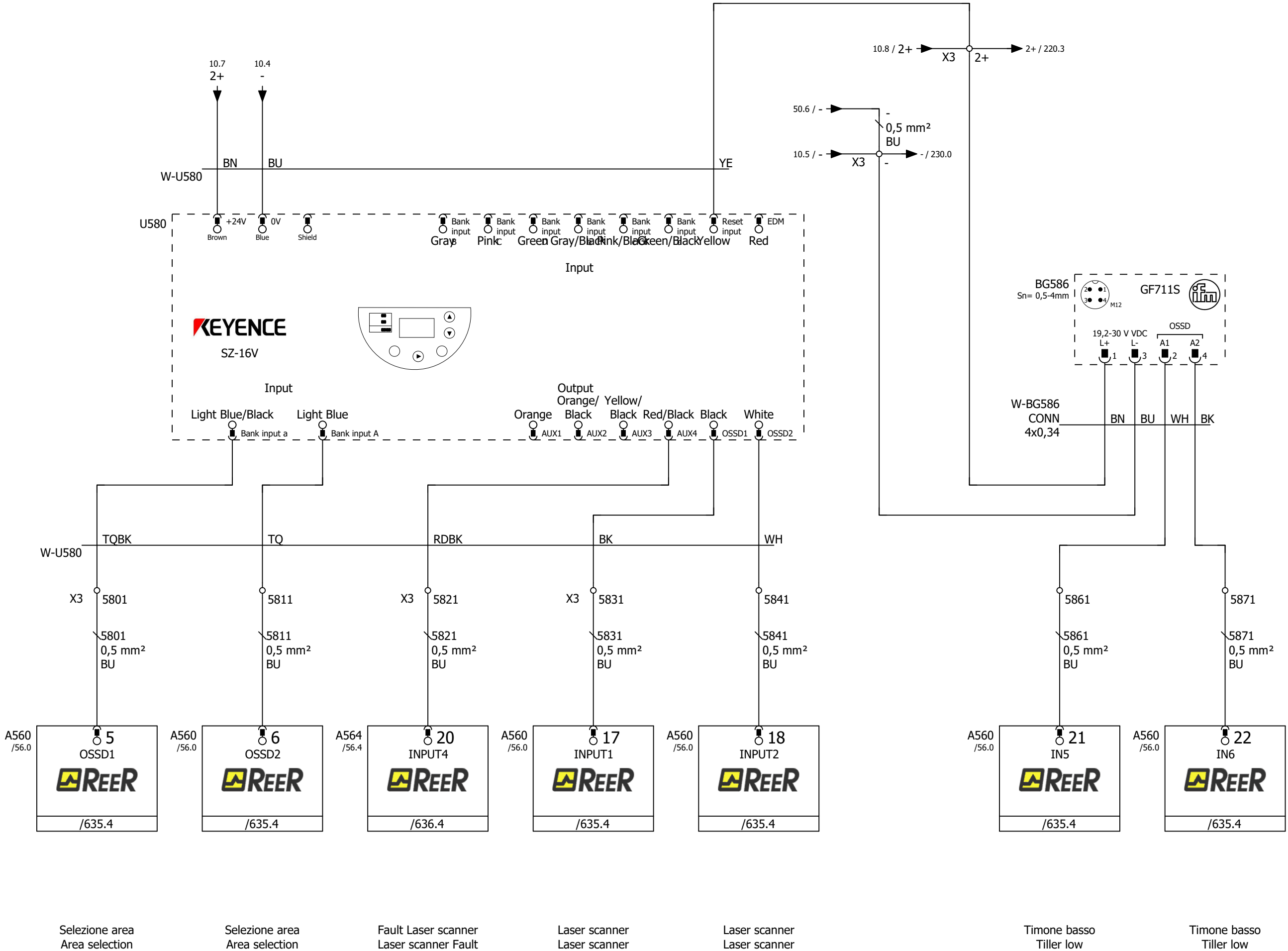
Carrello  
Carriage





Alimentazione Plc Sicurezza  
Power supply for safety plc





Selezione area  
Area selection

Selezione area  
Area selection

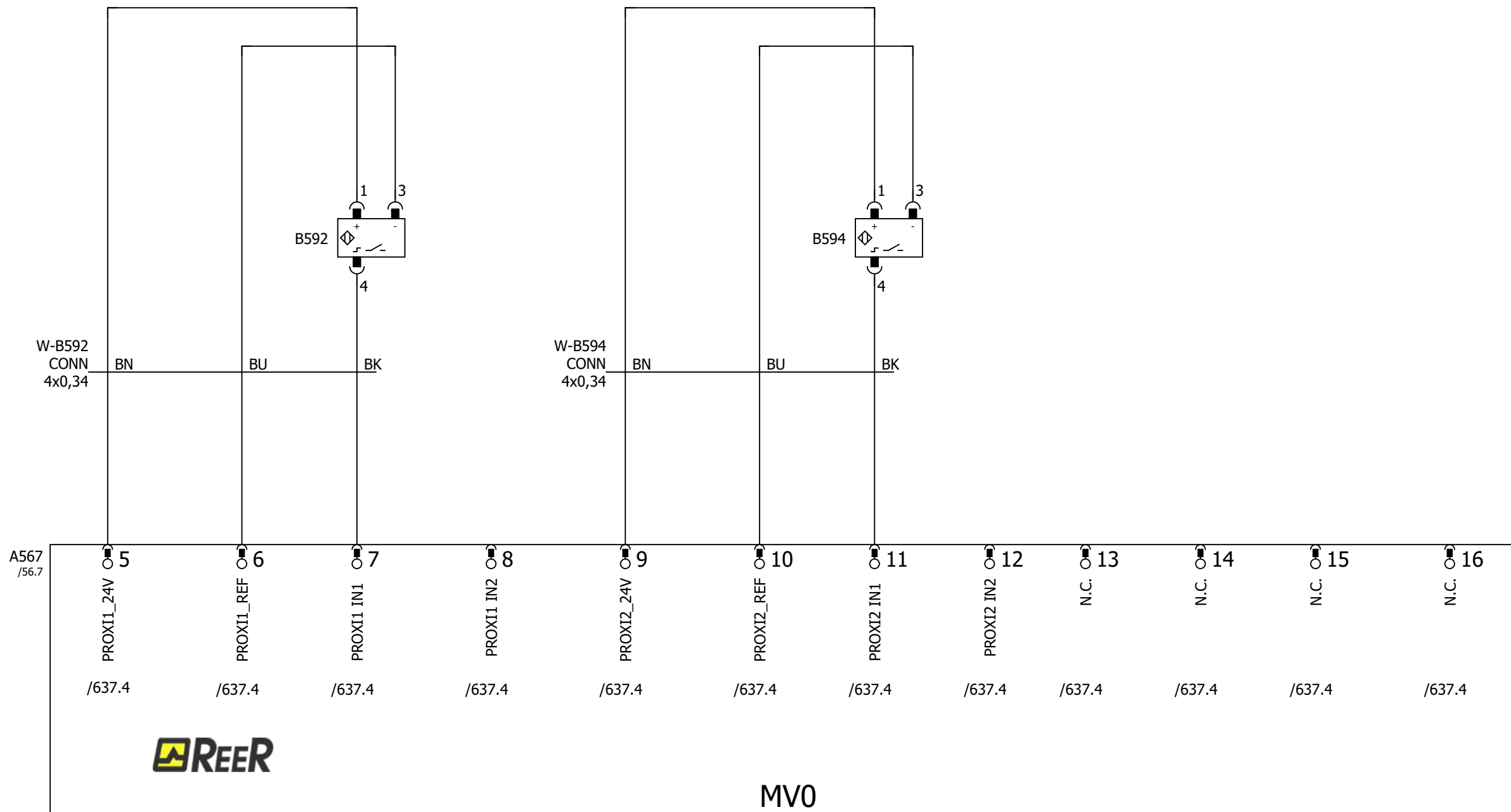
Fault Laser scanner  
Laser scanner Fault

Laser scanner  
Laser scanner

Laser scanner  
Laser scanner

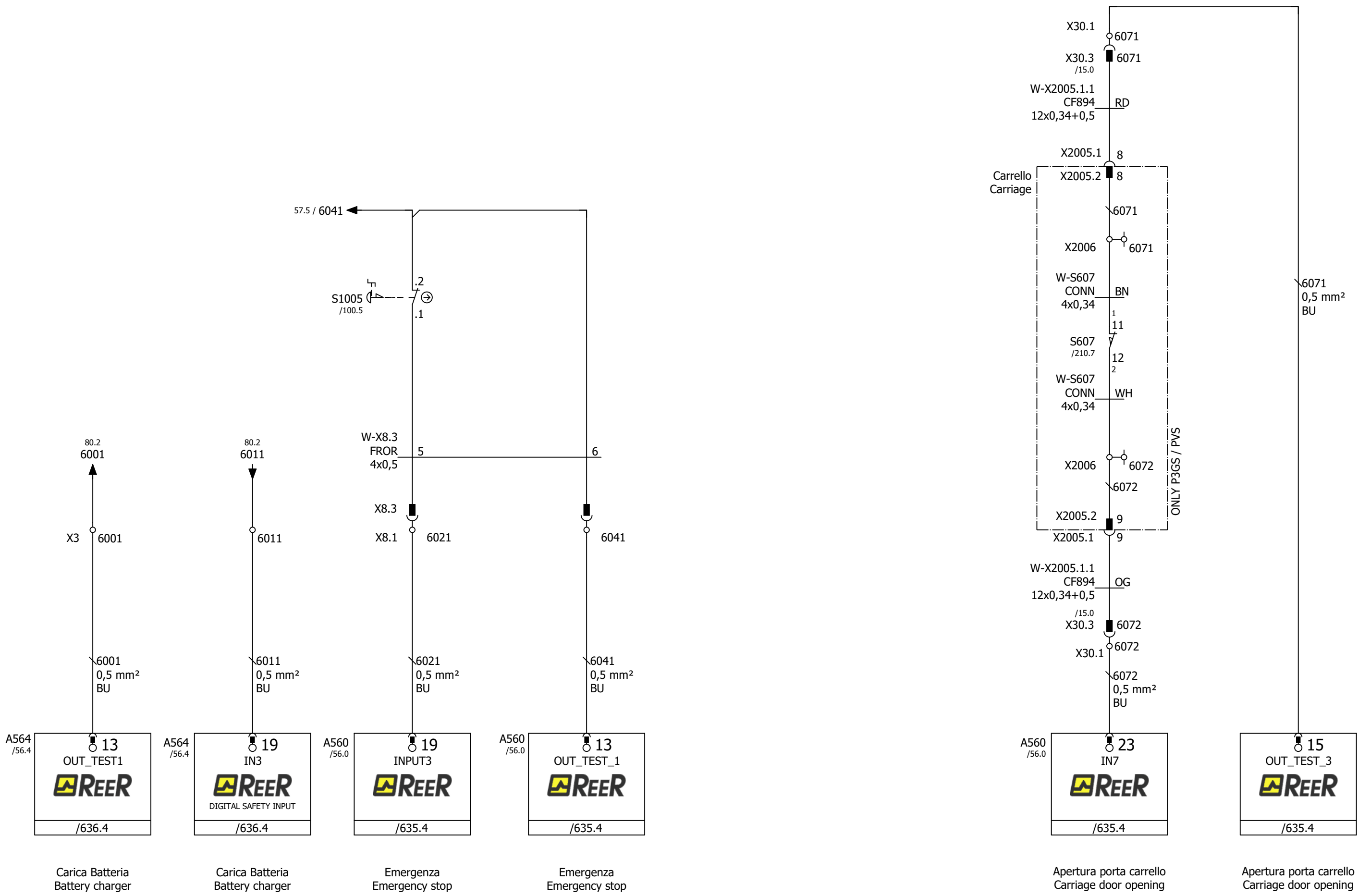
Timone basso  
Tiller low

Timone basso  
Tiller low

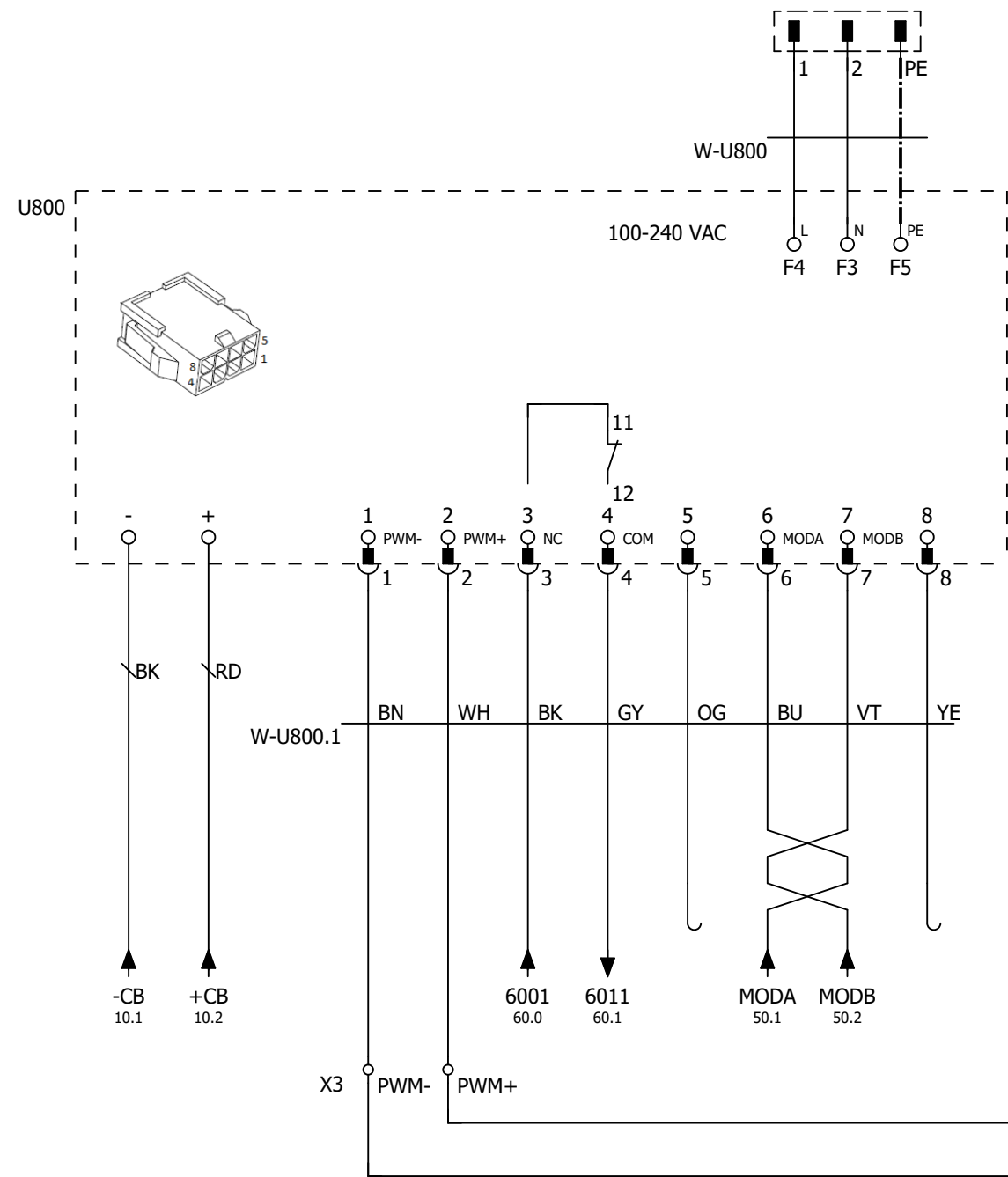
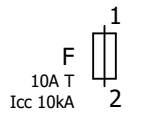


Sensore trazione  
 staffa superiore  
 Traction sensor  
 upper bracket

Sensore trazione  
 staffa inferiore  
 Traction sensor  
 lower bracket

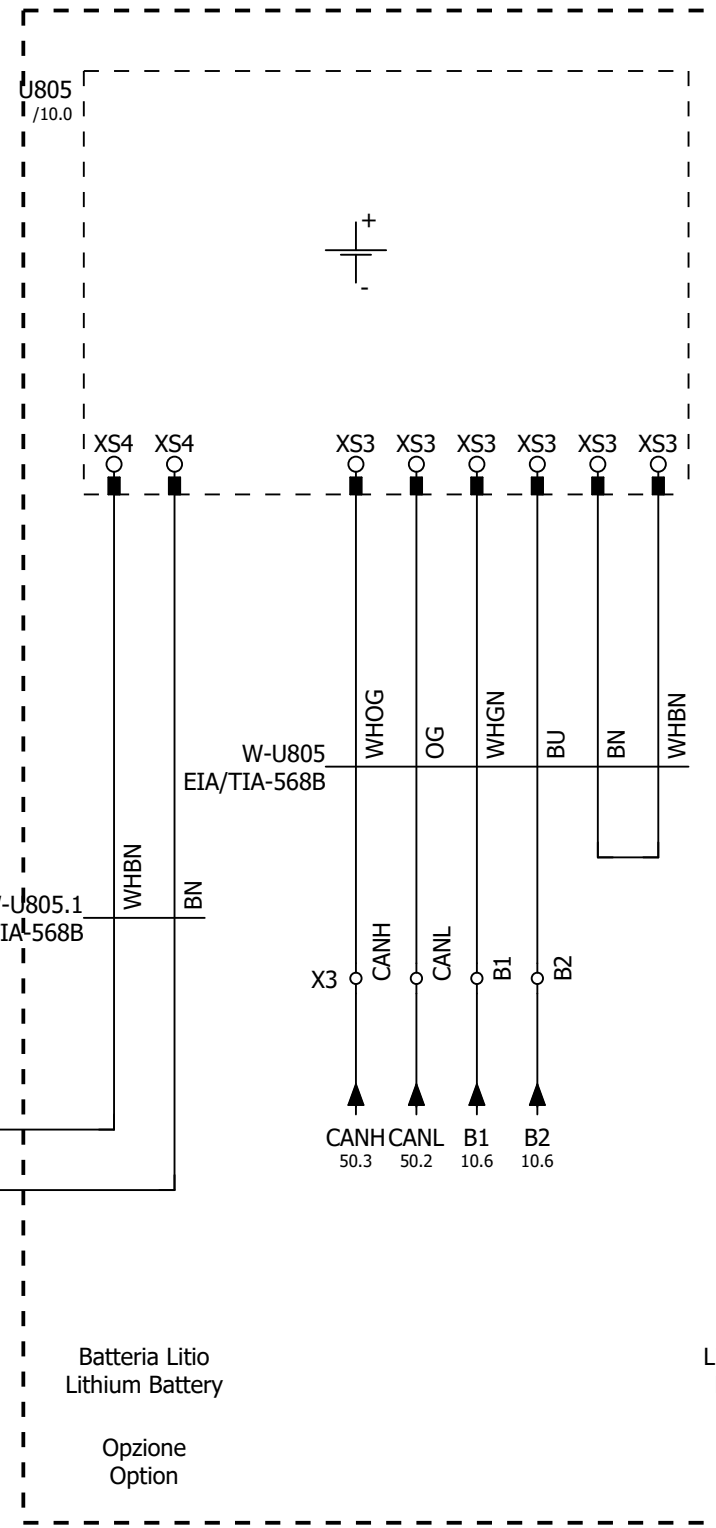


Fusibile per linea cliente  
Fuse for customer's line



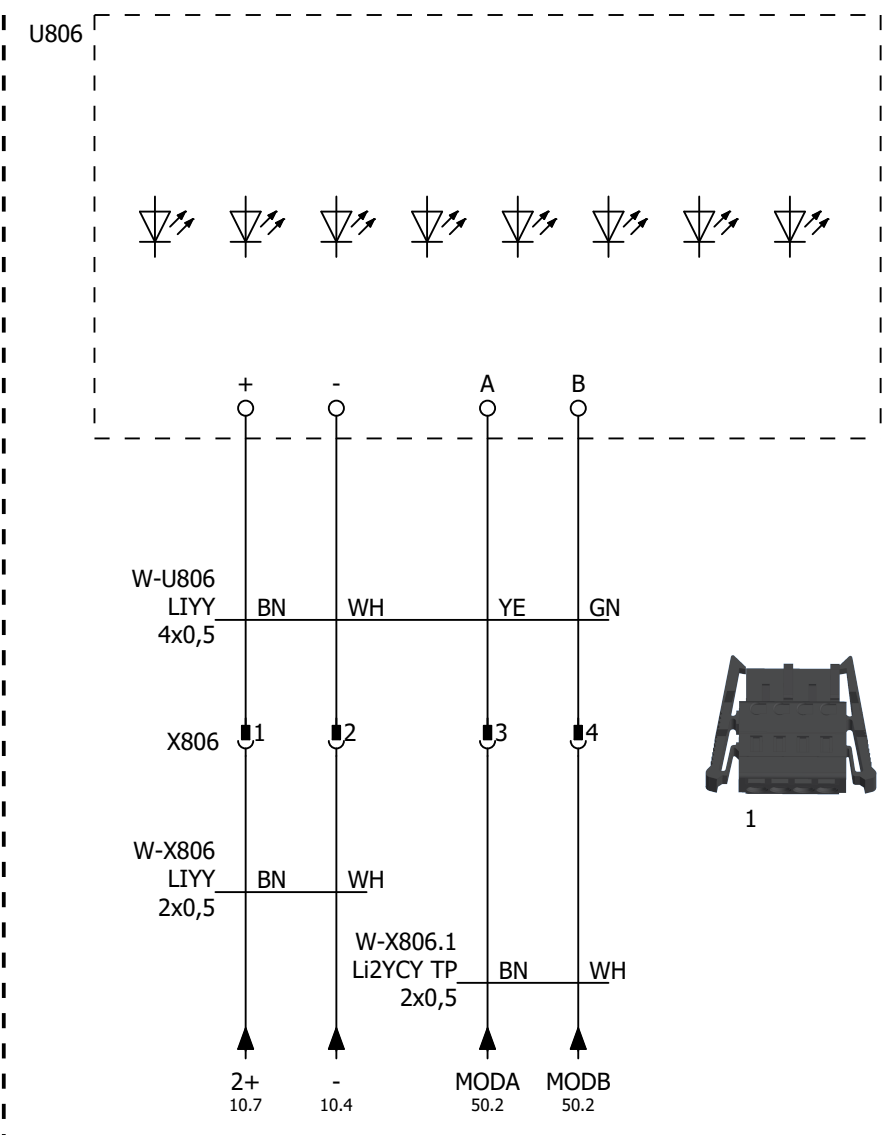
Carica Batteria  
Battery charger

Batteria in carica  
Battery on charge



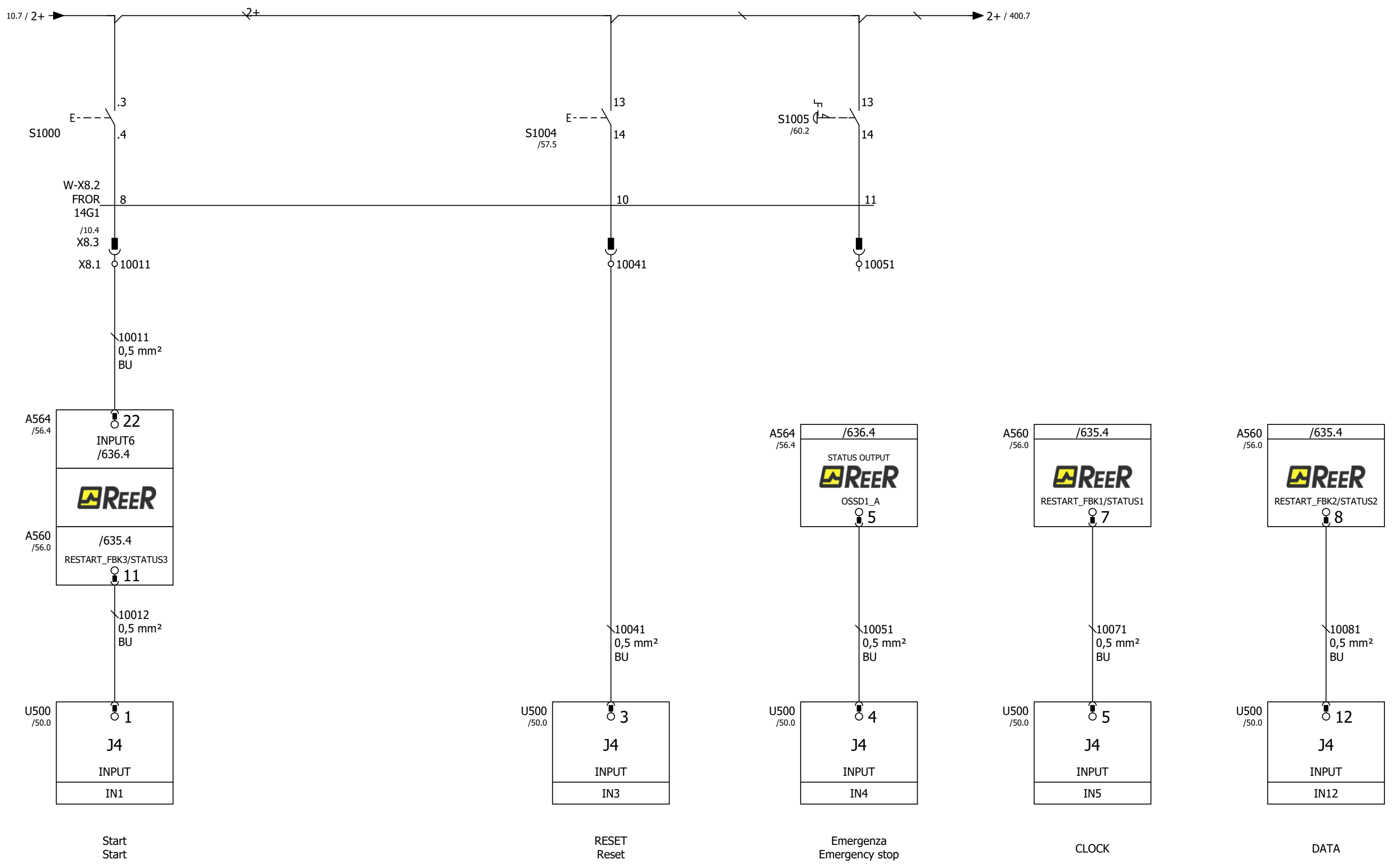
Batteria Lito  
Lithium Battery

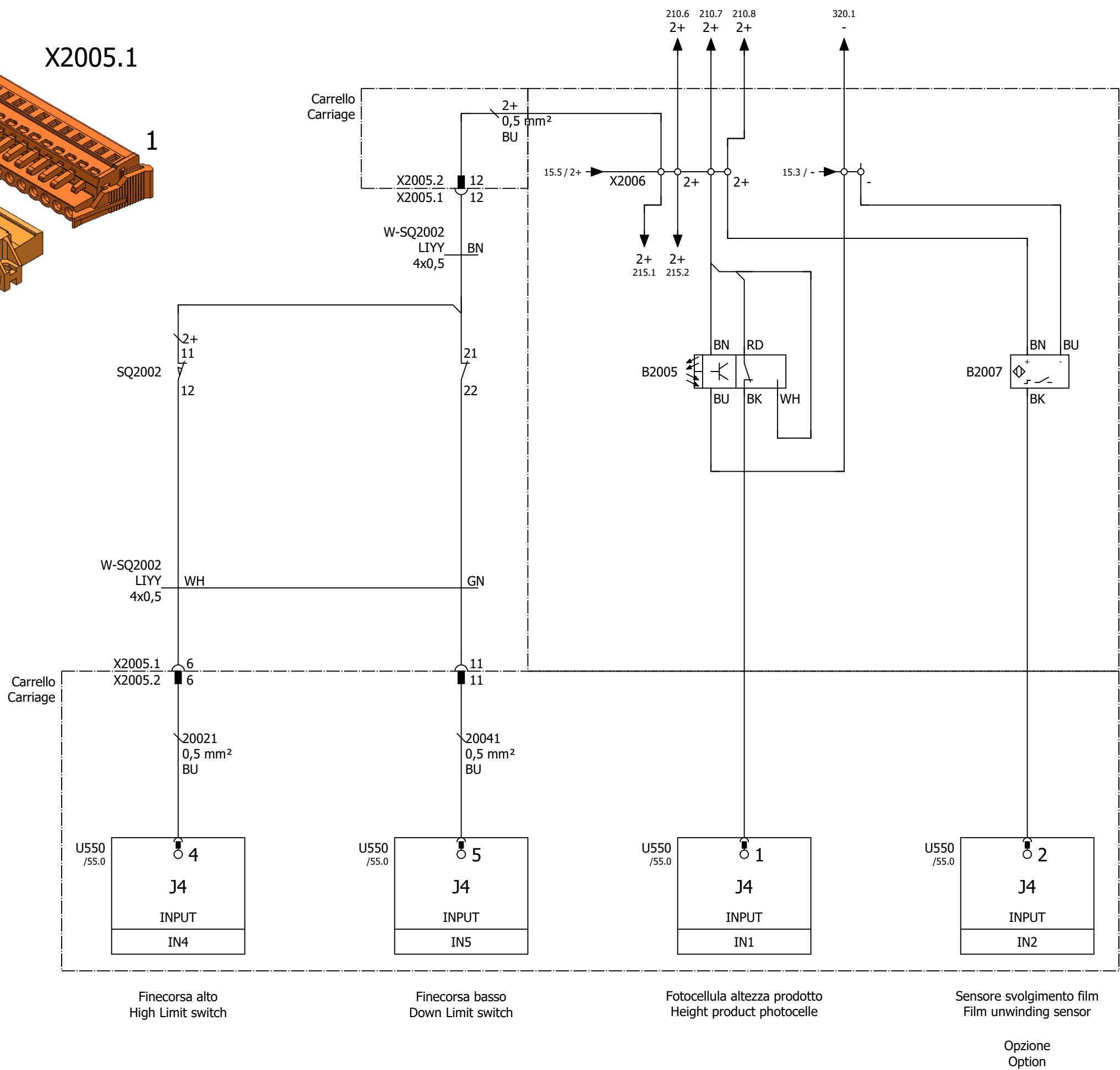
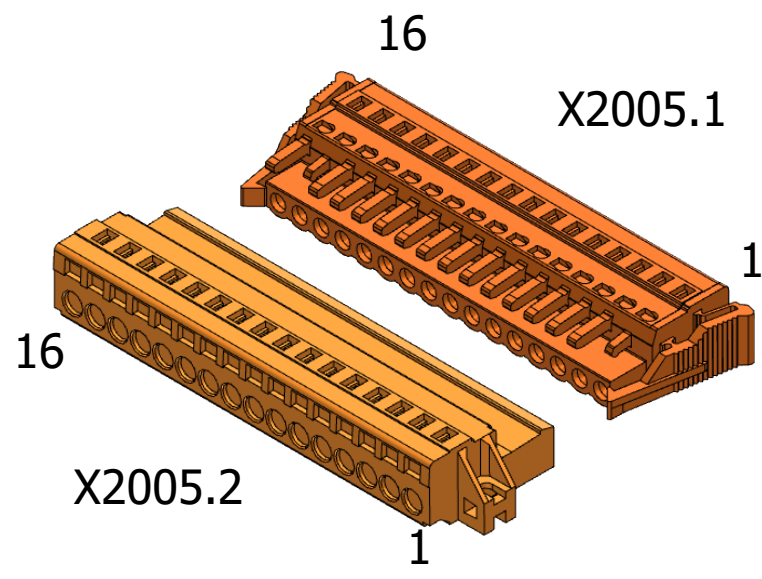
Opzione  
Option



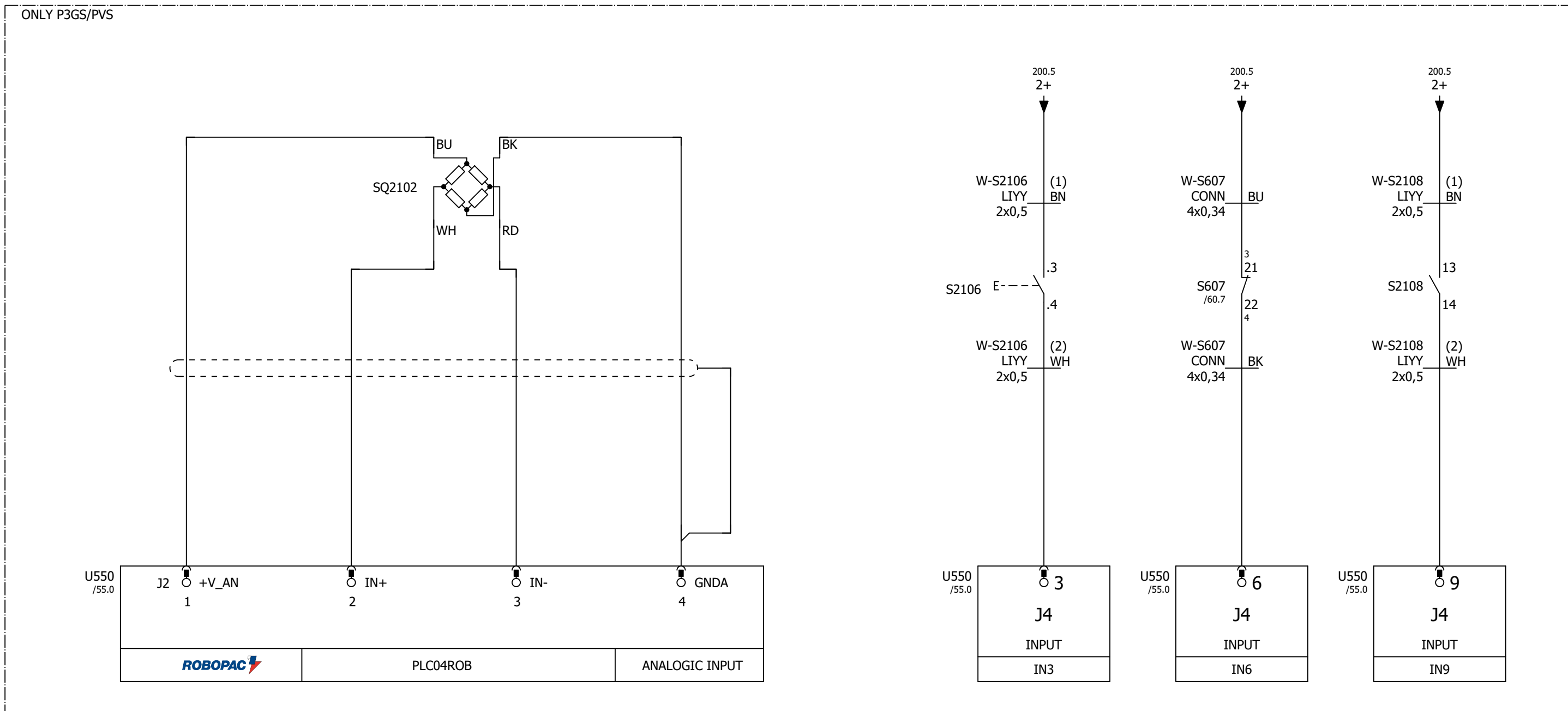
Livello batteria  
Battery level







Finecorsa alto High Limit switch  
 Finecorsa basso Down Limit switch  
 Fotocellula altezza prodotto Height product photocelle  
 Sensore svolgimento film Film unwinding sensor  
 Opzione Option



Cella di carico  
Loading cell

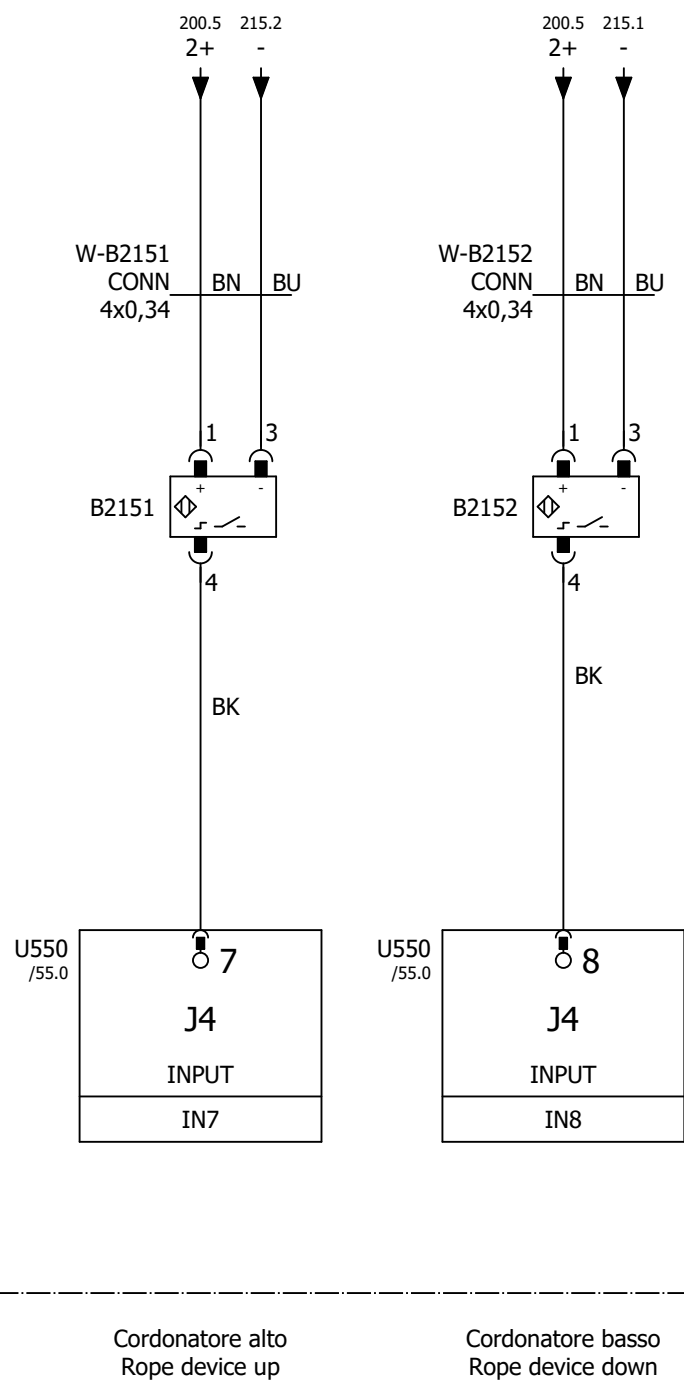
Pulsante svolgimento film  
Unrolling film button

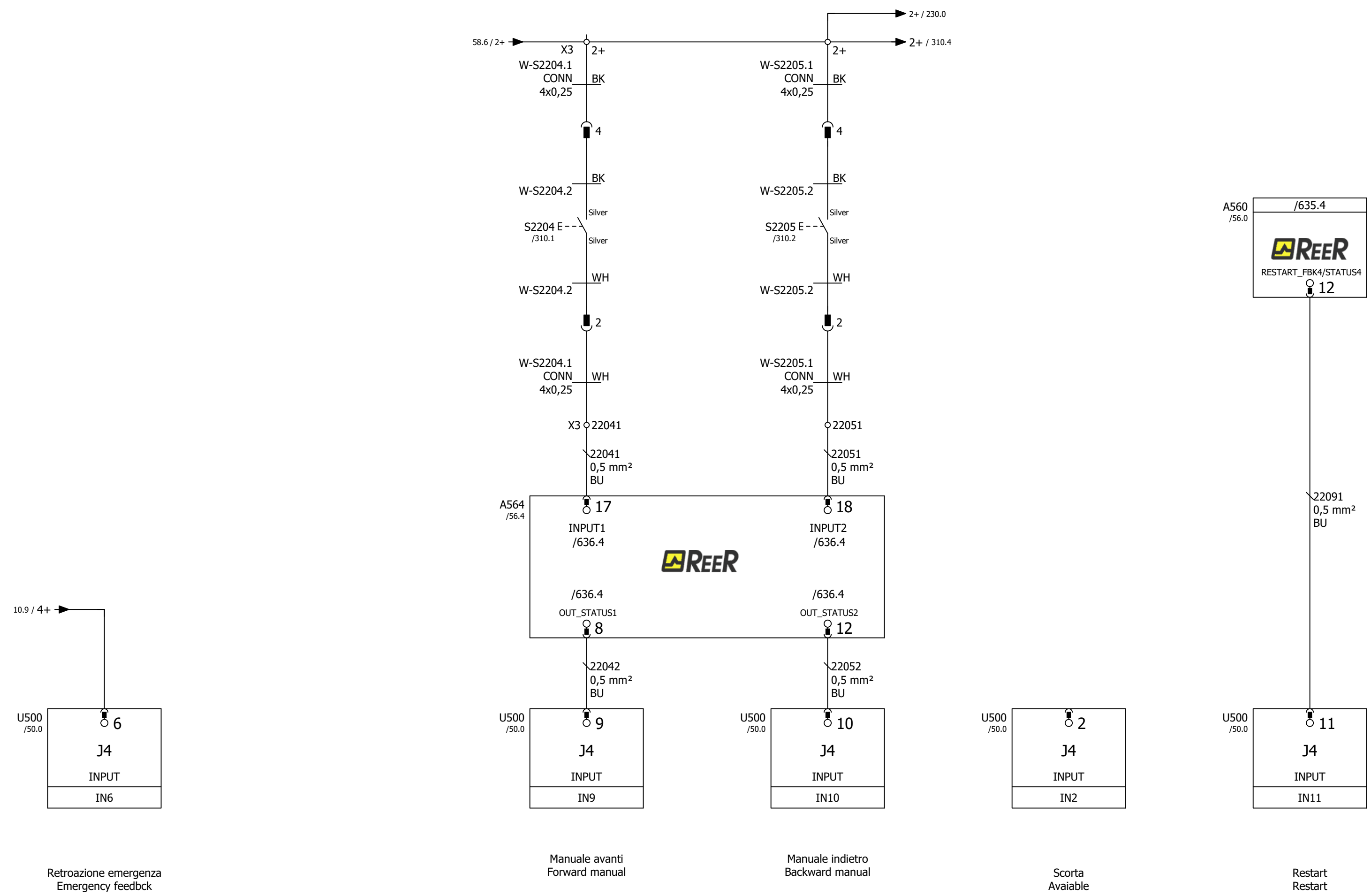
Apertura porta carrello  
Carriage door opening

Apertura carter carrello  
Carriage casing opening

OPTIONAL ROPE DEVICE

Carrello  
Carriage





Retroazione emergenza  
Emergency feedback

Manuale avanti  
Forward manual

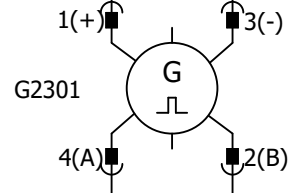
Manuale indietro  
Backward manual

Scorta  
Available

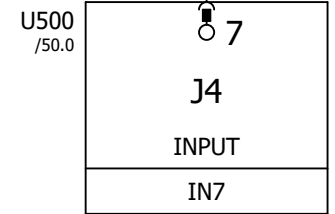
Restart  
Restart

58.5 / -  
220.6 / 2+  
X3  
- / 300.0  
- / 310.0

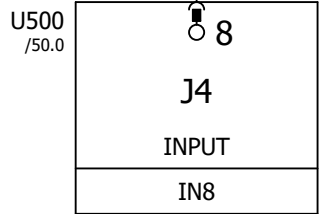
W-G2301  
CONN  
4x0,34  
BN BU



W-G2301  
CONN  
4x0,34  
BK WH



Encoder CH.A  
Encoder ch.a  
Motore trazione  
Traction motor

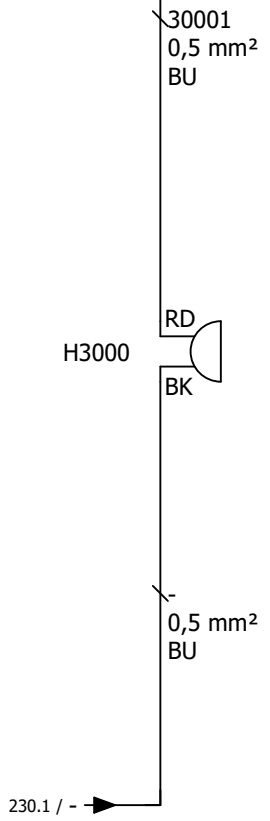
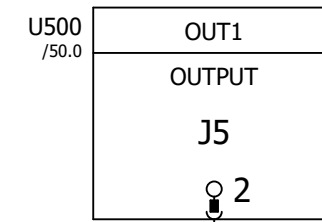
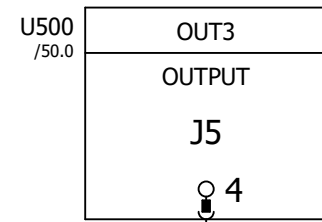
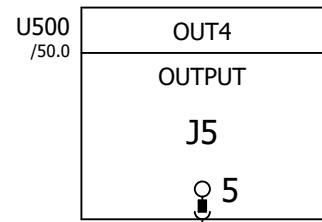


Encoder CH. B  
Encoder ch. B  
Motore trazione  
Traction motor

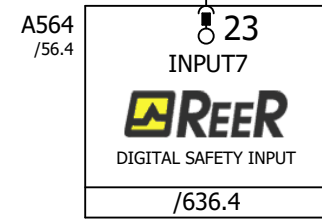
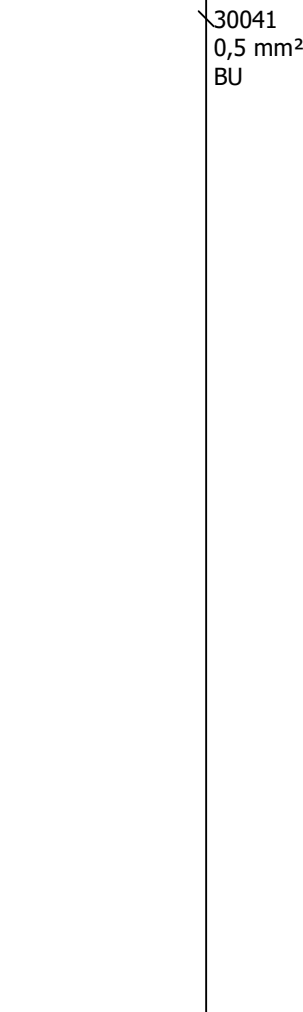


Description  
**Ingressi  
Inputs**

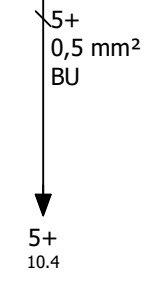
Code	3709308083ENG	Date	09/02/2022	Total	79	Prev	220	Next	300	Page	230
Machine	Robot S7 P3GS/PVS Stop&Go										



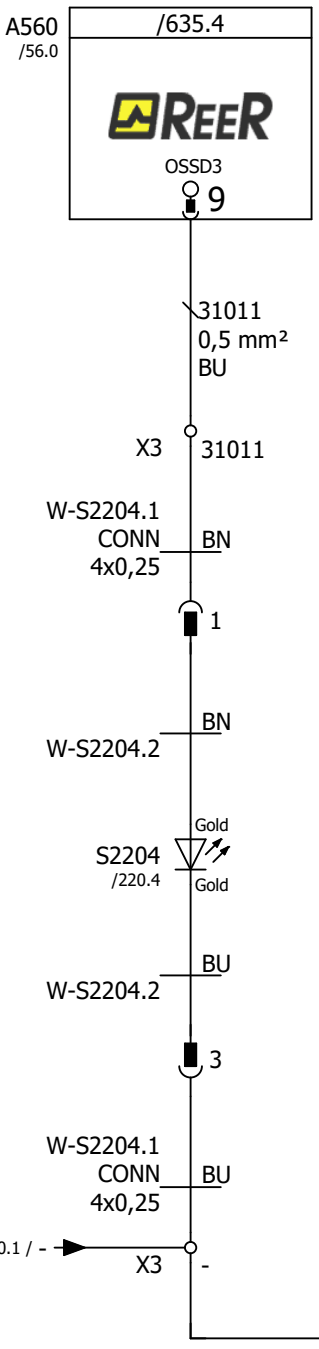
Sirena  
Siren



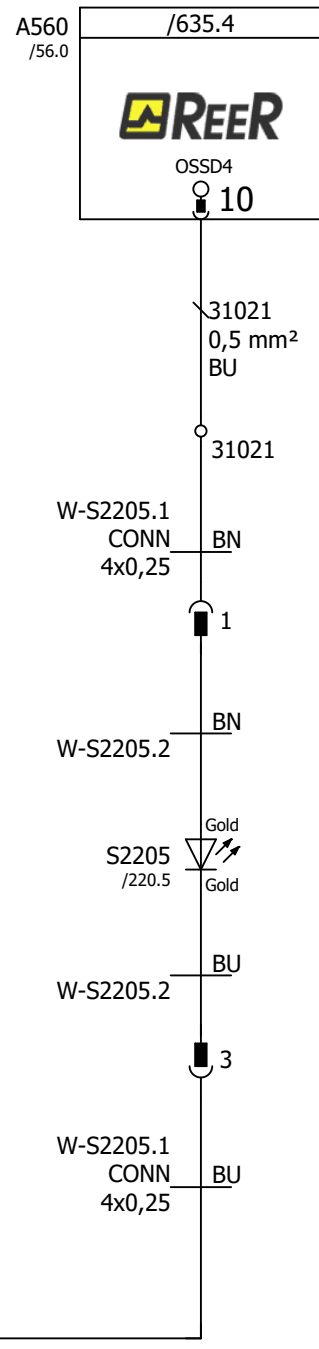
Ciclo automatico  
Automatic cycle



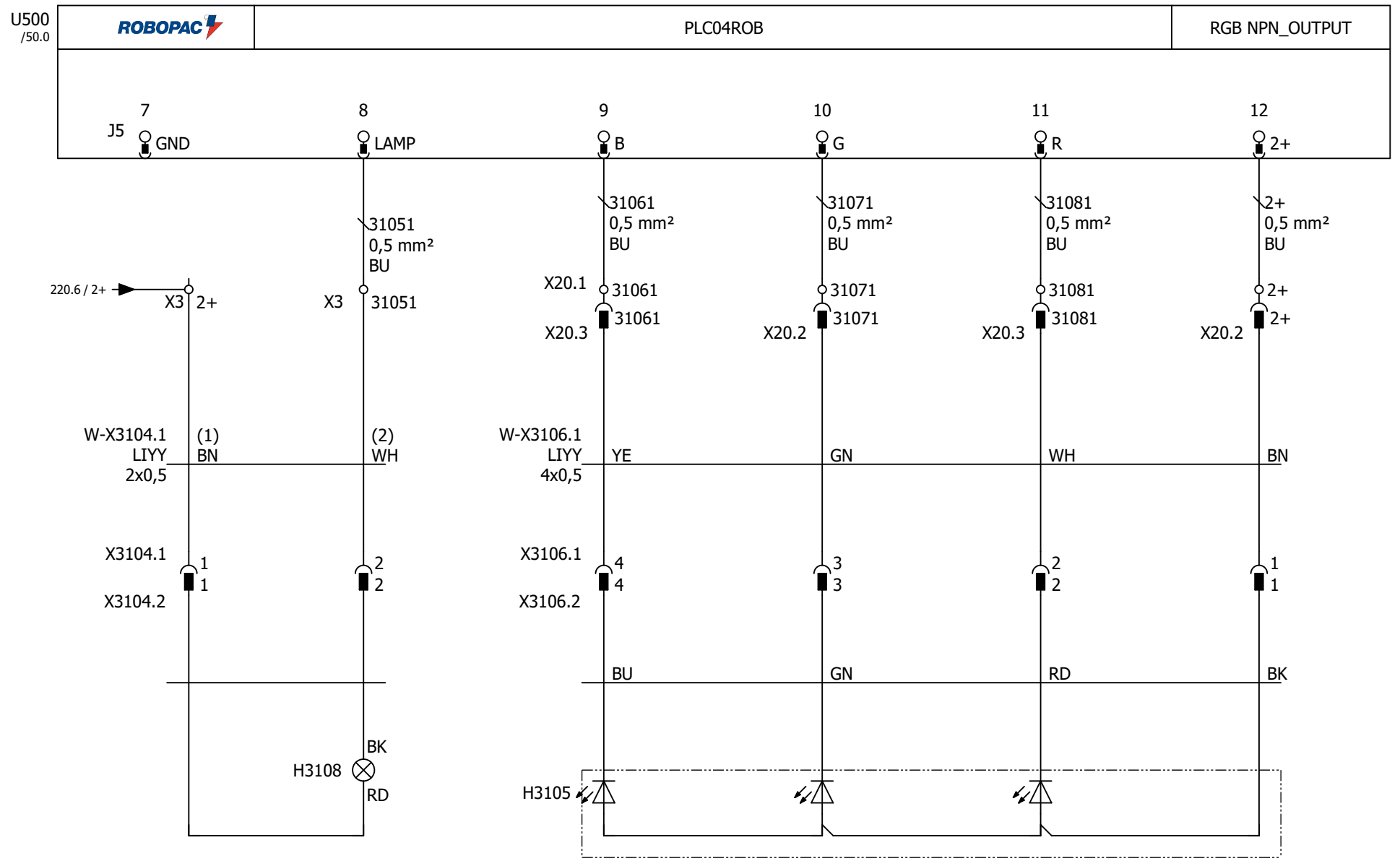
Auto spegnimento  
Auto shutdown



Led manuale avanti  
Forward manual led



Led manuale indietro  
Backward manual led

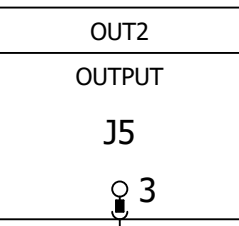


Luce blu  
Blue light  
Opzione  
Option

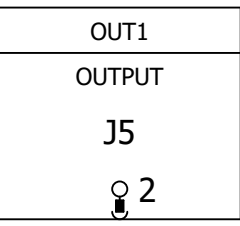
Segnalatore ottico circolare  
Round indicator light

Carrello  
Carriage

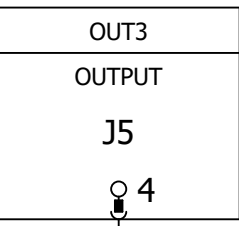
U550  
/55.0



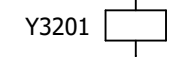
U550  
/55.0



U550  
/55.0



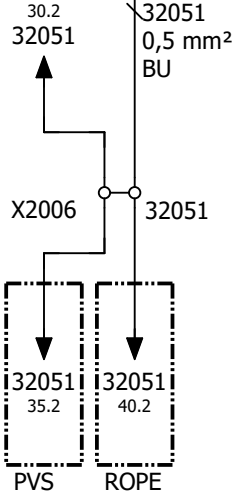
W-Y3201  
LIYY  
2x0,5



W-Y3201  
LIYY  
2x0,5

-  
200.6

Taglio film  
Film cut  
(Optional)



Abilitazione driver  
Driver enable



Description

Uscite  
Outputs

Code 3709308083ENG

Date 09/02/2022

Total 79

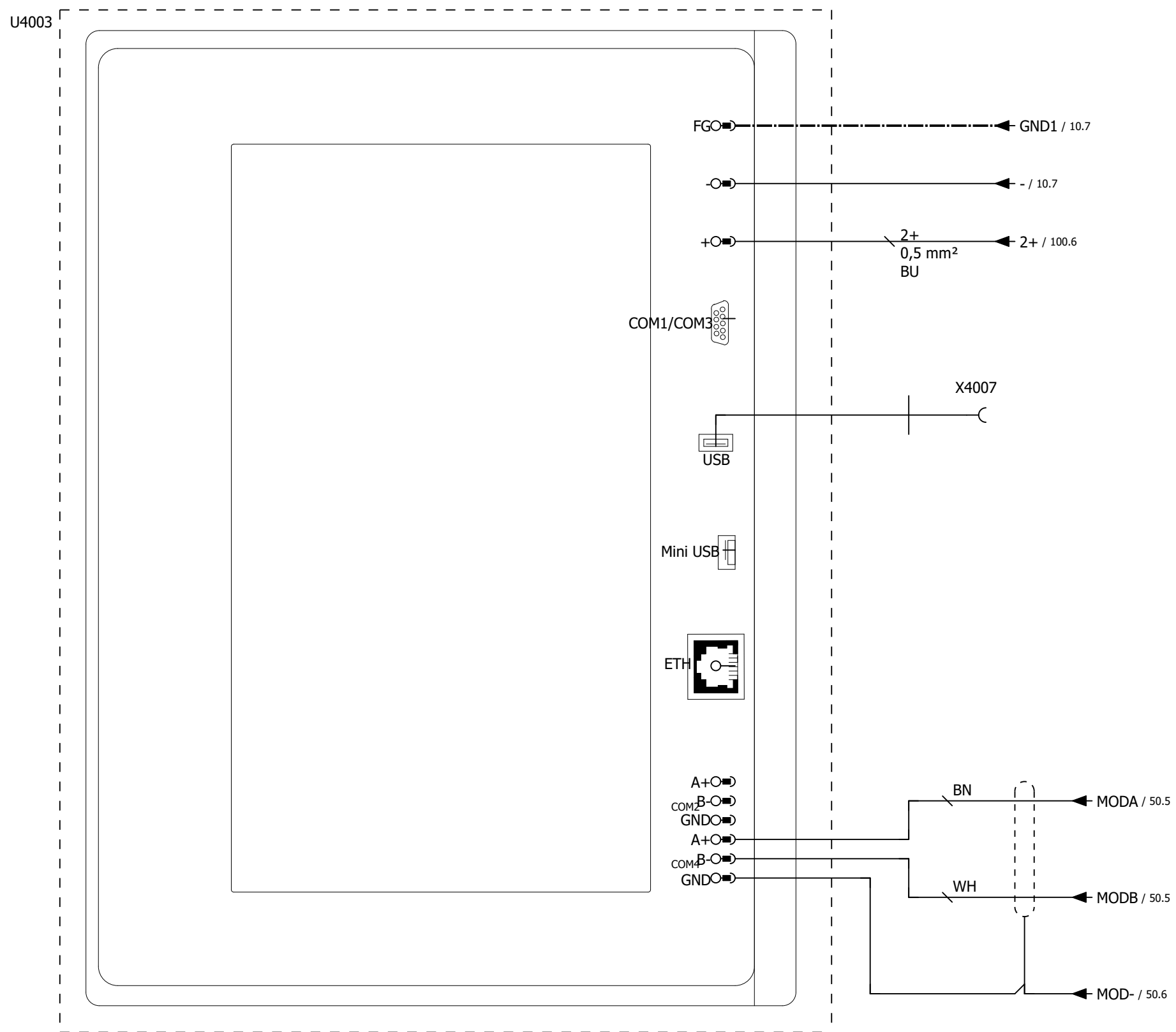
Prev 310

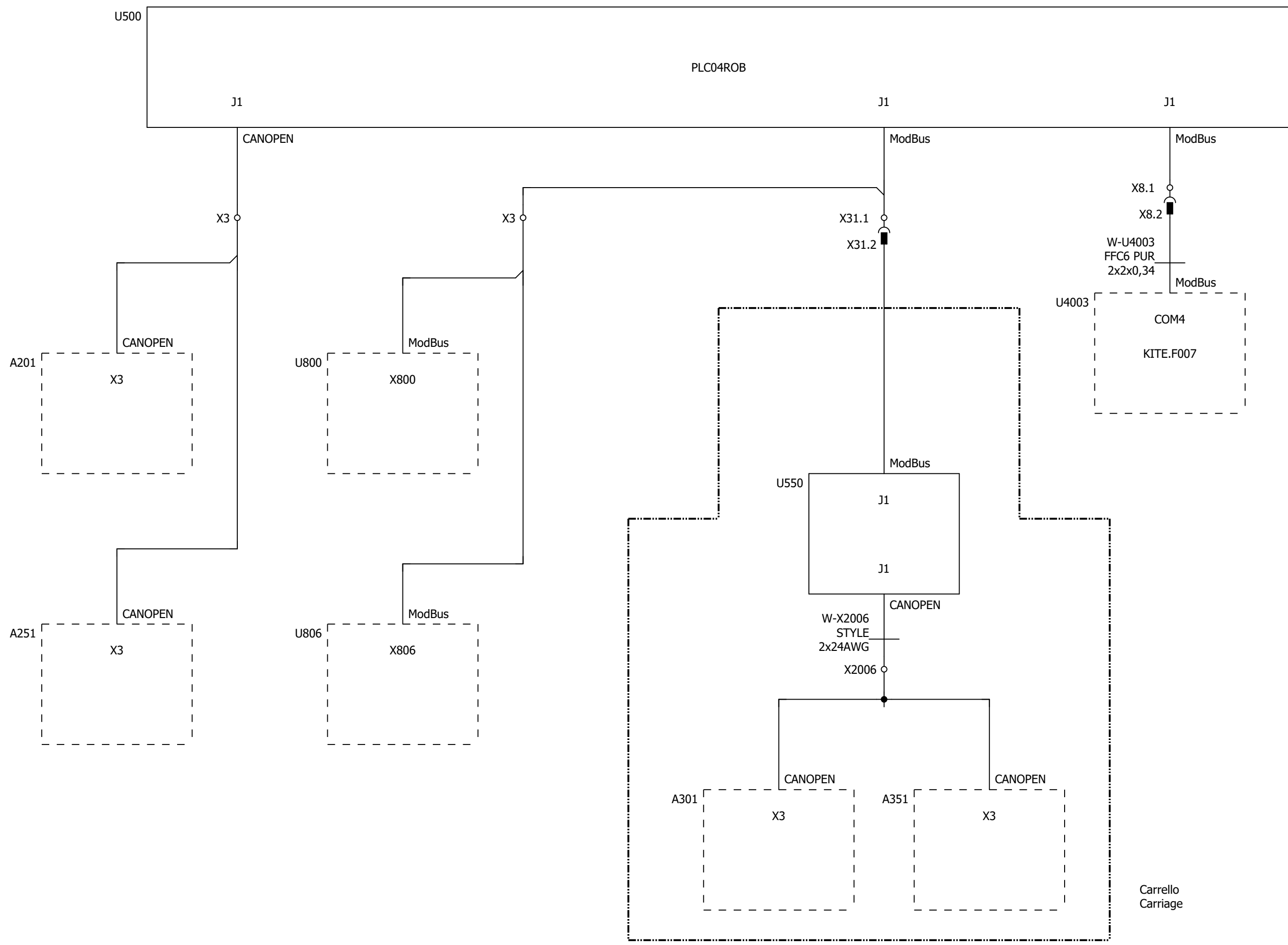
Next 400

Page

Machine Robot S7 P3GS/PVS Stop&Go

320





NOTA1: inserire i rivetti esagonali sui fianchi della cassetta

NOTA2: partenza W104 il cavo esce dal punto A

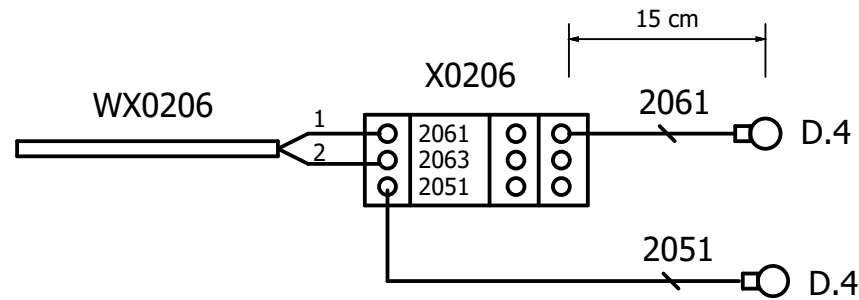
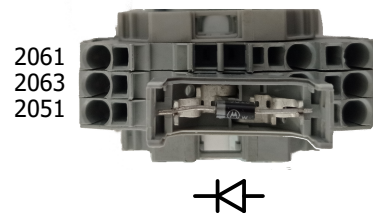
NOTA3: ricoprire i passaggi A e B con guarnizione in gomma

NOTA4: X801 tutte le cordine vanno raccolte in una calza lunga 30cm fuori quadro MODA e MODB vanno twistati

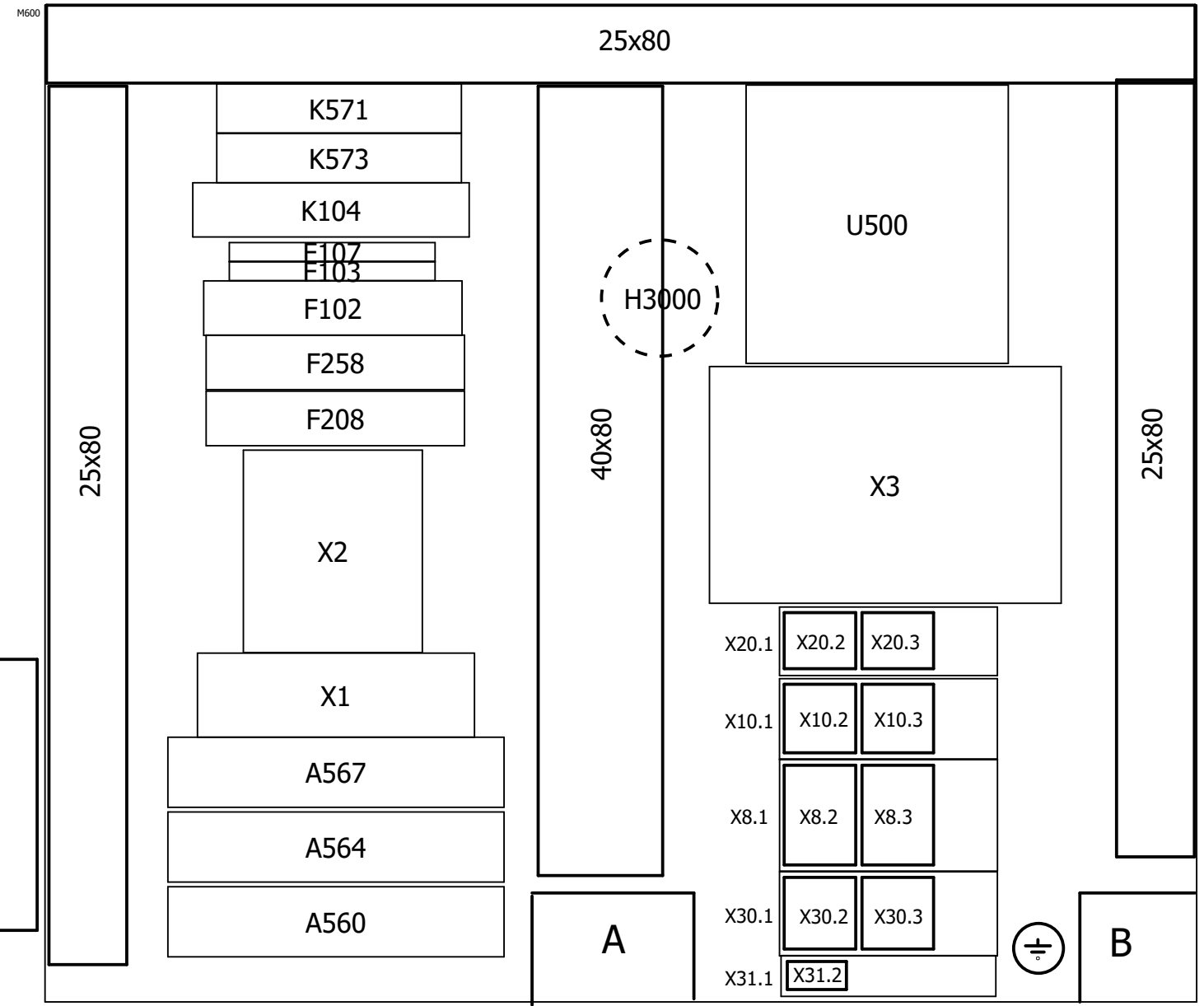
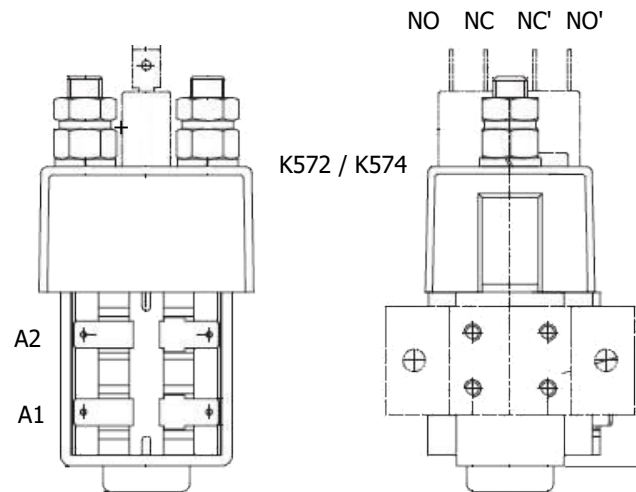
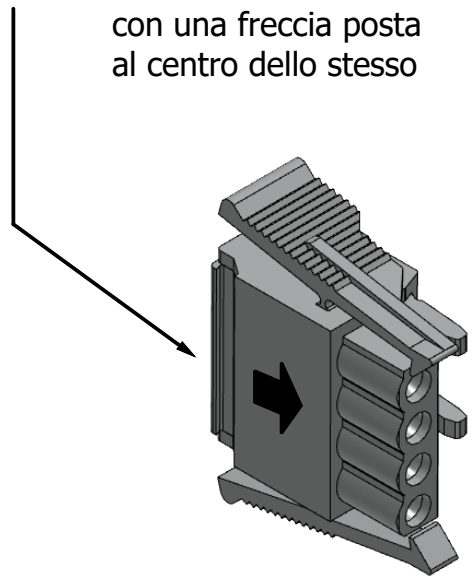
NOTA5: montare il buzzer sul retro della piastra

NOTA6: Consegnare i sensori B592 e B594 collegati ai rispettivi cavi W-B592 e W-B594

NOTA7: Rispettare il verso del diodo

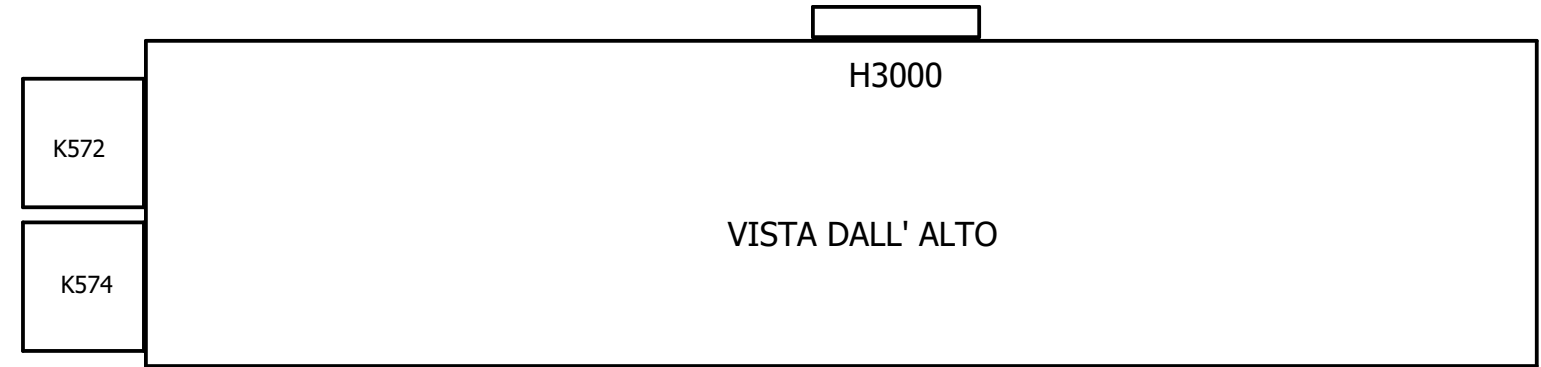


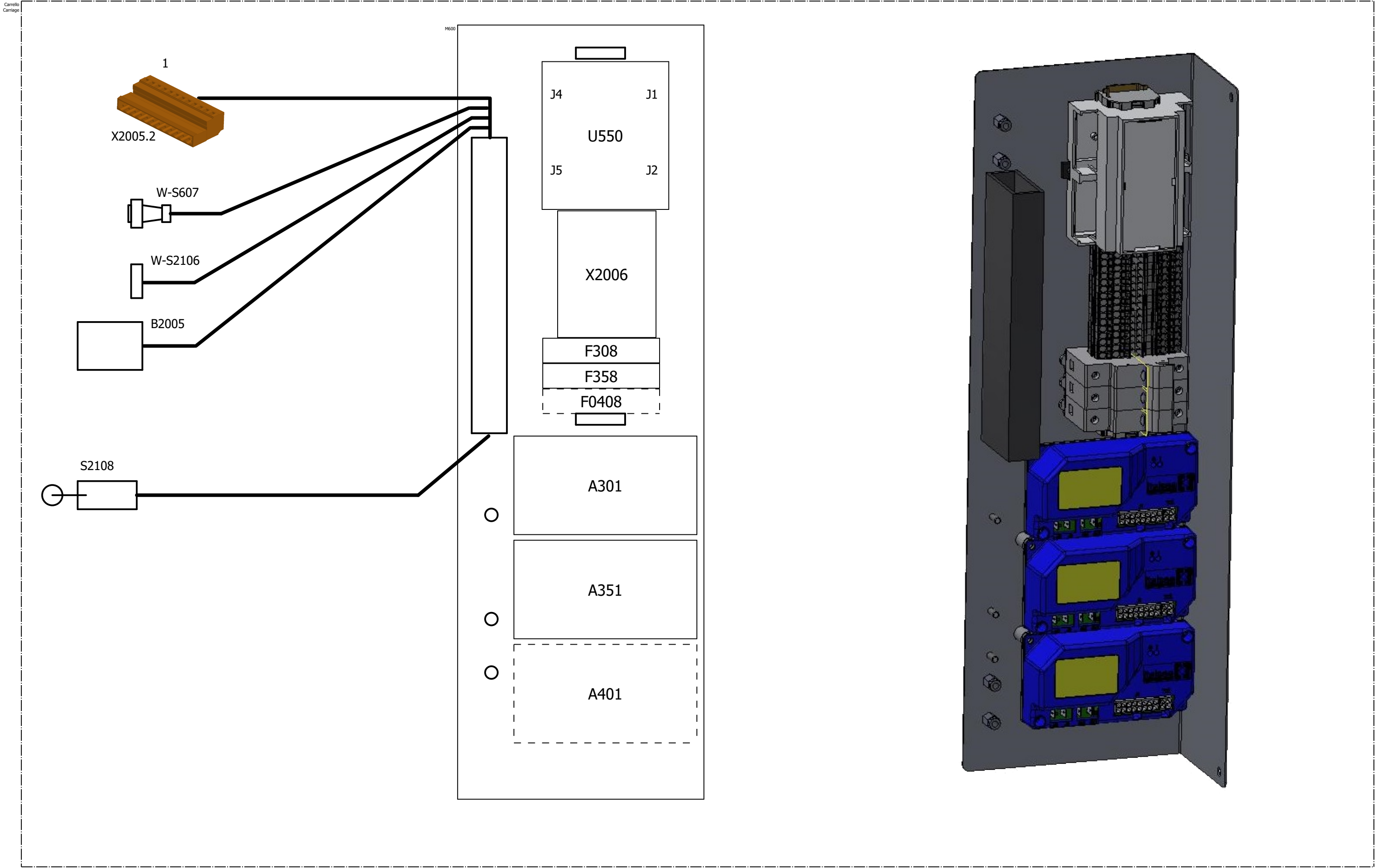
NOTA8: X806 siglare la parte inferiore del morsetto con una freccia posta al centro dello stesso

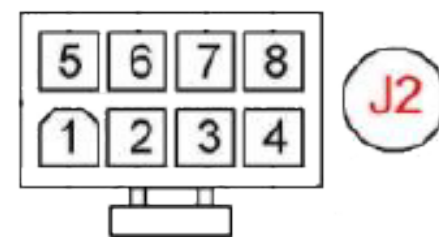
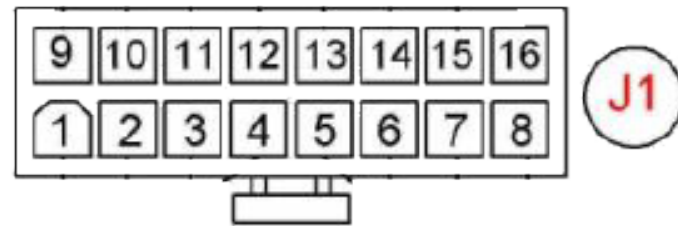
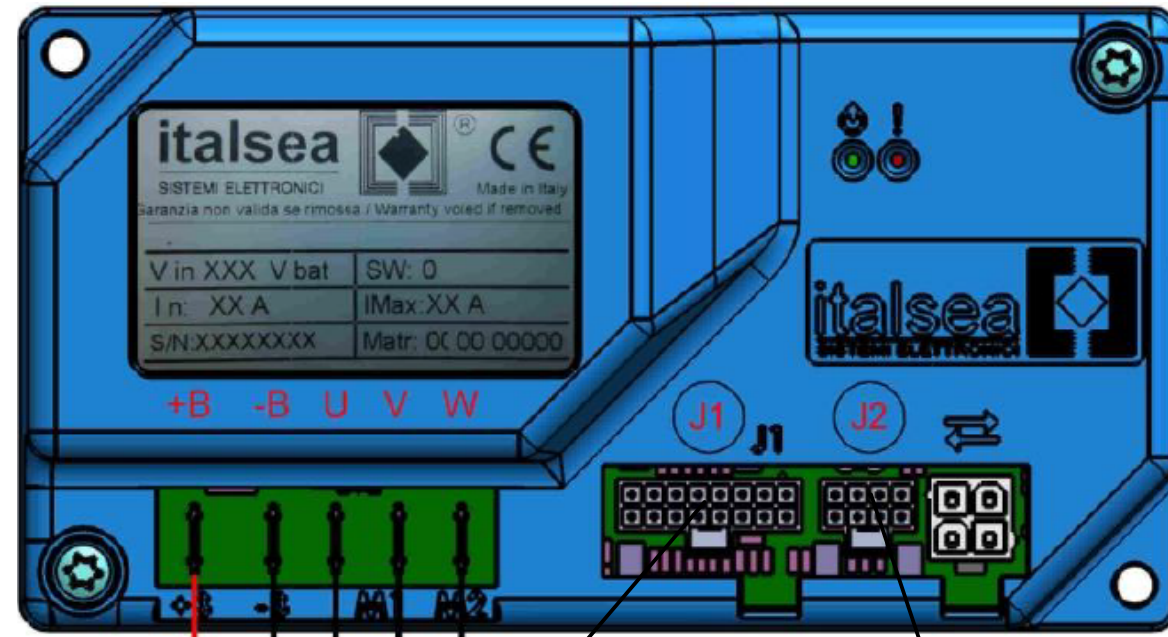


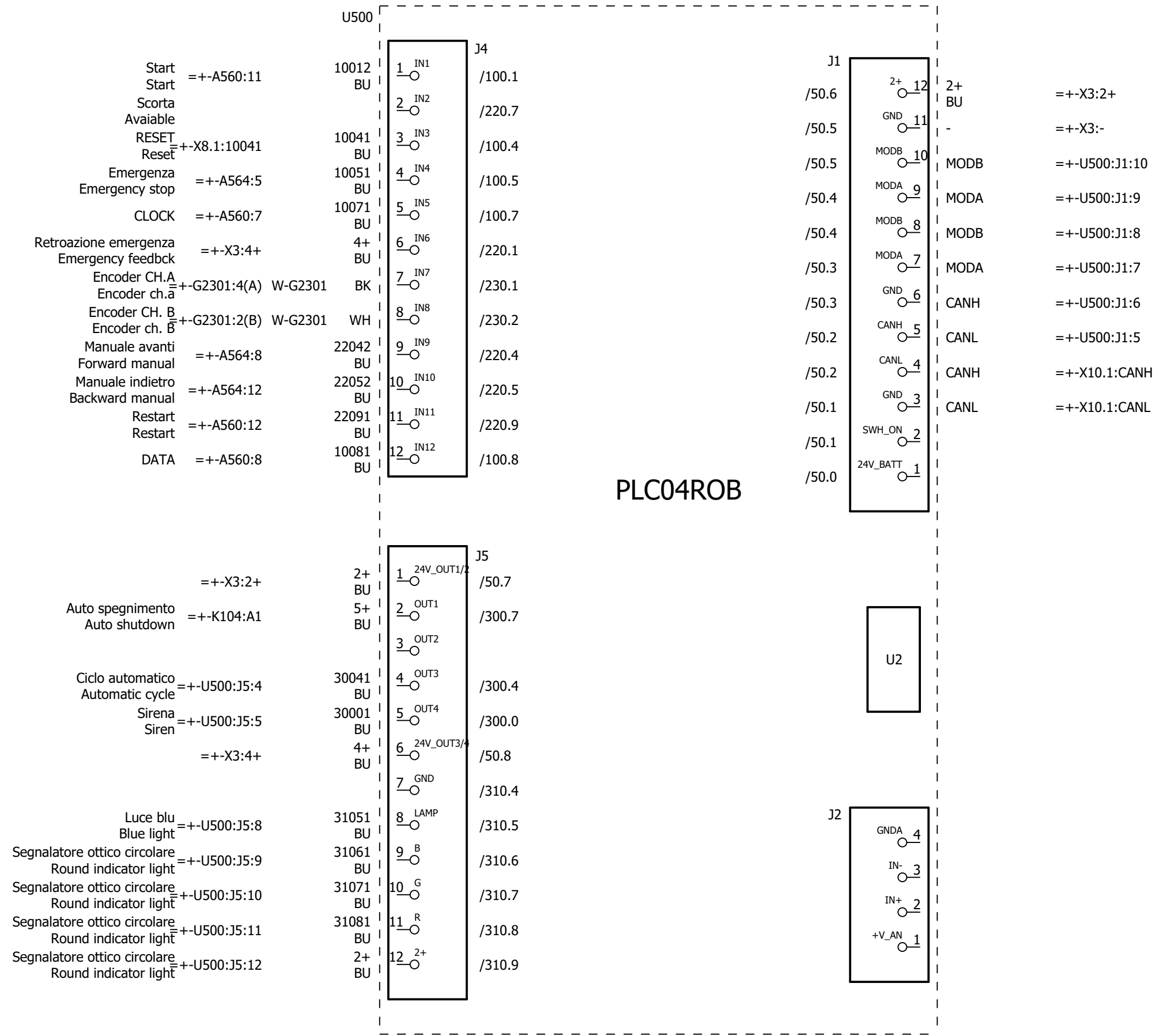
W-B592  
W-B594

W-BG586  
W-S2204.1  
W-S2205.1

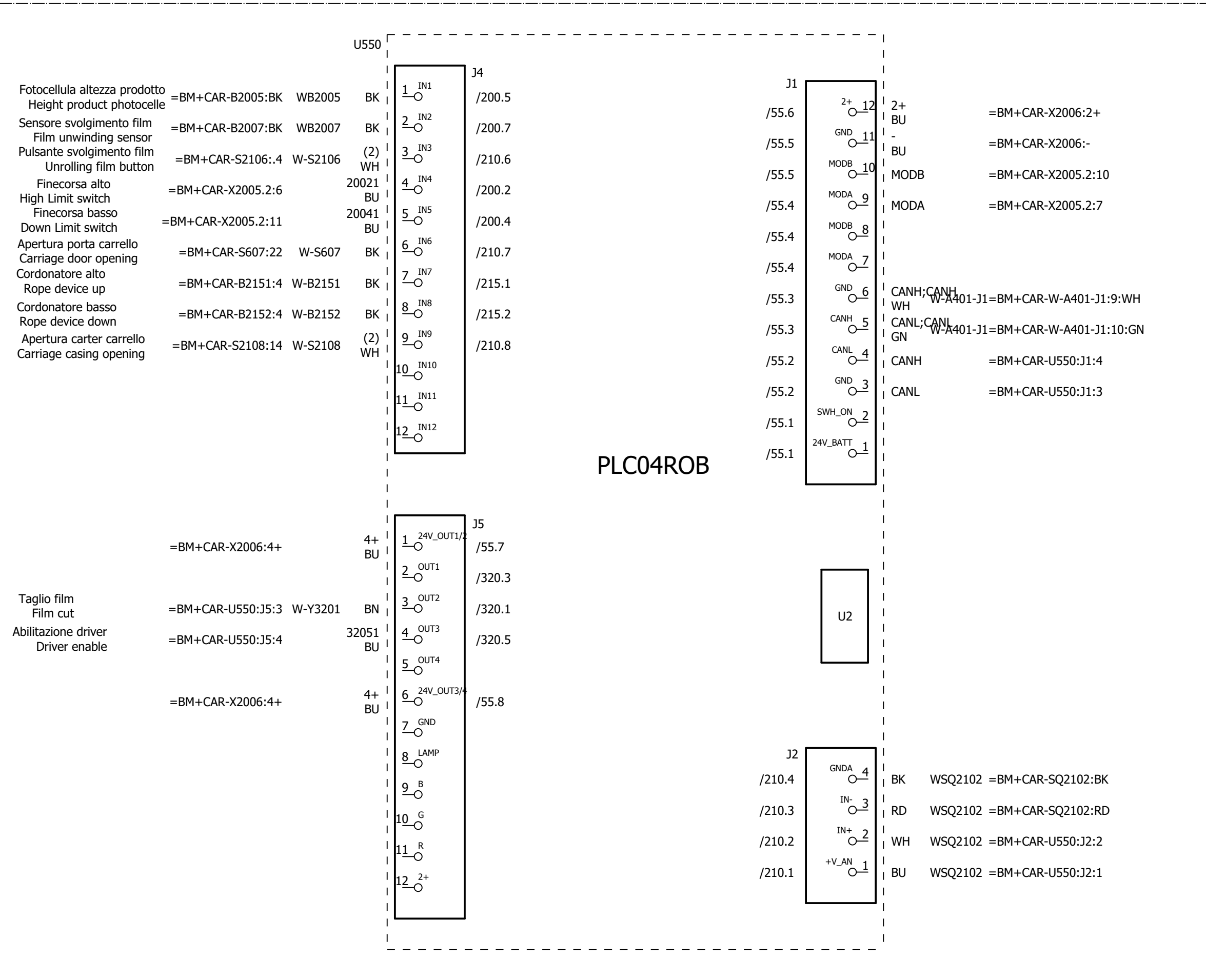


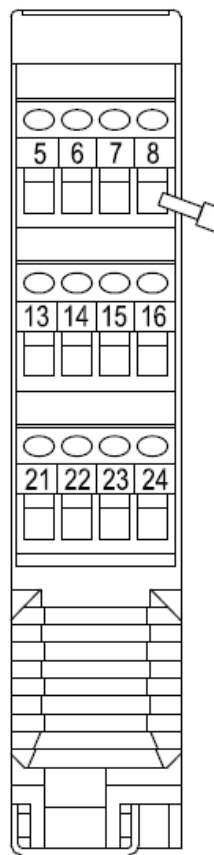
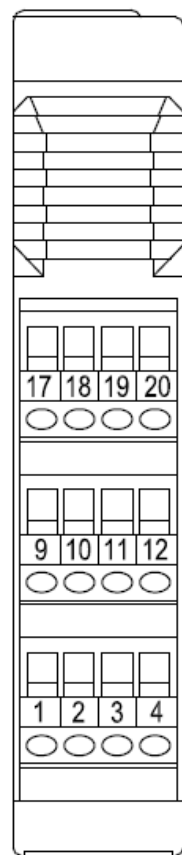
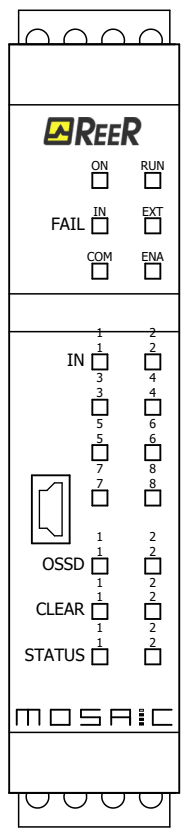




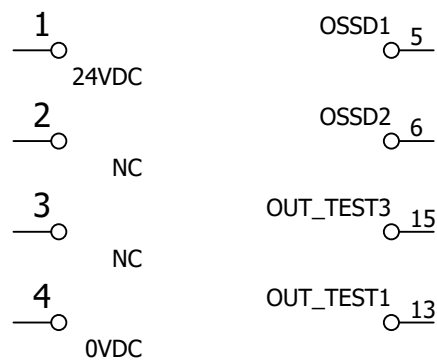


Carrello  
Carriage



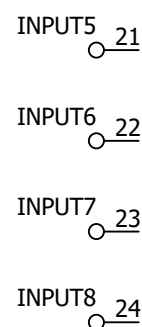
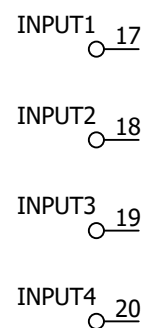
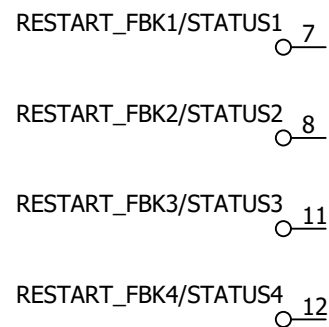
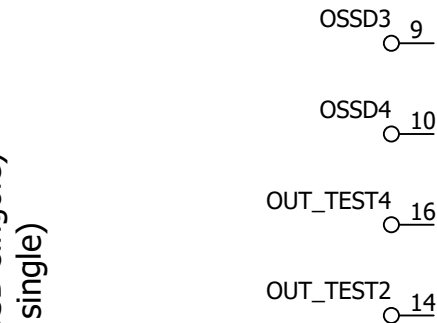


-A560  
/56.1

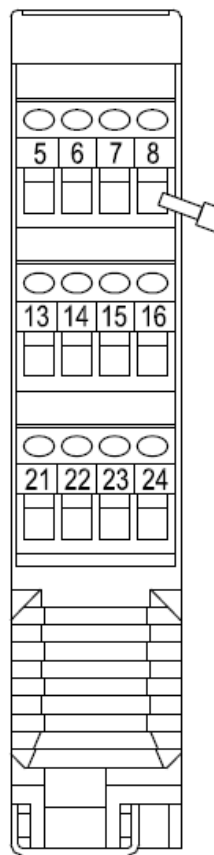
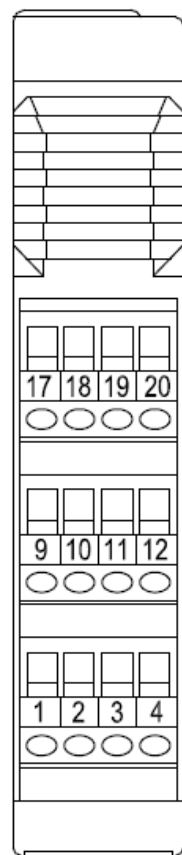
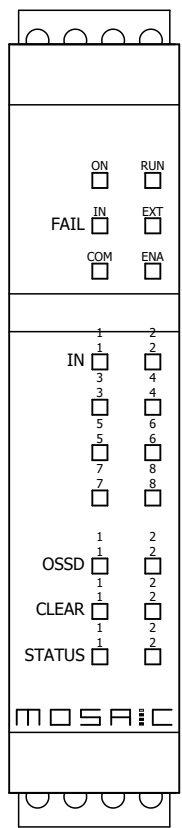


/56.3

MOSAIC unità principale (8 ingressi / 4 OSSD singole)  
MOSAIC main unit (8 input / 4 OSSD single)



/58.0	5801 BU	-U580:Output:Light Blue/Black	Selezione area Area selection
/58.1	5811 BU	-U580:Output:Light Blue	Selezione area Area selection
/60.8	6071 BU	-X2005.1:8	Apertura porta carrello Carriage door opening
/60.4	6041 BU	-A560:19	Emergenza Emergency stop
/310.1	31011 BU	-S2204	Led manuale avanti Forward manual led
/310.2	31021 BU	-S2205	Led manuale indietro Backward manual led
/100.7	10071 BU	-U500:J4:5	CLOCK
/100.8	10081 BU	-U500:J4:12	DATA
/100.1	10012 BU	-U500:J4:1	Start Start
/220.9	22091 BU	-U500:J4:11	Restart Restart
/58.3	5831 BU	-U580:Input:Black	Laser scanner Laser scanner
/58.4	5841 BU	-U580:Input:White	Laser scanner Laser scanner
/60.2	6021 BU	-S1005:.1	Emergenza Emergency stop
/58.6	5861 BU	-BG586:2	Timone basso Tiller low
/58.7	5871 BU	-BG586:4	Timone basso Tiller low
/60.7	6072 BU	-X2005.1:9	Apertura porta carrello Carriage door opening
/57.5	5751 BU	-S1004:14	RESET Reset



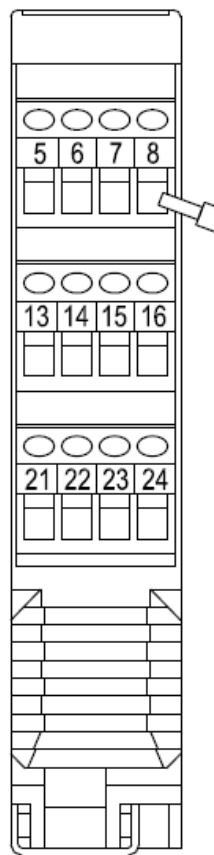
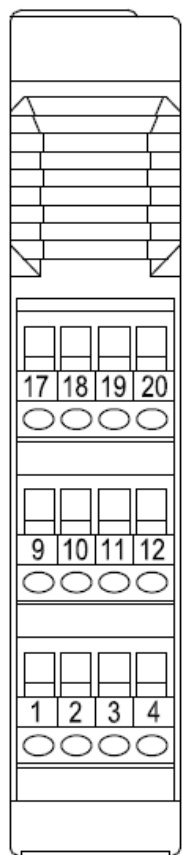
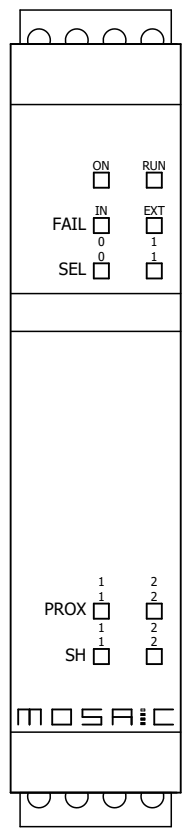
-A564  
/56.4  
/56.5  
/56.5  
/56.6

MOSAIC unità di espansione I/O (8 ingressi / 2 OSSD doppie)  
MOSAIC I/O expansion unit (8 input / 2 OSSD pair)

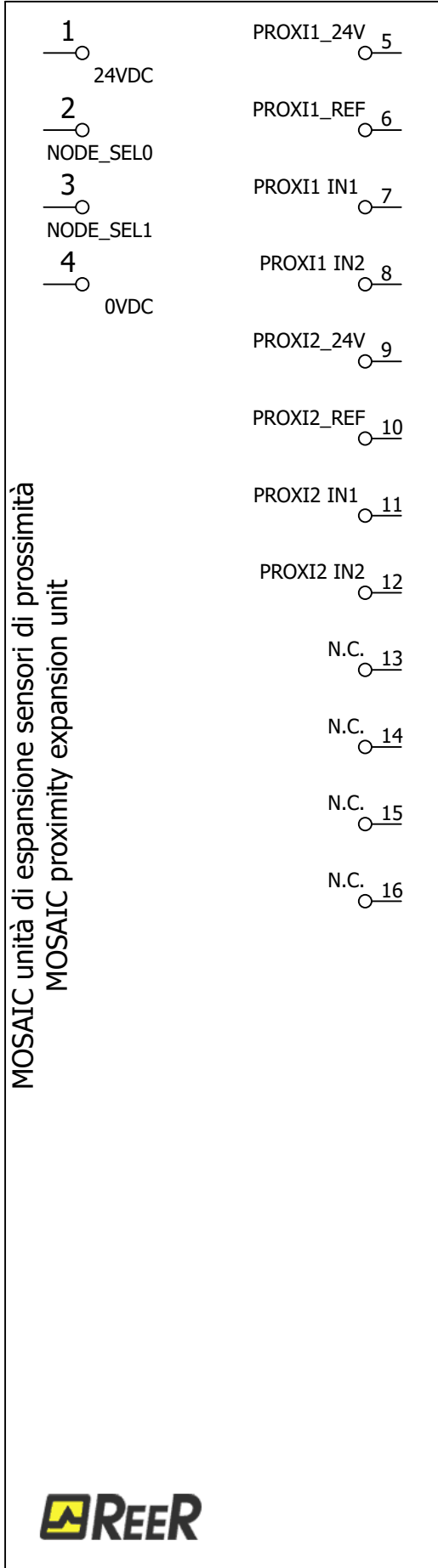


- 1 24VDC
- 2 NODE\_SEL0
- 3 NODE\_SEL1
- 4 0VDC
- 5 OSSD1\_A
- 6 OSSD1\_B
- 7 RESTART\_FBK1
- 8 OUT\_STATUS1
- 9 OSSD2\_A
- 10 OSSD2\_B
- 11 RESTART\_FBK2
- 12 OUT\_STATUS2
- 13 OUT\_TEST1
- 14 OUT\_TEST2
- 15 OUT\_TEST3
- 16 OUT\_TEST4
- 17 INPUT1
- 18 INPUT2
- 19 INPUT3
- 20 INPUT4
- 21 INPUT5
- 22 INPUT6
- 23 INPUT7
- 24 INPUT8

/100.5	10051 BU	-U500:J4:4	Emergenza Emergency stop
/220.4	22042 BU	-U500:J4:9	Manuale avanti Forward manual
/57.1	5711 BU	-K571:A1	Relè di sicurezza Safety relay
/57.3	5731 BU	-K573:A1	Relè di sicurezza Safety relay
/57.7	5774 BU	-K574:NC'	Retroazione emergenza Emergency feedback
/220.5	22052 BU	-U500:J4:10	Manuale indietro Backward manual
/60.0	6001 BU	-W-U800.1:3	Carica Batteria Battery charger
/220.4	22041 BU	-S2204	Manuale avanti Forward manual
/220.5	22051 BU	-S2205	Manuale indietro Backward manual
/60.1	6011 BU	-W-U800.1:4	Carica Batteria Battery charger
/58.2	5821 BU	-U580:Input:Red/Black	Fault Laser scanner Laser scanner Fault
/100.1	10011 BU	-S1000:.4	Start Start
/300.4	30041 BU	-U500:J5:4	Ciclo automatico Automatic cycle



A567  
/56.7  
/56.8  
/56.8  
/56.8





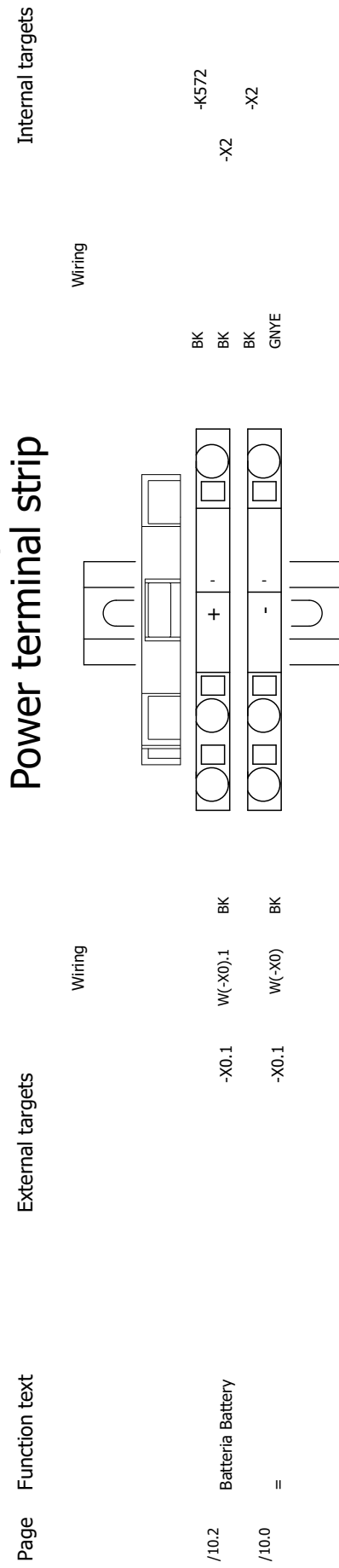
# Sommario cavi

## Cable overview

Cable	Origine	N° Conduttori	Cross-section	Capicorda origine	Spelatura origine (cm)	Lunghezza fuori cassetta (m)	Spelatura destinazione (cm)	Capicorda destinazione	Target	Note
-W104	-GND1	1	10 mm <sup>2</sup>	Occhiello D.6		0,35		Occhiello D.6	-GND2	
-W-B592	-B592	4	0,34 mm <sup>2</sup>		10	0,7			-A567	Uscita punto A, collegare il sensore
-W-B594	-B594	4	0,34 mm <sup>2</sup>		10	0,7			-A567	Uscita punto A, collegare il sensore
-W-BG586	-X3	4	0,34 mm <sup>2</sup>		Collegato	1,2			-BG586	Uscita punto B
-W-G2301	-X3;-U500	4	0,34 mm <sup>2</sup>		7	0,7			-G2301	Uscita da punto A
-W-S2204.1		4	0,25 mm <sup>2</sup>		Collegato	1,5			-X3	Uscita punto B
-W-S2205.1		4	0,25 mm <sup>2</sup>		Collegato	1,5			-X3	Uscita punto B
-W-U580	-X3								-U580	
-W-X0	-X1	1	10 mm <sup>2</sup>	Puntalino		0,35		--	-X0.1	Foro uscita A
-W-X0.1	-X1	1	10 mm <sup>2</sup>	Puntalino		0,35		--	-X0.1	Foro uscita A
-W-X8.3	-X8.3	4	0,5 mm <sup>2</sup>						-S1005	
-W-X0206	-X0206	2	1 mm <sup>2</sup>		10	0,7	7		-K574;-K572	
-W-X806	-X3	2	0,5 mm <sup>2</sup>	--	10	1,5	7		-X806	Uscita da "A"
-W-X806.1	-X3	2	0,5 mm <sup>2</sup>	--	10	1,5	7		-X806	Uscita da "A"

=+-X1

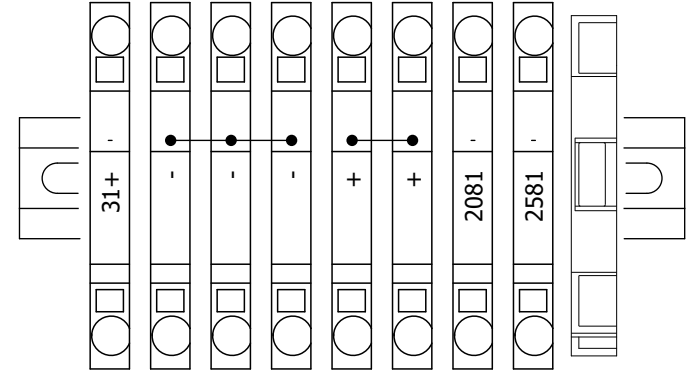
Morsettiera di potenza  
Power terminal strip



= +-X2

Morsettiera di potenza  
Power terminalboard

Page	Function text	External targets	Wiring	Internal targets
/10.2		-X2005.1 W(-X2005.1),2 -X2005.1 W(-X2005.1),2	1 3	-F102
/10.1		-A251 W(-A251-X2)	BU	-X1
/10.1		-X2005.1 W(-X2005.1),2 -X2005.1 W(-X2005.1),2	2 GNVE	-A201
/10.1		-U800	BK	-X3
/10.2		-U800	RD	-F103
/20.8		-A201 W(-A201-X2)	BN	-X1
/25.8		-A251 W(-A251-X2)	BN	-F208



# Terminal diagram

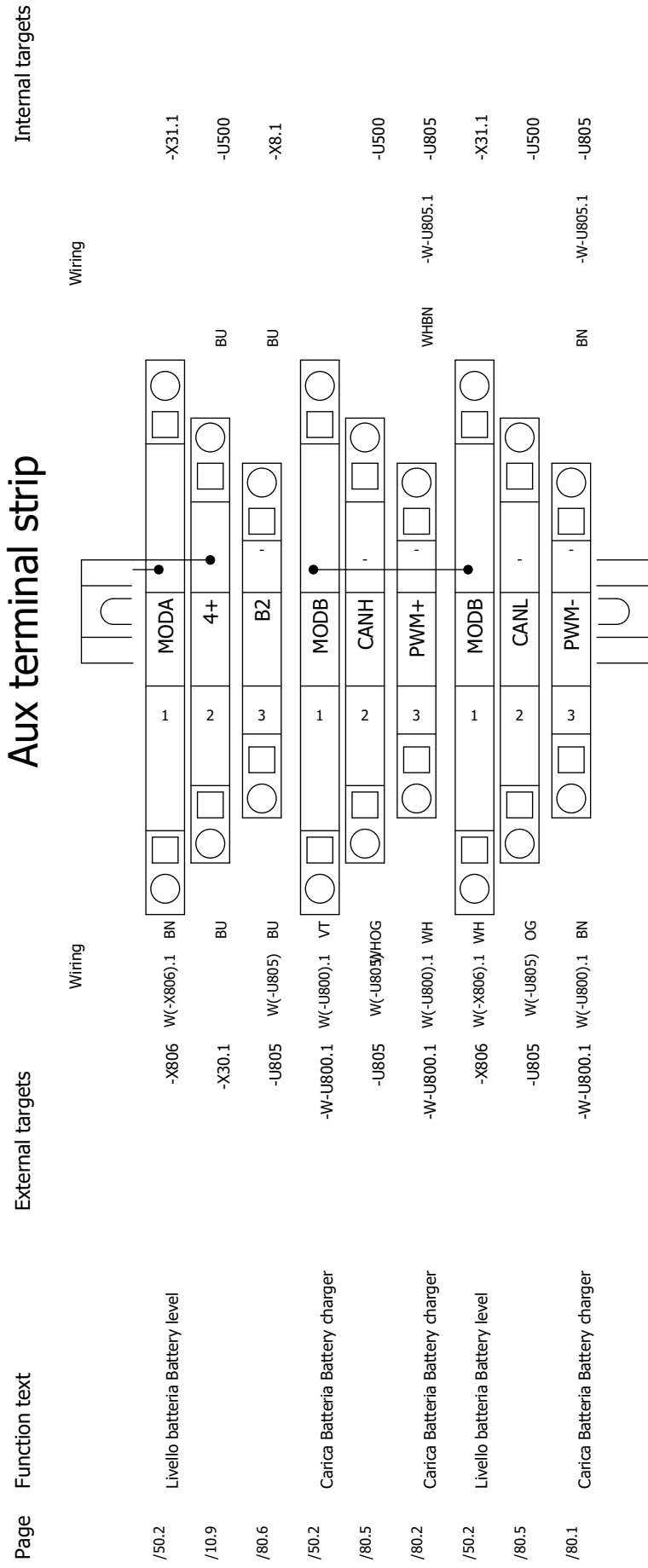
= +-X3

## Morsettiere ausiliari Aux terminal strip

Page	Function text	External targets	Wiring	Wiring	Internal targets
/60.0	Carica Batteria Battery charger	-A564	BU	6001	-W-U800.1
/10.5				1+	-F103
/58.0	Selezione area Area selection	-A560	BU	5801	-U580
/60.1	Carica Batteria Battery charger	-A564	BU	6011	-W-U800.1
/10.6	Batteria Battery	-X8.1	BU	1+	-K104
/58.1	Selezione area Area selection	-A560	BU	5811	-U580
/310.5	Luce blu Blue light	-X3104.1	WH	31051	-U500
/10.6	Batteria Battery	-X8.1	BU	2+	-K104
/58.2		-U580	W(-U580)DBK	5821	-A564
/10.3		-K104	BU	-	-X2
/10.7		-X10.1	BU	2+	-U500
/58.3	Laser scanner Laser scanner	-A560	BU	5831	-U580
/10.4	Batteria Battery	-X8.1	BU	-	-U500
/10.7	Livello batteria Battery level	-X806	BN	2+	-X30.1
/58.4	Laser scanner Laser scanner	-A560	BU	5841	-U580
/10.4		-X30.1	BU	-	-K571
/10.7		-U580	W(-U580) BN	2+	-U500
/58.6	Timone basso Tiller low	-A560	BU	5861	-BG586
/10.4	Livello batteria Battery level	-X806	WH	-	-X10.1
/10.7	Contattore emergenza Emergency contactor	-K571	BU	2+	-A560
/58.7	Timone basso Tiller low	-A560	BU	5871	-BG586
/10.4		-A560	BU	-	-U580
/58.6		-BG586	W(-BG586) BN	2+	-U580
/220.4	Manuale avanti Forward manual	W(-S2204).1	WH	22041	-A564
/58.5		-BG586	W(-BG586) BU	-	-X8.1
/220.4	Manuale avanti Forward manual	W(-S2204).1	BK	2+	
/220.5	Manuale indietro Backward manual	W(-S2205).1	WH	22051	-A564
/230.1	Encoder CH.A Encoder ch.a	-G2301	BU	-	-H3000
/220.5	Manuale indietro Backward manual	W(-S2205).1	BK	2+	-G2301
/310.1	Led manuale avanti Forward manual led	W(-S2204).1	BN	31011	-A560
/310.1	Led manuale indietro Backward manual led	W(-S2205).1	BU	-	
/310.4	Led manuale indietro Backward manual led	-X3104.1	BN	2+	-A560
/310.2	Led manuale indietro Backward manual led	W(-S2205).1	BN	31021	
/50.1	Carica Batteria Battery charger	-W-U800.1	BU	MODA	
/10.9	Retroazione emergenza Emergency feedback	-U500	BU	4+	-F107
/80.6		-U805	W(-U805)HGN	B1	-X8.1

=+-X3

## Morsettiere ausiliari Aux terminal strip



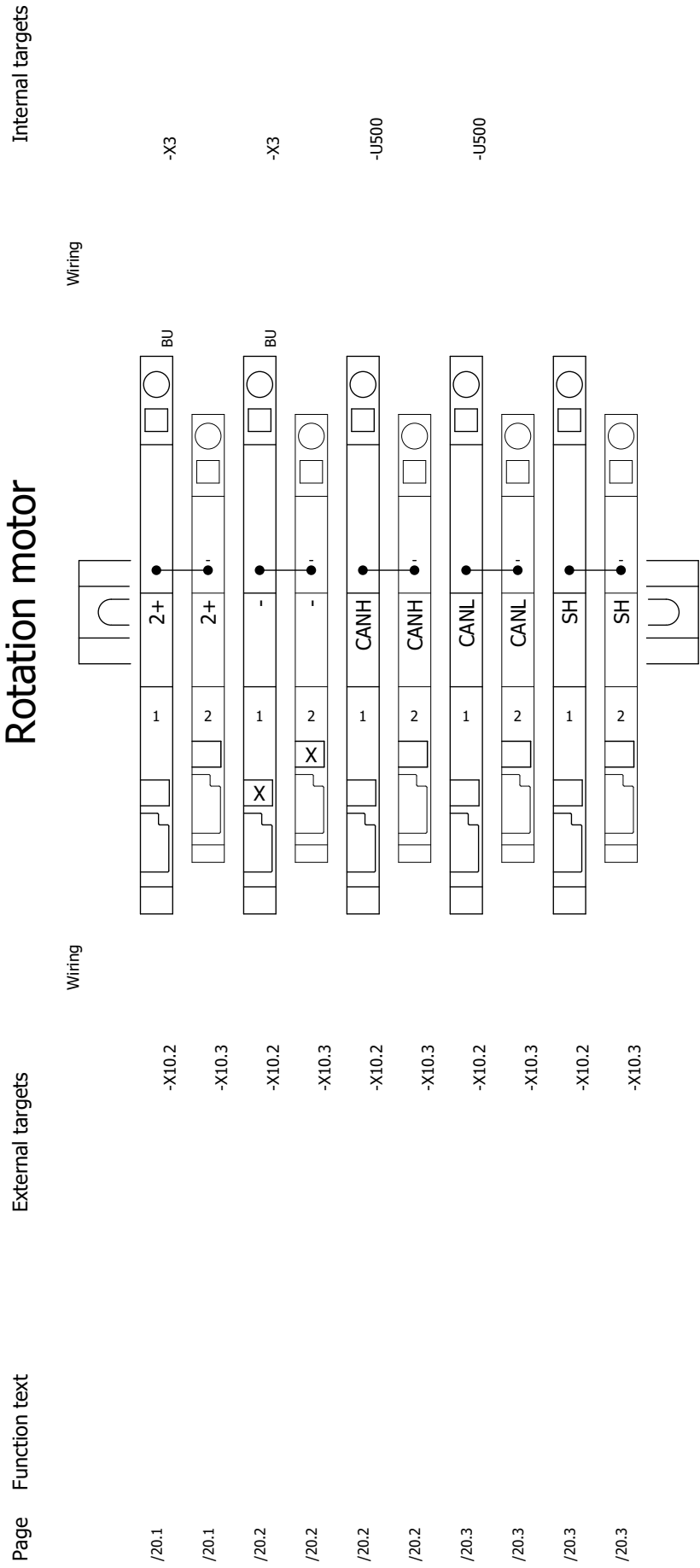
=+-X8.1

## Pannello comandi Control panel

Page	Function text	External targets	Wiring	Wiring	Internal targets
/10.6	Batteria Battery	-X8.2			-X3
/10.6	Batteria Battery	-X8.3			-X3
/10.6	Batteria Battery	-X8.2			-X3
/57.5	RESET Reset	-X8.3			-A560
/10.6	Batteria Battery	-X8.2			-X3
/60.2	Emergenza Emergency stop	-X8.3			-A560
/10.6	Batteria Battery	-X8.2			-K104
/60.4	Emergenza Emergency stop	-X8.3			-A560
/10.6	Batteria Battery	-X8.2			-X3
/100.1	Start Start	-X8.3			-A564
/50.5		-X8.2			-U500
/100.4	RESET Reset	-X8.3			-U500
/50.5		-X8.2			-U500
/100.5	Emergenza Emergency stop	-X8.3			-U500
/50.6		-X8.2			-X3
/10.7	Batteria Battery	-X8.3			-X3

=+-X10.1

Motore rotazione  
Rotation motor



# Terminal diagram

=+-X20.1

## Segnalatore ottico circolare Round indicator light

Page	Function text	External targets	Wiring	Wiring	Internal targets
/310.9	Segnalatore ottico circolare Round indicator light	-X20.2			-U500
/310.6	Segnalatore ottico circolare Round indicator light	-X20.3			-U500
/310.7	Segnalatore ottico circolare Round indicator light	-X20.2			-U500
/310.8	Segnalatore ottico circolare Round indicator light	-X20.3			-U500

=+-X30.1

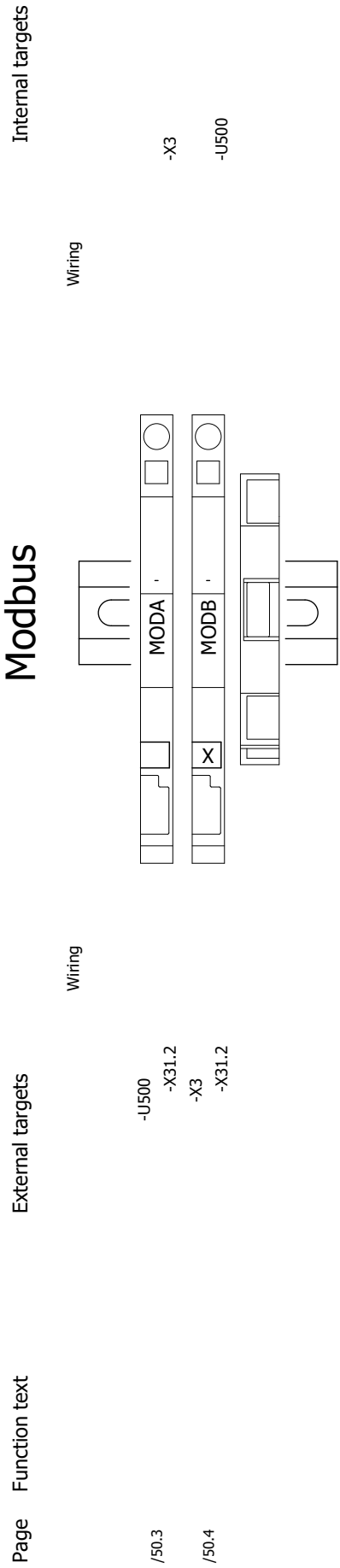
Morsettiere carrello  
Carriage terminal blocks

Page	Function text	External targets	Wiring	Wiring	Internal targets
/15.4		-X30.2			-X3
/60.7	Apertura porta carrello Carriage door opening	-X30.3			-A560
/15.6		-X30.2			-X3
/60.7	Apertura porta carrello Carriage door opening	-X30.3			-A560
/15.2		-X30.2			-X3
/15.1		-X30.3			
/15.2		-X30.3			

# Terminal diagram

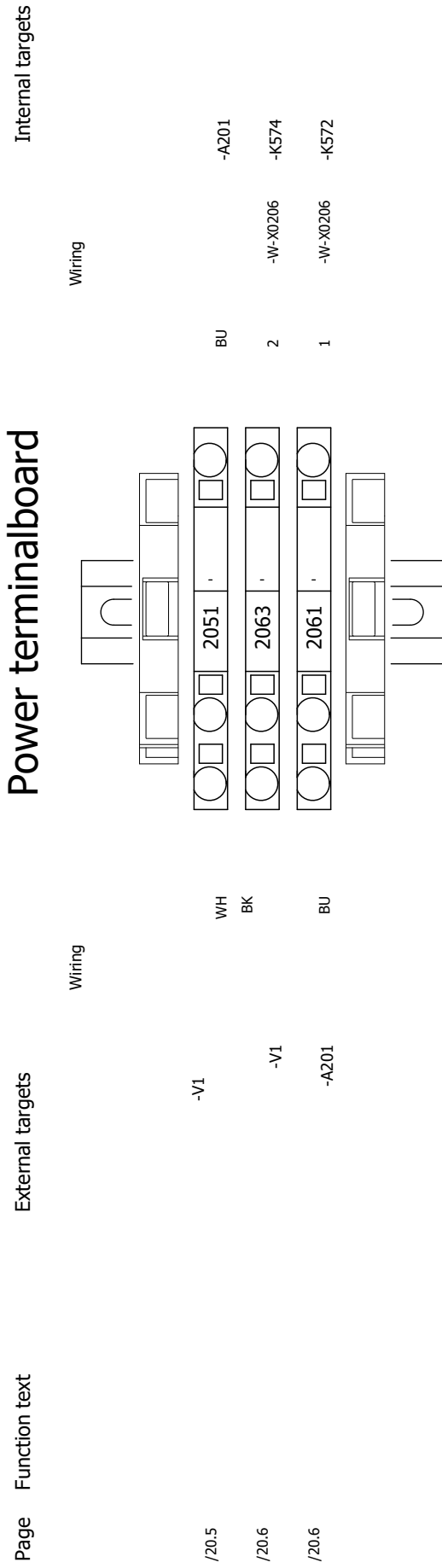
=+-X31.1

ModBus  
Modbus



=+-X0206

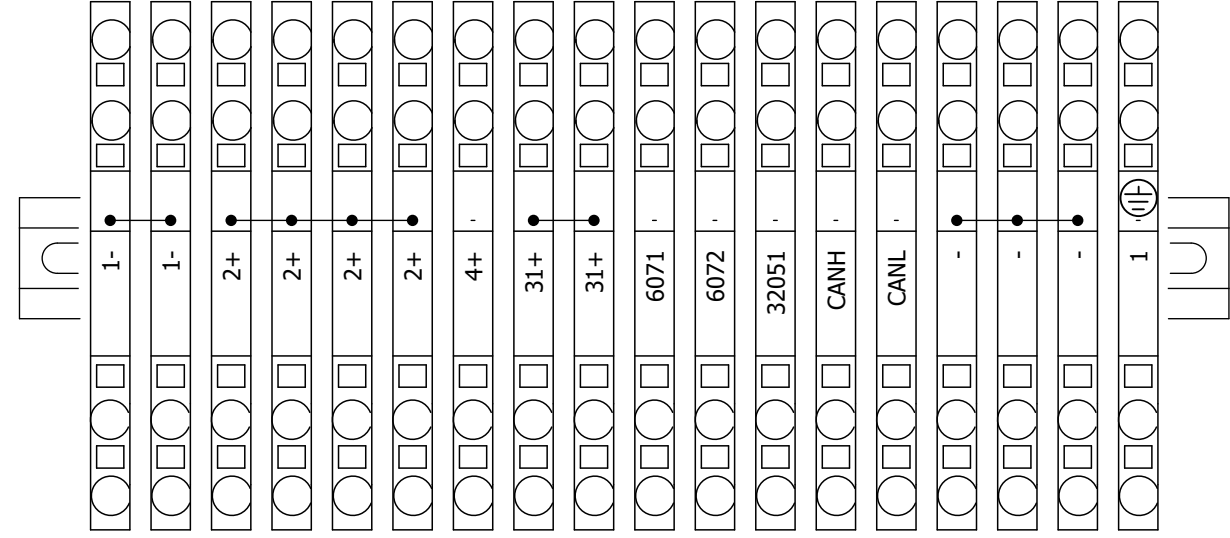
Morsettiera di potenza  
Power terminalboard



=BM+CAR-X2006

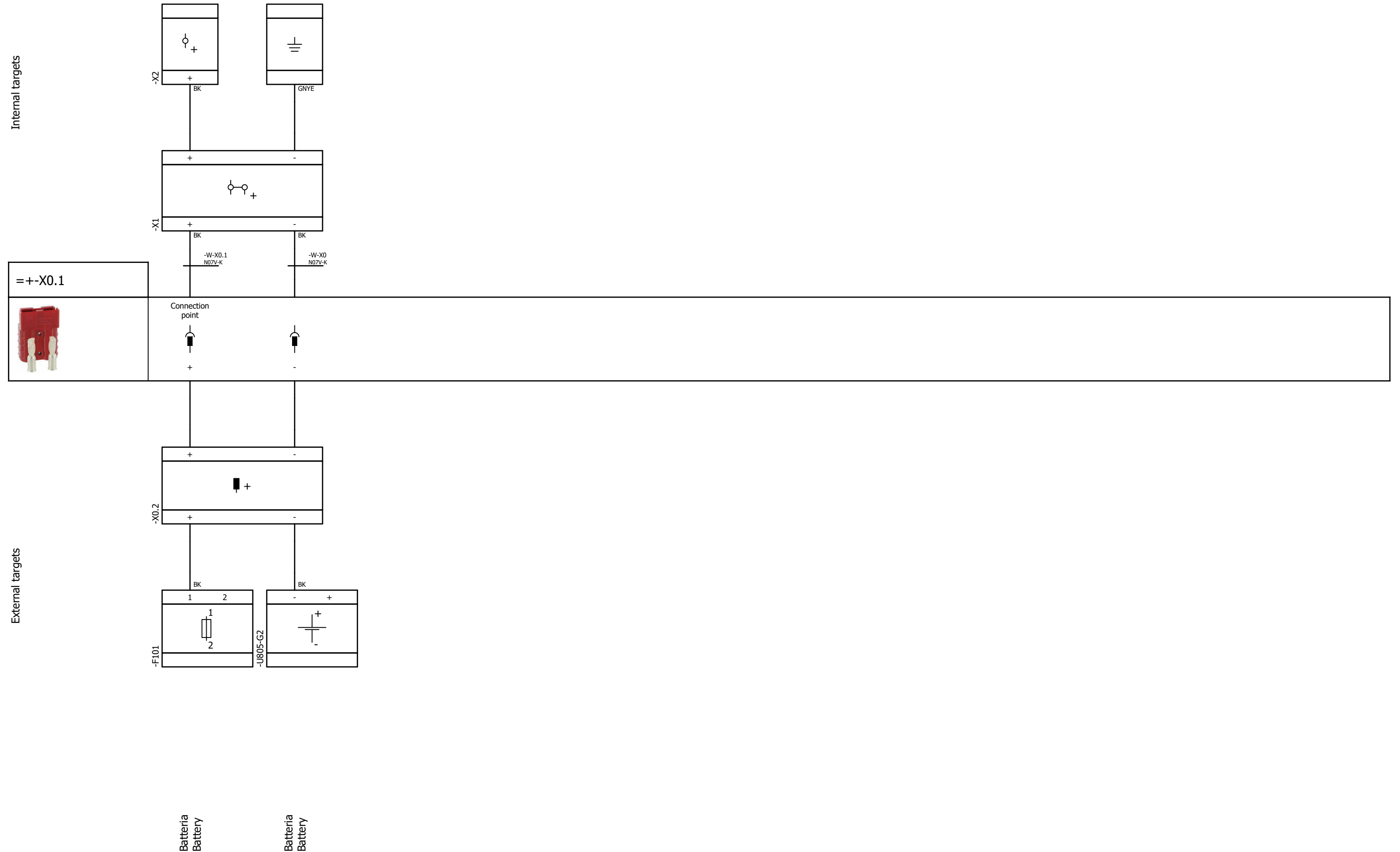
## Morsettiere ausiliari Aux terminal strip

Page	Function text	External targets	Wiring	Internal targets
=+/15.8		-A351 -A301	BU BU	-X2005.2
=+/15.8		-A401	BU	-X2005.2
=+/15.4		-W-A401-J1 -W-A301-J1	VT BN	-X2005.2 -W-A301-J1
=+/15.4		-U550 -W-A401-J1	BU BN	-W-A351-J1 -S2106
=+/200.5	Cordonatore basso Rope device down	-B2152 -B2151	BN BN	-X2005.2 -S2108
=+/200.5	Cordonatore alto Rope device up	-B2005 -B2005	WH BN	-S607
=+/15.6		-U550	BU	-X2005.2
=+/15.7		-F358 -F308	BU BU	-X2005.2
=+/15.7		-F0408	BU	-X2005.2
=+/60.7	Apertura porta carrello Carriage door opening	-S607	BN	-X2005.2
=+/60.7	=	-X2005.2		-S607
=+/320.5		-W-A401-J1 -W-A351-J1	OG OG	-U550 -W-A301-J1
=+/55.2		-W-A351-J1 -W-A301-J1	WH WH	-U550
=+/55.2		-W-A301-J1 -W-A351-J1	GN GN	-U550 -W-A351-J1
=+/15.2		-W-A401-J1 -X2006	PK BU	-X2005.2
=+/15.3		-W-A301-J1 -U550	PK BU	
=+/200.6	Sensore svolgimento film Film unwinding sensor	-B2007	BU	-Y3201
=+/15.1		-B2005	BU	-X2005.2



# Connettore batteria

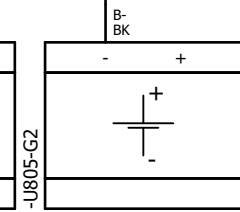
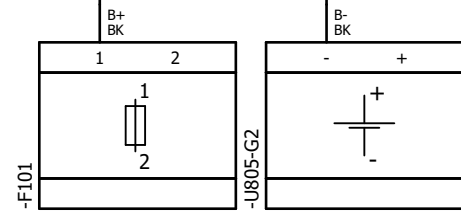
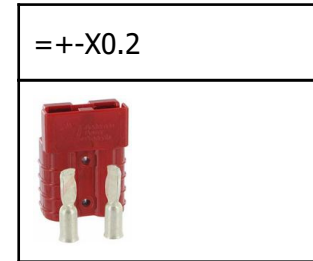
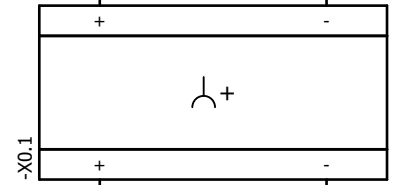
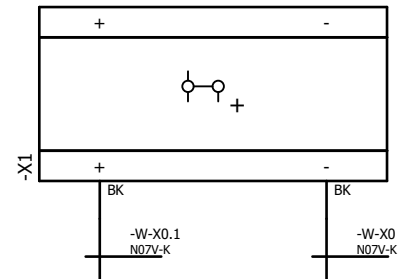
## Battery connecotr



# Connettore batteria

## Battery connecotr

Internal targets



External targets

Batteria  
Battery

Batteria  
Battery

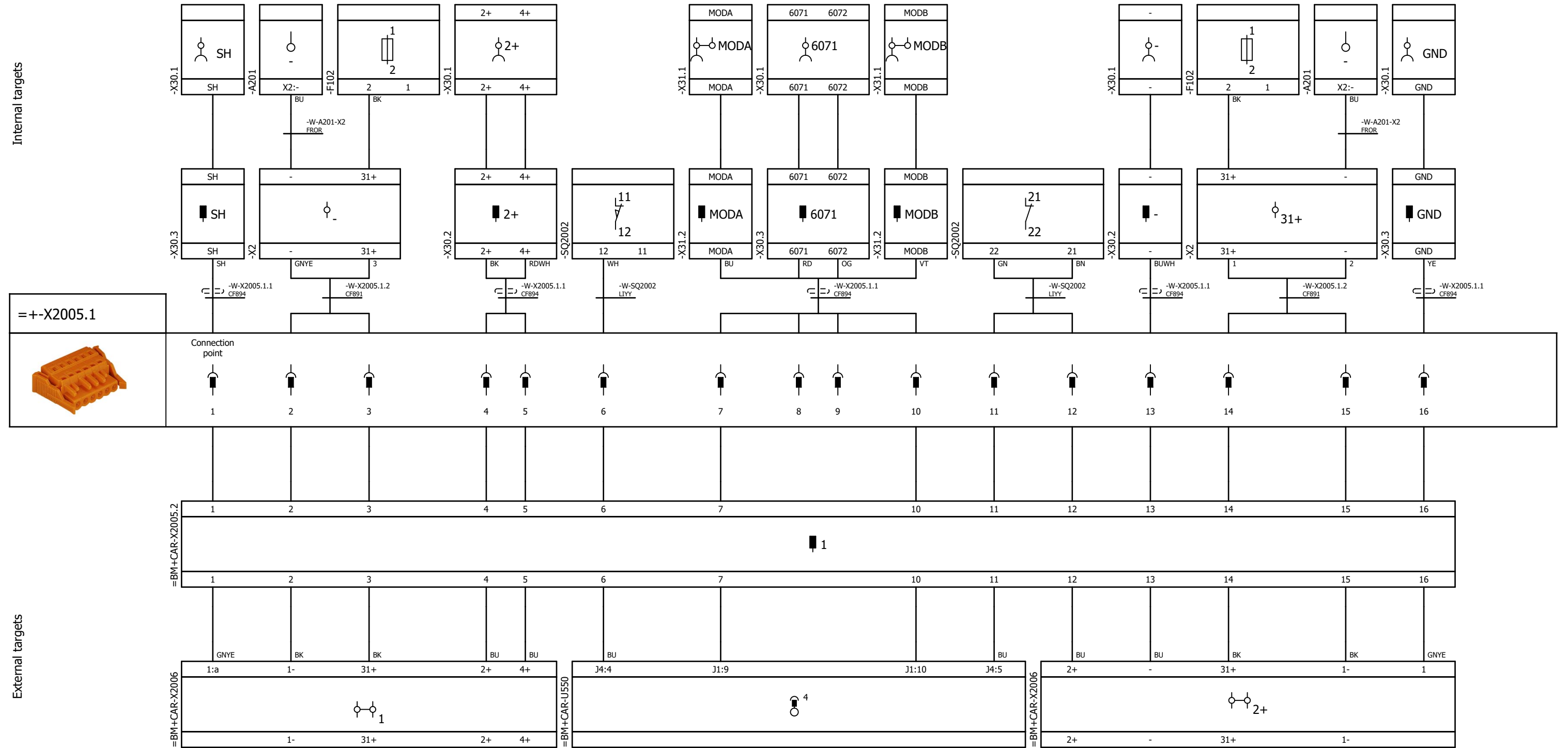
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**Pin-connection diagram =+-X0.2**

Code	3709308083ENG	Date	09/02/2022	Total	79	Prev	682	Next	684	Page	683
Machine	Robot S7 P3GS/PVS Stop&Go										



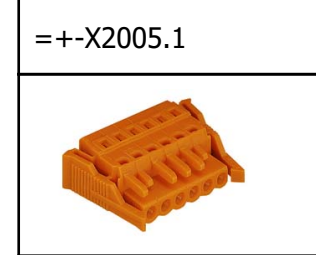
# Connettore carrello

## Carriage connector



Internal targets

External targets



=+-X2005.1

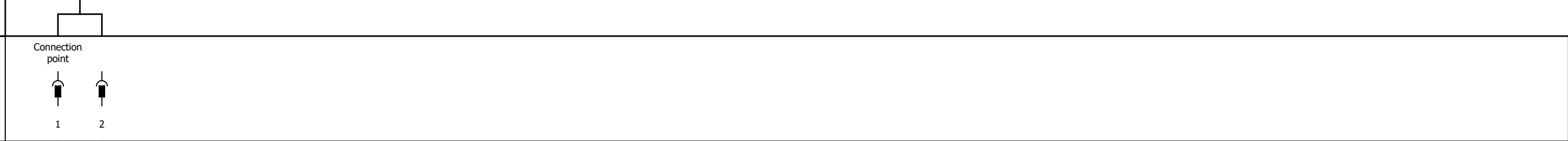
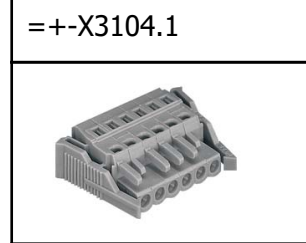
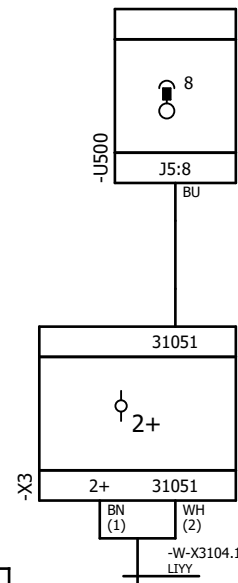
Fincorsa alto  
High Limit switch

Apertura porta carrello  
Carriage door opening

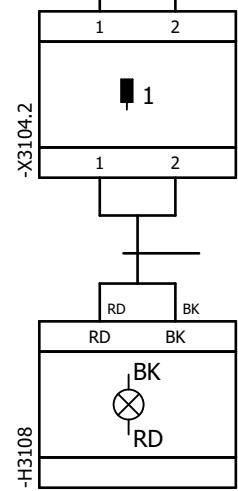
Fincorsa basso  
Down Limit switch

# Luce blu Blue light

Internal targets



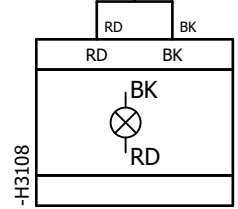
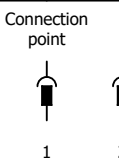
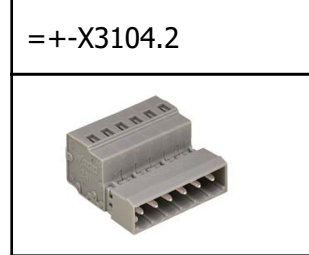
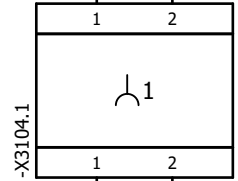
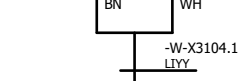
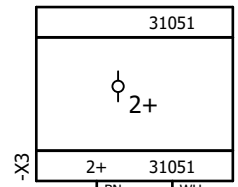
External targets



Led manuale indietro  
Backward manual led  
Luce blu  
Blue light

# Luce blu Blue light

Internal targets



External targets

Led manuale indietro  
Backward manual led  
Luce blu  
Blue light

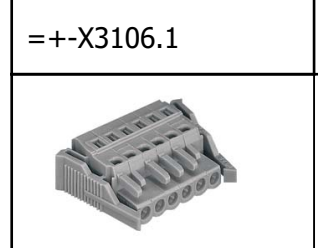
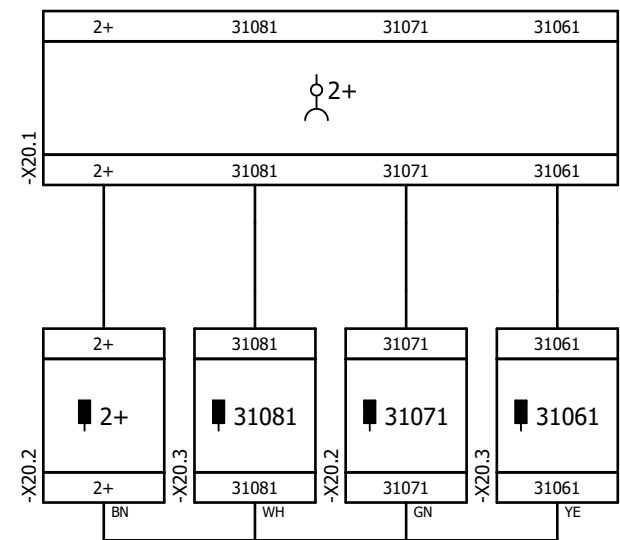


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**Pin-connection diagram =+-X3104.2**

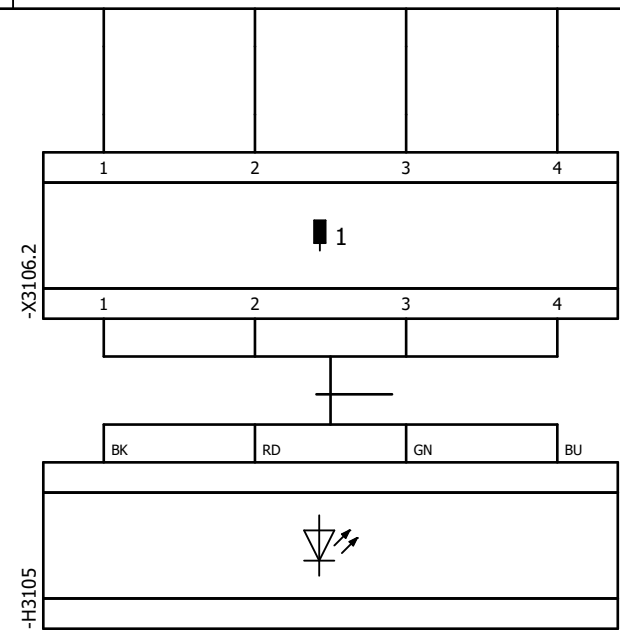
Code	3709308083ENG	Date	09/02/2022	Total	79	Prev	685	Next	687	Page	686
Machine	Robot S7 P3GS/PVS Stop&Go										

# Connettore led Strip led connector

Internal targets



External targets



Segnalatore ottico circolare  
Round indicator light

|| || ||



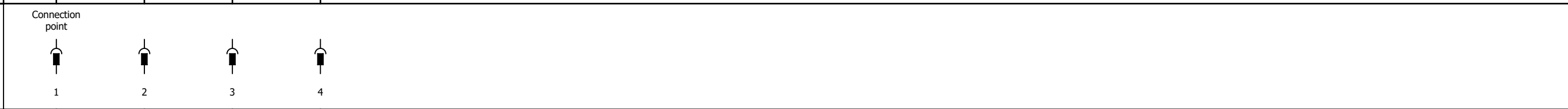
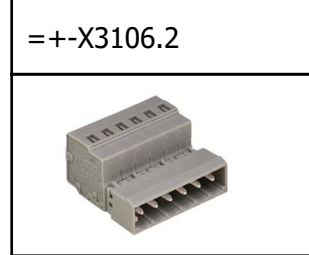
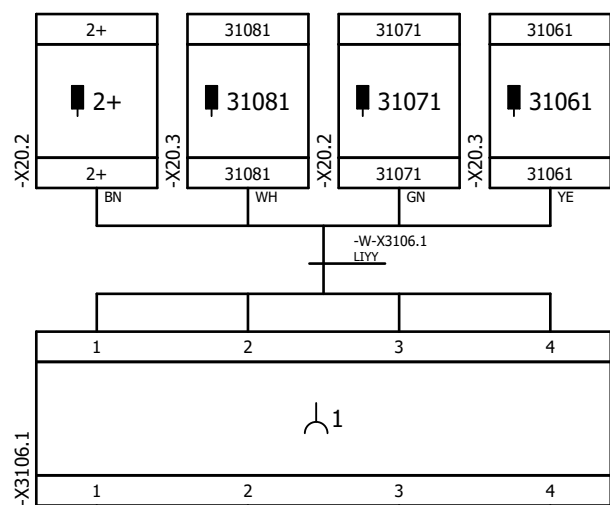
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Pin-connection diagram =+-X3106.1

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Machine	Robot S7 P3GS/PVS Stop&Go										

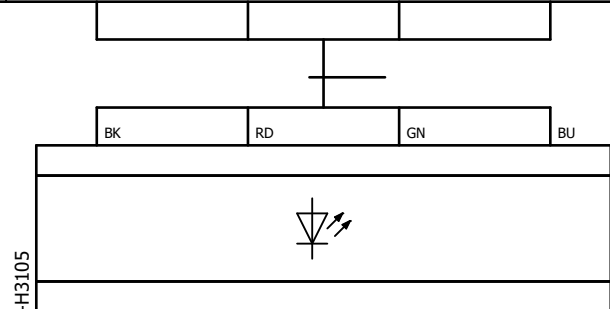
# Connettore led

## Strip led connector

Internal targets



External targets



Segnalatore ottico circolare  
Round indicator light

|| || ||



Description  
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Pin-connection diagram =+-X3106.2

Code	3709308083ENG	Date	09/02/2022	Total	79	Prev	687	Next	689	Page	688
Machine	Robot S7 P3GS/PVS Stop&Go										

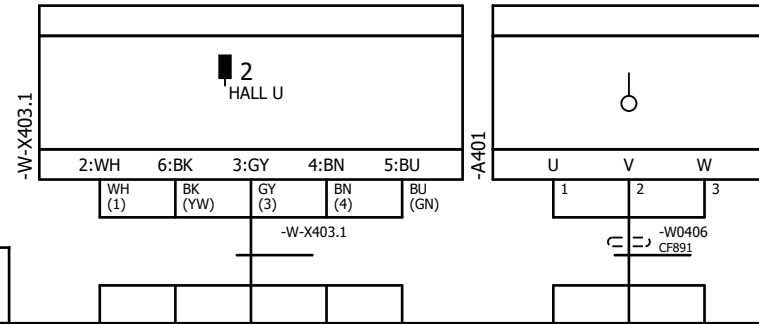
Internal targets



External targets

# Cordonatore Roping device

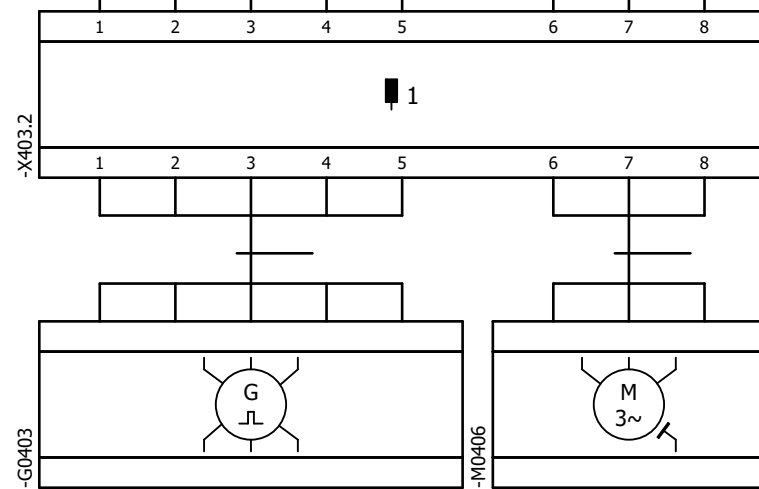
Internal targets



=BM+CAR-X403.1



External targets



Motore cordonatore  
Rope device motor  
II

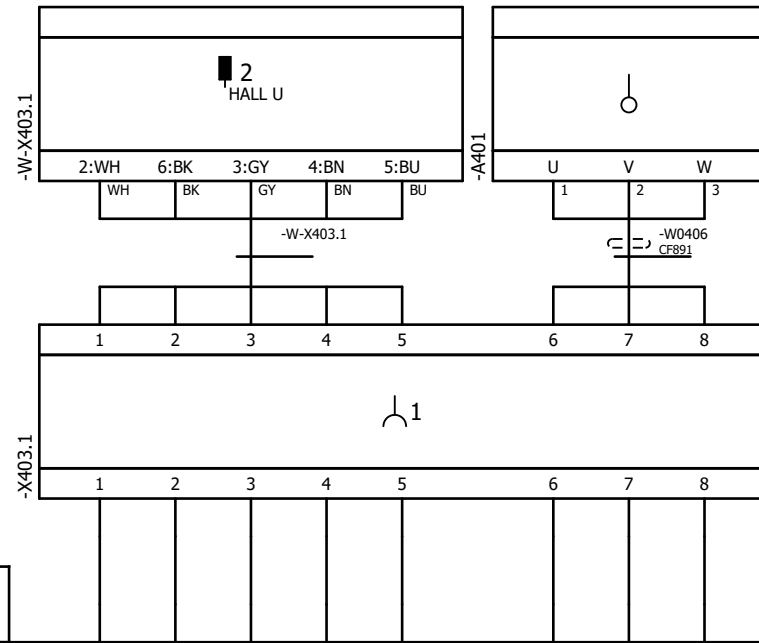


Description  
**Schema allacciamento connettori =BM+CAR-X403.1**  
**Pin-connection diagram =BM+CAR-X403.1**

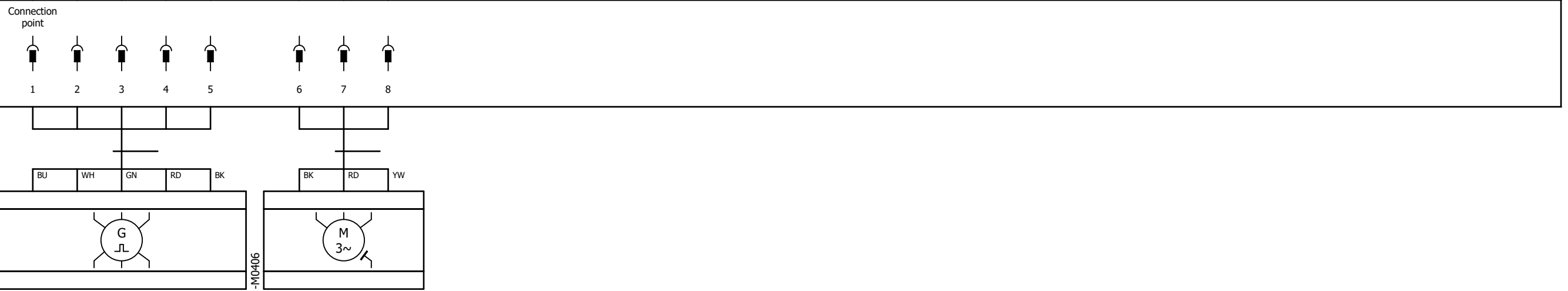
Code	3709308083ENG	Date	09/02/2022	Total	79	Prev	689	Next	691	Page	690
Machine	Robot S7 P3GS/PVS Stop&Go										

# Cordonatore Roping device

Internal targets



=BM+CAR-X403.2



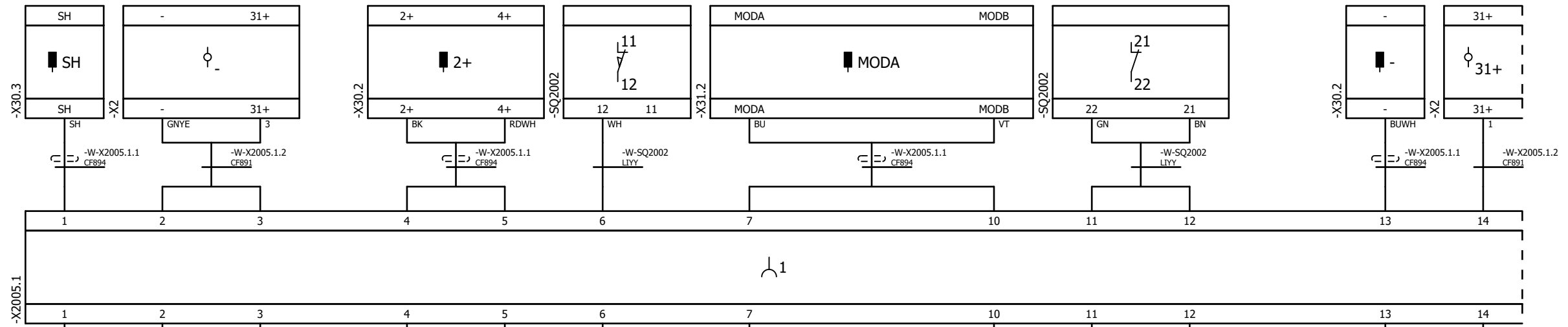
External targets

Motore cordonatore  
Rope device motor  
II

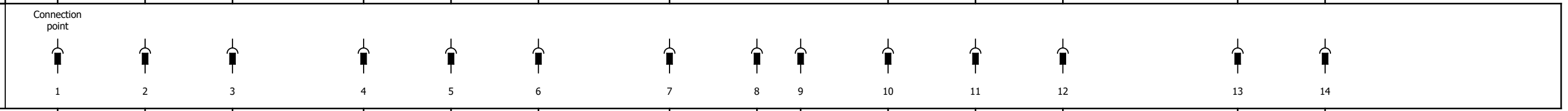
# Connettore carrello

## Carriage connector

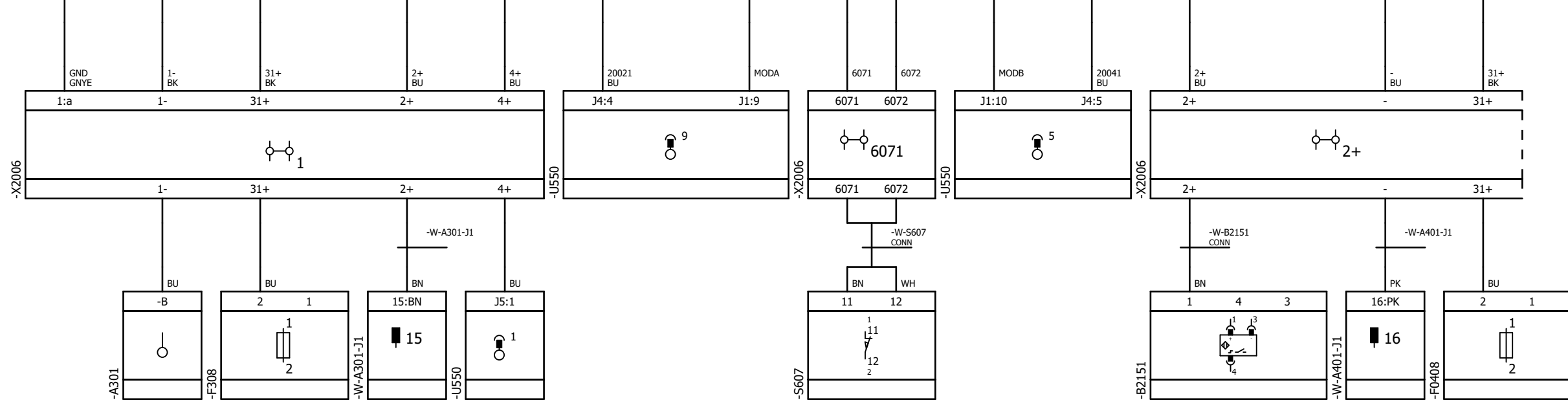
Internal targets



=BM+CAR-X2005.2



External targets



Fincorsa alto  
High Limit switch

Apertura porta carrello  
Carriage door opening

Fincorsa basso  
Down Limit switch



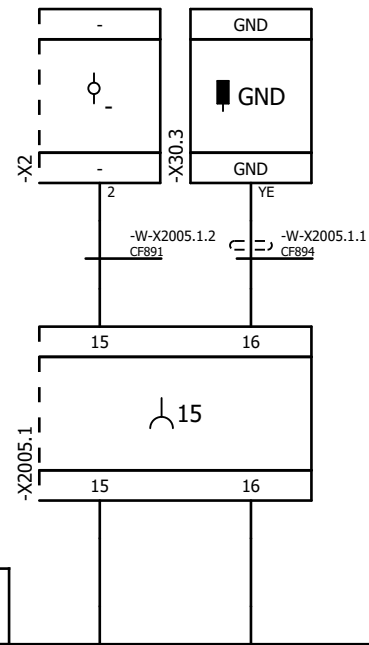
Description Schema allacciamento connettori =BM+CAR-X2005.2  
Pin-connection diagram =BM+CAR-X2005.2

Code	3709308083ENG	Date	09/02/2022	Total	79	Prev	691	Next	692.a	Page	692
Machine	Robot S7 P3GS/PVS Stop&Go										

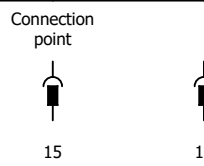
# Connettore carrello

## Carriage connector

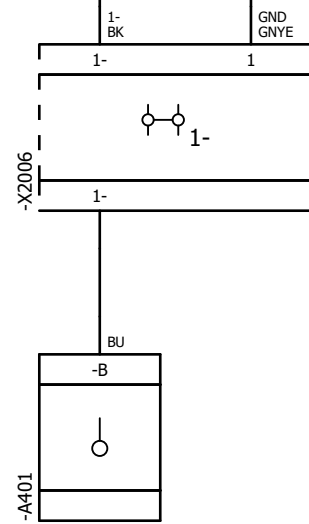
Internal targets



=BM+CAR-X2005.2



External targets

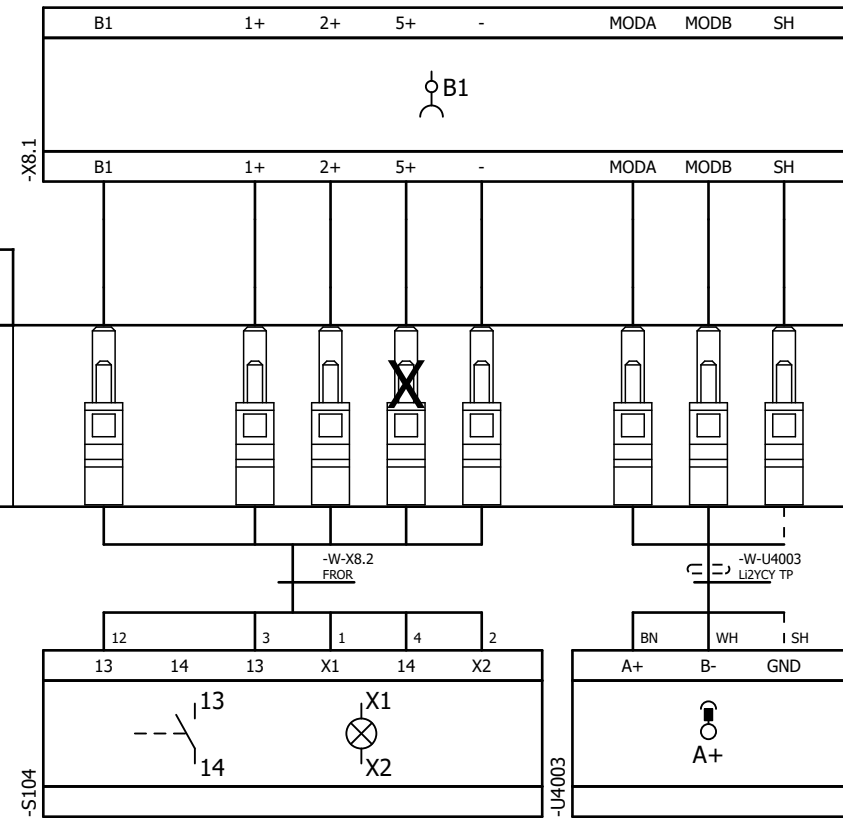


# Connettore pannello comandi

## Control panel connector

Internal targets

=+-X8.2



External targets

Batteria  
Battery      Batteria  
Battery      ||      ||      ||

Description  
**Schema allacciamento connettori =+-X8.2**  
**Pin-connection diagram =+-X8.2**

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Machine	Robot S7 P3GS/PVS Stop&Go										



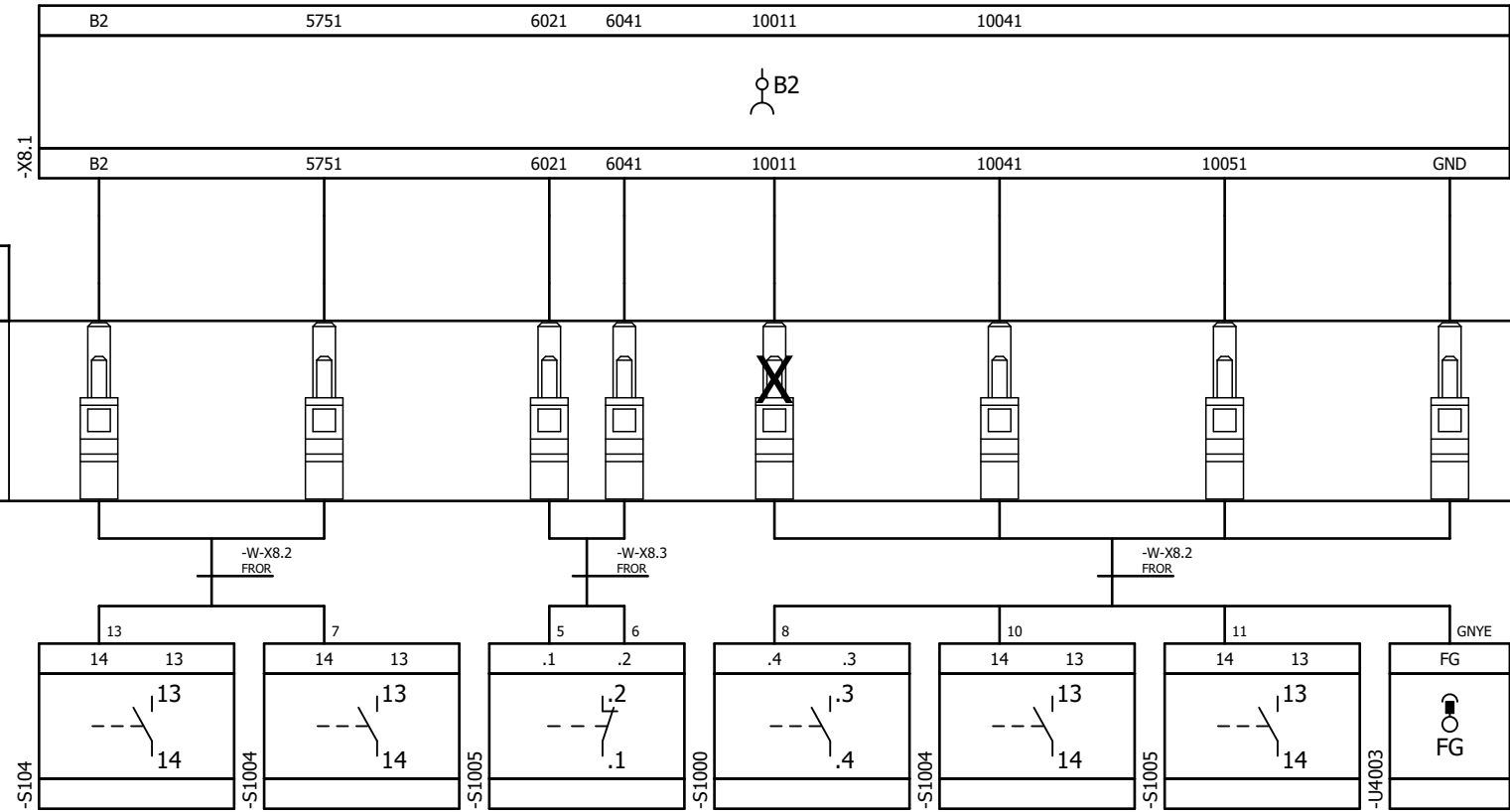
# Connettore pannello comandi

## Control panel connector

Internal targets

=+-X8.3

External targets



Batteria  
Battery

RESET  
Reset

Emergenza  
Emergency stop

Start  
Start

RESET  
Reset

Emergenza  
Emergency stop

Batteria  
Battery

Description

Schema allacciamento connettori =+-X8.3  
Pin-connection diagram =+-X8.3

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Machine

Robot S7 P3GS/PVS Stop&Go

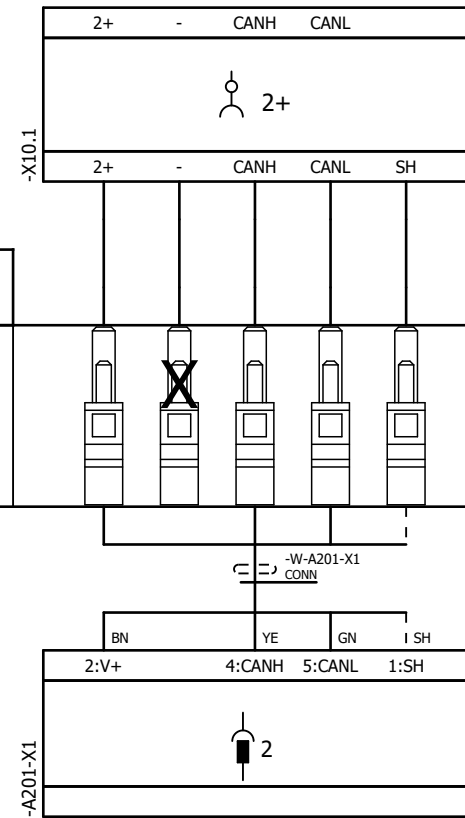
# Connettore motore rotazione

## Rotation motor connector

Internal targets

=+-X10.2

External targets

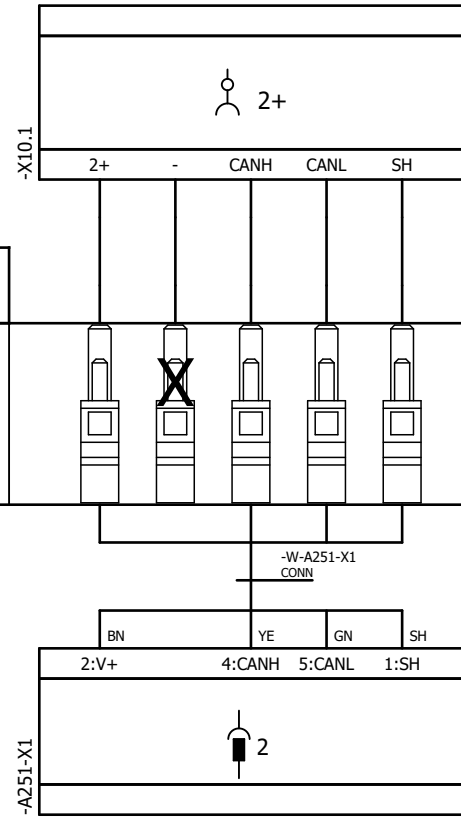


# Connettore motore sollevamento

## Lifting motor connector

Internal targets

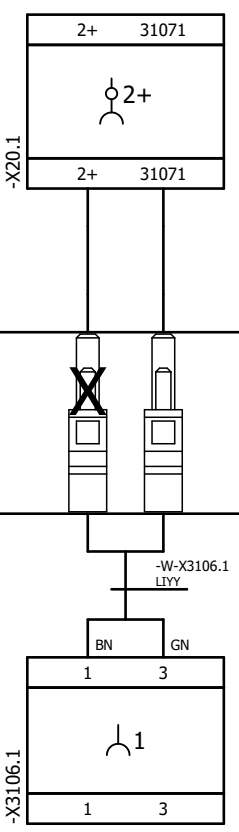
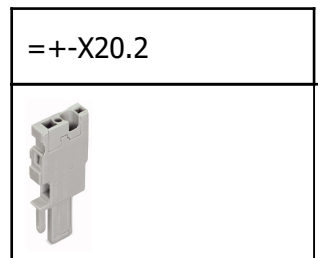
=+-X10.3



External targets

# Connettore led Strip led connector

Internal targets



External targets

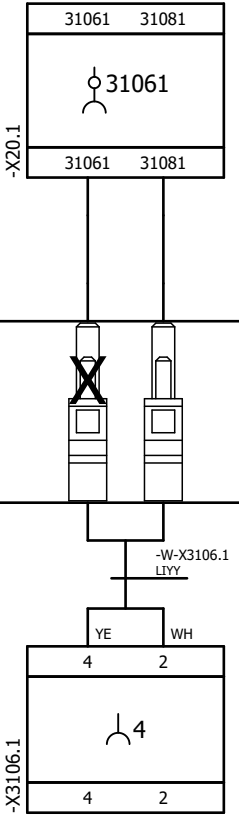
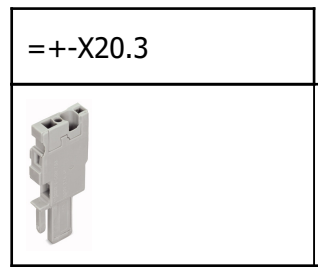
Segnalatore ottico circolare  
Round indicator light



Description  
**Schema allacciamento connettori =+-X20.2**  
**Pin-connection diagram =+-X20.2**

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Machine	Robot S7 P3GS/PVS Stop&Go										

Internal targets



External targets

Segnalatore ottico circolare  
Round indicator light  
II



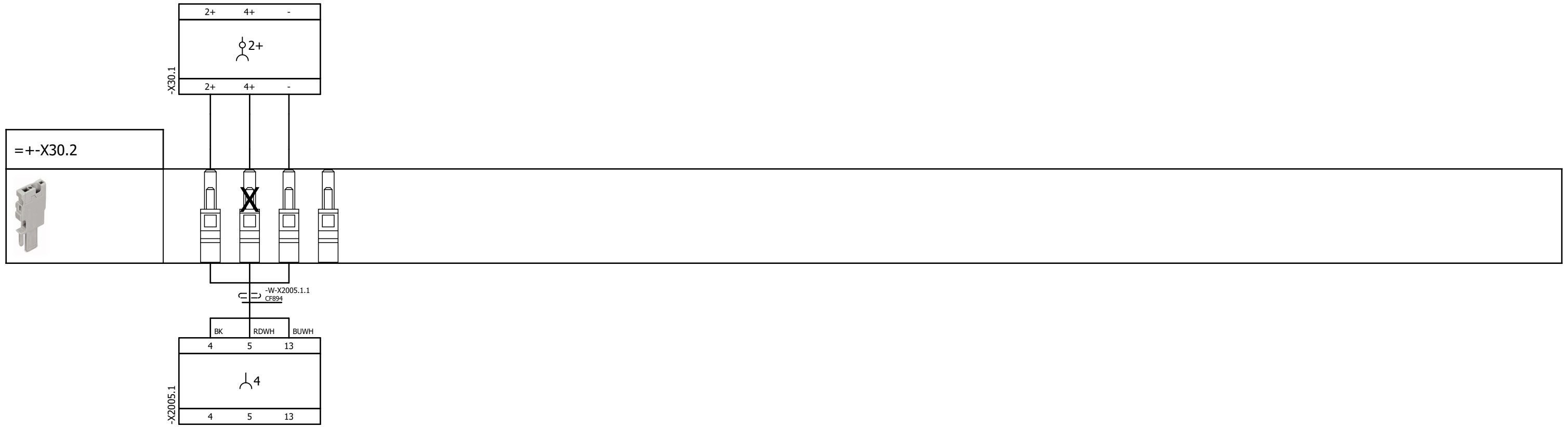
Description  
Schema allacciamento connettori =+-X20.3  
Pin-connection diagram =+-X20.3

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Machine	Robot S7 P3GS/PVS Stop&Go										

# Connettore carrello

## Carriage connector

Internal targets



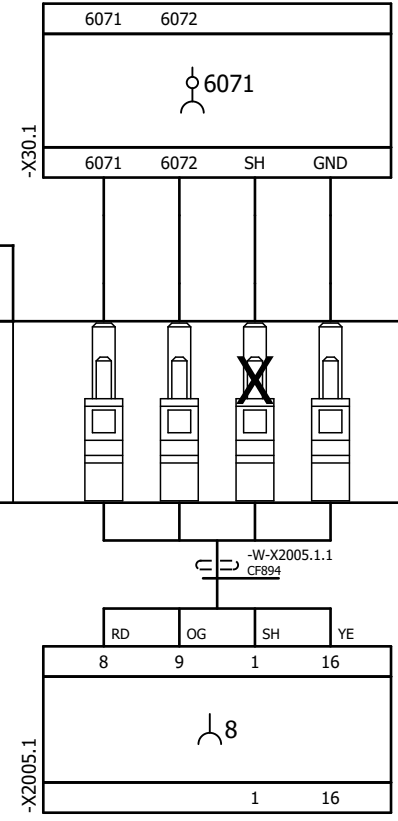
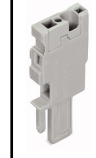
External targets

# Connettore carrello

## Carriage connector

Internal targets

=+-X30.3



External targets

Apertura porta carrello  
Carriage door opening

II

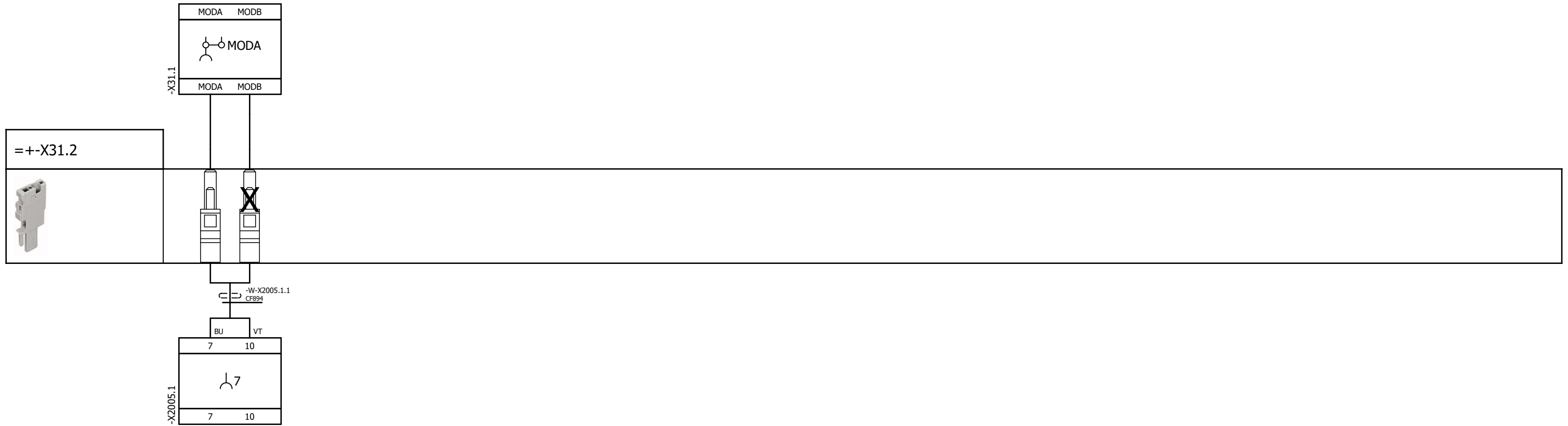


Description  
**Schema allacciamento connettori =+-X30.3**  
**Pin-connection diagram =+-X30.3**

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Machine	Robot S7 P3GS/PVS Stop&Go										

# ModBus Modbus

Internal targets



External targets