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 Repubblica di San Marino

Modello Macchina Machine Model Maschine Modell Modele de la Machine Modelo Maquina	<b>Ekko 212.1</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>230 V</b>	<b>50 Hz</b>	Potenza Installata Installed Power Installierte Leistung Puissance installée Potencia Instalada	<b>1,9 kW</b>	Corrente Assorbita Absorbed Current Stromaufnahme Absorption Electrique Absorcion
	<b>1 Ph + N</b>				<b>12,5 A</b>
Control cabinet code	<b>7450306102R7040B</b>	Revision index	<b>R02</b>	Bill number	<b>3132</b>
			Costruire secondo specifica tecnica 50.1.1 Controllare con scheda di collaudo		7450306102R7040B_212.1
Edited by	<b>Savioli V.</b>	Checked by	<b>Terenzi M.</b>	Approved by	<b>Casale C.</b>



Description

**Copertina  
Cover sheet**

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		2.1	Sommario delle pagine : /110 - /626 Table of contents : /110 - /626		07/07/2020	vsavioli
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		510	Sommario schede PLC Plc card overview		24/04/2020	vsavioli
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		610	Layout Layout		02/07/2020	vsavioli
		620	Layout Layout		06/07/2020	vsavioli
		621	Sommario cavi Cable overview		07/07/2020	vsavioli
		622	Morsettiera di potenza Power terminalboard		07/07/2020	vsavioli
		623	Morsettiera di potenza Power terminalboard		07/07/2020	vsavioli
		624	Morsettiera 24Vdc 24Vdc terminalboard		07/07/2020	vsavioli
		625	Morsettiera 24Vdc 24Vdc terminalboard		07/07/2020	vsavioli
		626	Morsettiera modbus Modbus terminal strip		07/07/2020	vsavioli



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		<b>S/N</b>	7450306102R7040B	
		<b>Mod.</b>	Ekko 212.1	
		<b>w.d.</b>		
<b>N.</b>		<b>Ref.</b>		 <b>Kg</b>
<b>Un</b>	230 V	<b>v</b>	<b>Ph</b>	1 Ph + N
<b>In</b>	12,5	<b>A</b>	<b>f</b>	50 Hz
			<b>Hz</b>	
		<b>Ik</b>	10	<b>Ka</b>
<b>Data</b>				<b>By</b>

# Distinta articoli

## Parts list

F01\_ART\_0000

DT	Designazione Designation	Numero tipo Type number	Produttore Manufacturer	Quantità Quantity	Codice Code	Pagina Page
-Z101	Filtro alimentazione Main filter	10SS4-2DC2-Q (10S42EC2)	Comestero Sistemi	1	00L0430751D	/10.1
-QS101	SEZIONATORE 3P A PORTELLA AC21A 40A 3P SWITCH 40A-DIRECT/DOOR COUPLING	GA040C	Lovato Electric	1	00L0523082	/10.1
-QS101	MANIGLIA NERA SEL.SPORGENTE LUCCH.IP65 HANDLE	GAX63BV	Lovato Electric	1	00L0523086	/10.1
-U201	Inverter Variable speed drives	INV01ROB_4	Robopac	1	1430300278	/20.1
-W-SQ206	Cavo   iguPUR   chainflex® CF890 4G0,5 Cable	CF890.05.04	IGUS	3,9	00L0503416	/20.6
-SQ206	Finecorsa Limit switch	FR-1630-M1	Pizzato	1	0001309638L	/20.6
-U301	Inverter Variable speed drives	INV01ROB_4	Robopac	1	1430300278	/30.1
-W-M304	Cavo   iguPUR   chainflex® CF891 (4G1,0)C Cable	CF891.10.04	IGUS	4,3	00L0502345	/30.3
-T501	Alimentatore switching 30W Switched-mode power supply	787-1702	WAGO	1	00L0513037	/50.1
-U553	Logica Programmabile PLC	PLC03ROB	Robopac	1	1430300289	/55.3
-U572	Scheda Card	PRES03ROB	Robopac	1	1430300220	/57.3
-W-U572-J3	Cavo sistema di misura   iguPUR   chainflex® CF894 (4x(2x0,34)+4x0,5)C Cable	CF894.011	IGUS	4,2	00L0502344	/57.3
-S601	Pulsanti per arresto d'emergenza, Sblocco a rotazione Emergency-Stop actuator, non-illuminated , turn to release	M22-PVT	Eaton Moeller	1	0001300005F	/60.1
-S601	Supporto per contatti Fixing adapter	M22-A	Eaton Moeller	1	0001300700A	/60.1
-S601	Elementi di contatto, 1NC, Fissaggio frontale, Cage clamp Contact element, 1N/C, Front fixing, Cage clamp	M22-CK01	Eaton Moeller	2	0001300027C	/60.1
-SQ608	Finecorsa Limit switch	FR-515-M1	Pizzato	1	0001309611B	/60.8
-K705	CONTATTORE AUSILIARIO, 3NO+1NC DC 24V CONTACTOR RELAY, 3NO+1NC DC 24V	3RH2131-2BB40	Siemens	1	00L0116056H	/70.5
-K705	VARISTORE AC 24...48V, DC 24...70V SURGE SUPPRESSOR, VARISTOR, AC 24...48V, DC 24...70V	3RT2916-1BB00	Siemens	1	00L0116090L	/70.5
-K705	CONTATTI AUX. , 1NO+1NC	3RH2911-2HA11	Siemens	1	00L0116096C	/70.5
-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
-S1002	Pulsante, piatto, nero, ad impulso Pushbutton actuator, flush, black, spring-return	M22-D-S	Eaton Moeller	1	0001300762B	/100.2
-S1002	Supporto per contatti Fixing adapter	M22-A	Eaton Moeller	1	0001300700A	/100.2
-S1002	Elementi di contatto, 1NC, Fissaggio frontale, Cage clamp Contact element, 1N/C, Front fixing, Cage clamp	M22-CK01	Eaton Moeller	1	0001300027C	/100.2
-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
-SA1007	Selettori a chiave, 2 posizioni, ad impulso Selector switch actuator, 2 Pos., spring-return	M22-WS	Eaton Moeller	1	0001300015G	/100.7
-SA1007	Supporto per contatti Fixing adapter	M22-A	Eaton Moeller	1	0001300700A	/100.7
-SA1007	Elementi di contatto, 2NA, Fissaggio frontale, Cage clamp Contact element, 2S, Front fixing, Cage clamp	M22-CK20	Eaton Moeller	1	0001318807L	/100.7
-SA1007	Elementi di contatto, 2NC, Fissaggio frontale, Cage clamp Contact element, 2Ö, Front fixing, Cage clamp	M22-CK02	Eaton Moeller	1	0001318808B	/100.7
-R1102	Potenzometro, 1k, Fissaggio frontale Potentiometer, 1k, Front fixing	M22-R1K	Eaton Moeller	1	0001300014E	/110.2
-X2001.1	Custodia con leva Mobile case	MK-VG20	Ilme	1	0001357358D	/200.0
-X2001.1	Frutto Femmina, 4poli + Gnd Female insert, 4P+GND	CKF 04	Ilme	1	0001353016D	/200.0
-X2001.2	Custodia con piolini Mobile case	MK-V20	Ilme	1	0001357351H	/200.0
-X2001.2	Frutto Maschio, 4poli + Gnd Male insert, 4P+GND	CKM 04	Ilme	1	0001353017F	/200.0
-W-SQ2001	Cavo M12 4Poli Fem 5,0m M12 Cable 4P Fem 5,0m	M12 4P FEM 5,0M		1	0001313474	/200.0



Description

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Parts list

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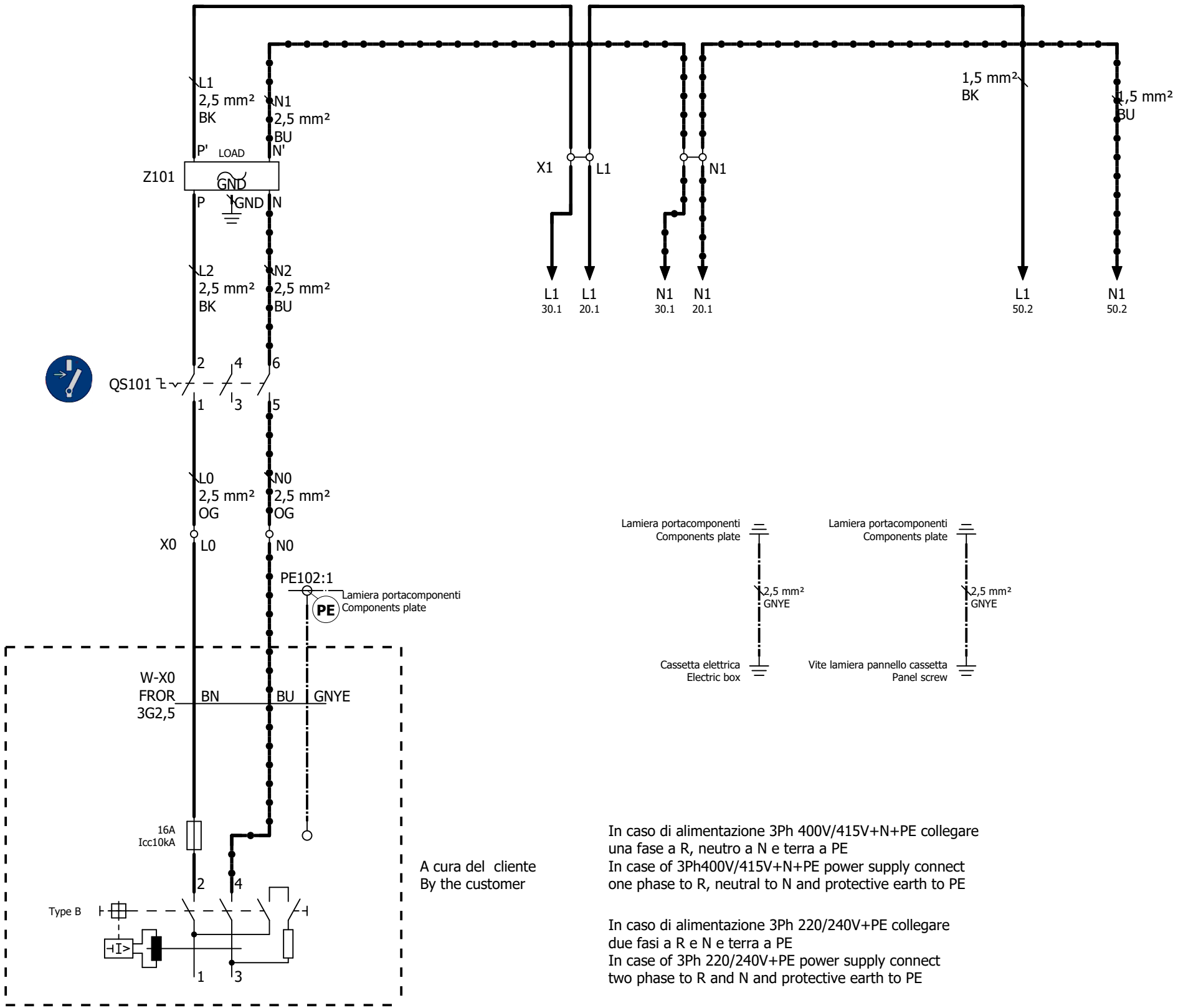
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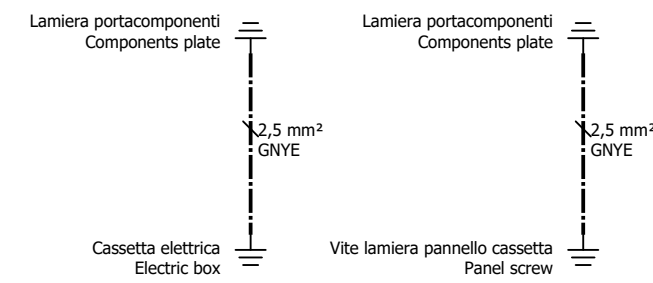
Machine

Ekko 212.1





A cura del cliente  
By the customer



In caso di alimentazione 3Ph 400V/415V+N+PE collegare una fase a R, neutro a N e terra a PE  
In case of 3Ph400V/415V+N+PE power supply connect one phase to R, neutral to N and protective earth to PE

In caso di alimentazione 3Ph 220/240V+PE collegare due fasi a R e N e terra a PE  
In case of 3Ph 220/240V+PE power supply connect two phase to R and N and protective earth to PE

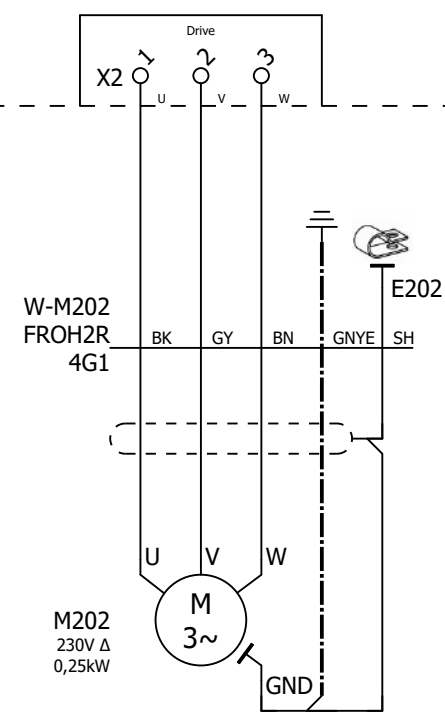
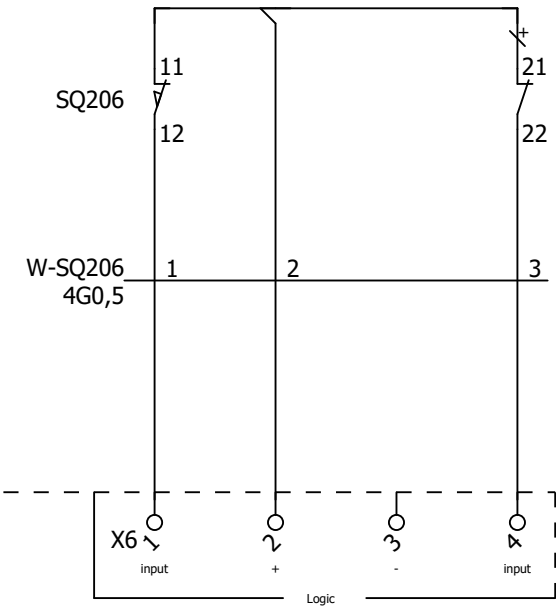
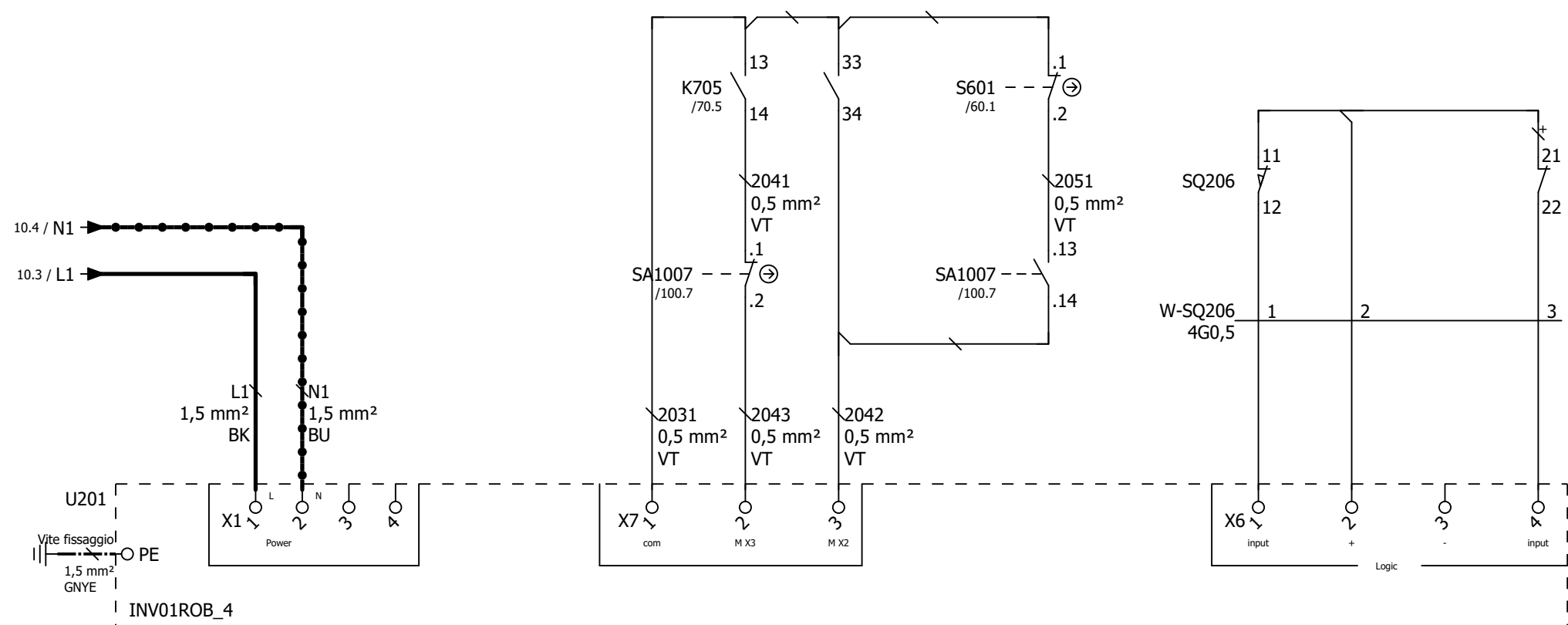
In caso di 220/230V+PE monofase collegare a R/N/PE  
In case of 220/230V+PE single phase power supply connect to R/N/PE



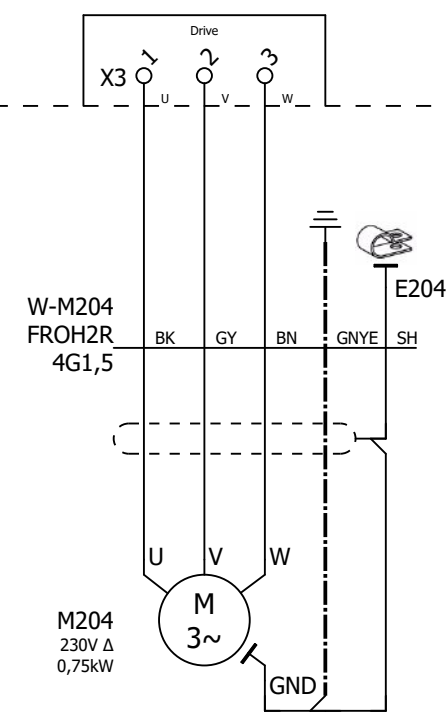
Description  
**Alimentazione  
Power supply**

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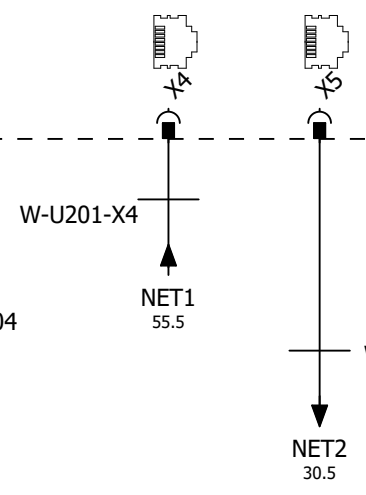




Motore carrello  
Carriage motor



Motore Tavola  
Table Motor



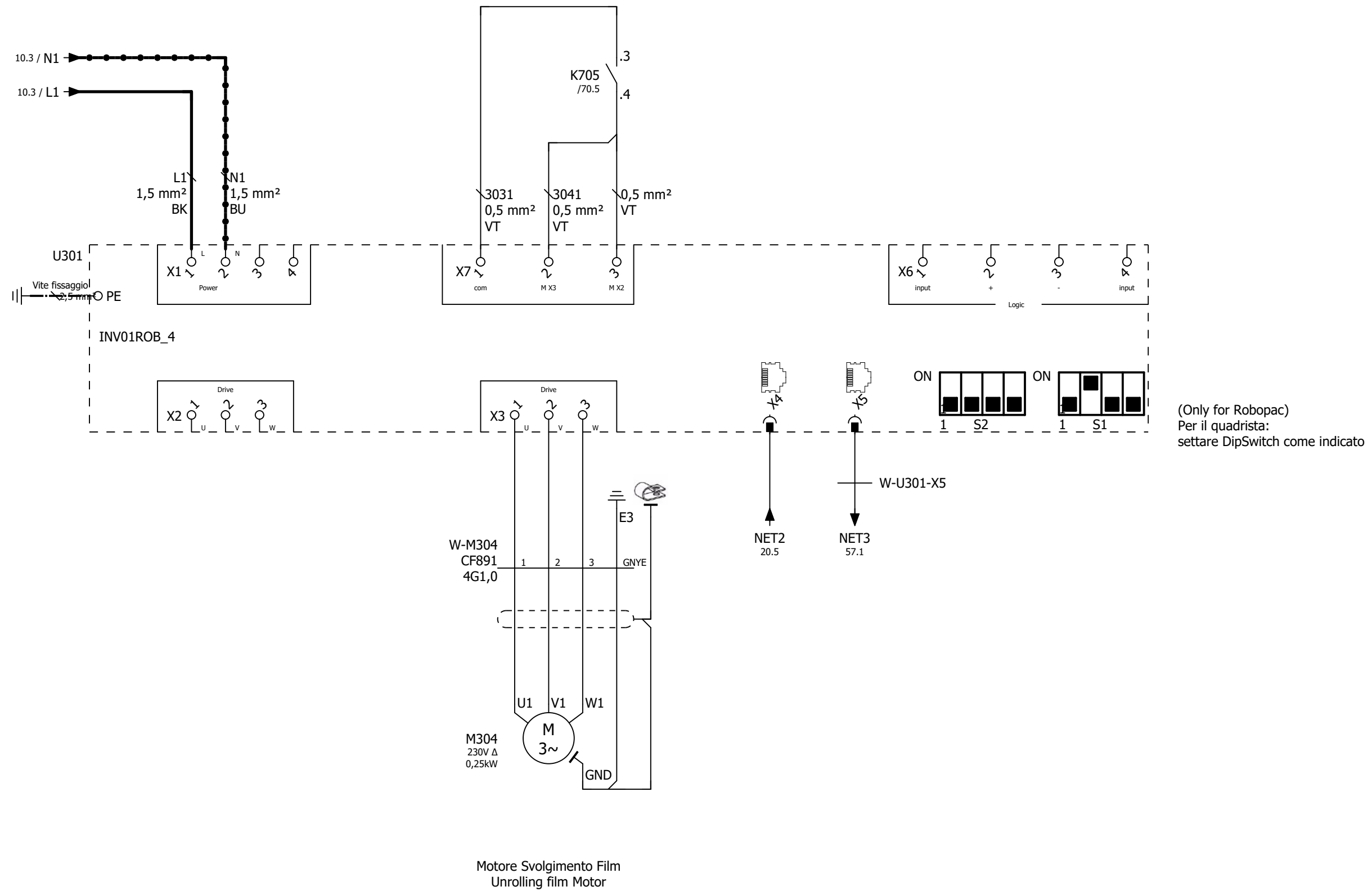
Finecorsa alto  
High Limit switch



Finecorsa basso  
Down Limit switch

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





Description

Circuito di potenza  
Power circuit

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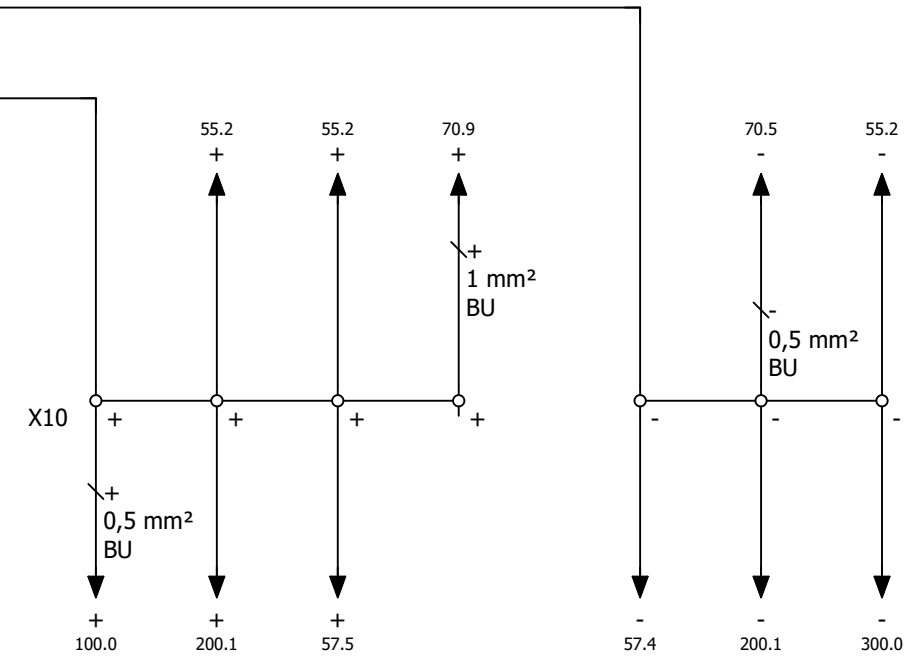
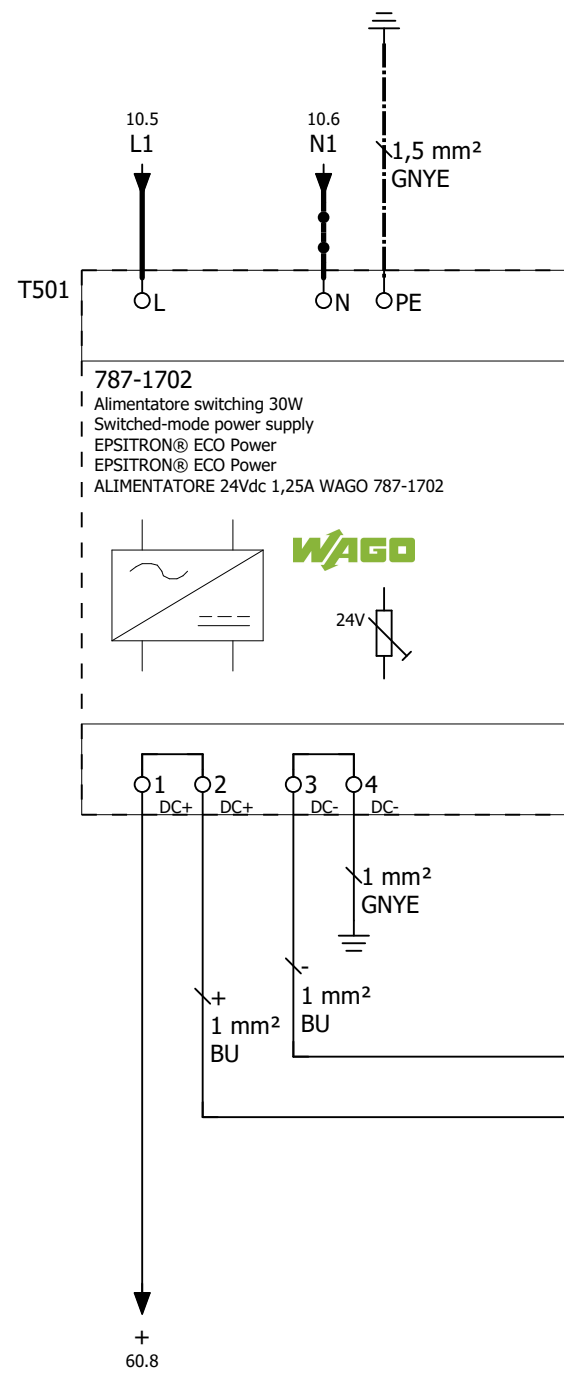
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Description

Alimentazione 24Vdc  
24vdc power supply

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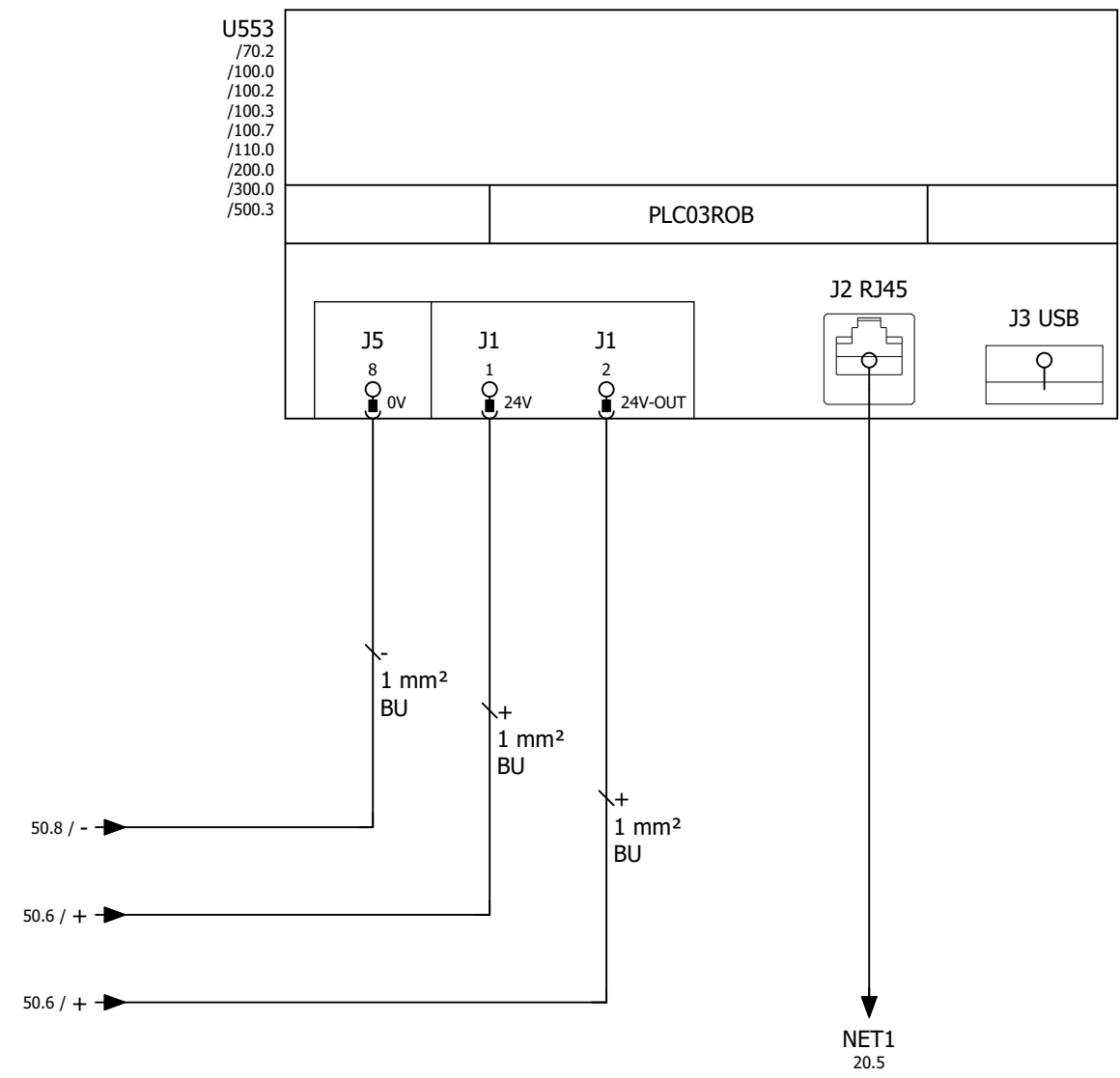
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Description

Alimentazione 24Vdc  
24vdc power supply

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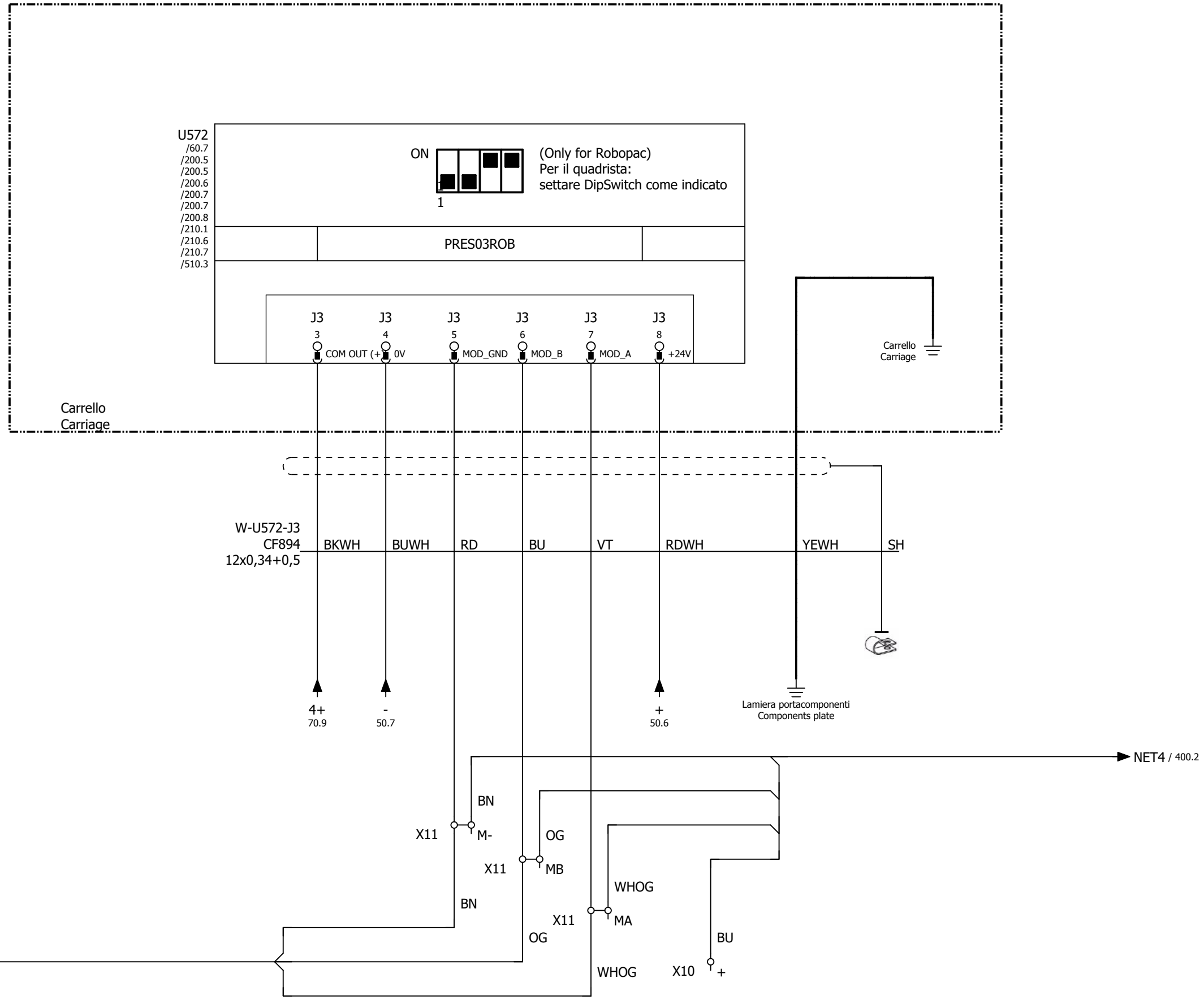
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Alimentazione 24Vdc  
24vdc power supply

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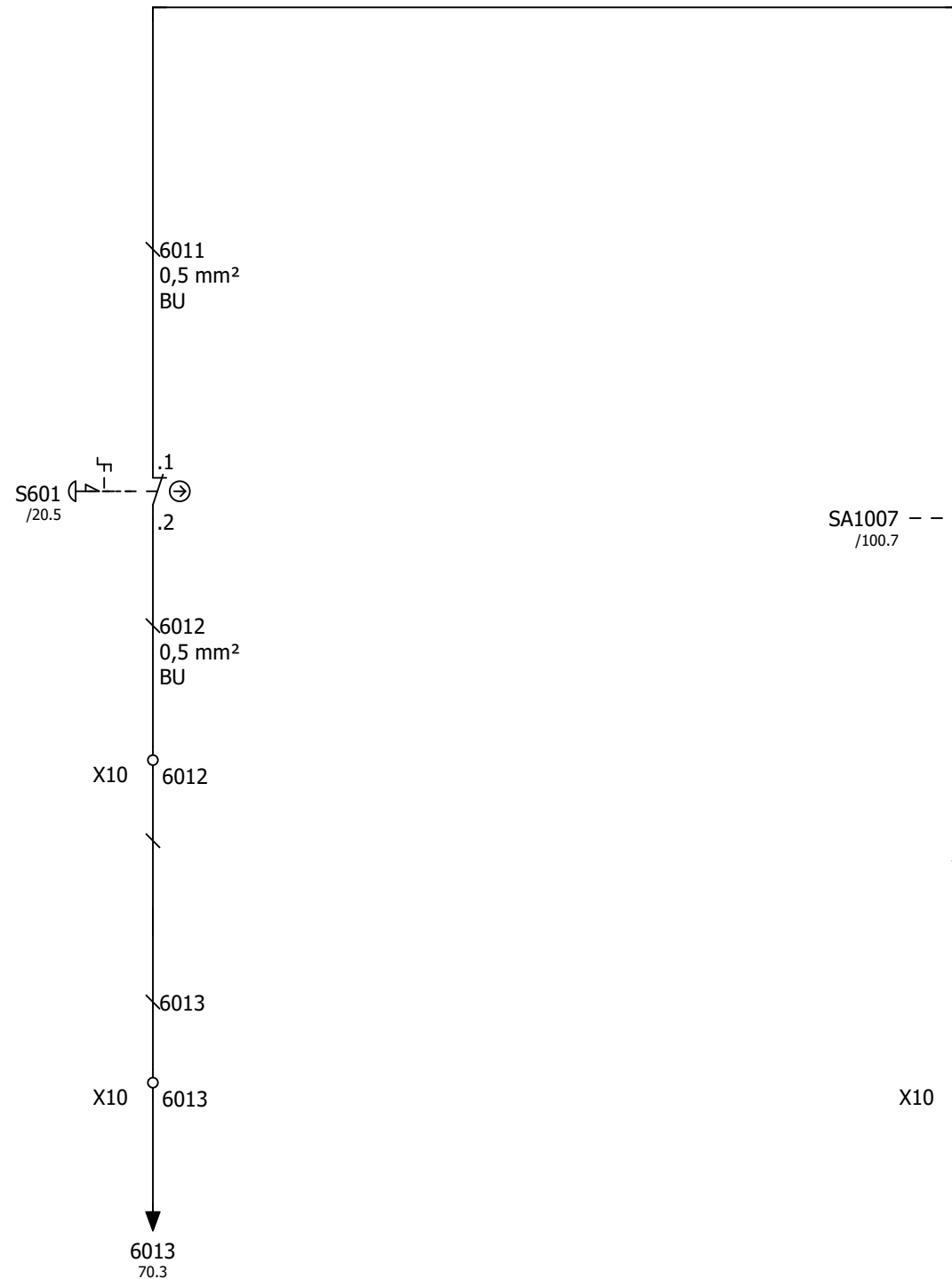
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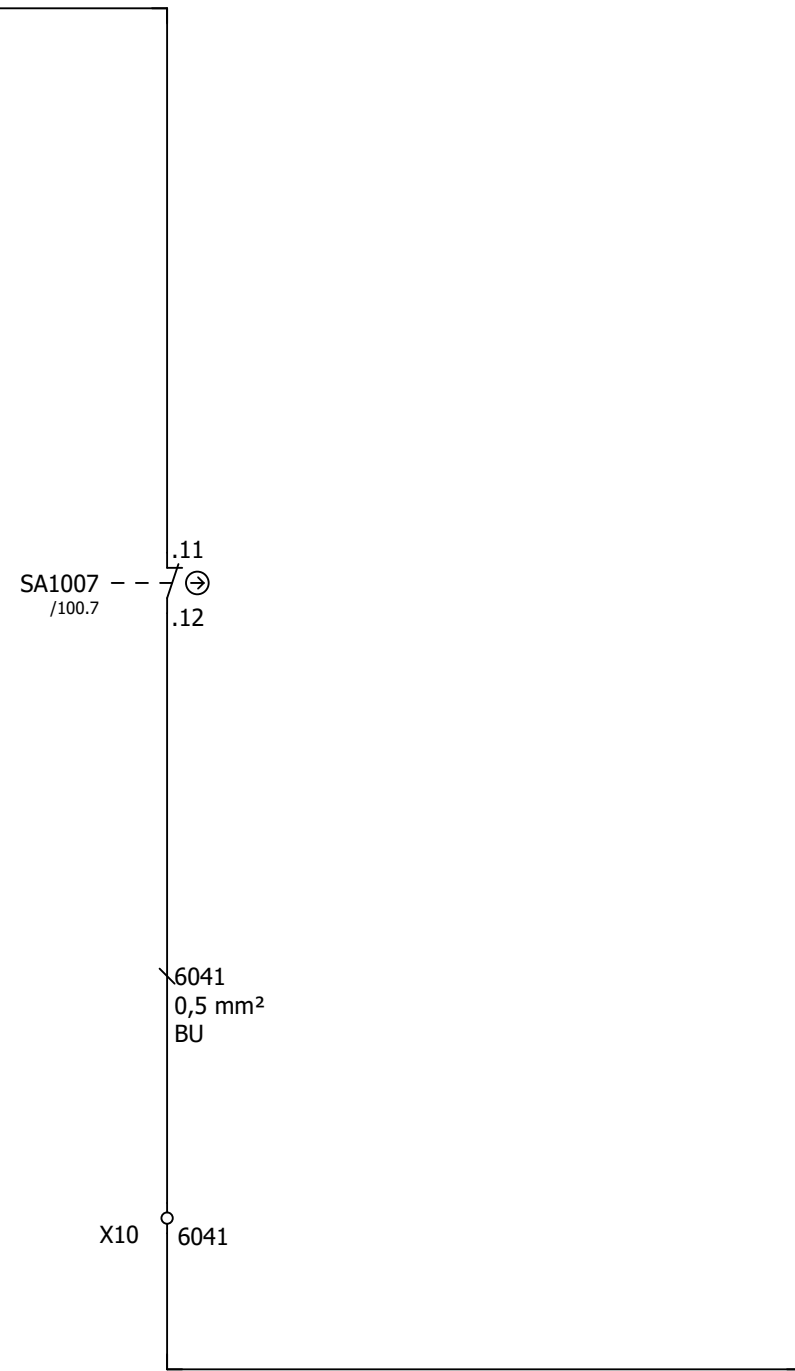
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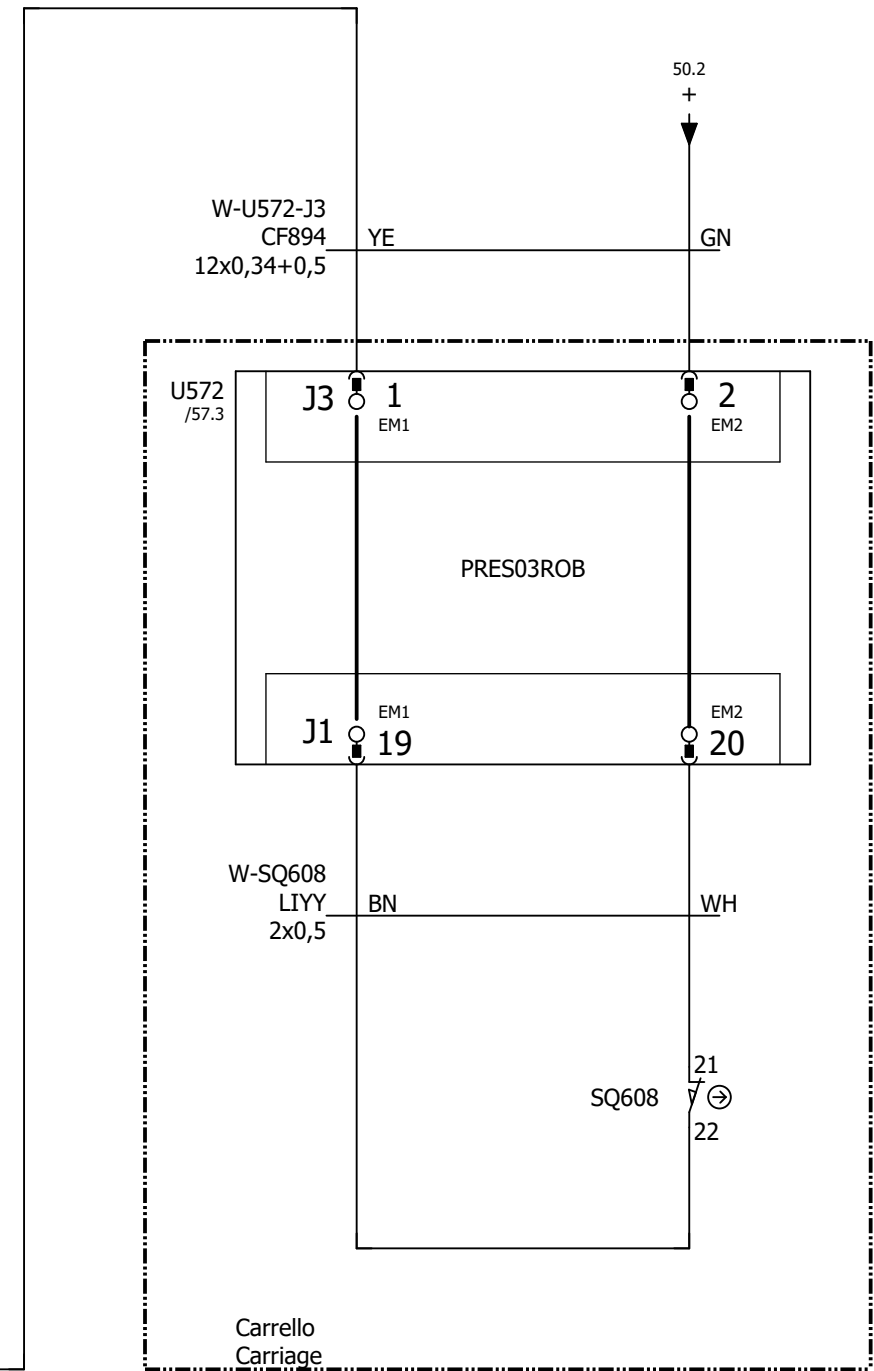
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Emergenza  
Emergency stop



Sospensione sicurezza  
carrello  
Carriage safety  
exception



Finecorsa emergenza carrello  
Carriage emergency Endstroke



Description

Circuito emergenza  
Emergency circuit

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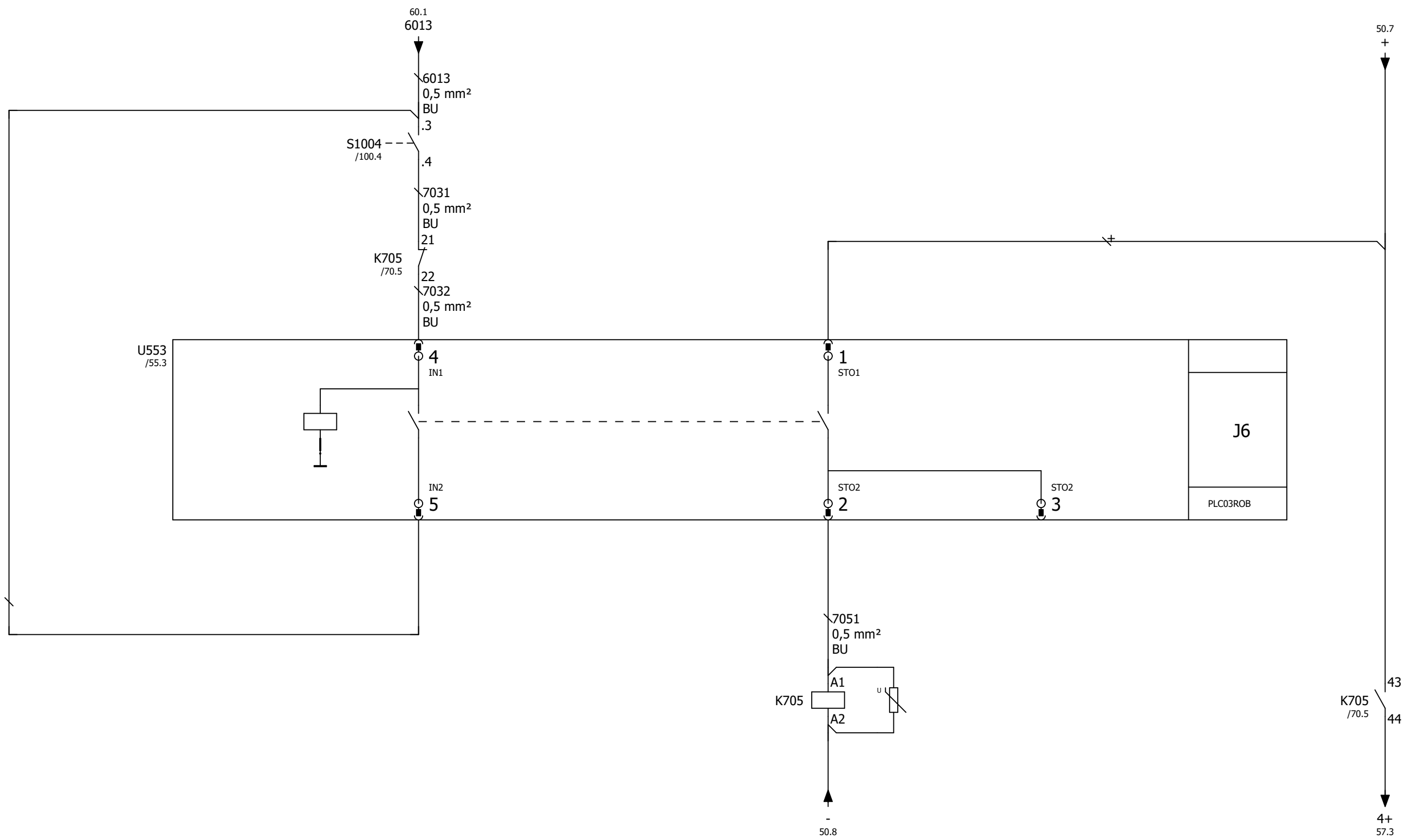
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RESET  
RESET

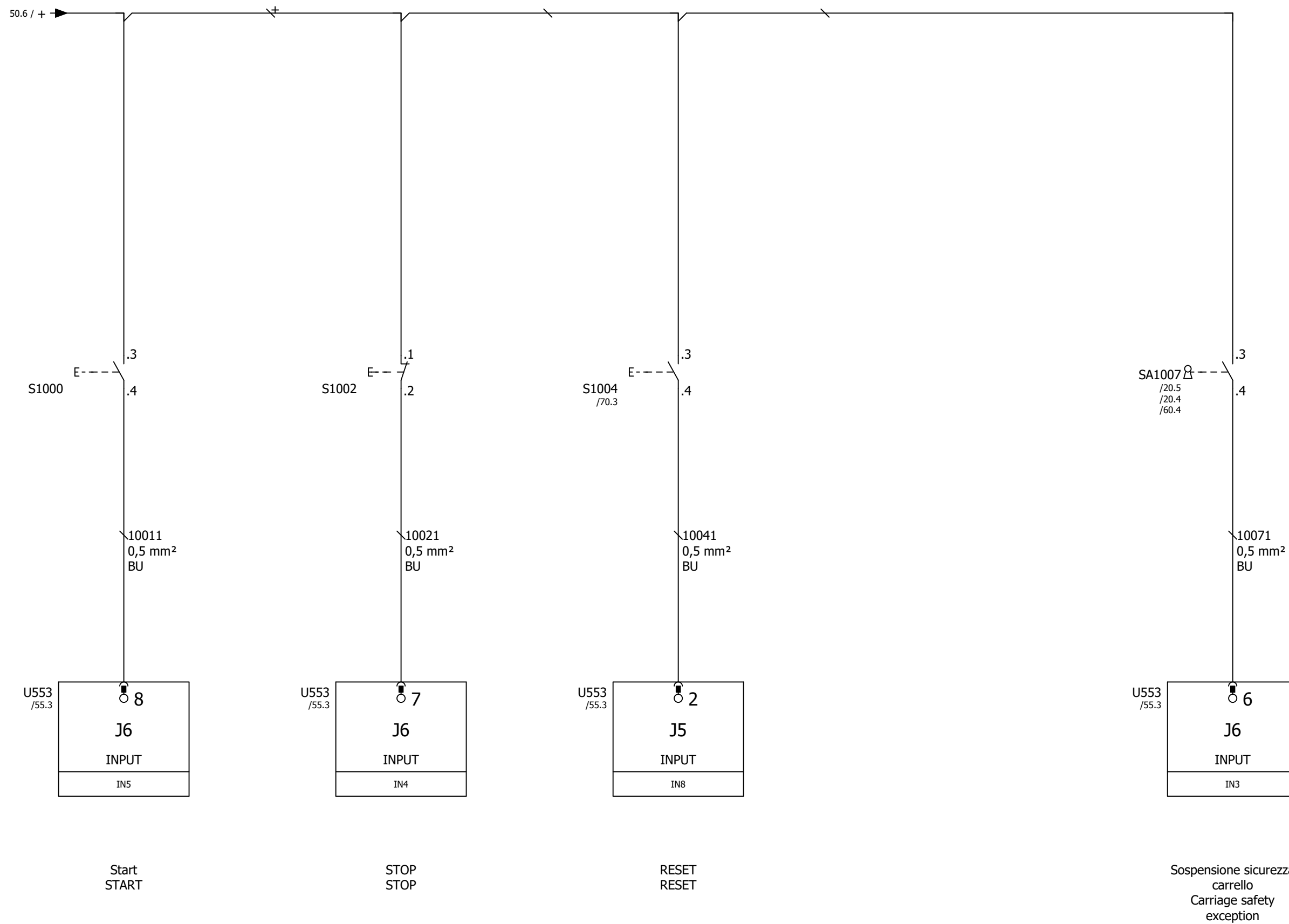
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Description

Circuito emergenza  
Emergency circuit

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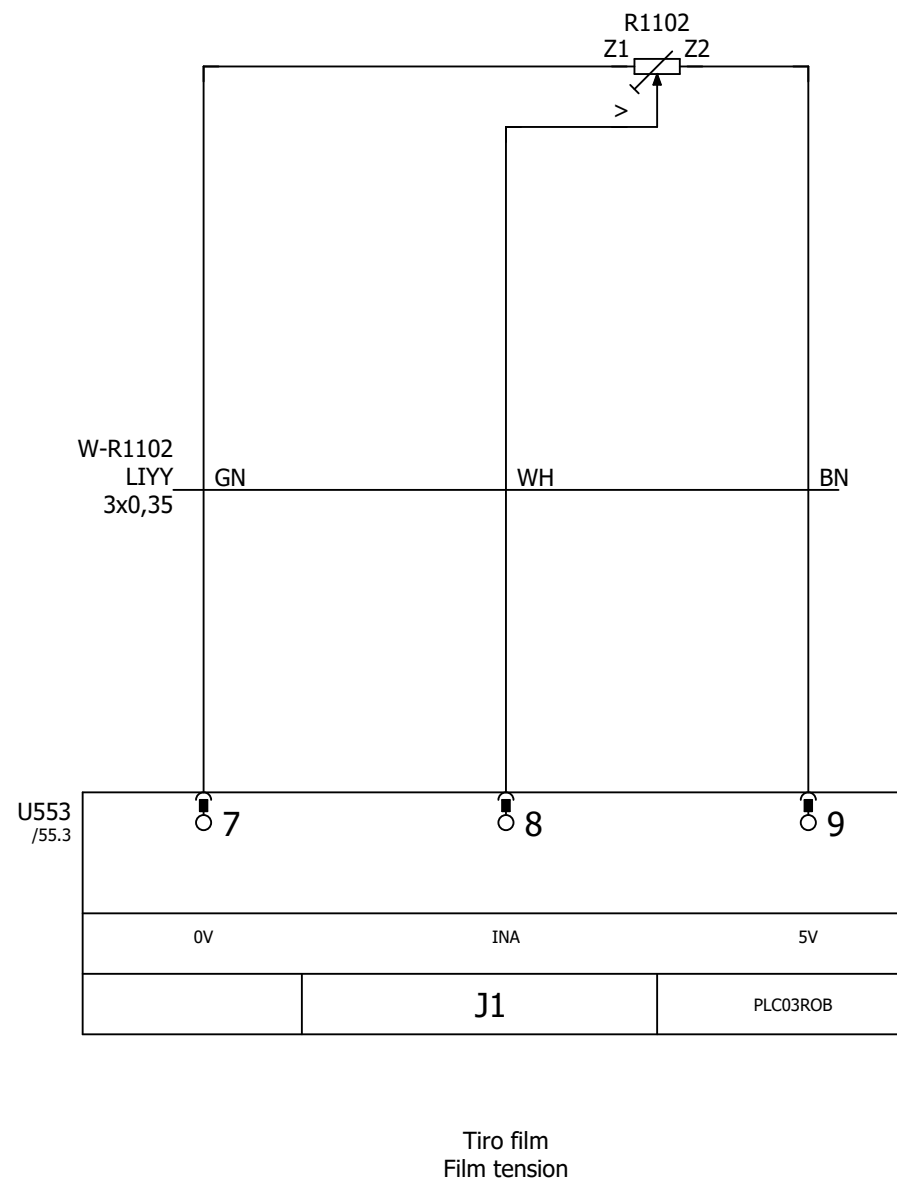


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Ingressi  
Inputs

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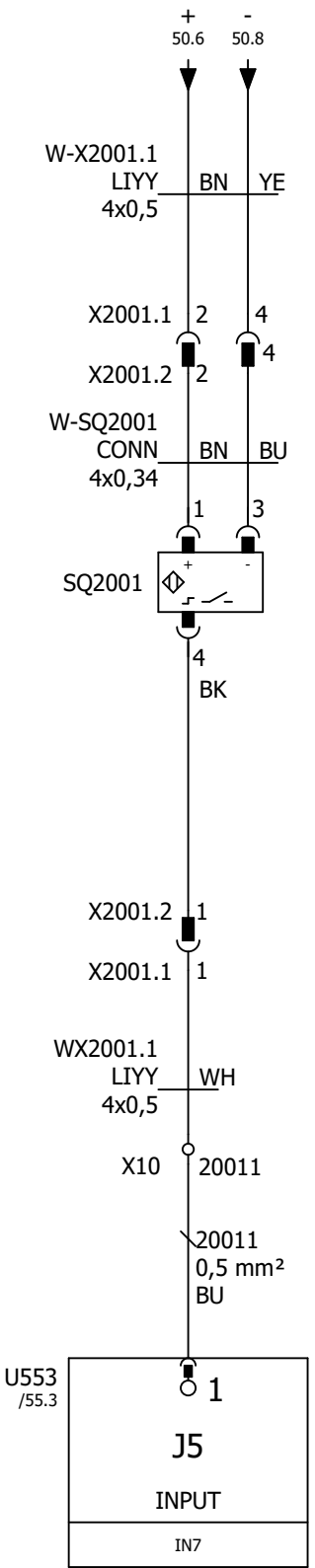




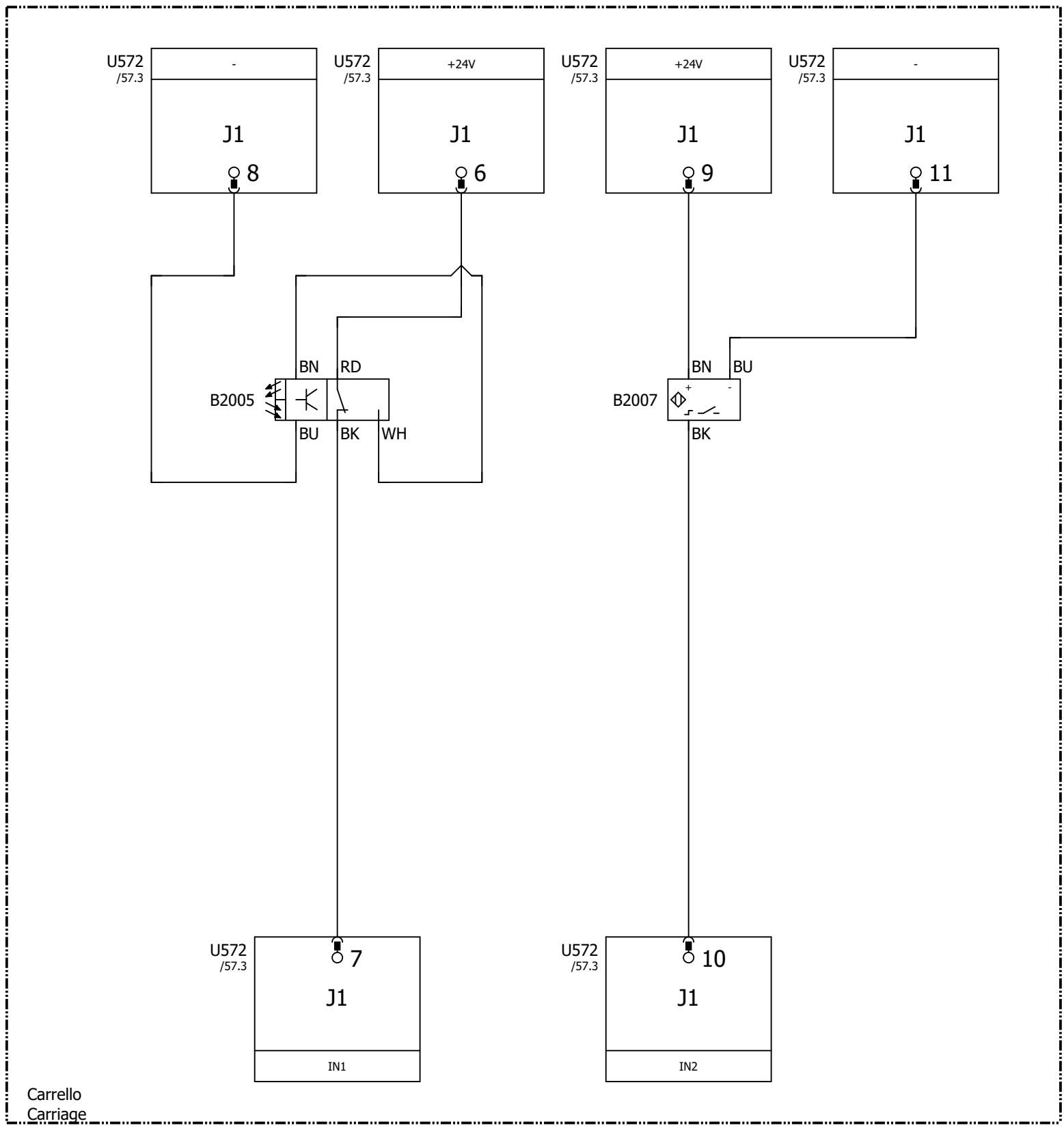
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Ingressi  
Inputs

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Fase tavola  
Table phase



Carrello  
Carriage

Fotocellula altezza prodotto  
Height product photocelle

Sensore svolgimento film  
Film unrolling sensor

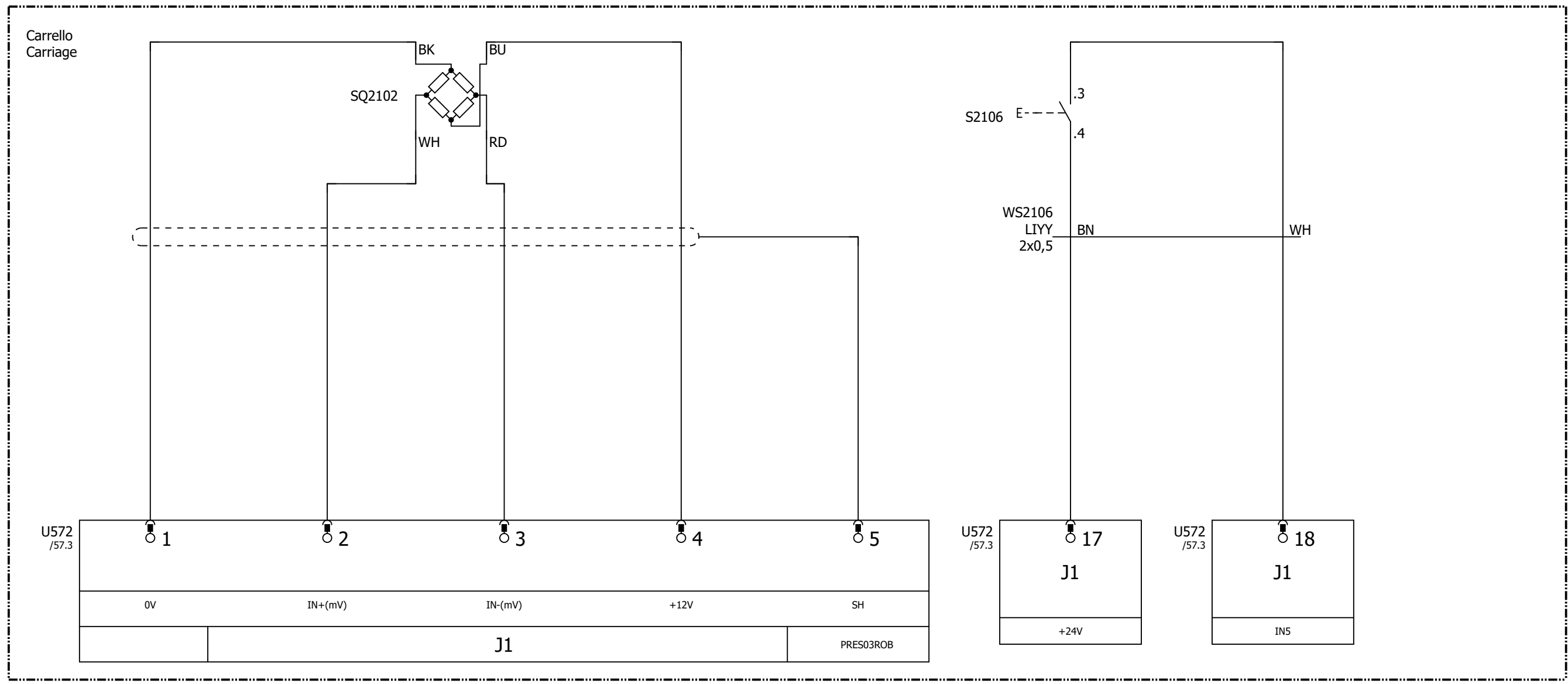
Opzione  
Option



Description

### Ingressi Inputs

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Cella di carico  
Load cell

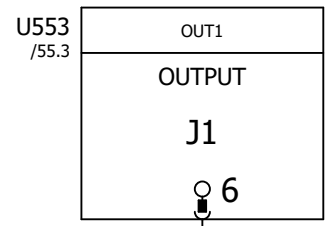
Pulsante svolgimento film  
Unrolling film button



Description

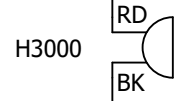
### Ingressi Inputs

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30001  
0,5 mm<sup>2</sup>  
BU

X10 30001



-  
50.8

Sirena  
Siren



Description

Uscite  
Outputs

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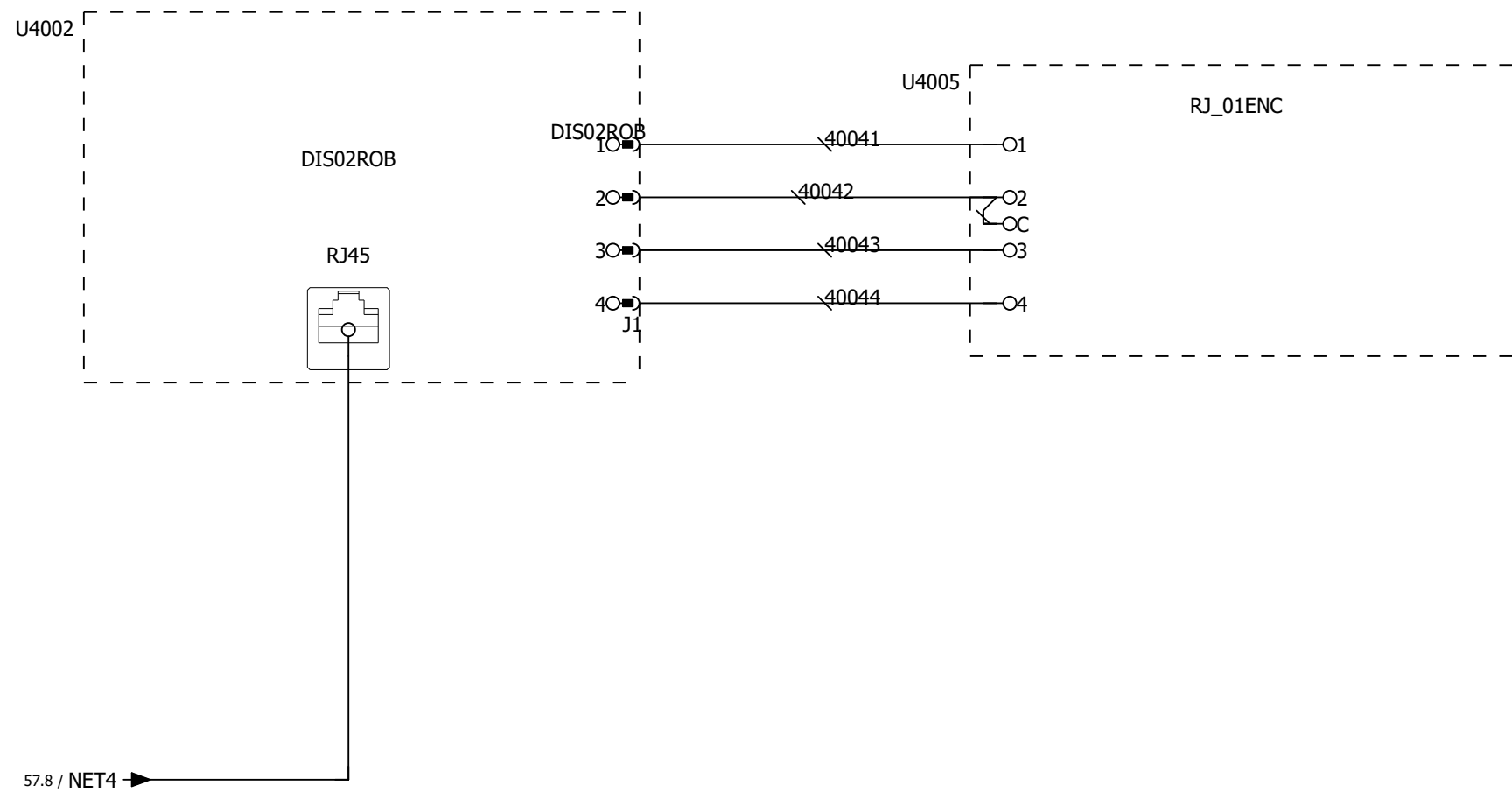
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Description

Pannello Operatore  
Operator panel

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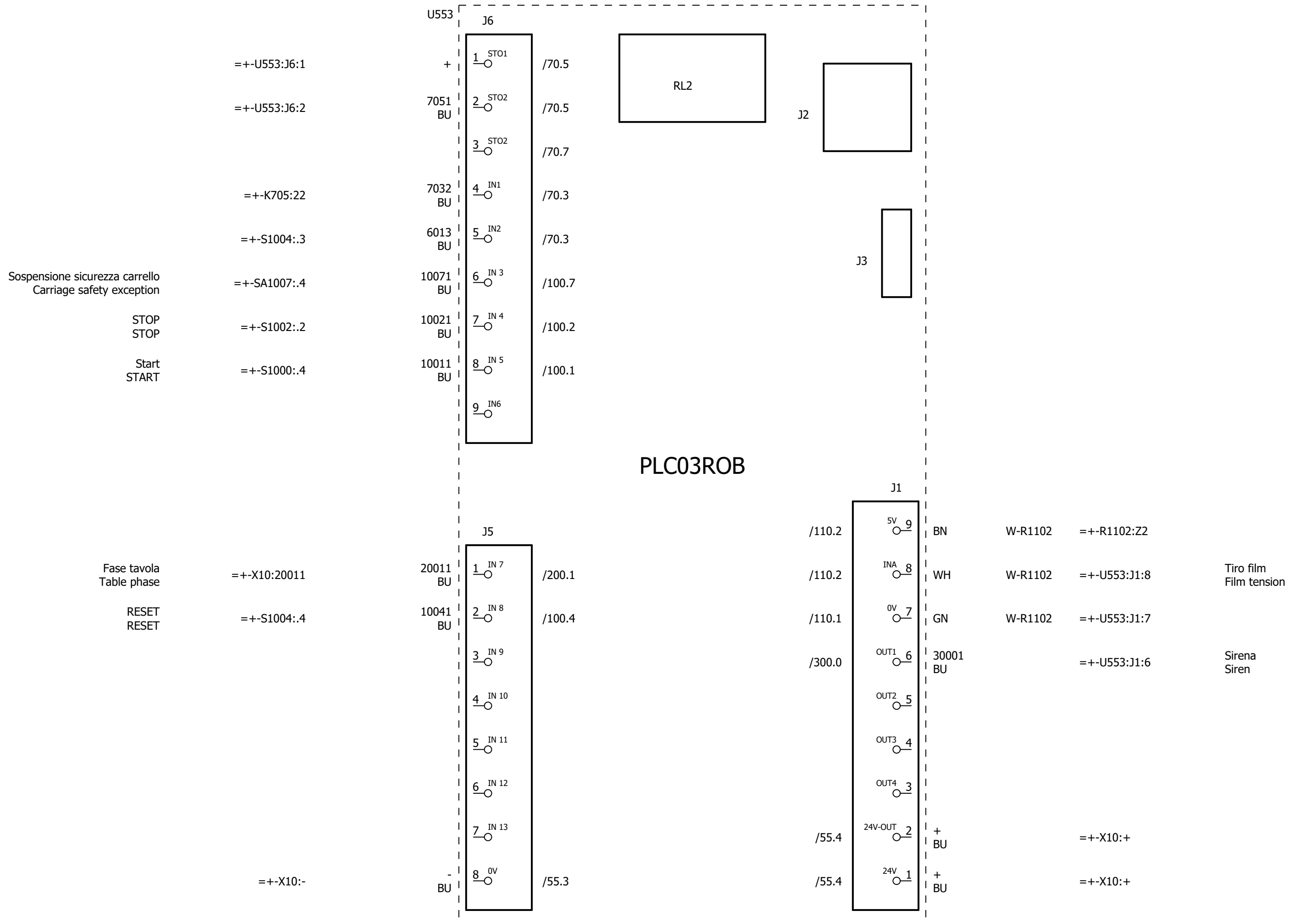
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Description

Sommario schede PLC  
Plc card overview

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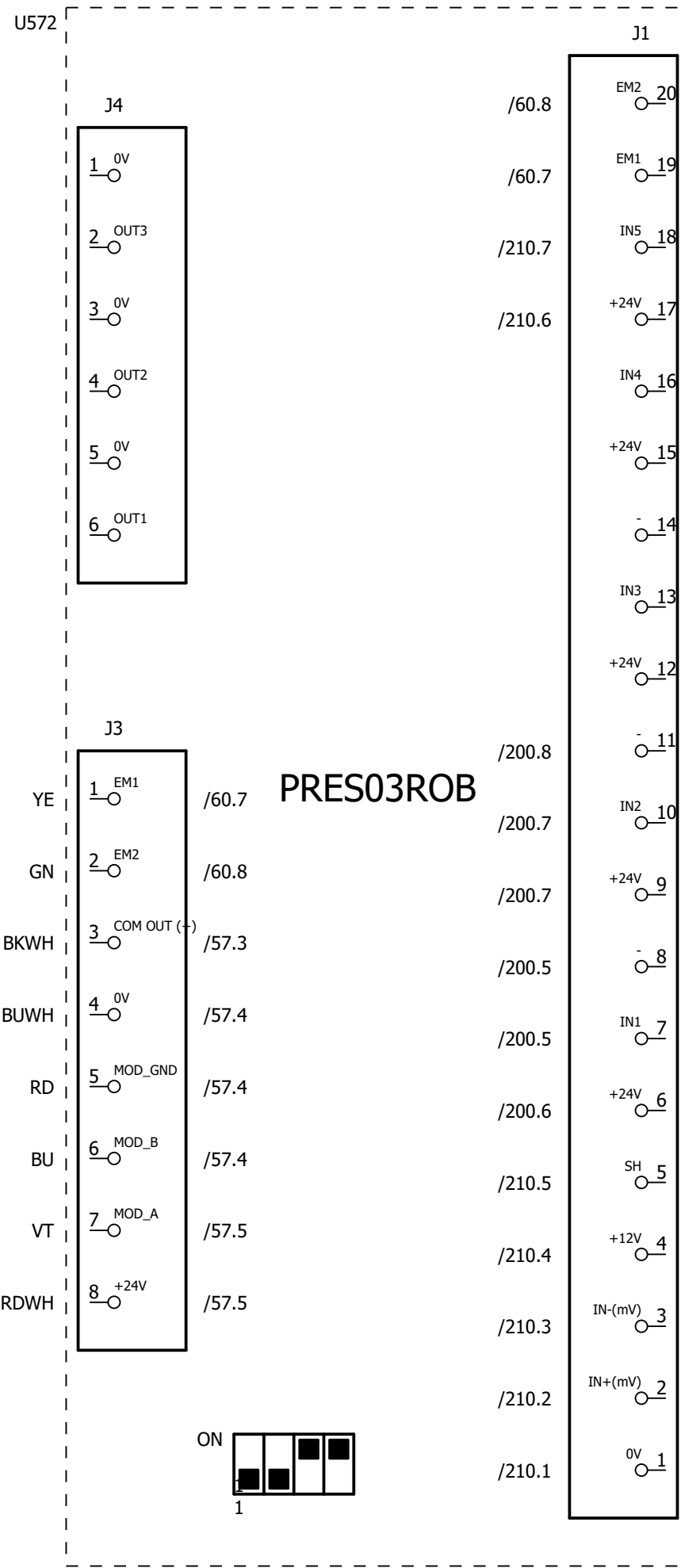
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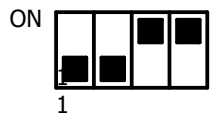
**PRES03ROB**

Fincorsa emergenza carrello  
Carriage emergency Endstroke

- ==+X10:6041 W-U572-J3
- ==+T501:1 W-U572-J3
- ==+U572:J3:3 W-U572-J3
- ==+X10:- W-U572-J3
- ==+U572:J3:5 W-U572-J3
- ==+U572:J3:6 W-U572-J3
- ==+U572:J3:7 W-U572-J3
- ==+X10:+ W-U572-J3

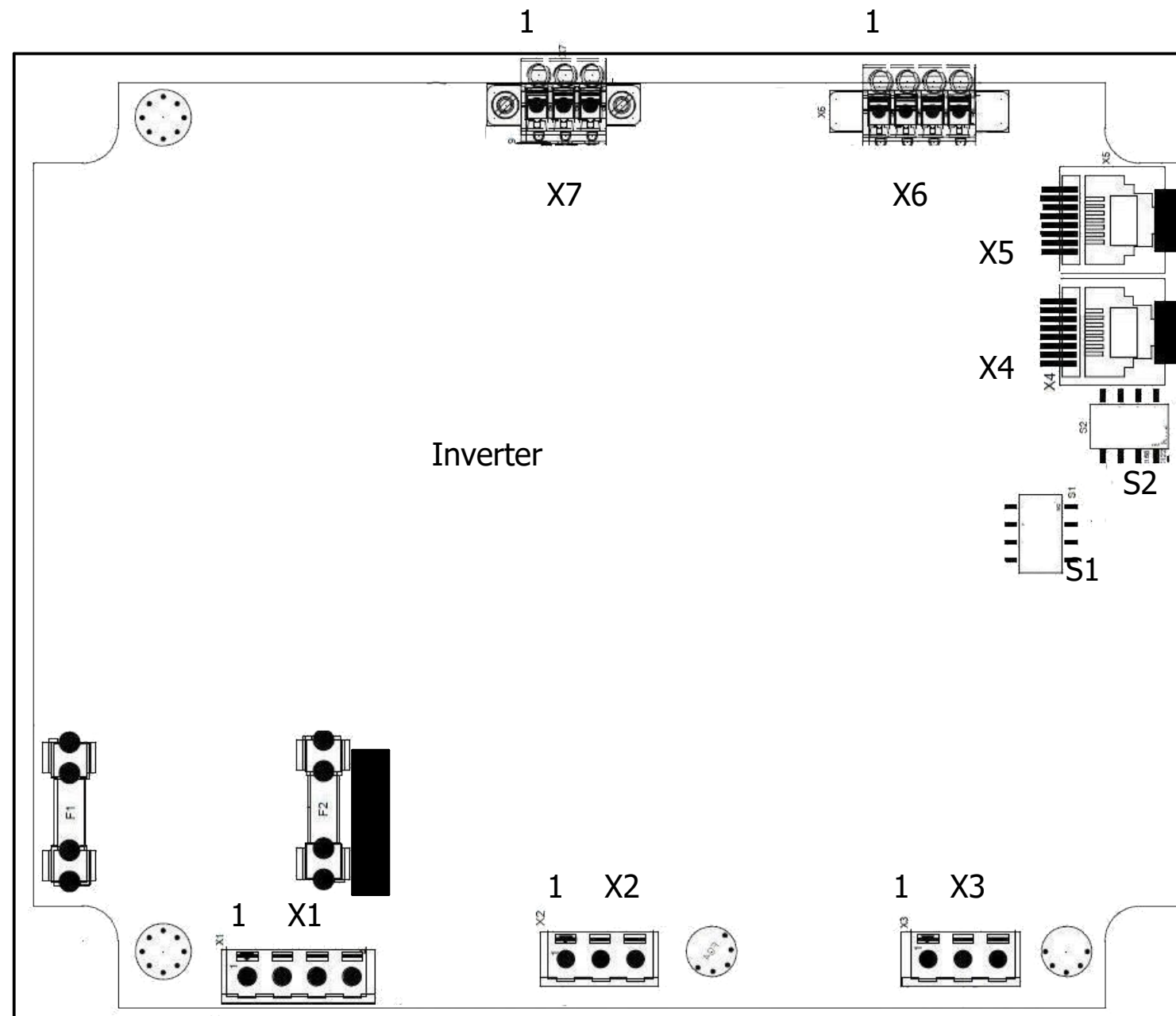
- YE
- GN
- BKWH
- BUWH
- RD
- BU
- VT
- RDWH

/60.8	EM2 20	WH	W-SQ608	==+U572:J1:20	Fincorsa emergenza carrello Carriage emergency Endstroke
/60.7	EM1 19	BN	W-SQ608	==+U572:J1:19	
/210.7	IN5 18	WH	WS2106	==+S2106:.3	
/210.6	+24V 17	BN	WS2106	==+S2106:.4	Pulsante svolgimento film Unrolling film button
	IN4 16				
	+24V 15				
	14				
	IN3 13				
	+24V 12				
/200.8	11	BU	WB2007	==+B2007:BU	
/200.7	IN2 10	BK	WB2007	==+B2007:BK	Sensore svolgimento film Film unrolling sensor
/200.7	+24V 9	BN	WB2007	==+U572:J1:9	Sensore svolgimento film Film unrolling sensor
/200.5	8	BU	WB2005	==+U572:J1:8	
/200.5	IN1 7	BK	WB2005	==+B2005:BK	Fotocellula altezza prodotto Height product photocelle
/200.6	+24V 6	RD	WB2005	==+B2005:RD	
/210.5	SH 5	SH	WSQ2102	==+	
/210.4	+12V 4	BU	WSQ2102	==+SQ2102:BU	
/210.3	IN-(mV) 3	RD	WSQ2102	==+SQ2102:RD	Cella di carico Load cell
/210.2	IN+(mV) 2	WH	WSQ2102	==+U572:J1:2	
/210.1	0V 1	BK	WSQ2102	==+U572:J1:1	



Description

**Sommario schede PLC**  
Plc card overview



Description

Layout  
Layout

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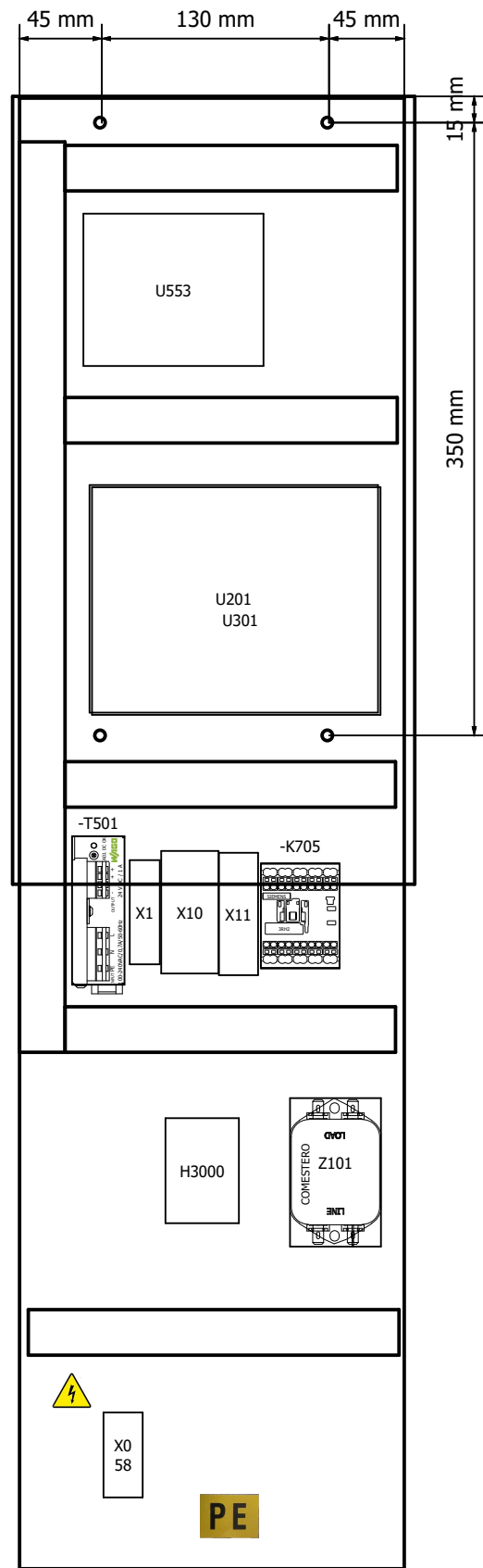
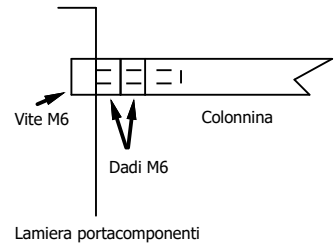
Ekko 212.1

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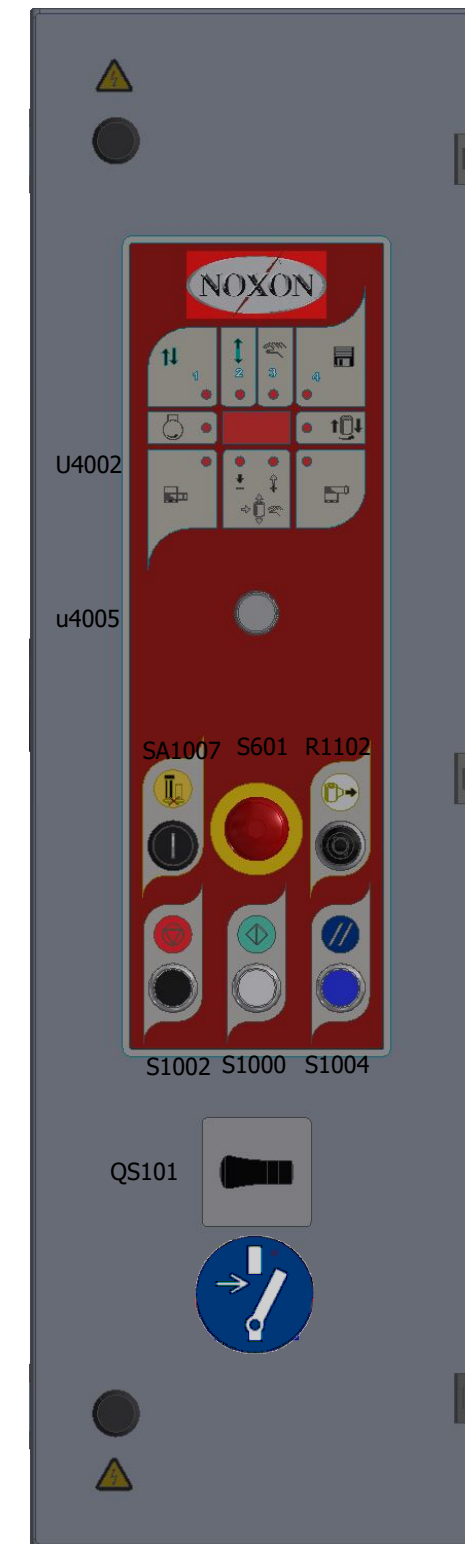
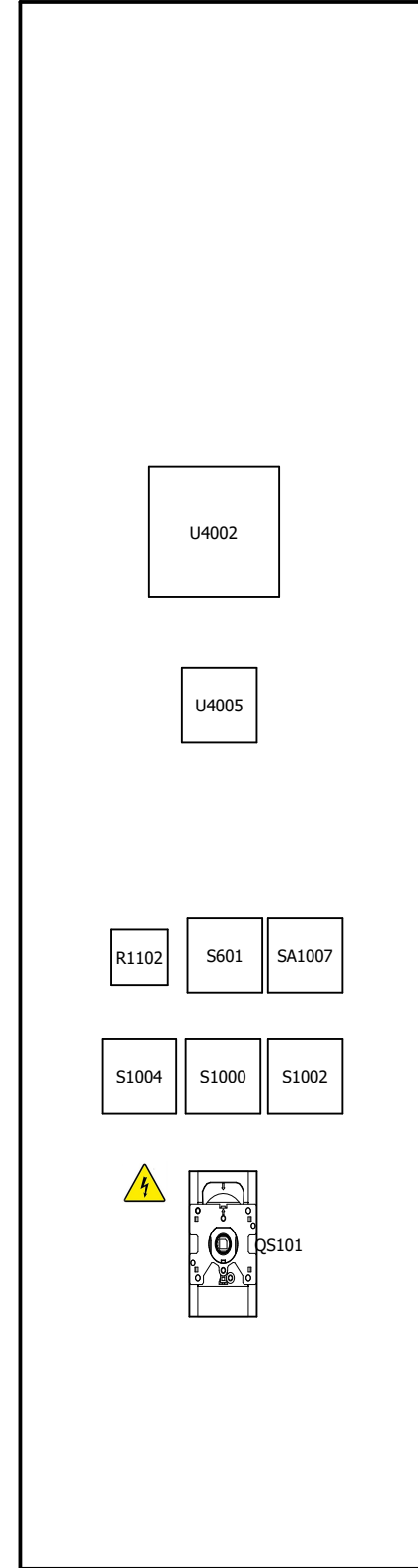


Nota per il quadrista: quote per fori montaggio colonnine plexiglass

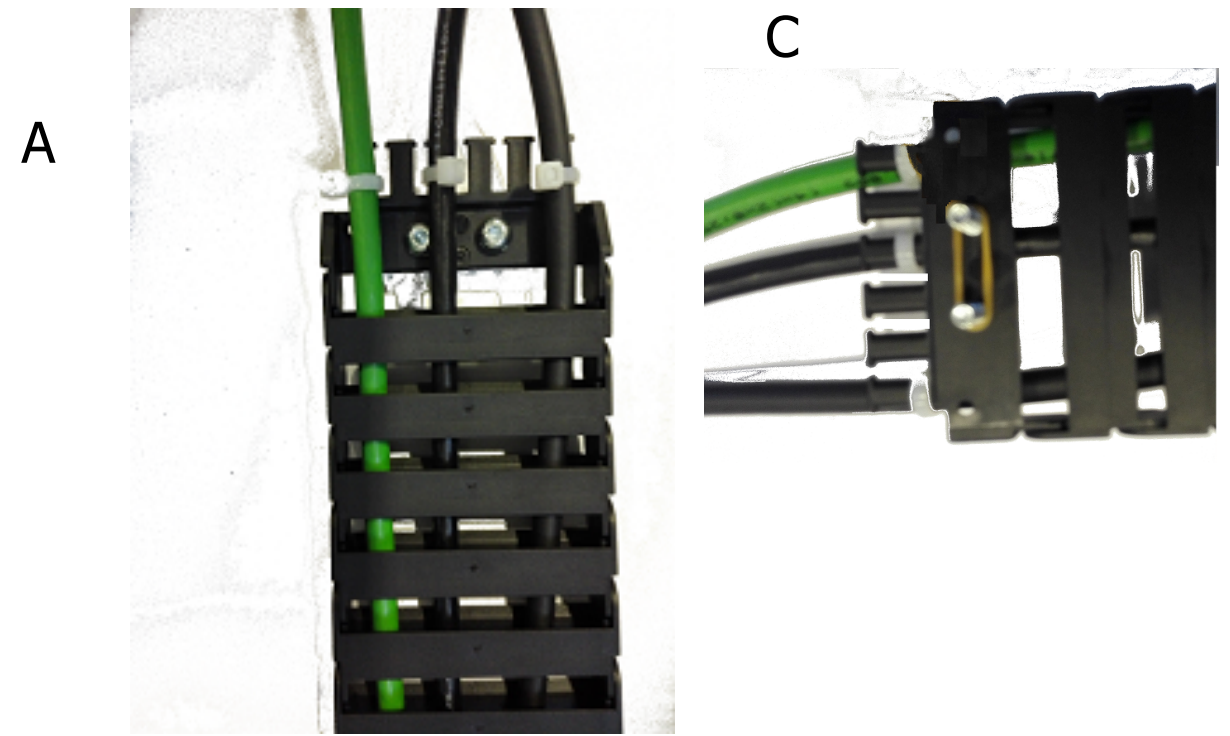
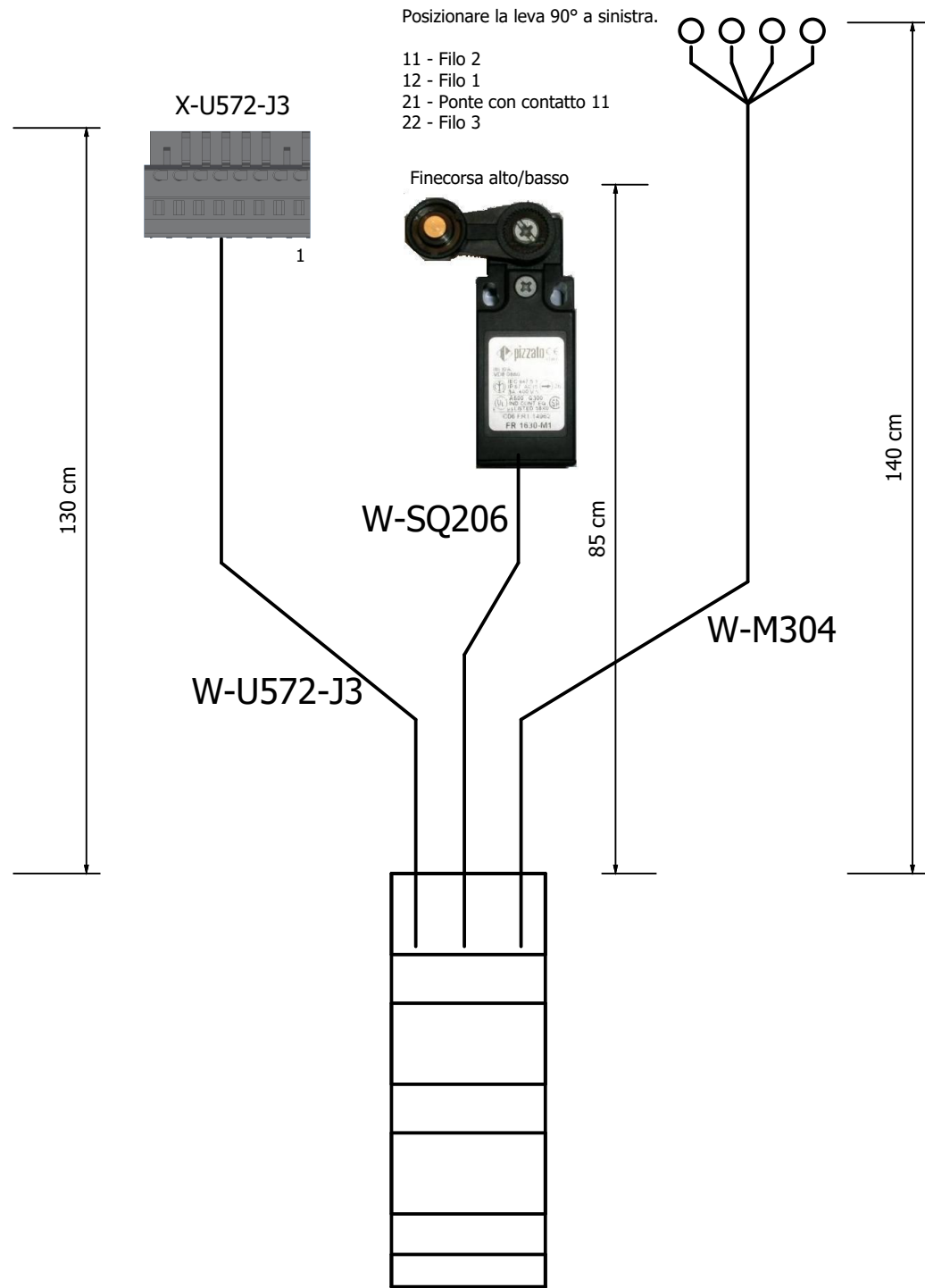
Nota per il quadrista:  
avvitare due dadi M6 contro la lamiera componenti  
prima di avvitare le colonnine del plexiglass



Nota per il quadrista:  
i conduttori che si collegano  
QS101 passano per questa canalina



Fissare i cavi in catena da entrambe i lati seguendo la procedura come descritta di seguito.  
 I cavi vanno disposti nella catena portacavo come mostrato nell'immagine "A" rispettando la sequenza indicata nello schema.  
 Prima di tutto fascettare i cavi lato morsettiera X300.1 rispettando le misure indicate.  
 Stendere la catena su una superficie piana e curvarla verso l'alto come mostrato nell'immagine "B".  
 Afferrare i cavi dalla parte della catena senza fascette (lato QE), a questo punto tirare i cavi verso di se poi spingerli dentro alla catena, la posizione corretta per il fissaggio con le fascette è quella che si trova a metà fra i due punti rilevati tirando e spingendo i cavi.  
 Fornire la catena con le quattro viti 6x16 bombate inserite come mostrato in figura A fissandole con i dadi flangiati stretti a mano.



## Cable overview

Cable	Origine	N° Conduttori	Cross-section	Capicorda origine	Spelatura origine (cm)	Lunghezza fuori cassetta (m)	Spelatura destinazione (cm)	Capicorda destinazione	Target	Note
-W-M202	-U201;-E202	4G	1 mm <sup>2</sup>	Occhiello d=5 su Gnd	7	2,7	10	Occhiello d=4, Gnd e sch d=5	-M202	
-W-M204	-U201;-E204	4G	1,5 mm <sup>2</sup>	Occhiello d=5 su Gnd	7	2,6	10	Occhiello d=4, Gnd e sch d=5	-M204	
-W-M304	-U301	4G	1,0 mm <sup>2</sup>	--	10	3,7	7	Occhiello d=4, Gnd e sch d=5	-M304	In catena portacavo
-W-SQ206	-SQ206	4G	0,5 mm <sup>2</sup>	--	5	3,25	5	Puntalino	-U201	In catena portacavo
-W-U572-J3	-X10;-X11;-T501;-K705	12	0,34+0,5 mm <sup>2</sup>	--	10	3,65	7	--	-U572	In catena portacavo
-W-X0		3G	2,5 mm <sup>2</sup>	Puntalino	15	3	7	Puntalino, GNYE Occhiello D.5	-X0;-PE102	
-W-X2001.1	-X10	4	0,5 mm <sup>2</sup>	--	15	2,5	5	Puntalini	-X2001.1	



Description

Sommario cavi  
Cable overview

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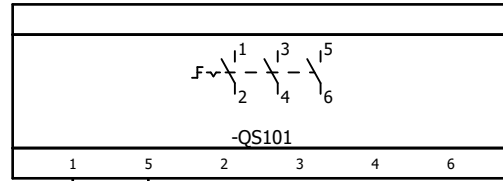
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# Schema allacciamento morsetti

## Terminal-connection diagram

Destinazioni interne  
Internal targets

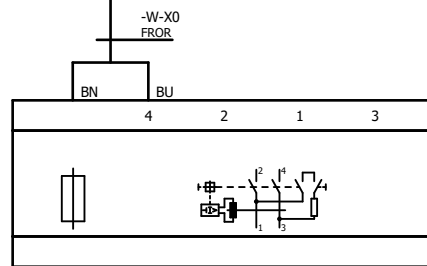


=+-X0

Piano Level

Morsetto Terminal

Attacco Connection point



Destinazioni esterne  
External targets



Description

Morsettiera di potenza  
Power terminalboard

Code

3709308591ENG

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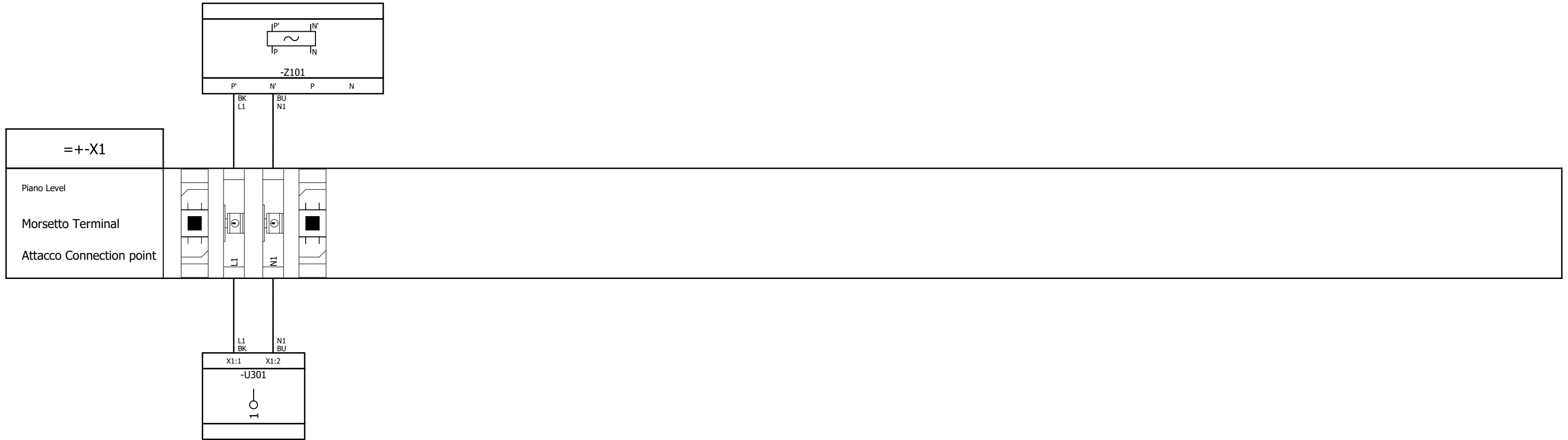
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# Schema allacciamento morsetti

## Terminal-connection diagram

Destinazioni interne  
Internal targets



Destinazioni esterne  
External targets



Description

Morsettiera di potenza  
Power terminalboard

Code

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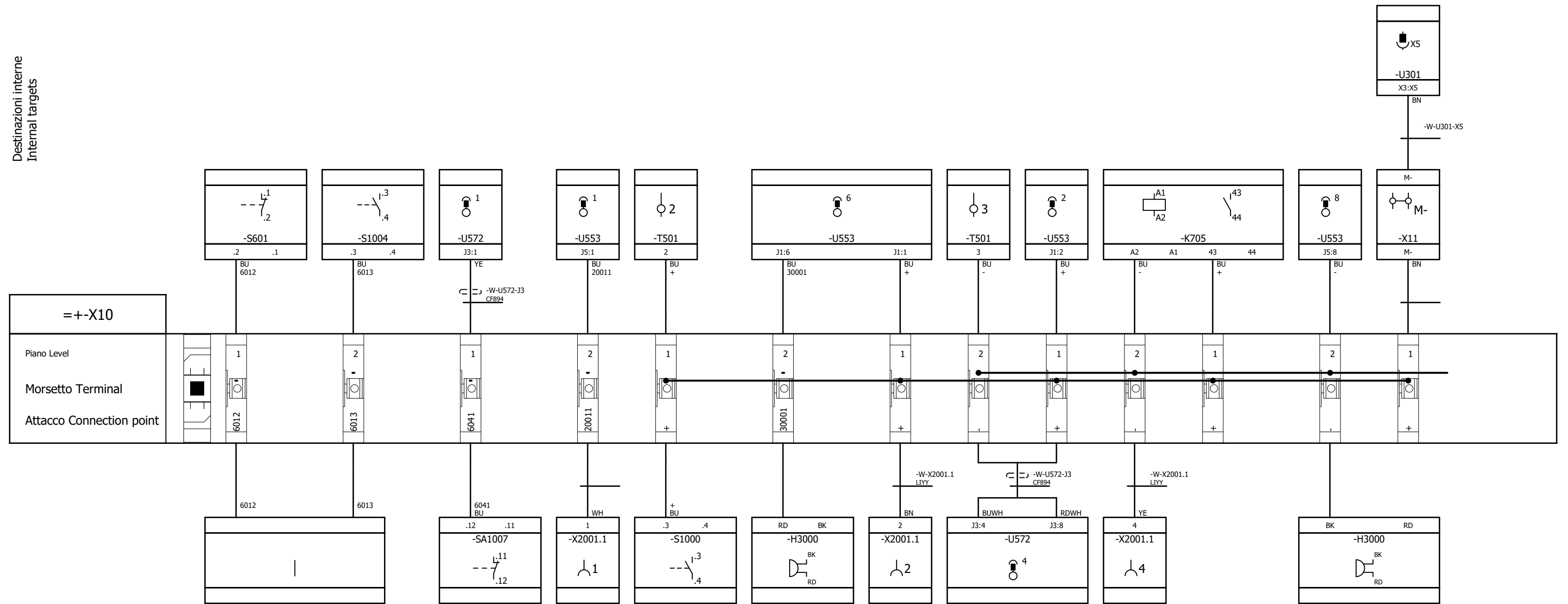
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Machine

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# Schema allacciamento morsetti

## Terminal-connection diagram



Destinazioni esterne  
External targets

Destinazioni interne  
Internal targets

Emergenza  
Emergency stop

Emergenza  
Emergency stop

Emergenza  
Emergency stop

Fase tavola  
Table phase

Sirena  
Siren



Description

Morsettiera 24Vdc  
24Vdc terminalboard

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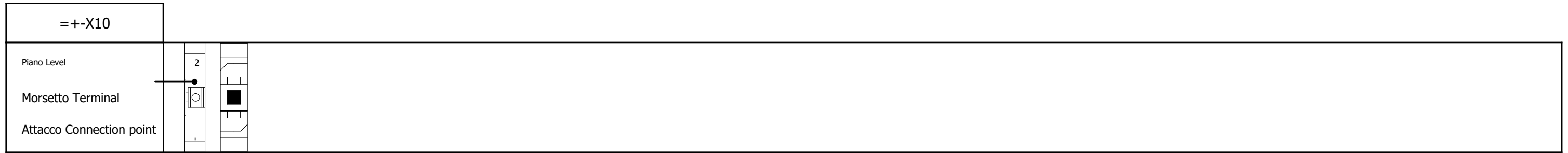
Machine

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# Schema allacciamento morsetti

## Terminal-connection diagram

Destinazioni interne  
Internal targets



Destinazioni esterne  
External targets



Description

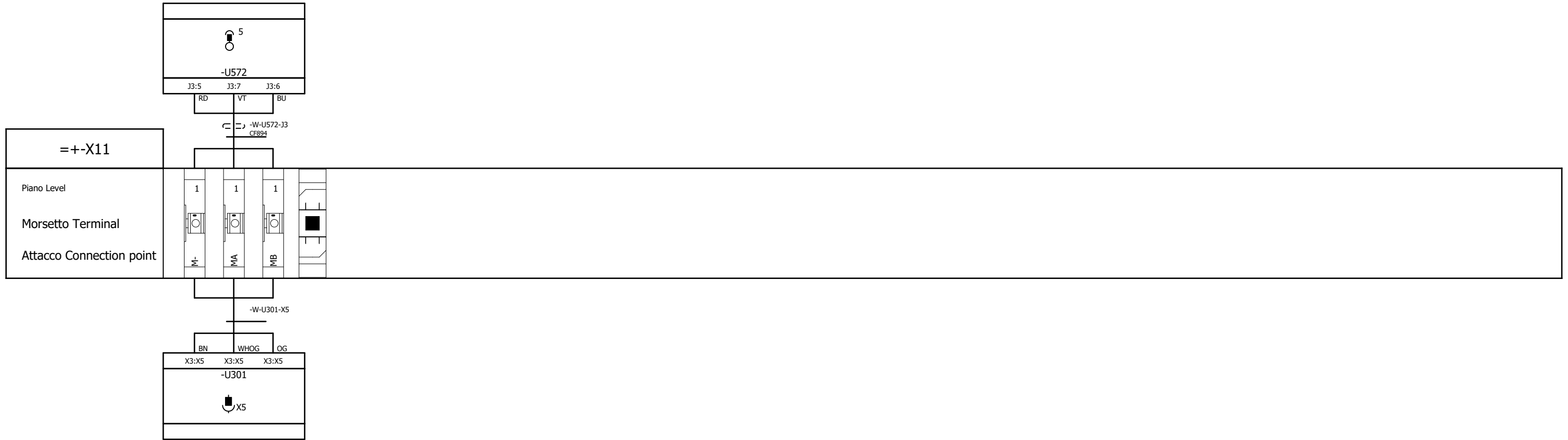
Morsettiera 24Vdc  
24Vdc terminalboard

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# Schema allacciamento morsetti

## Terminal-connection diagram

Destinazioni interne  
Internal targets



Destinazioni esterne  
External targets



Description

Morsettiera modbus  
Modbus terminal strip

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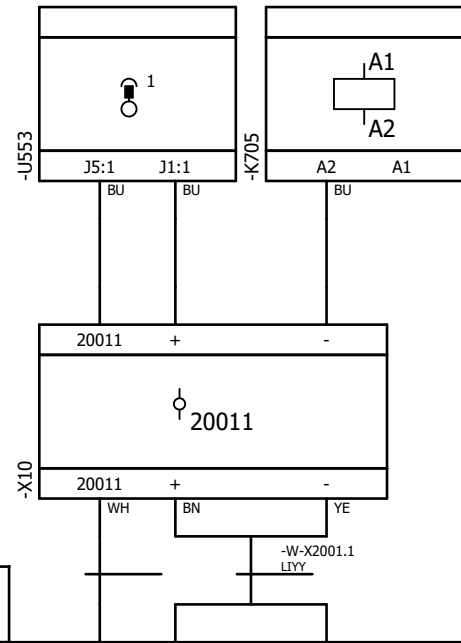
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# Schema allacciamento connettori

## Pin-connection diagram

Internal targets



= +-X2001.1



External targets

Fase tavola  
Table phase  
||  
Fase tavola  
Table phase

**Connettore basamento**  
Base connector

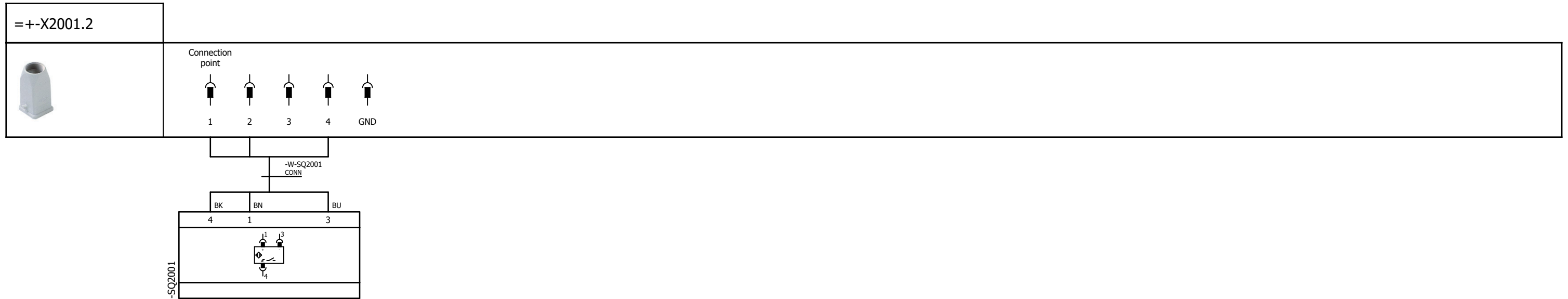


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# Schema allacciamento connettori

## Pin-connection diagram

Internal targets



External targets

Fase tavola  
Table phase  
||  
Fase tavola  
Table phase

Connettore basamento  
Base connector

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