

# SPIDER1365-1380

## all versions (B-EB-D-ED-E)

GX270/GX390/iGX390 + 220V/110V  
 GX270/GX390/iGX390 + 24V Battery Pack  
 HATZ + 220V/110V  
 HATZ + 24V Battery Pack  
 220v/110v + 24V Battery Pack

# ELECTRIC DIAGRAM

In accordance with AS/NZS 1418.10:2011

La norma IEC 60757 indica le abbreviazioni internazionali dei colori dei conduttori, come mostra la tabella sotto.

IEC 60757 norm indicates the international abbreviation for conductor colours, as shown below.

COLORS(en)                      COLORI(ita)

black	bk	nero
brown	bn	marrone
red	rd	rosso
orange	og	arancio
yellow	ye	giallo
green	gn	verde
blue	bu	blu
violet	vt	viola
gray	gy	grigio
white	wh	bianco
pink	pk	rosa
turquoise	tq	turchese

Schema aggiornato alle nuove normative Europee EN280:2013 ed EN13849-1  
 Updated according to the European laws EN280:2013 and EN13849-1

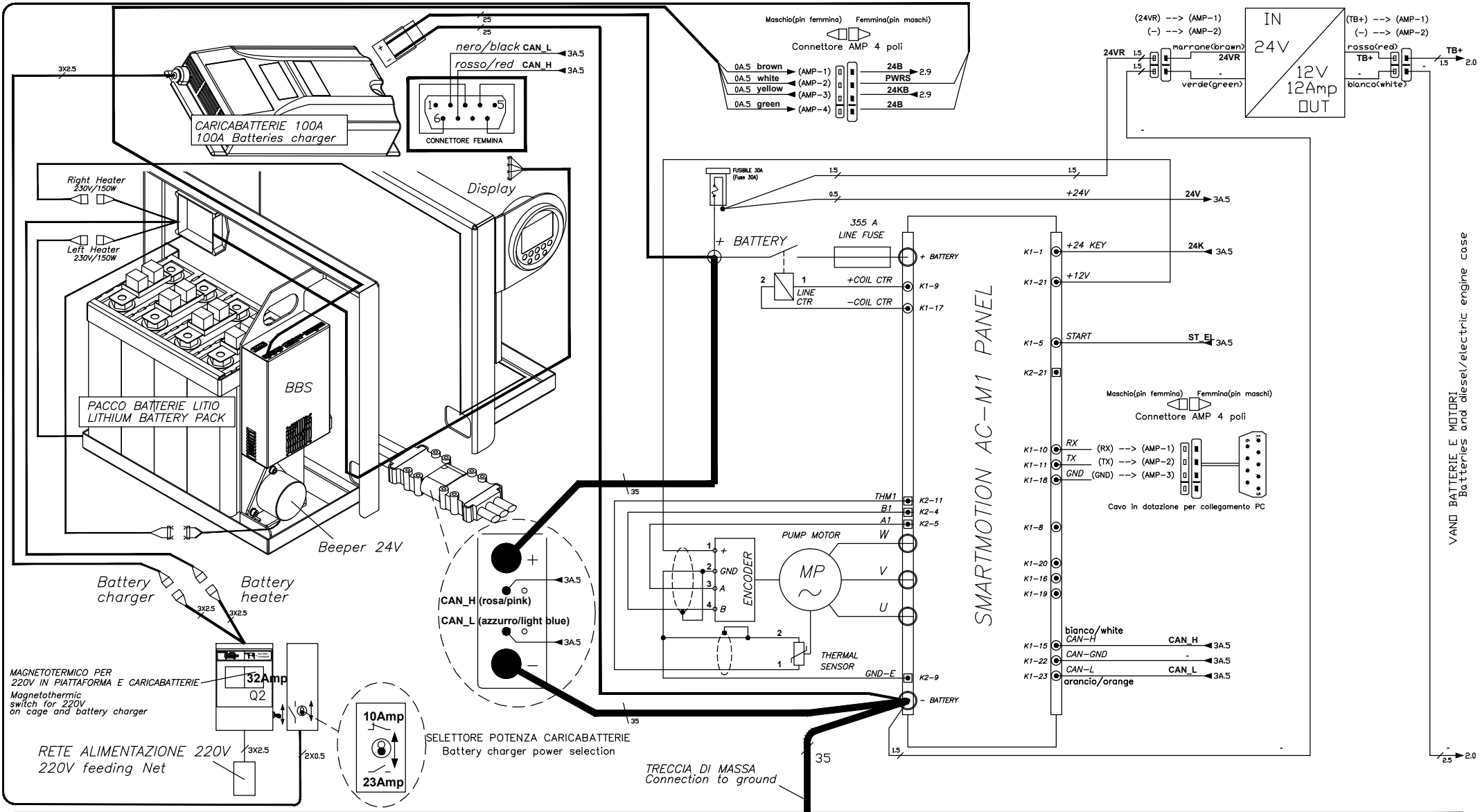
28.05.19-Aggiunta versione con motore iGX390.

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TIPOLOGIA	SCHEMA FUNZIONALE	DATA	28.05.2019
MACCHINA/MODELLO	SPIDER 1365-1380 TUTTE LE VERSIONI D-B-E-ED-EB	DISEGNATORE	S.S.
DENOMINAZIONE	IMPIANTO ELETTRICO	GRUPPO	IMP. ELETTRICO
DIS. N.	487	90	625 02
			REV. 01

# COLLEGAMENTO BATTERIA AL LITIO Lithium battery connection

CONVERTITORE  
24V-->12V  
24V-->12V  
converter

0 1 2 3 4 5 6 7 8 9



CARCASSA TELAIID DELLA MACCHINA (Chassis/Ground of the machine)

VANO BATTERIE E MOTORI  
Batteries and diesel/electric engine case

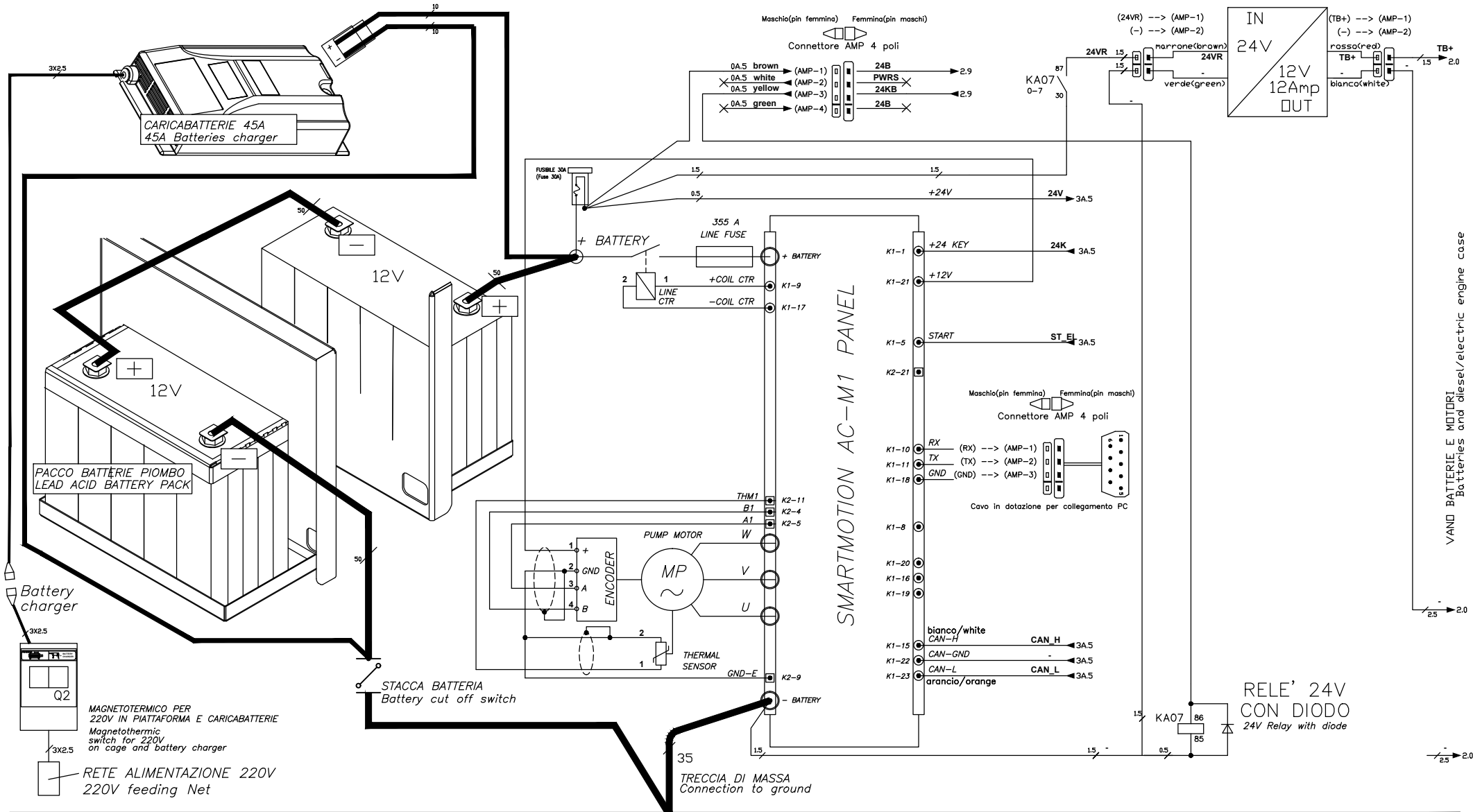
QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE. This DRAW is property of the Company which protects its rights according to the law

COLLEGAMENTO BATTERIA AL PIOMBO  
Lead-acid battery connection

RELE' GENERALE  
PACCO BATT. 24V  
General relay  
24V battery pack

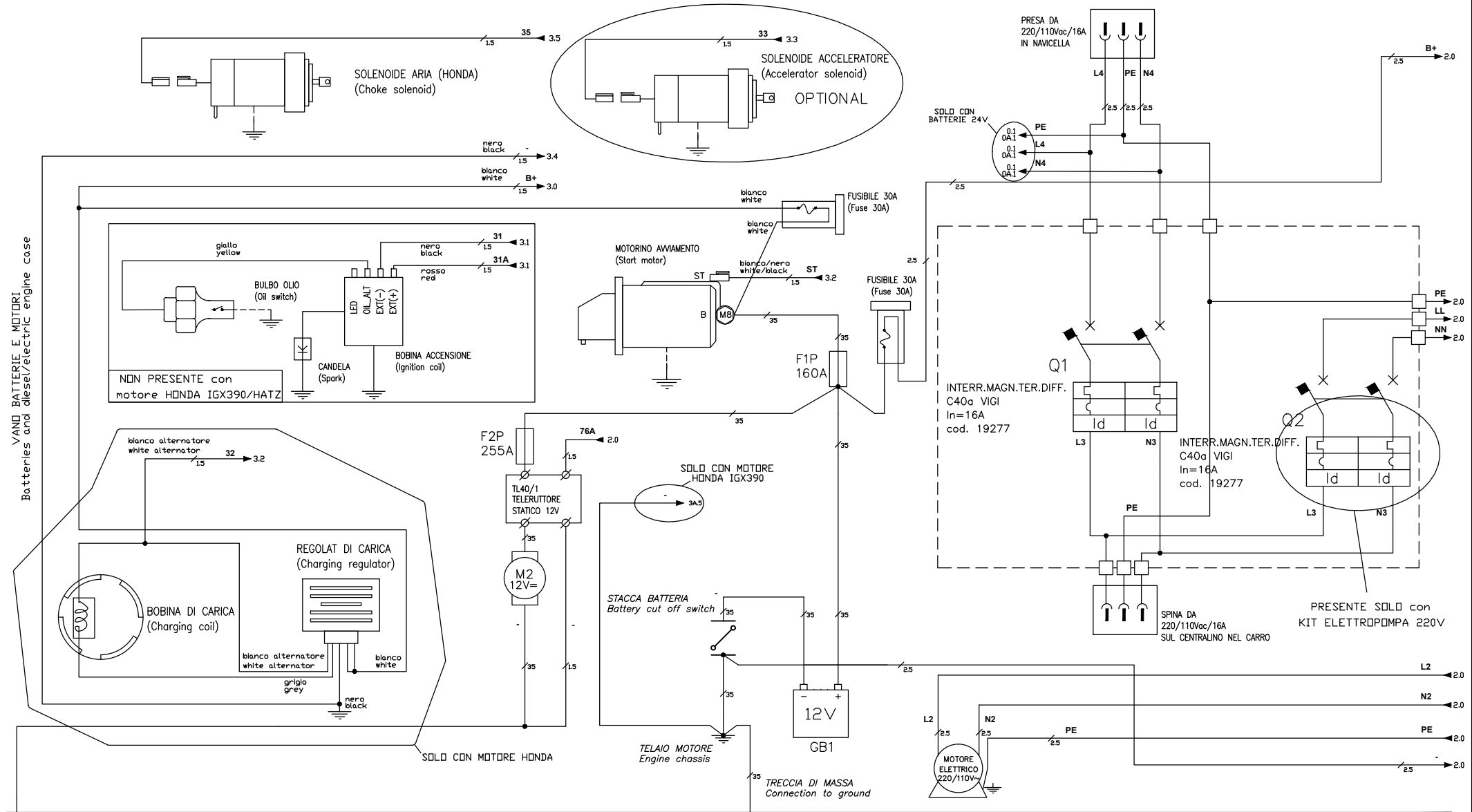
CONVERTITORE  
24V-->12V  
24V-->12V  
converter

0      1      2      3      4      5      6      7      8      9



QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE. This DRAW is property of the Company which protects its rights according to the law

			MOTORE ELETTRICO 12V (OPTIONAL) 12V Electric motor (OPTIONAL)	MOTORINO AVVIAMENTO HONDA Start-up HONDA engine	BATTERIA MOTORE HONDA HONDA engine 1 battery	MOTORE ALIMENT. ELETTR.110V-220V 110V-220V Electric motor	MOTORE 220V LINEA NAVICELLA 220V Electric motor and cage line feeding	INT.MAGN.TER.DIFF. MOTORE A 220V 220V motor safe switch	
0	1	2	3	4	5	6	7	8	9

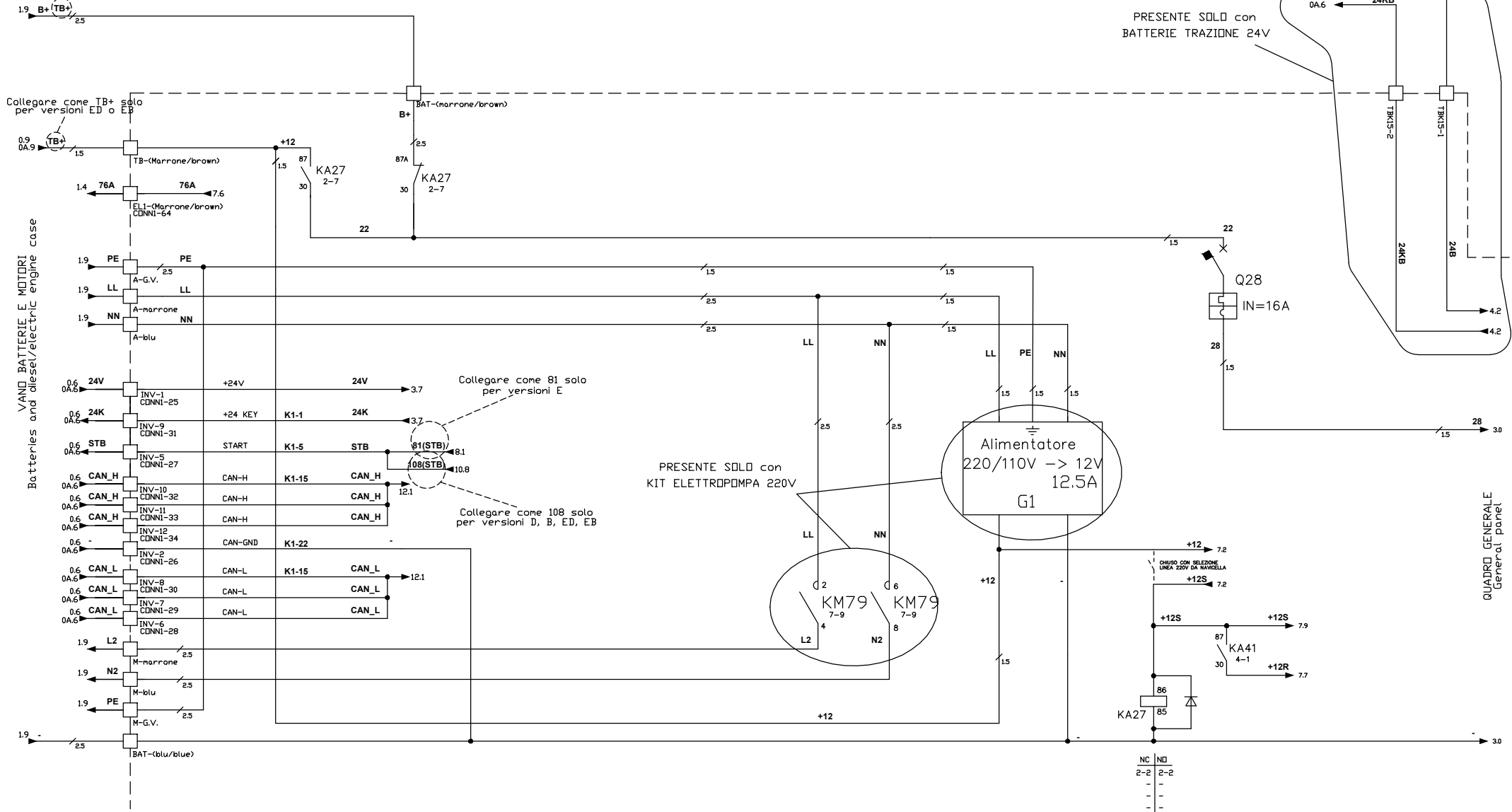


CARCASSA TELAIO DELLA MACCHINA (Chassis of the machine)

QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE  
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	POSITIVO DA LINEA 220V Positive from 220V line	POSITIVO DA BATTER. AVVIAM. Positive from starting batteries			TELERUTTORE MOTORE IMPIANTO Contactor switch 220V motor	ALIMENTATORE DA RETE 220V Electric plant supplier from 220V line	RELE' SCAMBIO ALIMENTAZIONE Exchange feeding relè	MAGNETOTERMICO GENERALE General Switch	RELE' GENERALE PACCO BATT. 24V General relay 24V battery pack
0	1	2	3	4	5	6	7	8	9

Collegare come TB+ solo per versioni E (LI+220/110 o Plo+220/110)



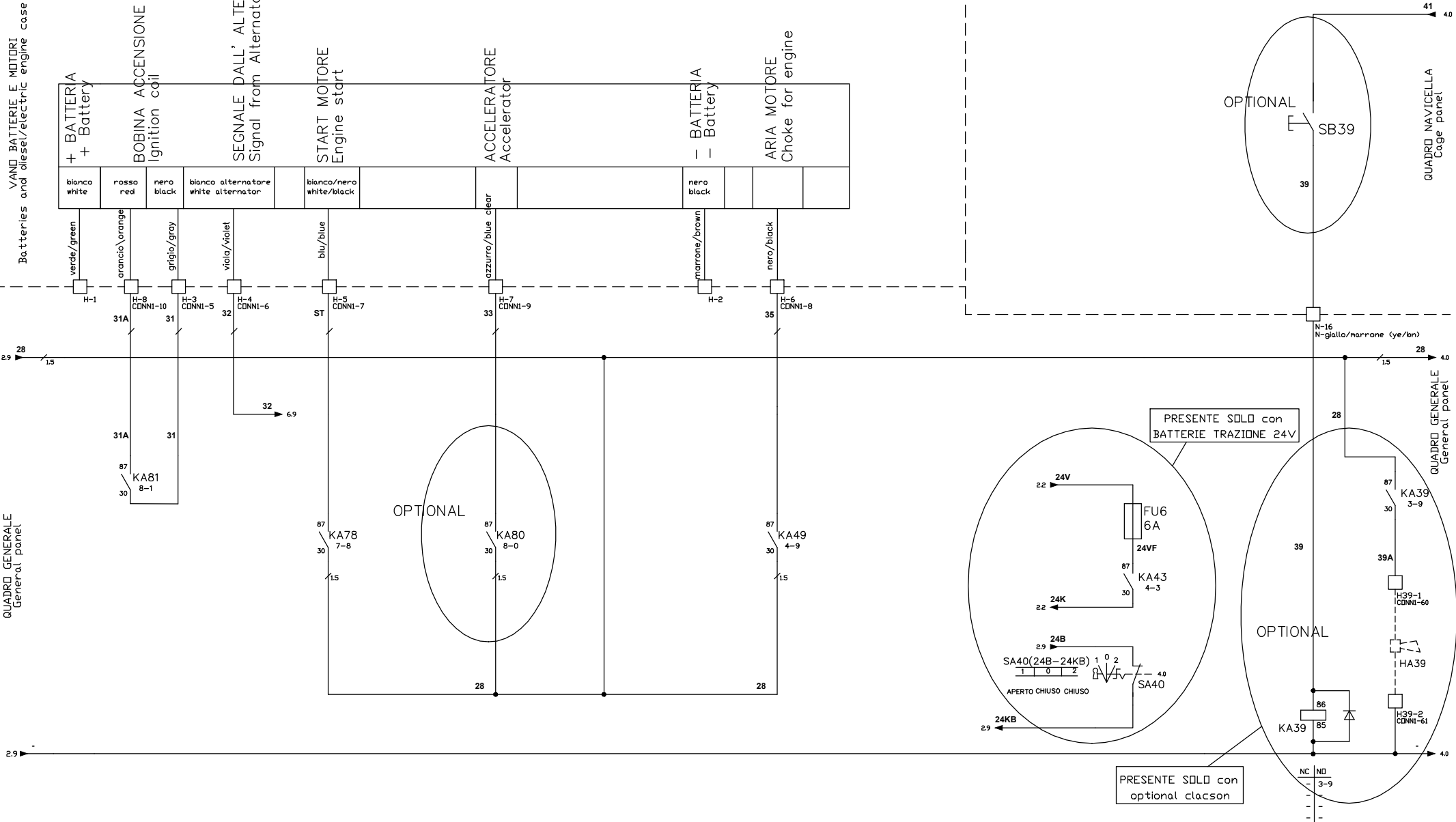
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MORSETTIERA MOTORE HONDA GX270/390 UT2  
GX270/390 (UT2 version)

POSITIVO SOTTO  
CHIAVE INVERTER  
Inverter  
start key switch

AVVISO ACUSTICO  
IN CESTA  
Acoustic alarm  
on cage

0 1 2 3 4 5 6 7 8 9

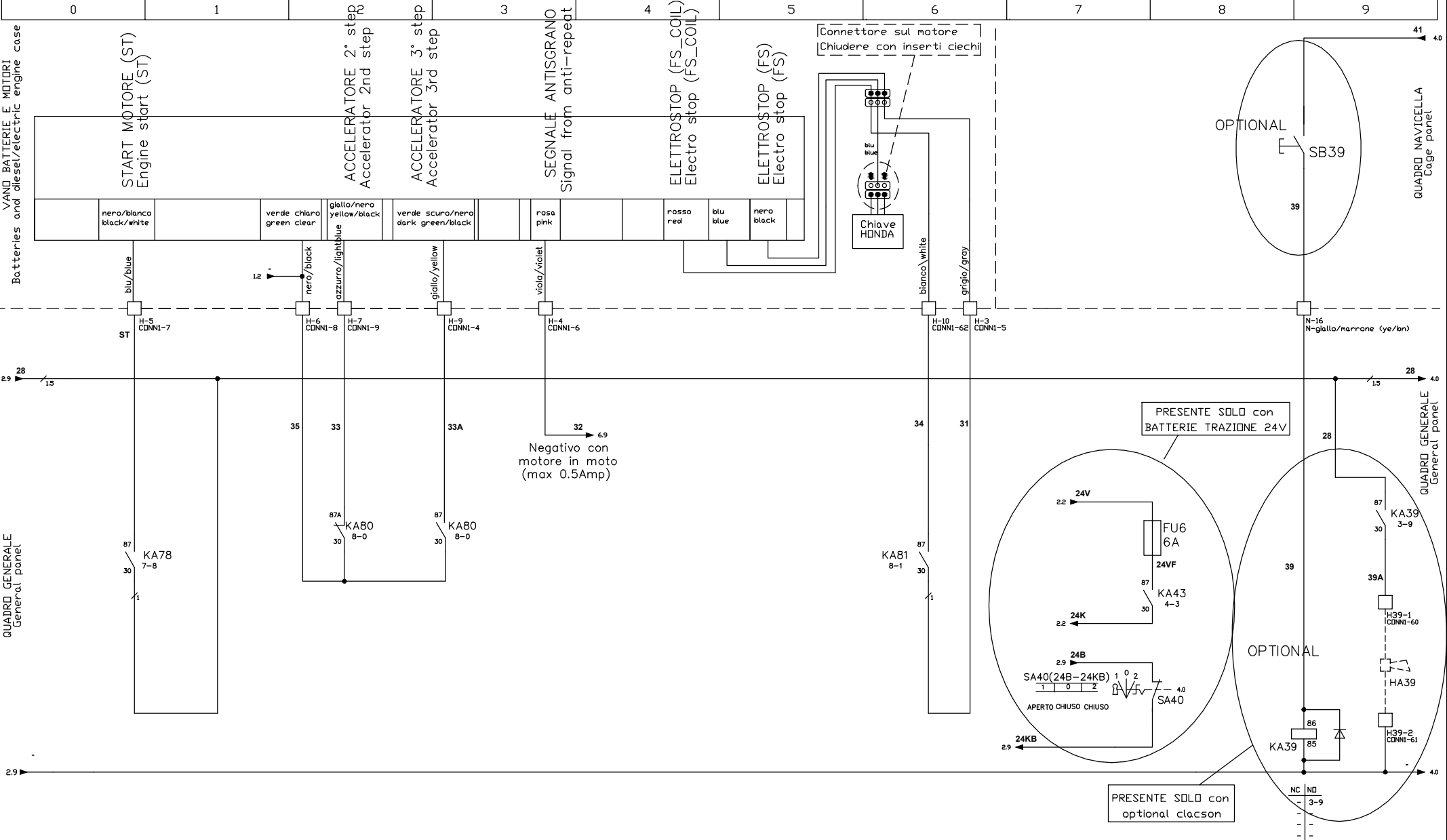


QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE  
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MORSETTIERA MOTORE HONDA IGX390

POSITIVO SOTTO  
CHIAVE INVERTER  
Inverter  
start key switch

AVVISO ACUSTICO  
IN CESTA  
Acoustic alarm  
on cage



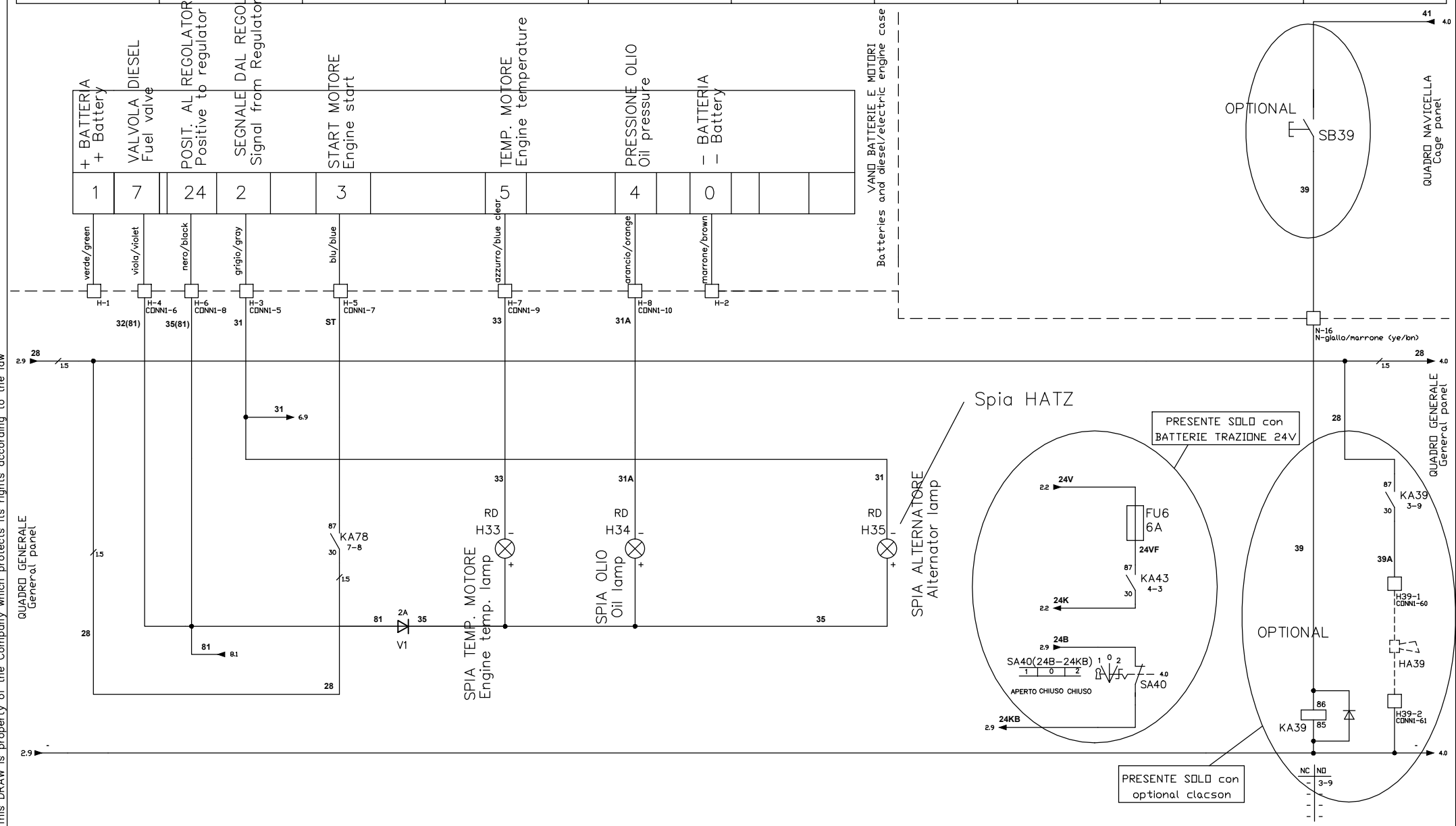
QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE. This DRAW is property of the Company which protects its rights according to the law

MORSETTIERA MOTORE HATZ 1B-30  
ENGINE TERMINAL HATZ 1B-30

POSITIVO SOTTO  
CHIAVE INVERTER  
Inverter  
start key switch

AVVISO ACUSTICO  
IN CESTA  
Acoustic alarm  
on cage

0	1	2	3	4	5	6	7	8	9
+ BATTERIA + Battery	VALVOLA DIESEL Fuel valve	POSIT. AL REGOLATORE Positive to regulator	SEGNALE DAL REGOLATORE Signal from Regulator	START MOTORE Engine start	TEMP. MOTORE Engine temperature	PRESSIONE OLIO Oil pressure	BATTERIA - Battery		
1	7	24	2	3	5	4	0		



QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE. This DRAW is property of the Company which protects its rights according to the law

QUADRO GENERALE  
General panel

VAND. BATTERIE E MOTORI  
Batteries and diesel/electric engine case

Spia HATZ

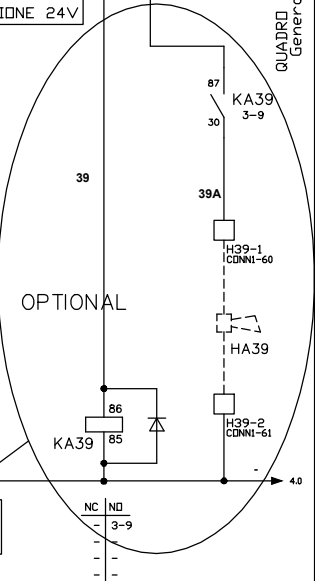
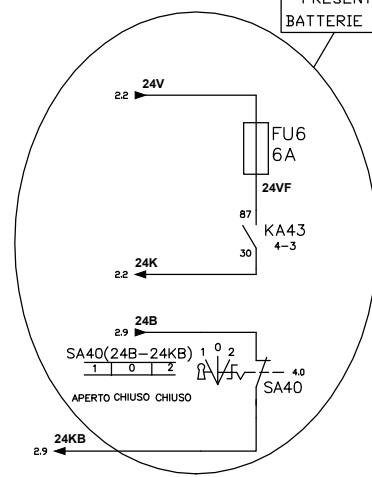
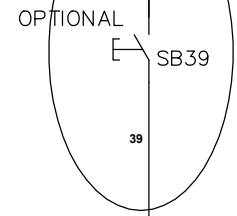
Spia ALTERNATORE  
Alternator lamp

PRESENTE SOLO con  
BATTERIE TRAZIONE 24V

PRESENTE SOLO con  
optional clacson

QUADRO NAVICELLA  
Cage panel

QUADRO GENERALE  
General panel







SPIDER 1365-1380

IMPIANTO ELETTRICO

487.90.625.02

30

MACCHINA Machine

COMPONENTE Component

D-B-E-ED-EB (all versions)

M.B.

MODELLO Model

DISEGNATORE Draftsman

NUMERO DISEGNO Drawing number

REVISIONE Review

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VERSIONE ELETTRICA (MORSETTIERA MOTORE NON PRESENTE)  
ELECTRIC VERSION (ENGINE TERMINAL NOT PRESENT)

POSITIVO SOTTO  
CHIAVE INVERTER  
Inverter  
start key switch

AVVISO ACUSTICO  
IN CESTA  
Acoustic alarm  
on cage

0

1

2

3

4

5

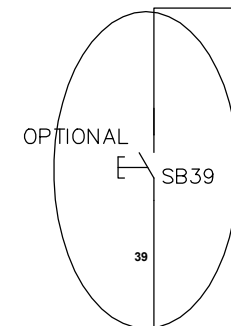
6

7

8

9

VANO BATTERIE E MOTORI  
Batteries and diesel/electric engine case



QUADRO NAVICELLA  
Cage panel

QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE  
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QUADRO GENERALE  
General panel

28

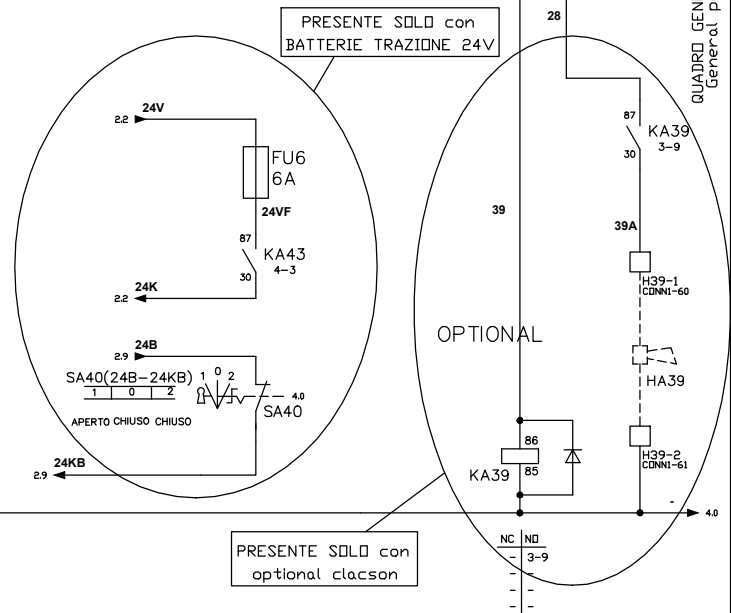
1.5

2.9

N-16  
N-giallo/marrone (ye/bn)

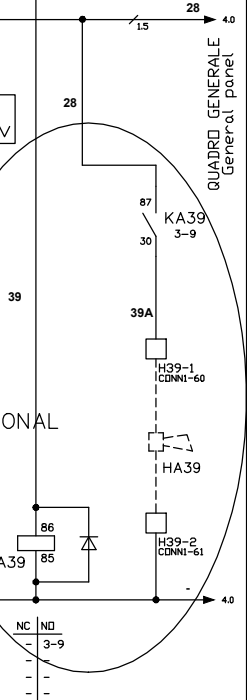
QUADRO GENERALE  
General panel

28



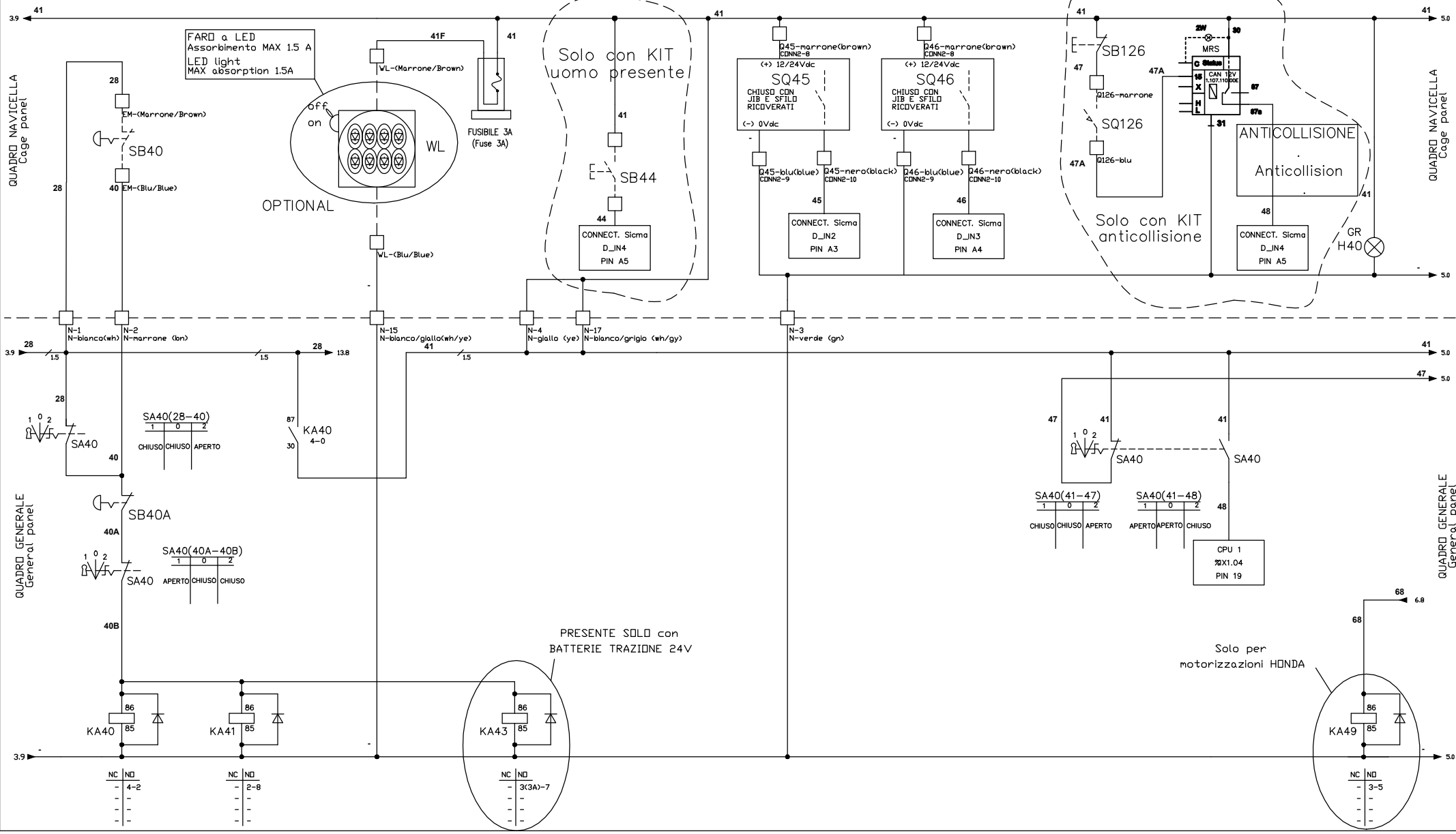
PRESENTE SOLO con  
BATTERIE TRAZIONE 24V

PRESENTE SOLO con  
optional clacson



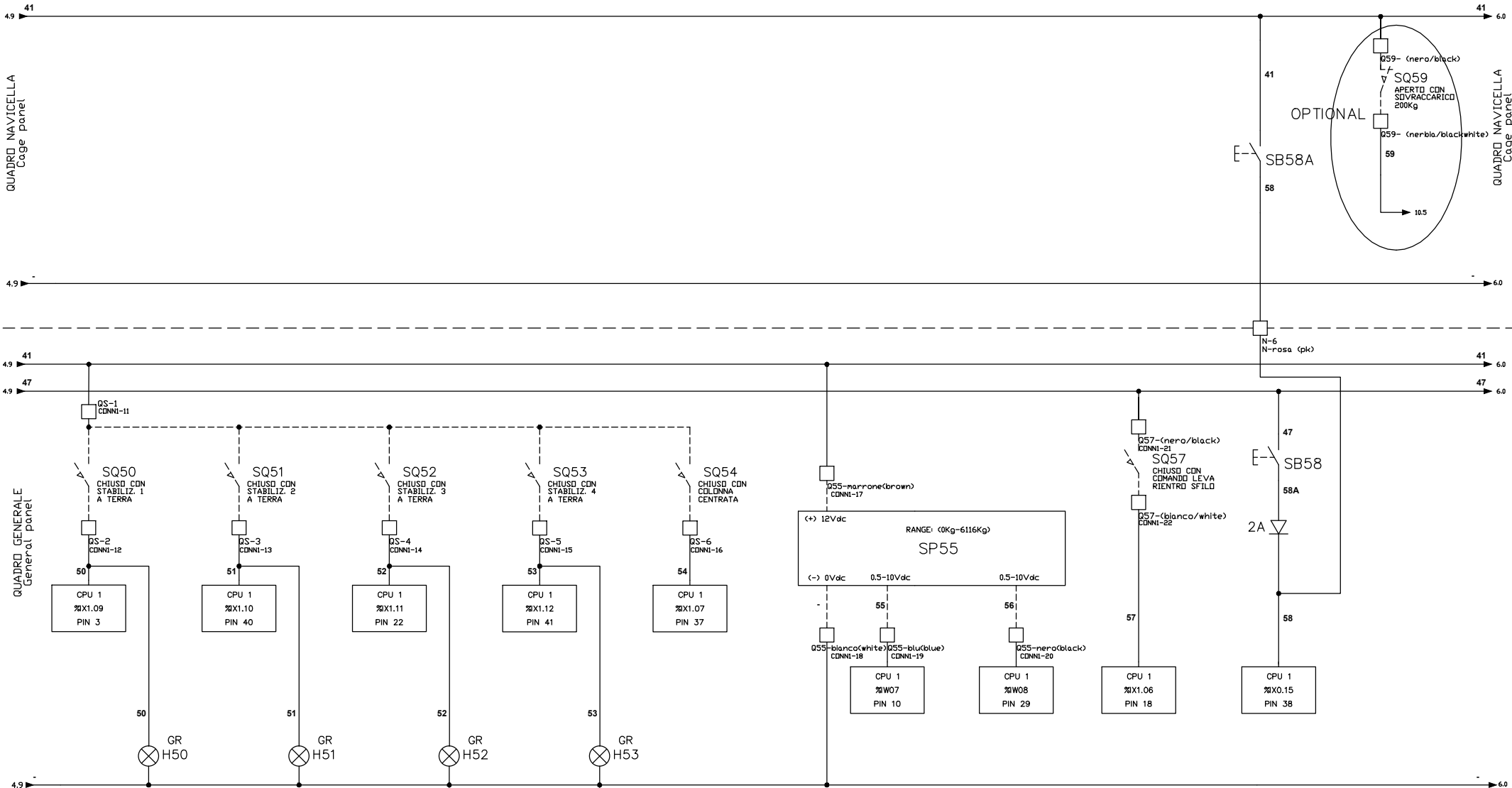
NC ND  
3-9  
-  
-  
-

SERIE EMERGENZE Emergency series	RELE' ALIMENTAZ. GENERALE General feeding relè	FARO DI LAVORO a LED (optional) LED Working lamp (optional)		PULSANTE UOMO PRESENTE Man present Fly jib & Extension button	SENSORE JIB E SFILLO CHIUSI 1 Fly jib & Extension closed sensor 1	SENSORE JIB E SFILLO CHIUSI 2 Fly jib & Extension closed sensor 2	SELEZIONE COMANDI BASE Base commands selection	SELEZIONE COMANDI NAVICELLA Cage commands selection	RELE' PRERISCALDO CANDELETTE/ARIA Glow (Heater)/Choke relay
0	1	2	3	4	5	6	7	8	9



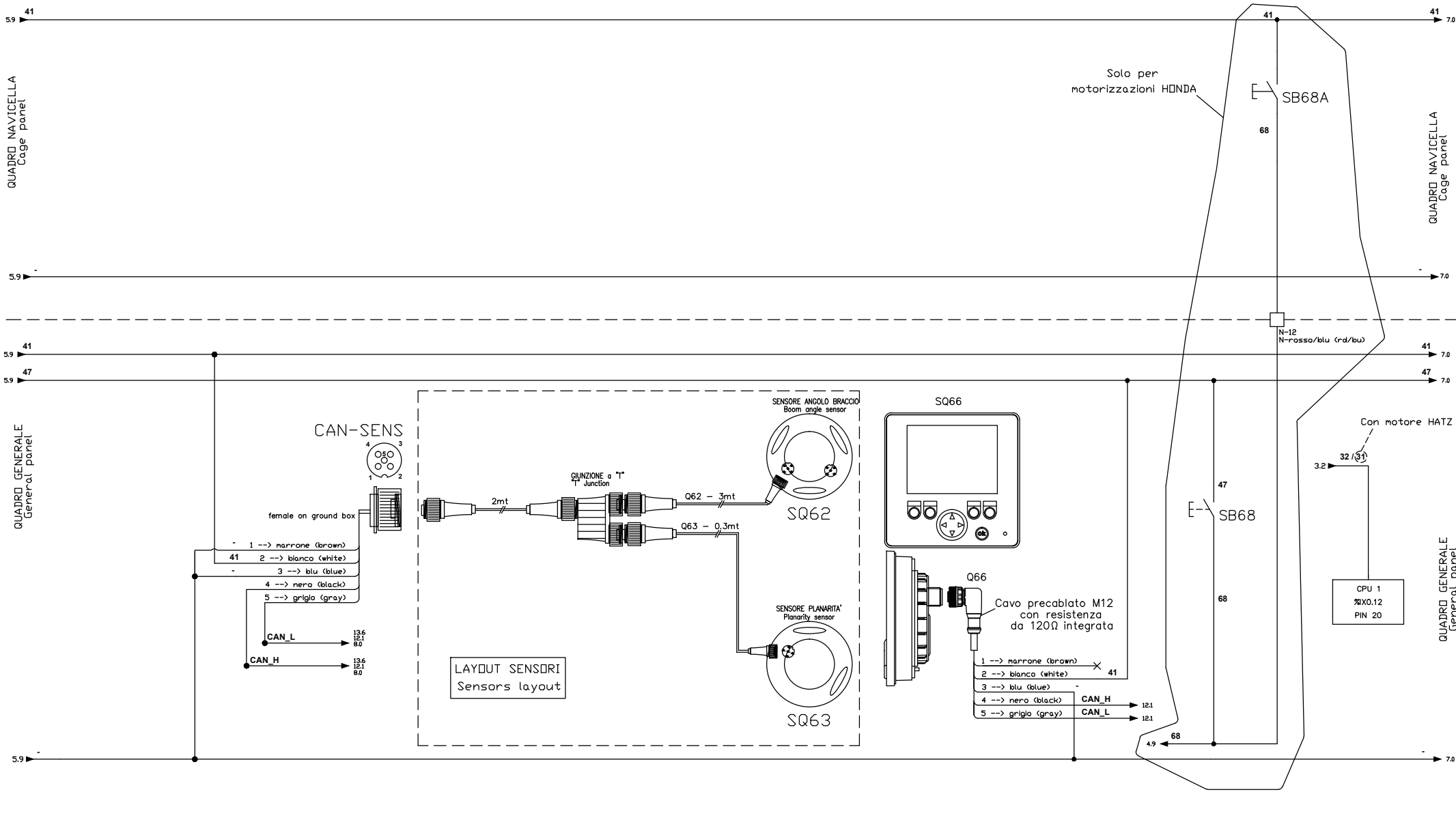
QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE  
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SEGNALE PIEDE 1 A TERRA Stabilizer 1 on ground signal	SEGNALE PIEDE 2 A TERRA Stabilizer 2 on ground signal	SEGNALE PIEDE 3 A TERRA Stabilizer 3 on ground signal	SEGNALE PIEDE 4 A TERRA Stabilizer 4 on ground signal	MICRO COLONNA CENTRATA Column centered microswitch	SENSORE CARICO BRACCIO 1 Boom load sensor 1	SENSORE CARICO BRACCIO 2 Boom load sensor 2	MICRO LEVA RIENTRO SFILO DA TERRA Extension-in from ground controls	PULSANTE AVVIO/ARRESTO DIESEL/220V Diesel/220V start/stop button	MICRO CELLA CARICO 200Kg Overload micro 200Kg
0	1	2	3	4	5	6	7	8	9



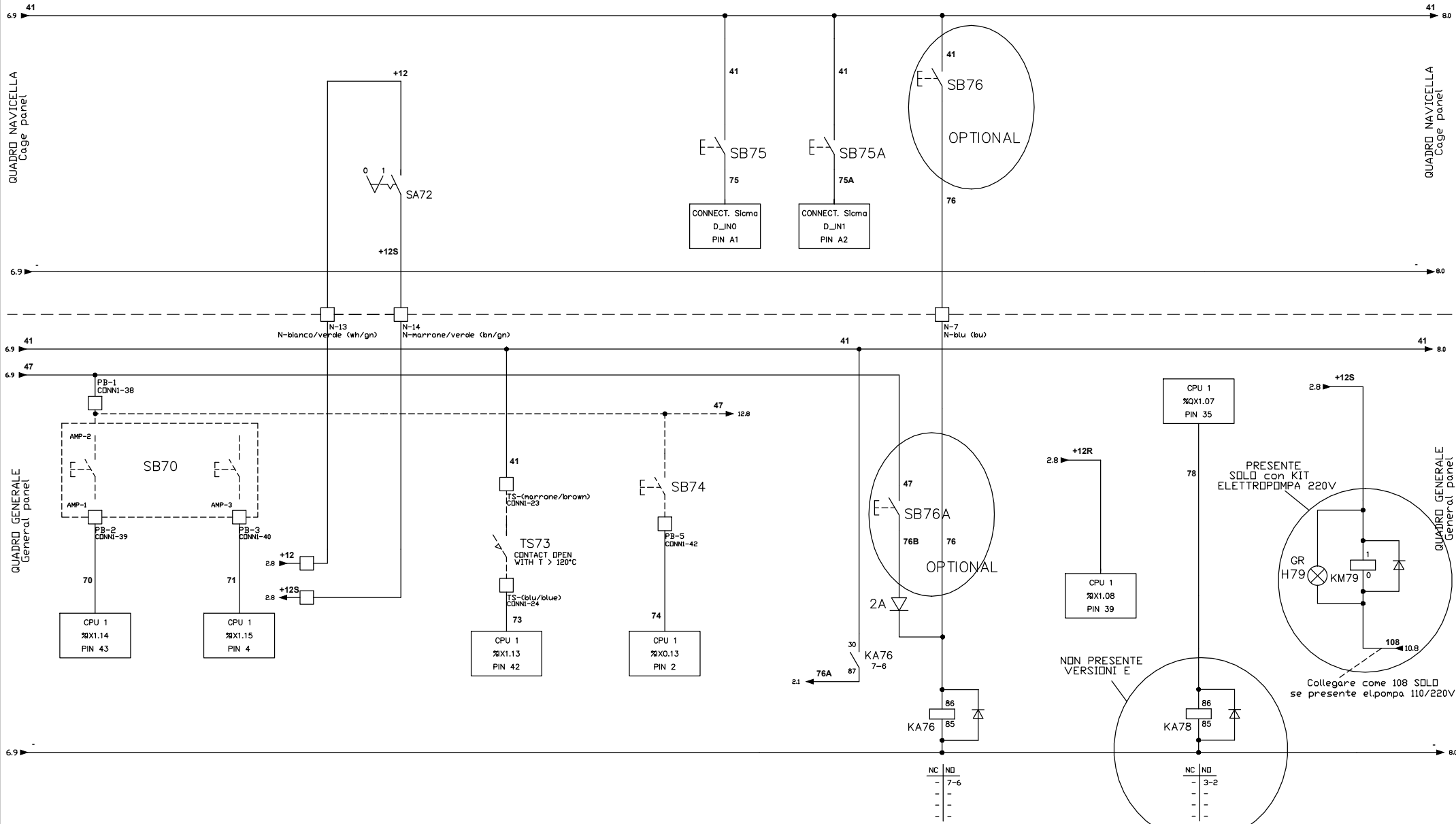
QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE. This DRAW is property of the Company which protects its rights according to the law

	INDICATORE ANGOLO VERTICALE BRACCIO CAN-BUS RIDONDANTE Vertical Boom Angle CAN-BUS redundant indicator			INDICATORE PLANARITA' CAN-BUS Planarity CAN-BUS indicator		SCHERMO Display		PULSANTE PRERISCALDO CANDELETTE/ARIA Glow (Heater)/Choke button from ground	MOTORE IN MOTO Engine started
0	1	2	3	4	5	6	7	8	9



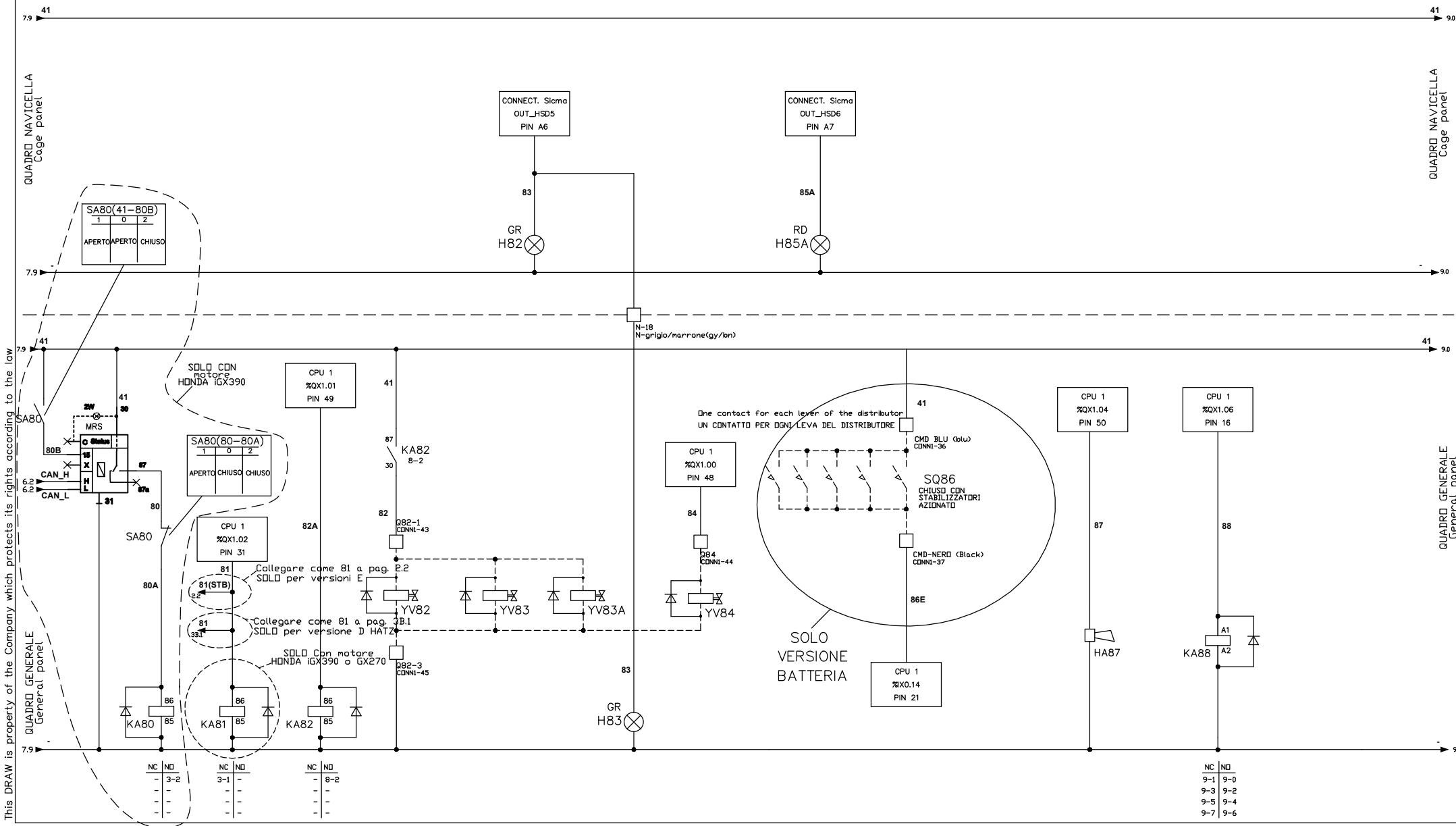
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COMANDO SALITA BRACCIO DA COLONNA Boom raising command from column	COMANDO DISCESA BRACCIO DA COLONNA Boom lowering command from column	SELETTORE MOT. SCOPPIO/220V 220V/Engine Selector	SONDA TEMPERATURA MOTORE ELETTRICO > 120°C Electric motor temperature > 120°C	PULSANTE RICHIESTA OLIO DA TERRA Oil request from ground controls	PULSANTI REGOLAZIONE +/- VELOCITA' +/- Speed regulation buttons	COMANDO TELER. EL.POMPA EMERGENZA Contactor for emergency el.pump	PRESENZA RETE 220V/110V 220V/110V present	AVVIAM. MOTORE A SCOPPIO Engine START	TELERUTTORE MOTORE 220V Contactor for 220V electric motor
0	1	2	3	4	5	6	7	8	9



QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE  
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COM. ACCELERATORE HONDA iGX390 Accelerator for Honda iGX390	COMANDO SOLENOIDE SPEGNIMENTO Engine stop command	COMANDO VALVOLE SCARICO e SCAMBIO Dump valve and exchange valves comm.	SEGNAL. MACCHINA RICOVERATA Machine completely closed signal	COMANDO VALVOLA SCARICO MOV. AERE General dump aerial movements valve comm.	SEGNAL. RIBALTAMENTO Overload and tipping signal	MICRO ATTIVAZ. STABILIZZATORI Stabiliz. activation microswitch	COMANDO SEGNAL. ACUSTICA A TERRA Acoustic signal command	COMANDO RELE' SCAMB. DISTRIB. Distributor exchange relay command	
0	1	2	3	4	5	6	7	8	9



QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE  
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COMANDO PROPORZ. ROT. COLONNA DX Column rotation DX proportional comm.	COMANDO PROPORZ. TRAS. CING. SX AVANTI Left track forward proportional comm.	COMANDO PROPORZ. ROT. COLONNA SX Column rotation SX proportional comm.	COMANDO PROPORZ. TRAS. CING. SX INDIETRO Left track backward proportional comm.	COMANDO PROPORZ. SALITA BRACCIO Boom raising proportional comm.	COMANDO PROPORZ. TRAS. CING. DX AVANTI Right track forward proportional comm.	COMANDO PROPORZ. DISCESA BRACCIO Boom lowering proportional comm.	COMANDO PROPORZ. TRAS. CING. DX INDIETRO Right track backward proportional comm.	COMANDO PROPORZ. USCITA SFILO Extension-out proportional comm.
0	1	2	3	4	5	6	7	8

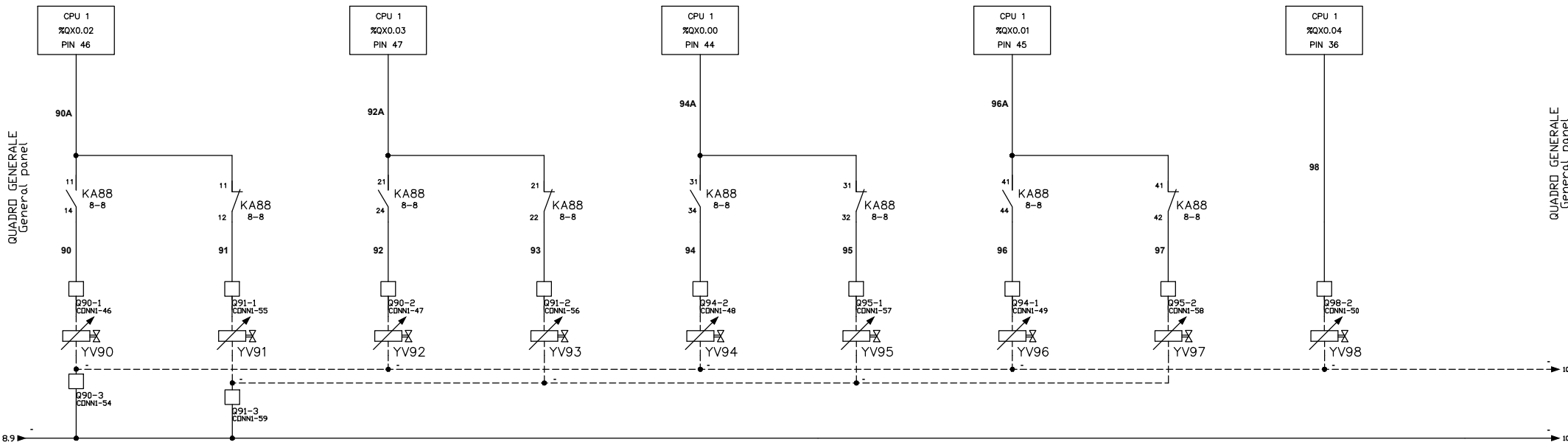
8.9 41 10.0

QUADRO NAVICELLA  
Cage panel

QUADRO NAVICELLA  
Cage panel

8.9 10.0

8.9 41 10.0



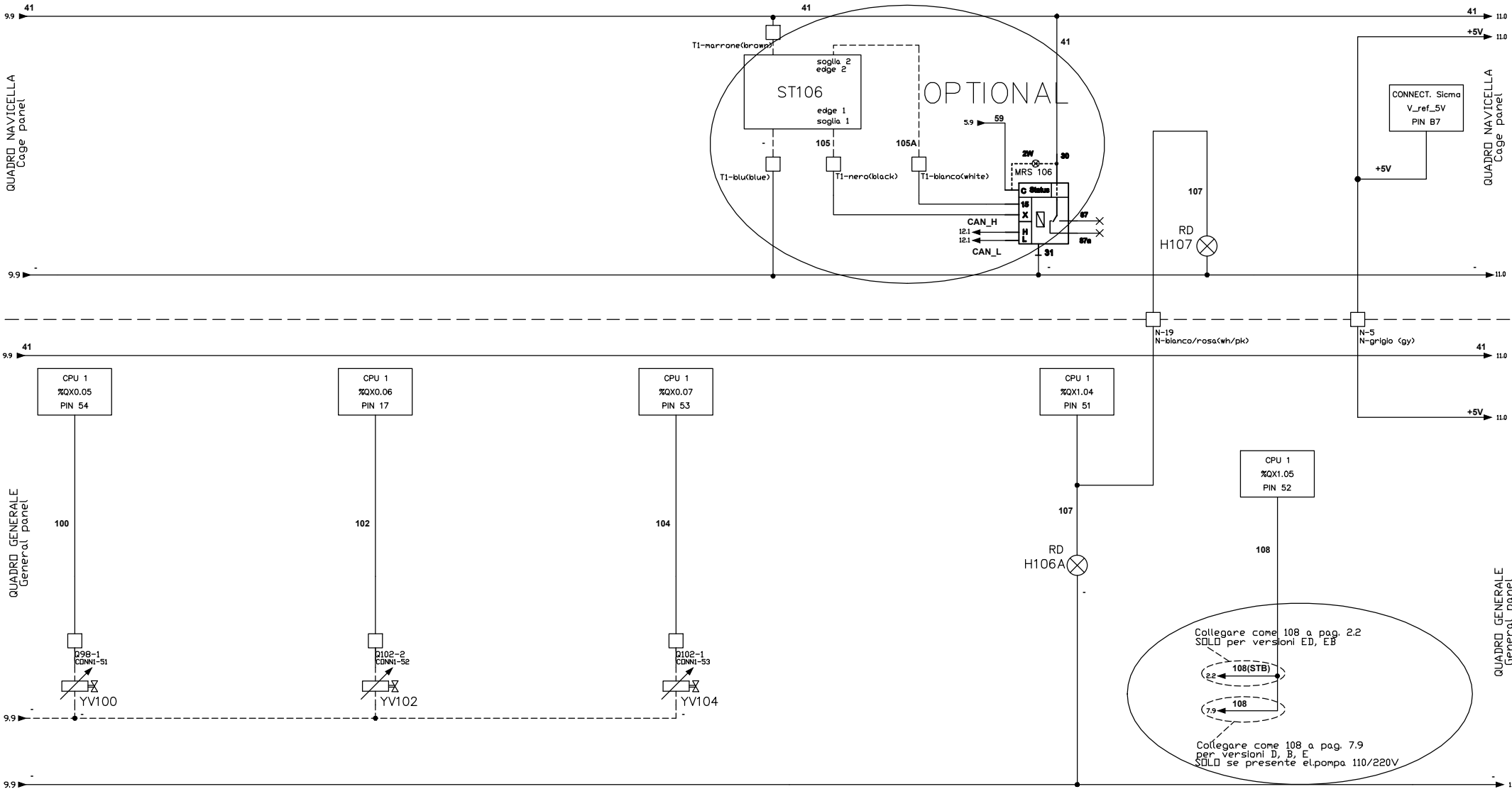
8.9 10.0

QUADRO GENERALE  
General panel

QUADRO GENERALE  
General panel

QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE  
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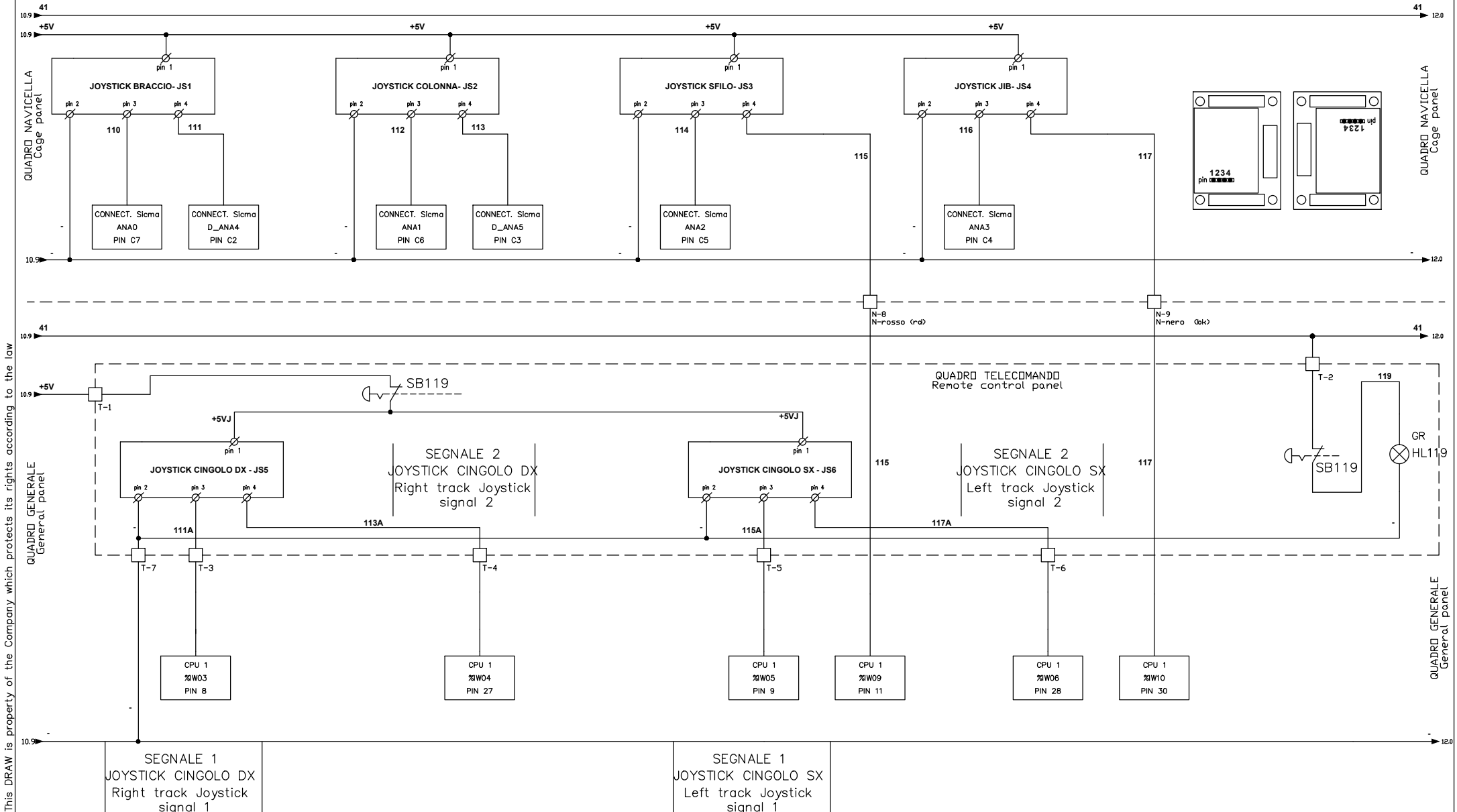
COMANDO PROPORZ. RIENTRO SFILO Extension-in proportional comm.		COMANDO PROPORZ. SALITA JIB Jib opening proportional comm.		COMANDO PROPORZ. DISCESA JIB Jib closing proportional comm.	SOGLIA TEMPERATURA -15°C -15°C Temperature sensor	SOGLIA TEMPERATURA -20°C -20°C Temperature sensor	SEGNAL. ANOMALIA Fault signal	COMANDO START MOT. 24V/MOT. 220V Start signal for 24V/220V el. motor	ALIMENTAT. PER JOYSTICK Joystick voltage feeding
0	1	2	3	4	5	6	7	8	9



QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE  
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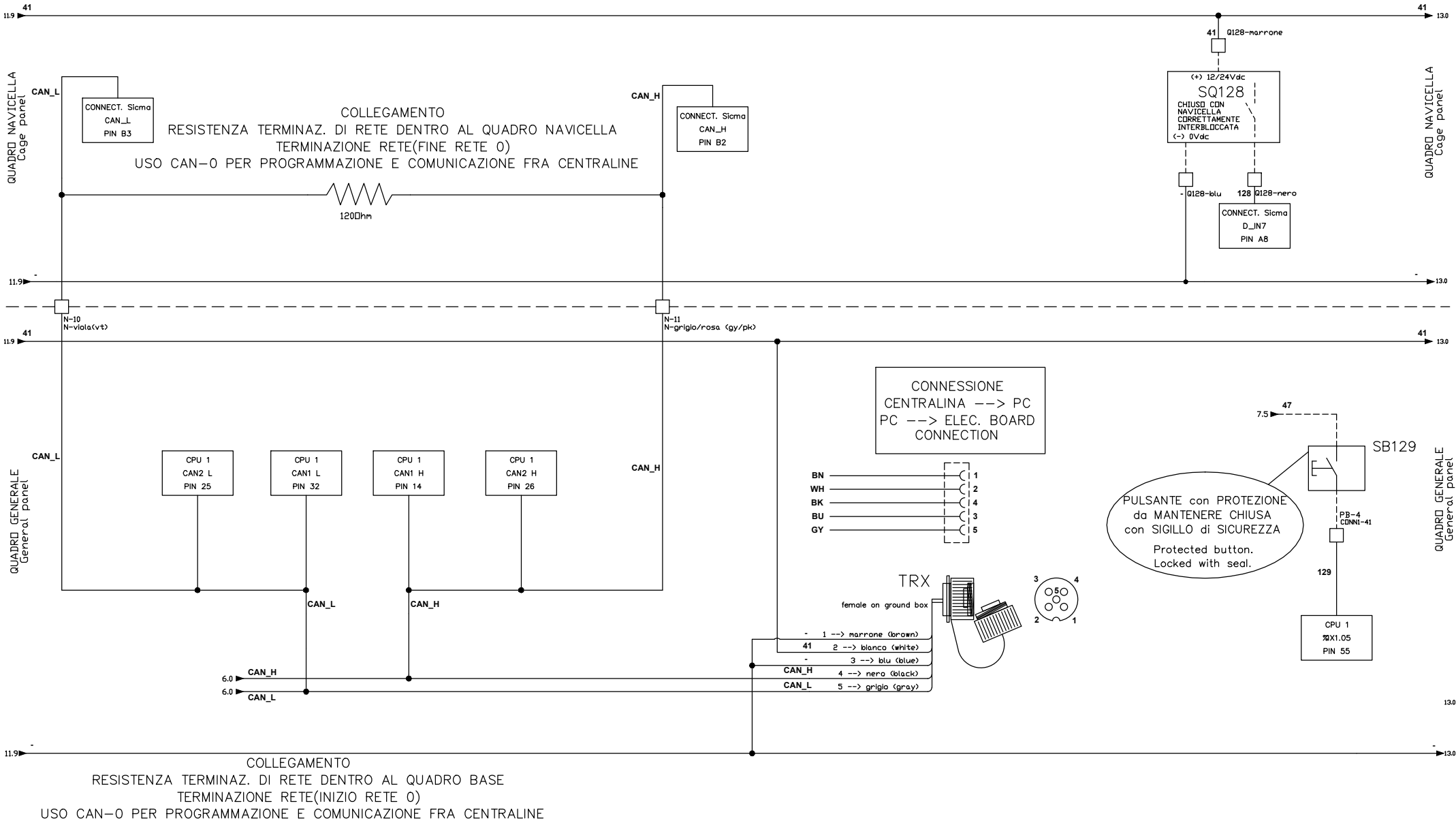


SEGNALE 1 JOYSTICK BRACCIO Boom Joystick signal 1	SEGNALE 2 JOYSTICK BRACCIO Boom Joystick signal 2	SEGNALE 1 JOYSTICK COLONNA Column Joystick signal 1	SEGNALE 2 JOYSTICK COLONNA Column Joystick signal 2	SEGNALE 1 JOYSTICK SFILO Extension Joystick signal 1	SEGNALE 1 JOYSTICK SFILO Extension Joystick signal 2	SEGNALE 1 JOYSTICK JIB Fly Jib Joystick signal 1	SEGNALE 2 JOYSTICK JIB Fly Jib Joystick signal 2	JOYSTICK VISTA CONNETTORE Connector view of the joysticks	EMERGENZA E SPIA TELECOMANDO Remote control lamp and emergency
0	1	2	3	4	5	6	7	8	9



QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE  
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LIVELLO BASSO CAN BUS				LIVELLO ALTO CAN BUS				INTERBLOCCO NAVICELLA Basket locked microswitch	BYPASS SOVRACCARICO (SOLO EMERGENZA) Overload bypass (Emergency rescue)
0	1	2	3	4	5	6	7	8	9



QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE  
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QUADRO NAVICELLA Cage panel  
 QUADRO NAVICELLA Cage panel  
 QUADRO GENERALE General panel  
 QUADRO GENERALE General panel

SEGNAL. VISIVA  
 MACCHINA OPERATIVA  
 Machine on  
 visual signal

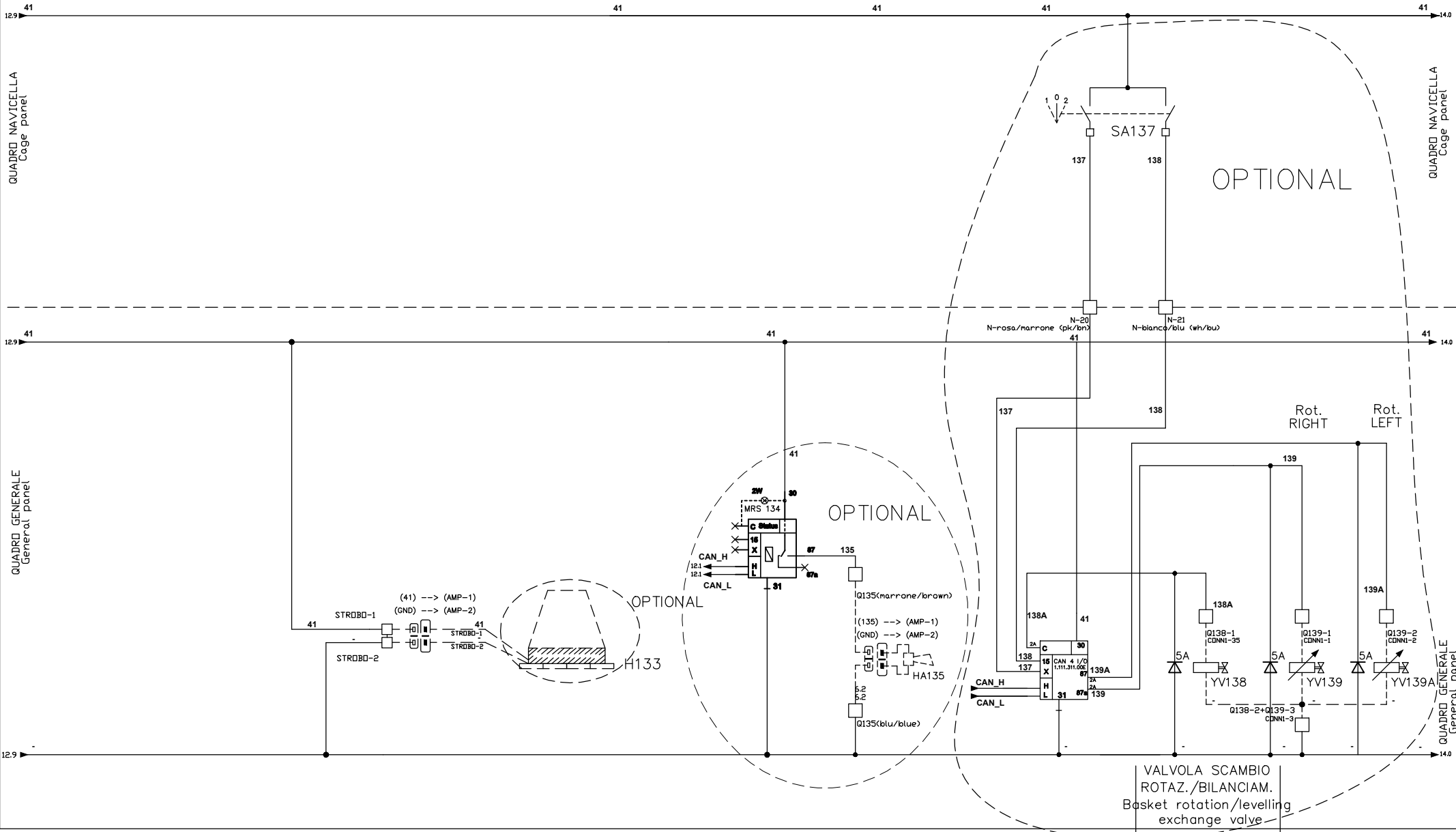
SEGNAL. ACUSTICA  
 MOVIMENTI  
 Movements  
 acoustic signal

SELETTORE ROT.  
 NAVICELLA  
 Switch for basket  
 rotation

VALVOLA ROT.  
 NAVICELLA DESTRA  
 Valves for basket  
 rotation right

VALVOLE ROT.  
 NAVICELLA SINISTRA  
 Valves for basket  
 rotation left

0 1 2 3 4 5 6 7 8 9



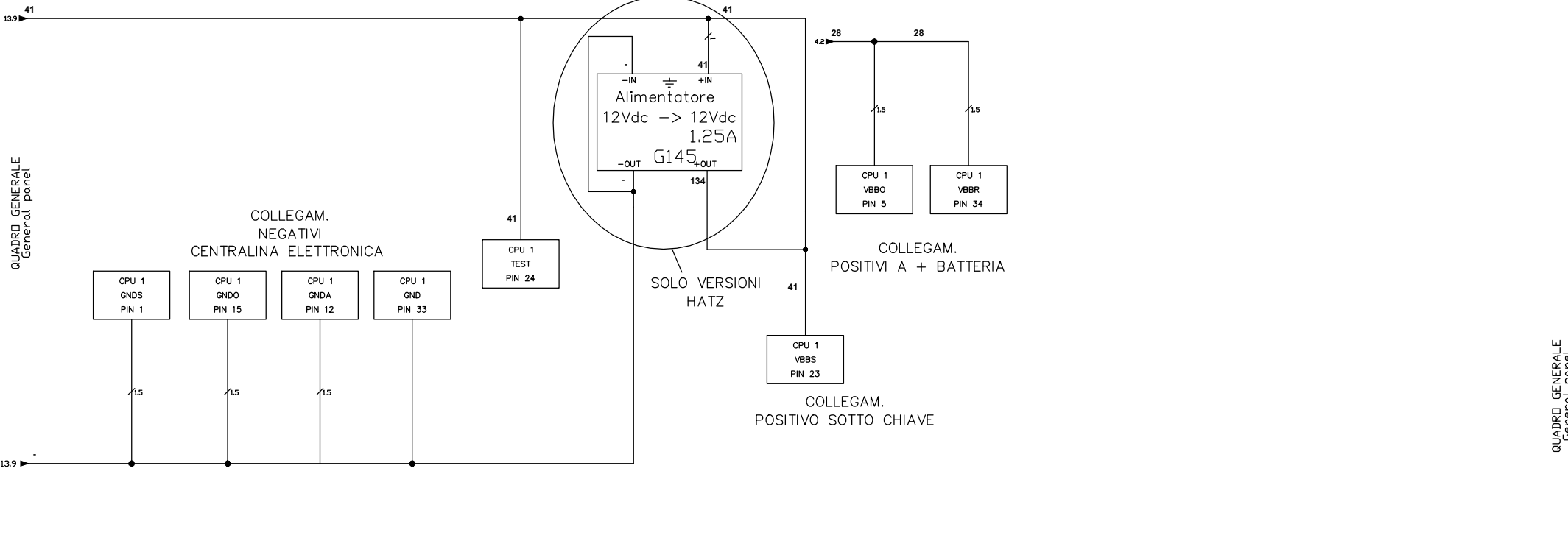
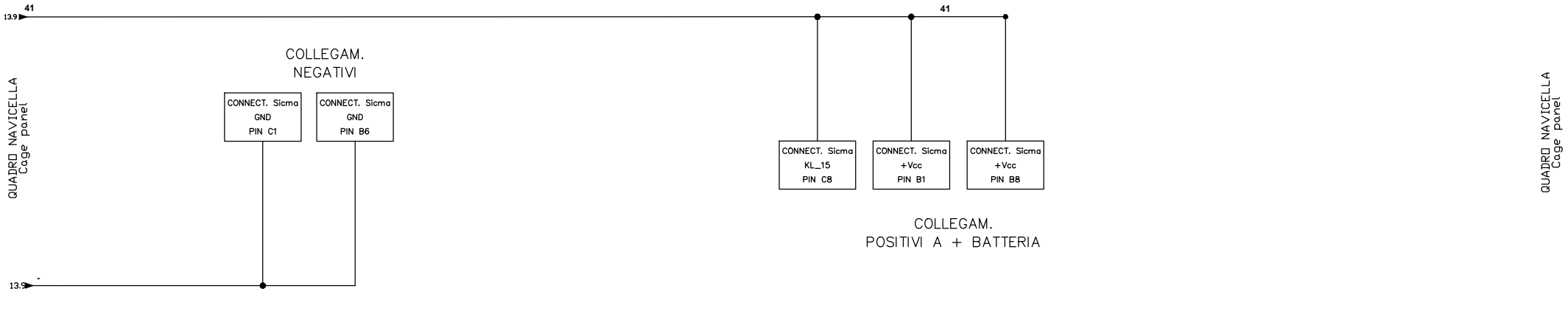
VALVOLA SCAMBIO  
 ROTAZ./BILANCIAM.  
 Basket rotation/levelling  
 exchange valve

QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA'  
 CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE  
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SELEZ. PROGRAMM.  
 o MODALITA' RUN  
 Run mode/  
 programming selection

ALIMENTAZIONE PER  
 LOGICA CENTRALINE  
 Electronic boards  
 logic voltage feeding

0	1	2	3	4	5	6	7	8	9
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QUESTO DISEGNO E' PROPRIETA' DELLA NOSTRA SOCIETA' CHE TUTELERA' I PROPRI DIRITTI A TERMINI DI LEGGE  
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QUADRO NAVICELLA  
Cage panel

QUADRO GENERALE  
General panel

SPIDER 1365-1380	IMPIANTO ELETTRICO	487.90.625.02		15
MACCHINA Machine	COMPONENTE Component			
D-B-E-ED-EB (all versions)	M.B.			
MODELLO Model	DISEGNATORE Draftsman	NUMERO DISEGNO Drawing number	REVISIONE Review	PAGINA Page

## LEGENDA COMPONENTI Components legend

0	1	2	3	4	5	6	7	8	9
---	---	---	---	---	---	---	---	---	---

- SB40 => Emergency push-button (cage position)
- SB40A => Emergency push-button (ground position)
- SA40 => General Key
- SB44 => "Man Present" pushbutton or pedalswitch (OPTIONAL)
- SQ45 => Proximity switch (1) for Jib and boom extension fully closed
- SQ46 => Proximity switch (2) for Jib and boom extension fully closed
- SP55 => Boom load cell (doubled inside)
- SQ128 => Microswitch for cage pin (correctly fixed and blocked)
- SQ60 => Pressure sensor (only with iGX390)
- SQ50 => Microswitch stabilizer 1 "on ground"
- SQ51 => Microswitch stabilizer 2 "on ground"
- SQ52 => Microswitch stabilizer 3 "on ground"
- SQ53 => Microswitch stabilizer 4 "on ground"
- SQ54 => Microswitch column centered
- SQ66 => Display (Ground panel)
- SQ62 => Planarity sensor (chassis level)
- SQ63 => Upper boom angle sensor (doubled inside)
- SB54 => Anti-collision system (OPTIONAL)
- ST106 => External temperature sensor (OPTIONAL)
- SB129 => Emergency Rescue button
- KM79 => Main contactor for 230V electric motor

### HOW TO FIND COMPONENTS IN THE SCHEMATICS

Example:

