

SPAC

AUTOMAZIONE

SAMPLE SCHEMES *SCHEMI DI ESEMPIO*

 **SDPROGET**
INDUSTRIAL SOFTWARE

Via delle Industrie, 8 10040 Almese (TO) - Italia
Tel. 011 9346666
sdproget@sdproget.it
www.sdproget.it

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This document is for illustration purposes only, scheme inconsistencies are not to be considered as mistakes.

Voltages used in the wiring diagram

Graphics	Voltage	Type
24V DC (L+)	24V DC (L+)	L+ DC, Positive
24V DC (M)	24V DC (M)	M DC, median conductor (0V)
110V AC (L)	110V AC (L)	L AC
110V AC (N)	110V AC (N)	N Neutral
230V AC (L)	230V AC (L)	L AC
230V AC (N)	230V AC (N)	N Neutral
400V AC	400V AC	L AC
Ethernet	Ethernet	BUS Communication / BUS
PE	PE	PE Protective conductor

Panels List / Elenco Quadri

Panel / Quadro	Description / Descrizione
+QG	Main Panel
+BM	On Board Panel
+P1	Control Panel
+QP	Pneumatic Panel

Terminals Streep and Connectors List / Elenco Morsettiere e Connettori

Panel	Name	Description
+QG	-XG	Main Panel Terminal Strip
+BM	-XBM	On Board Signals Terminal Strip
+BM	-XM1	Pincers Motor Terminal Strip
+BM	-XM2	Carriage Motor Terminal Strip
+BM	-XM3	Rolls Motor Terminal Strip
+P1	XCn1	Control Panel - Connector 1
+P1	XCn1.	Control Panel - Connector 1
+P1	XCnP1/a	Control Panel - mod.r connector (a)
+P1	XCnP1/b-c	Control Panel - mod.r connector (bc)
+P1	XCnP1/d	Control Panel - mod.r connector (d)

DESIGN	OPERATING 400 VAC 50 Hz VOLTAGE	STANDARDS IEC	PROTECTIONS
SERIES	COMMAND 110 VAC 50 Hz VOLTAGE 24 VDC	DESIGNATIONS	+QG / +BM / +P1
JOB ORDER	SPAC EXAMPLE 2021	SIGNAL 24 VDC VOLTAGE	
BUYER			Example SPAC Automazione
			Download the free <i>QRSpac</i> app to view the example diagram
	DATE	SIGNATURES	
	DRAW 15/07/2021	C.M.	
	CHECK 15/07/2021	S.F.	
	APPROV. 15/07/2021	S.A.	
			The <i>QRSpac</i> App is available for iOS and Android
			SDProget Industrial Software S.r.l. Via delle Industrie, 8 - 10040 Almese (TO) Italy Tel. +39 011 9346666 - Fax +39 011 9351193

REV.	MODIFICATION	DATE	SIGN.	REPL. BY	REPL.	FILE : ELECTRICAL DIAGRAM
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			PROJECT	SPAC EXAMPLE 2021		DATE	13/07/2021	DOCUMENT	Electric Diagram			
				SPAC Automazione Example		DOC.Nr.			Project Information		Sheet	Next Sheet
			SDProget Industrial Software www.sdproget.it			FILE	ELECTRICAL DIAGRAM	Dati progetto			01	02
REV.	MODIFY	DATE	Signature			DRAFT.	M.C.					
						APPR.						

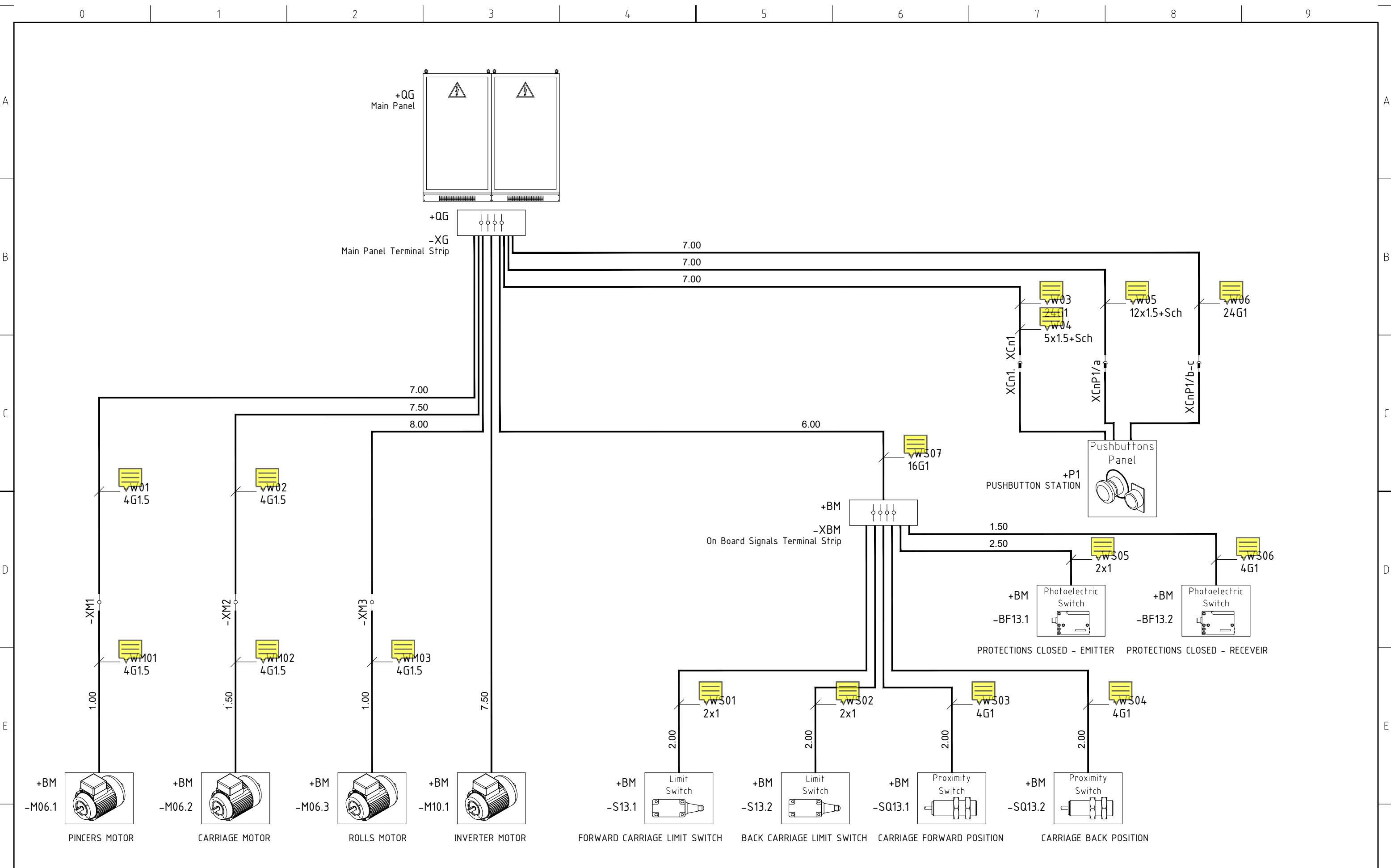
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PROGETTO
BANCA DIS.
TIPICO

INDEX - SHEETS LIST

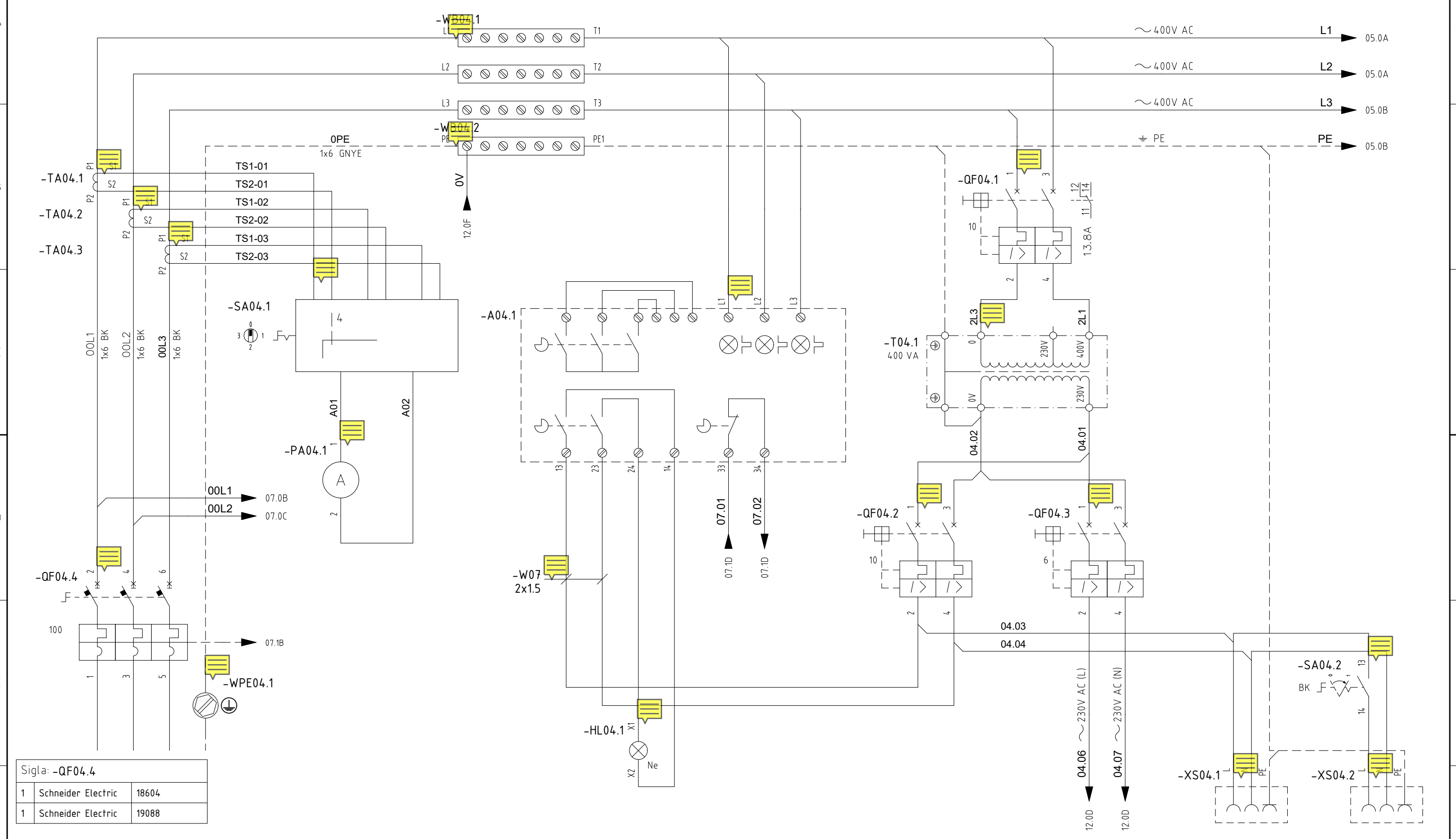
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12	PLC Synoptic / Sinottico PLC	X									40	+P1 Panel Bill of Materials / Distinta Materiali quadro +P1	X														
13	PLC Input / Ingressi PLC	X									41	+P1 Panel Bill of Materials / Distinta Materiali quadro +P1	X														
14	PLC Input / Ingressi PLC	X									42	+BM Panel Bill of Materials / Distinta Materiali quadro +BM	X														
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16	PLC Output / Uscite PLC	X									44	Functions List / Legenda Funzioni	X														
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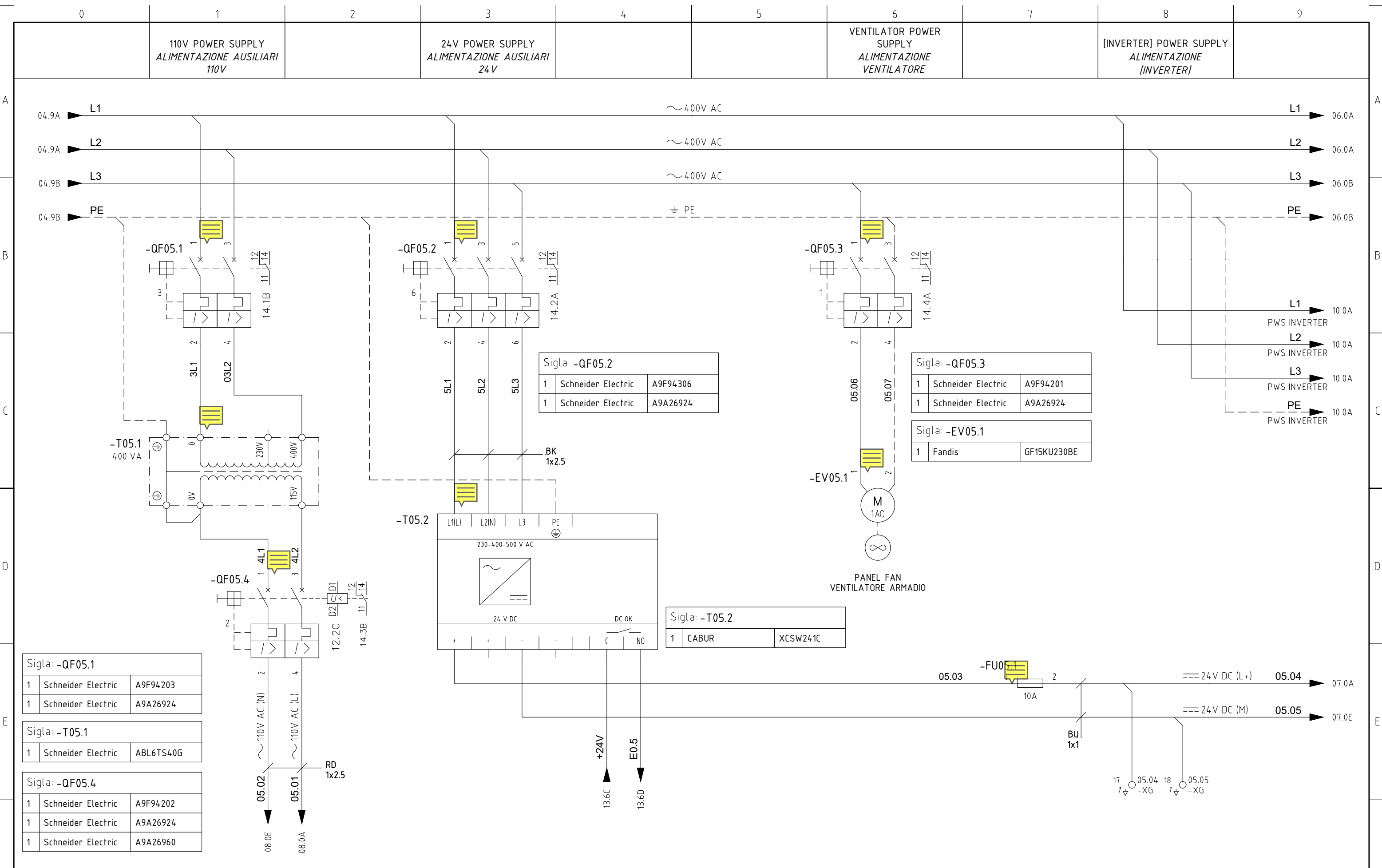
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SDProget Industrial Software www.sdproget.it				DOC.Nr.		Plant Diagram		Sheet	
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				DRAFT. M.C.		Plant Diagram		03 04	
				APPR.					

0	1	2	3	4	5	6	7	8	9
POWER SUPPLY 400 VAC 50 HZ ALIMENTAZIONE 400 VAC 50 HZ	MAIN DISCONNECTOR INTERRUTTORE GENERALE	AMMETER SELECTOR SWITCH COMMUTATORE AMPEROMETRICO	[L1 / L2 / L3 / PE] DISTRIBUTION DISTRIBUZIONE [L1 / L2 / L3 / PE]	LIGHTING BOARD ILLUMINAZIONE INTERNO QUADRO	[1] LIGHTING DEVICE DISPOSITIVO LAMPEGGIANTE [1]		PLC POWER SUPPLY ALIMENTAZIONE PLC	SERVICE SOCKET PRESA DI SERVIZIO	SERVICE SOCKET PRESA DI SERVIZIO



Sigla: -QF04.4		
1	Schneider Electric	18604
1	Schneider Electric	19088

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						SDProget Industrial Software www.sdproget.it	DOC.Nr.		Main Power Supply		04	05
							FILE	ELECTRICAL DIAGRAM	Alimentazione generale			
							DRAFT.	M.C.				
							APPR.					



Sigla: -QF05.1		
1	Schneider Electric	A9F94203
1	Schneider Electric	A9A26924

Sigla: -T05.1		
1	Schneider Electric	ABL6TS40G

Sigla: -QF05.4		
1	Schneider Electric	A9F94202
1	Schneider Electric	A9A26924
1	Schneider Electric	A9A26960

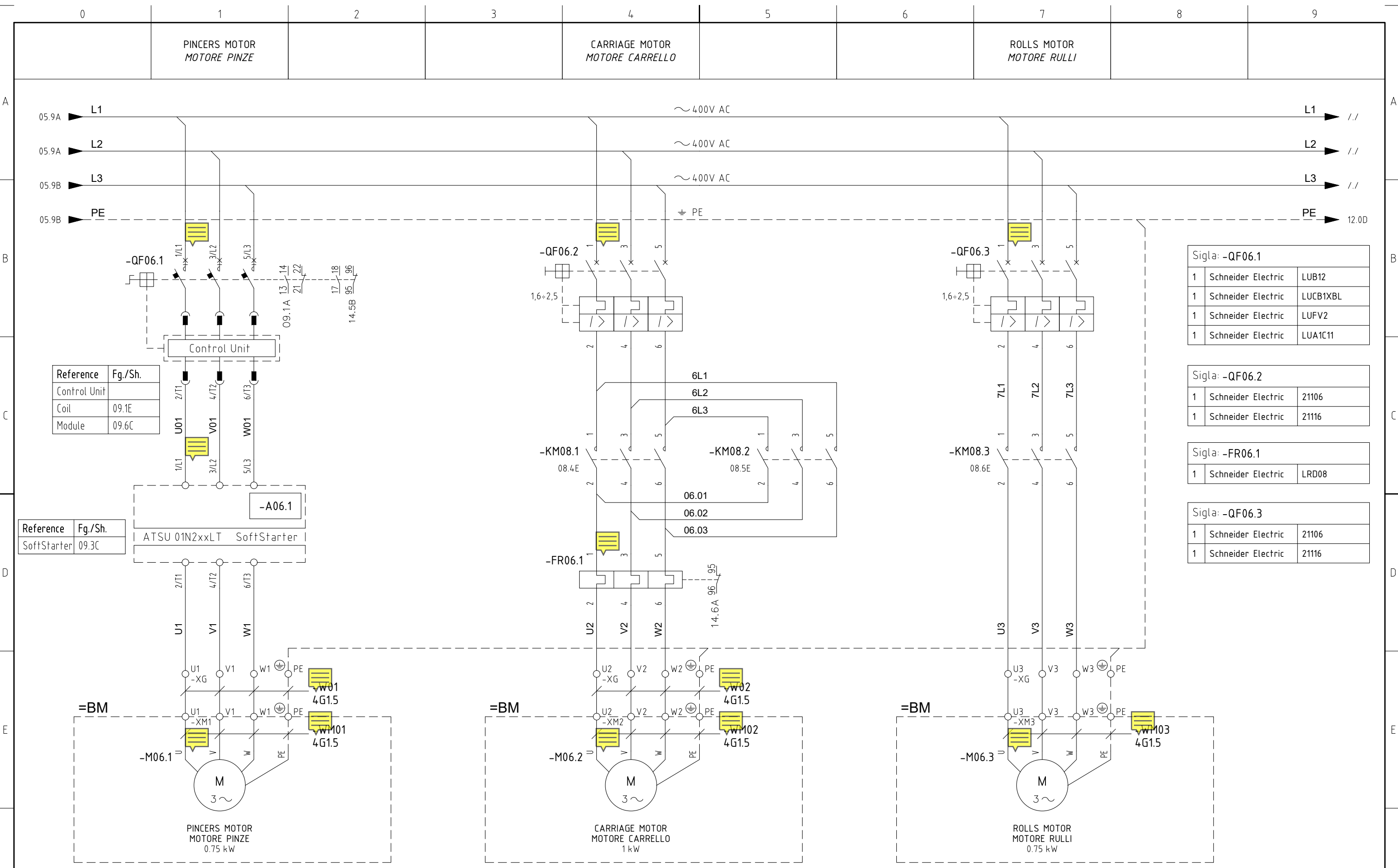
Sigla: -QF05.2		
1	Schneider Electric	A9F94306
1	Schneider Electric	A9A26924

Sigla: -QF05.3		
1	Schneider Electric	A9F94201
1	Schneider Electric	A9A26924

Sigla: -EV05.1		
1	Fandis	GF15KU230BE

Sigla: -T05.2		
1	CABUR	XCSW241C

PROJECT		SPAC EXAMPLE 2021 SPAC Automazione Example		DATE 13/07/2021		DOCUMENT Electric Diagram	
REV.		MODIFY		DOC.Nr.		Auxiliary Supplies	
DATE		Signature		FILE ELECTRICAL DIAGRAM		Alimentazioni ausiliarie	
		SDProget Industrial Software www.sdproget.it		DRAFT. M.C.		Sheet 05	
				APPR.		Next Sheet 06	



Reference	Fg./Sh.
Control Unit	
Coil	09.1E
Module	09.6C

Reference	Fg./Sh.
SoftStarter	09.3C

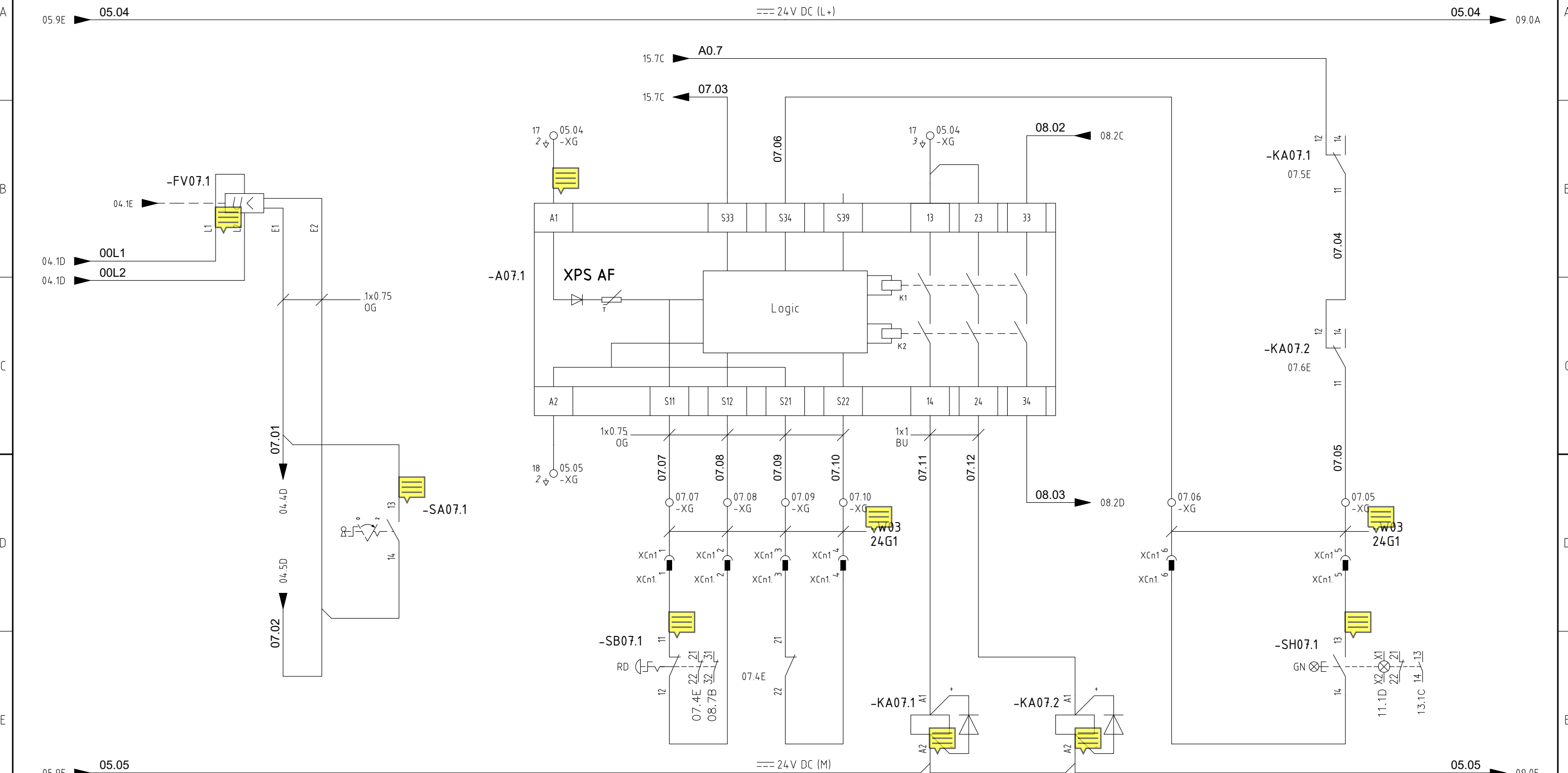
Sigla: -QF06.1		
1	Schneider Electric	LUB12
1	Schneider Electric	LUCB1XBL
1	Schneider Electric	LUFV2
1	Schneider Electric	LUA1C11

Sigla: -QF06.2		
1	Schneider Electric	21106
1	Schneider Electric	21116

Sigla: -FR06.1		
1	Schneider Electric	LRD08

Sigla: -QF06.3		
1	Schneider Electric	21106
1	Schneider Electric	21116

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SDProget Industrial Software www.sdproget.it		DOC.Nr.	Motors Motori		
REV.	MODIFY	DATE	Signature		
0					
1					



Sigla: -SB07.1

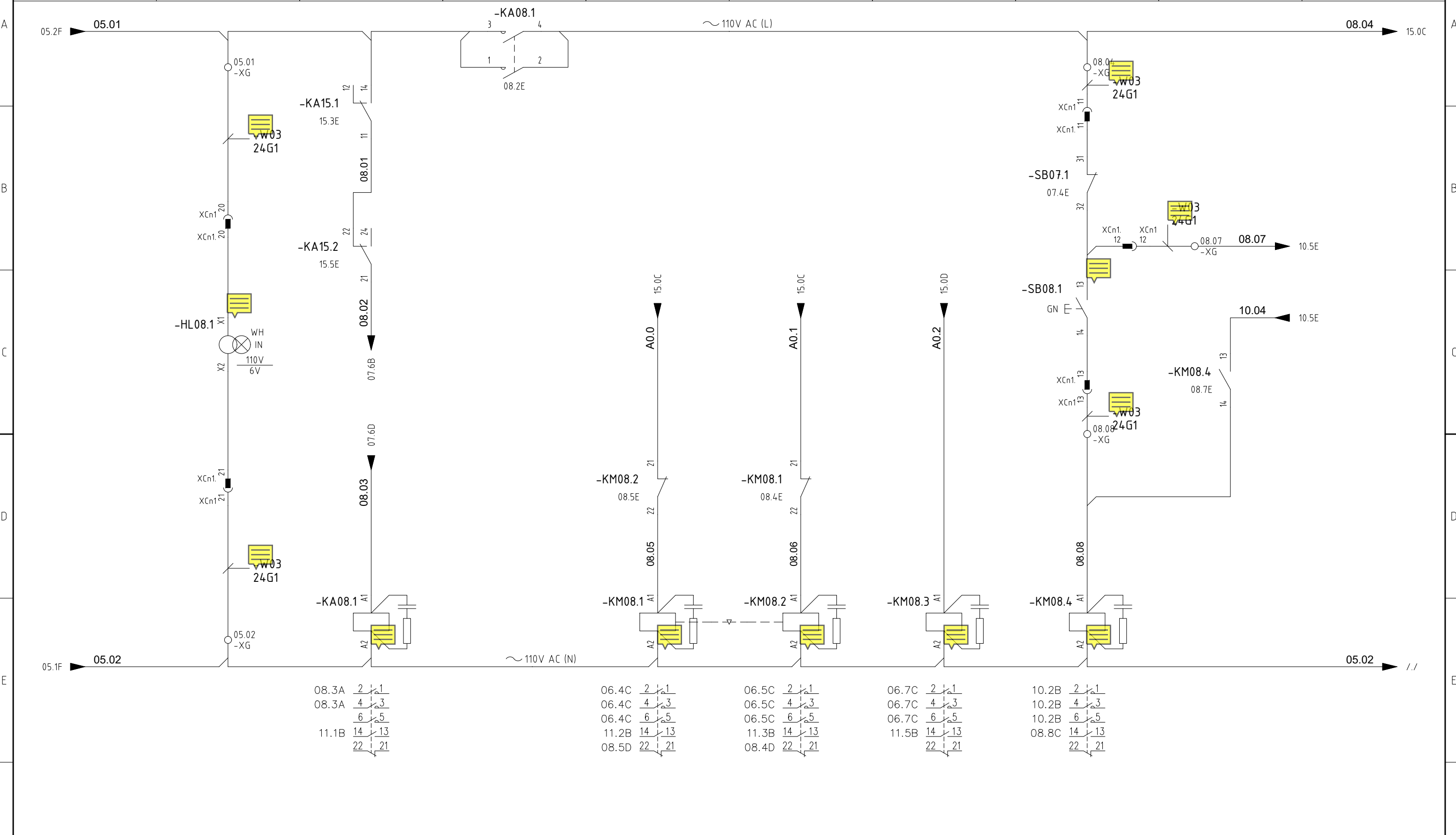
1	Schneider Electric	XB5AS8442
1	Schneider Electric	ZBE504
1	Schneider Electric	ZBY9630

07.8B	11-12 14-22 21-24
07.8C	11-12 14-22 21-24

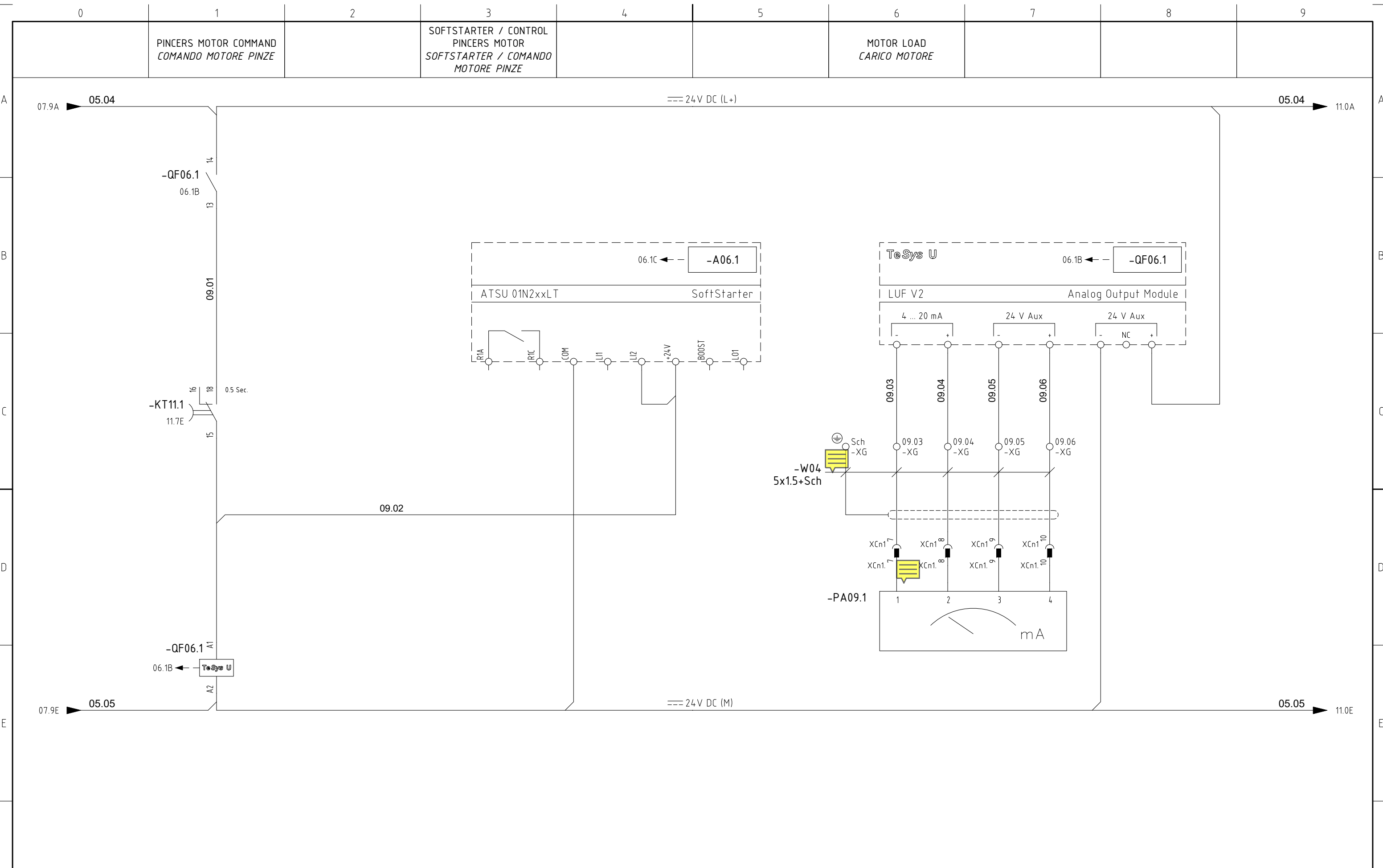
Sigla: -SH07.1

1	Schneider Electric	XB5AW33B5
1	Schneider Electric	ZBY2603
1	Schneider Electric	ZBE101

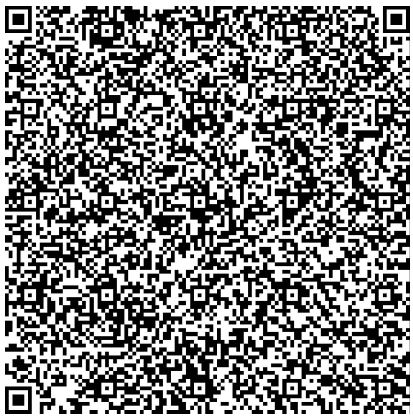
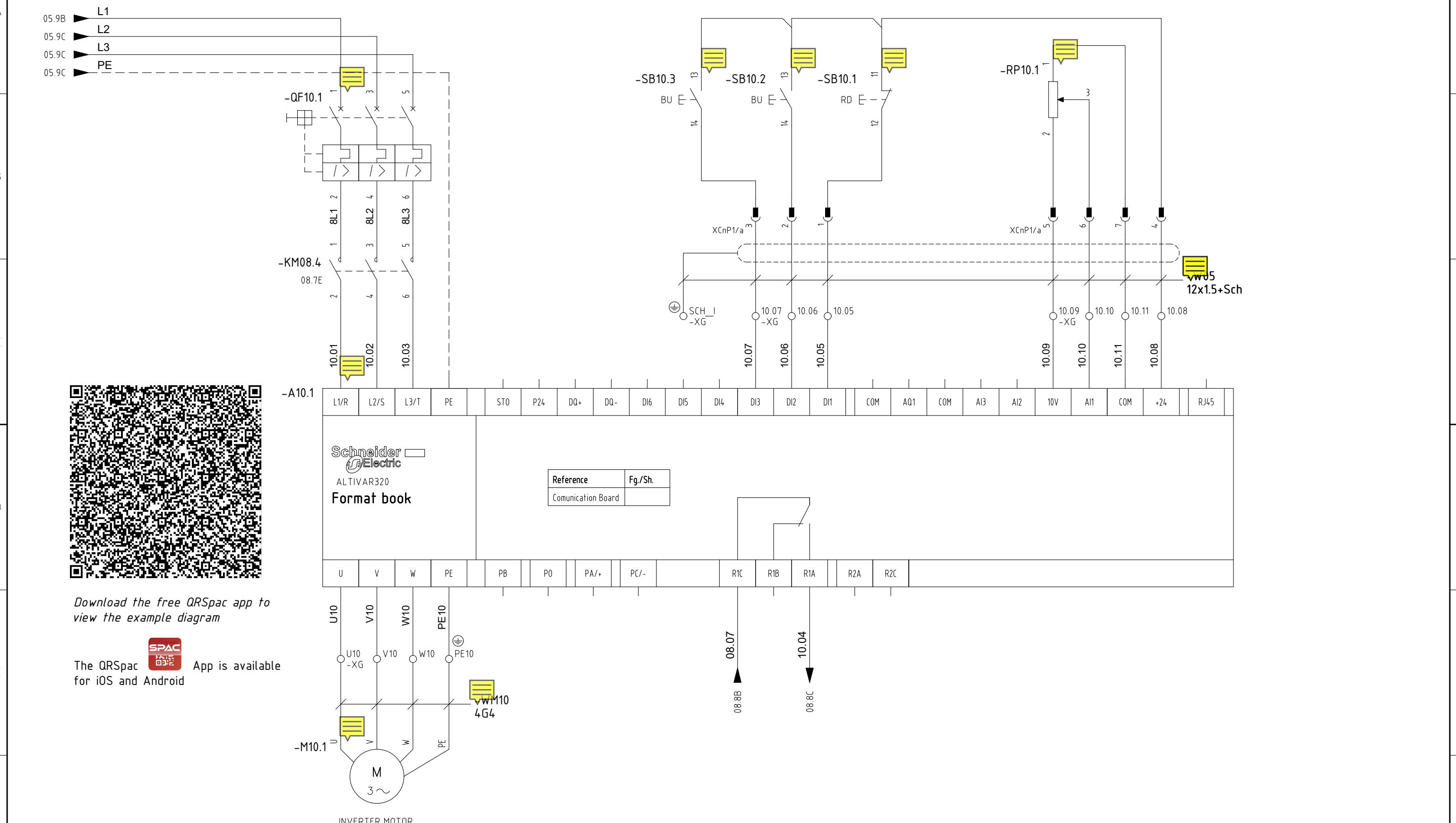
0	1	2	3	4	5	6	7	8	9
	[110 VAC] AUXILIARY CIRCUIT POWER SUPPLY <i>ALIMENTAZIONE AUSILIARI [110 VAC]</i>	ON <i>MARCIA</i>		CARRIAGE MOTOR FORWARDS <i>COMANDO CARRELLO AVANTI</i>	CARRIAGE MOTOR BACKWARDS <i>MOTORE CARRELLO INDIETRO</i>	ROOLS MOTOR COMMAND <i>COMANDO MOTORE RULLI</i>	INVERTER COMMAD <i>COMANDO VARIATORE DI VELOCITA'</i>		




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				DOC.Nr.					
SDProget Industrial Software www.sdproget.it				FILE ELECTRICAL DIAGRAM		Auxiliary 110 VAC <i>Ausiliari 110 VAC</i>		08 09	
				DRAFT. M.C.					
				APPR.					
REV.	MODIFY	DATE	Signature						



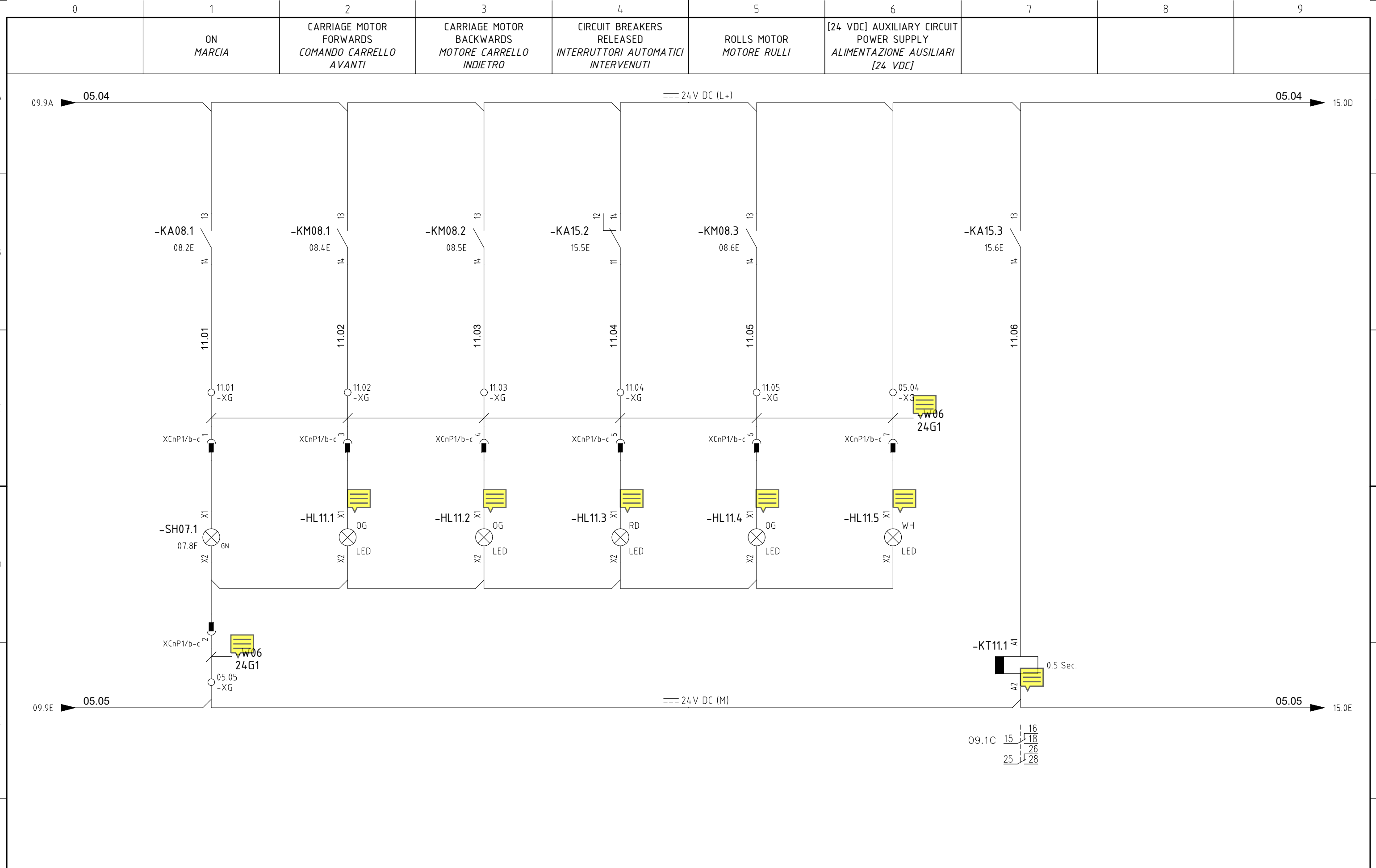
				PROJECT SPAC EXAMPLE 2021 SPAC Automazione Example		DATE 13/07/2021		DOCUMENT Electric Diagram			
				SDProget Industrial Software www.sdproget.it		DOC.Nr.		Tesys-U Command		Sheet	
						FILE ELECTRICAL DIAGRAM		Comandi Tesys-U		Next Sheet	
						DRAFT. M.C.				09	
						APPR.				10	
REV.	MODIFY	DATE	Signature								



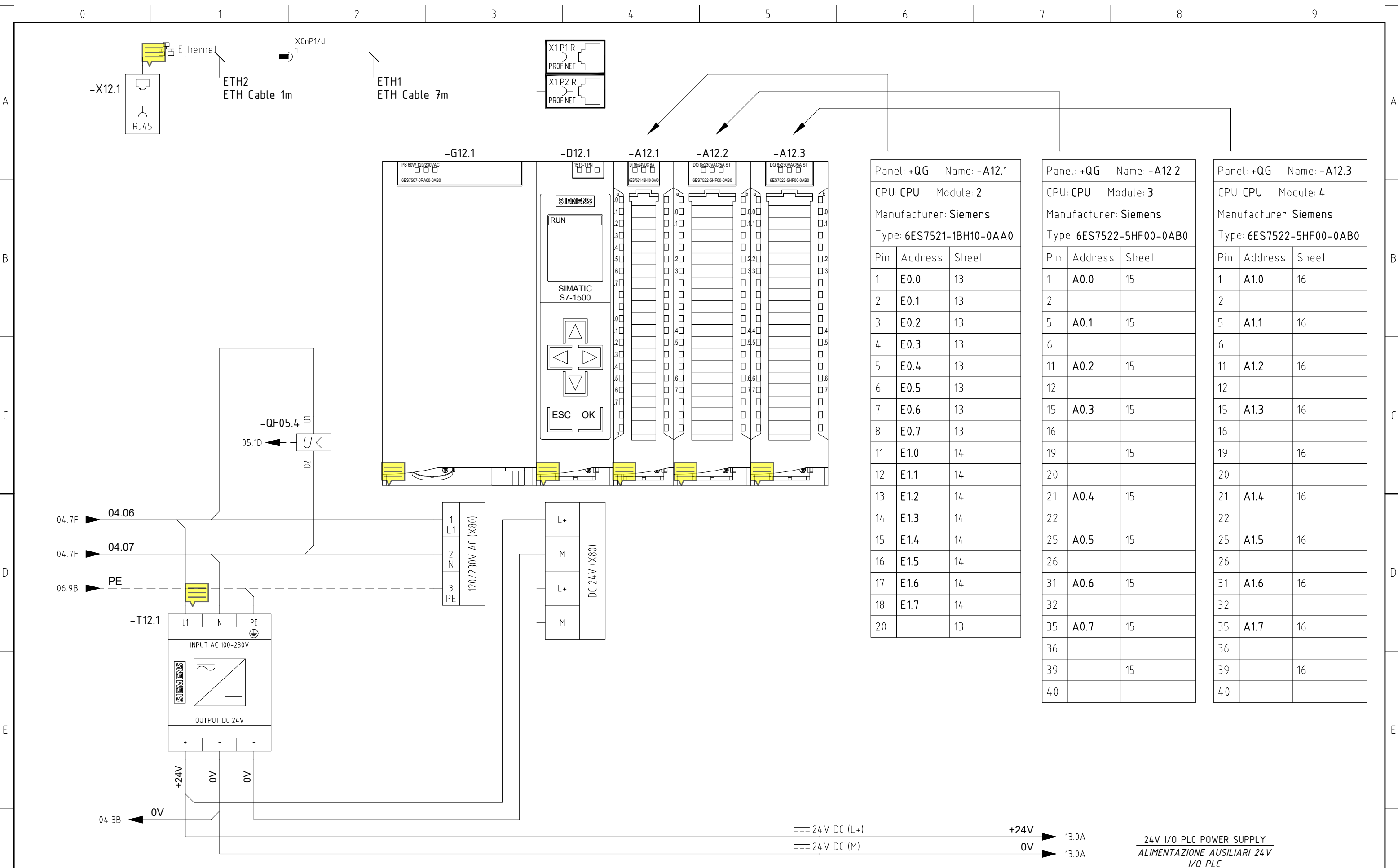
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PROJECT SPAC EXAMPLE 2021 SPAC Automazione Example				DATE 13/07/2021		DOCUMENT Electric Diagram			
SDProget Industrial Software www.sdproget.it				DOC.Nr.		Inverter		Sheet	
02 Inverter Replacement 01/10/19 CM				FILE ELECTRICAL DIAGRAM		Variatore di velocità		Next Sheet	
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				PROJECT	SPAC EXAMPLE 2021 SPAC Automazione Example	DATE	13/07/2021	DOCUMENT	Electric Diagram		
				SDProget Industrial Software www.sdproget.it		DOC.Nr.		Auxiliary 24 VDC Ausiliari 24 VDC		Sheet	Next Sheet
01	PLC Replacement	30/09/19	CM			FILE	ELECTRICAL DIAGRAM			11	12
REV.	MODIFY	DATE	Signature			APP.					



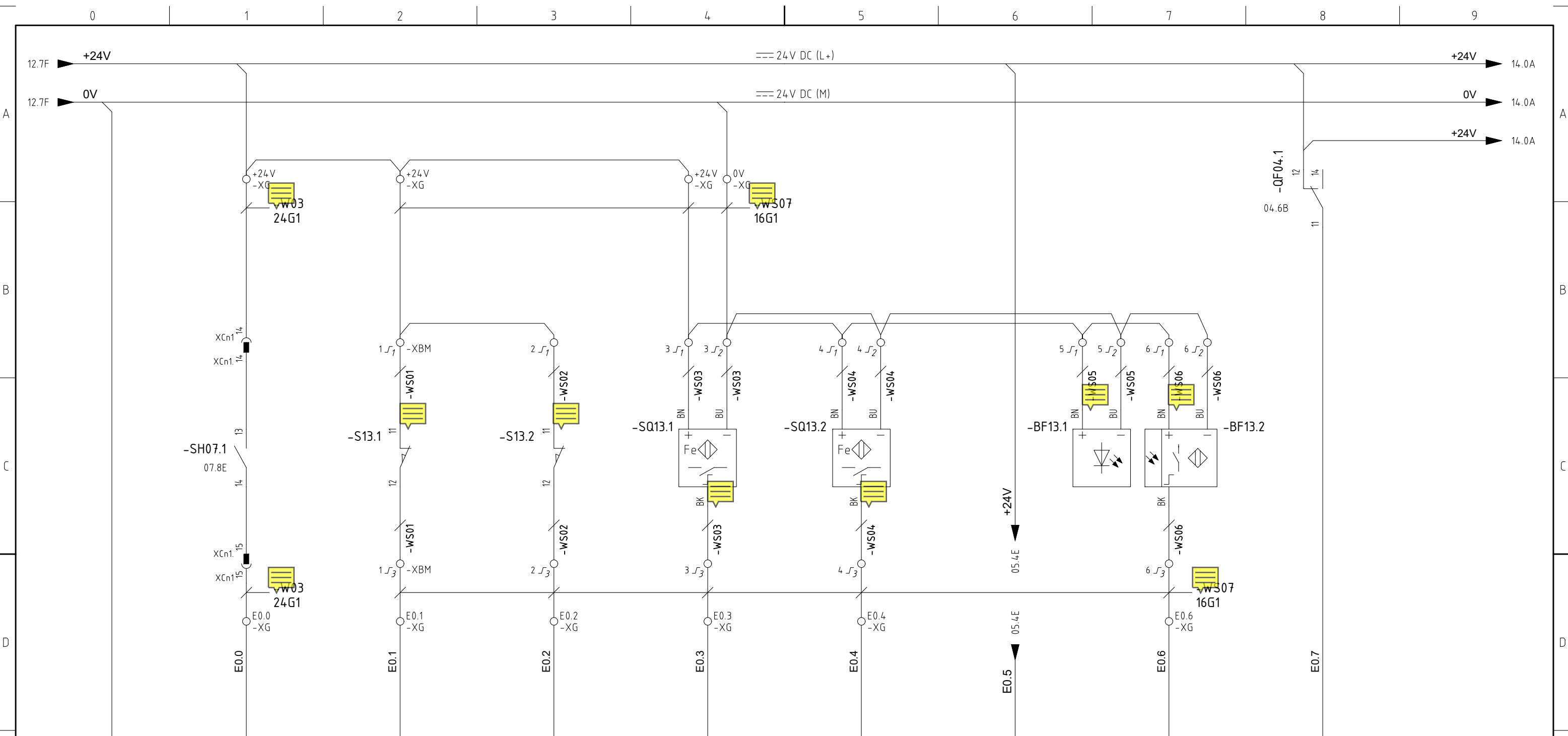
Panel: +QG Name: -A12.1		
CPU: CPU Module: 2		
Manufacturer: Siemens		
Type: 6ES7521-1BH10-0AA0		
Pin	Address	Sheet
1	E0.0	13
2	E0.1	13
3	E0.2	13
4	E0.3	13
5	E0.4	13
6	E0.5	13
7	E0.6	13
8	E0.7	13
11	E1.0	14
12	E1.1	14
13	E1.2	14
14	E1.3	14
15	E1.4	14
16	E1.5	14
17	E1.6	14
18	E1.7	14
20		13

Panel: +QG Name: -A12.2		
CPU: CPU Module: 3		
Manufacturer: Siemens		
Type: 6ES7522-5HF00-0AB0		
Pin	Address	Sheet
1	A0.0	15
2		
5	A0.1	15
6		
11	A0.2	15
12		
15	A0.3	15
16		
19		15
20		
21	A0.4	15
22		
25	A0.5	15
26		
31	A0.6	15
32		
35	A0.7	15
36		
39		15
40		

Panel: +QG Name: -A12.3		
CPU: CPU Module: 4		
Manufacturer: Siemens		
Type: 6ES7522-5HF00-0AB0		
Pin	Address	Sheet
1	A1.0	16
2		
5	A1.1	16
6		
11	A1.2	16
12		
15	A1.3	16
16		
19		16
20		
21	A1.4	16
22		
25	A1.5	16
26		
31	A1.6	16
32		
35	A1.7	16
36		
39		16
40		

24V I/O PLC POWER SUPPLY
ALIMENTAZIONE AUSILIARI 24V
I/O PLC

PROJECT SPAC EXAMPLE 2021 SPAC Automazione Example				DATE 13/07/2021		DOCUMENT Electric Diagram			
SDProget Industrial Software www.sdproget.it				DOC.Nr.		PLC Synoptic		Sheet	
01 PLC Replacement 30/09/19 CM				FILE ELECTRICAL DIAGRAM		Sinottico PLC		Next Sheet	
REV. MODIFY DATE Signature				DRAFT. M.C.				12 13	
				APPR.					



20
CPU CPU MOD. 2
Name: -A12.1 Sheet: 12.4C

E0.0
CPU CPU MOD. 2
Name: -A12.1 Sheet: 12.4C
START PUSHBUTTON
PULSANTE MARCIA

E0.1
CPU CPU MOD. 2
Name: -A12.1 Sheet: 12.4C
FORWARD CARRIAGE LIMIT SWITCH
FINECORSA CARRELLO AVANTI

E0.2
CPU CPU MOD. 2
Name: -A12.1 Sheet: 12.4C
BACK CARRIAGE LIMIT SWITCH
FINECORSA CARRELLO INDIETRO

E0.3
CPU CPU MOD. 2
Name: -A12.1 Sheet: 12.4C
CARRIAGE FORWARD POSITION
CARRELLO POSIZIONE AVANTI

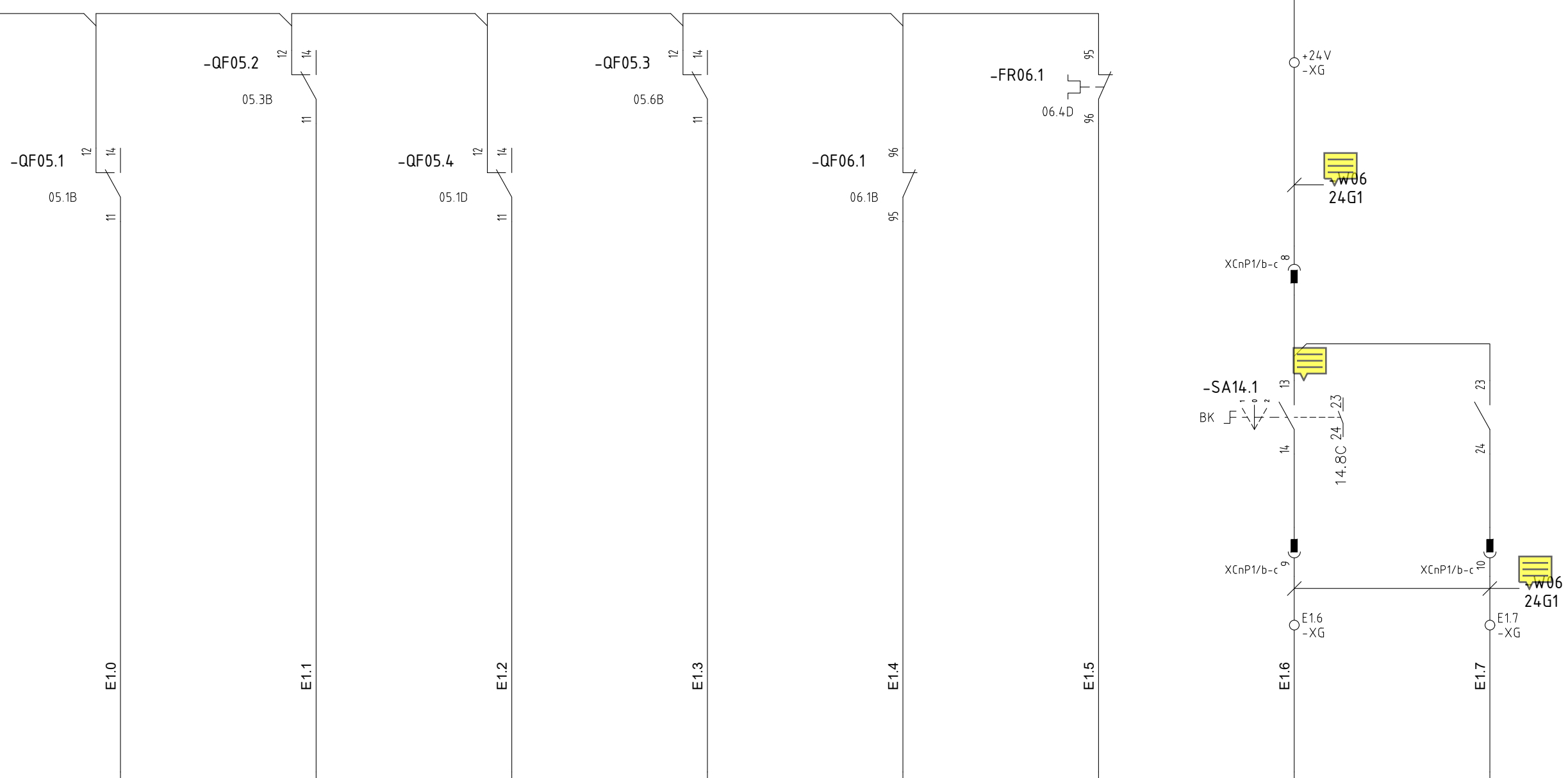
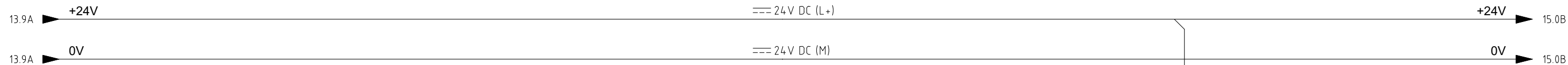
E0.4
CPU CPU MOD. 2
Name: -A12.1 Sheet: 12.4C
CARRIAGE BACK POSITION
CARRELLO POSIZIONE INDIETRO

E0.5
CPU CPU MOD. 2
Name: -A12.1 Sheet: 12.4C
AUXILIARY 24 VDC POWER SUPPLY OK
ALIMENTAZIONE 24 VDC AUSILIARI OK

E0.6
CPU CPU MOD. 2
Name: -A12.1 Sheet: 12.4C
PROTECTIONS CLOSED
PROTEZIONI CHIUSE

E0.7
CPU CPU MOD. 2
Name: -A12.1 Sheet: 12.4C
CIRCUIT BREAKER TRANSFORMER 380V / 220V
INT. TRASFORMATORE 380V / 220V

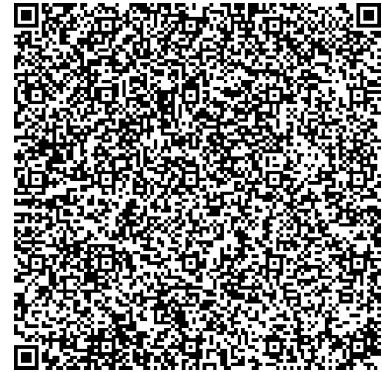
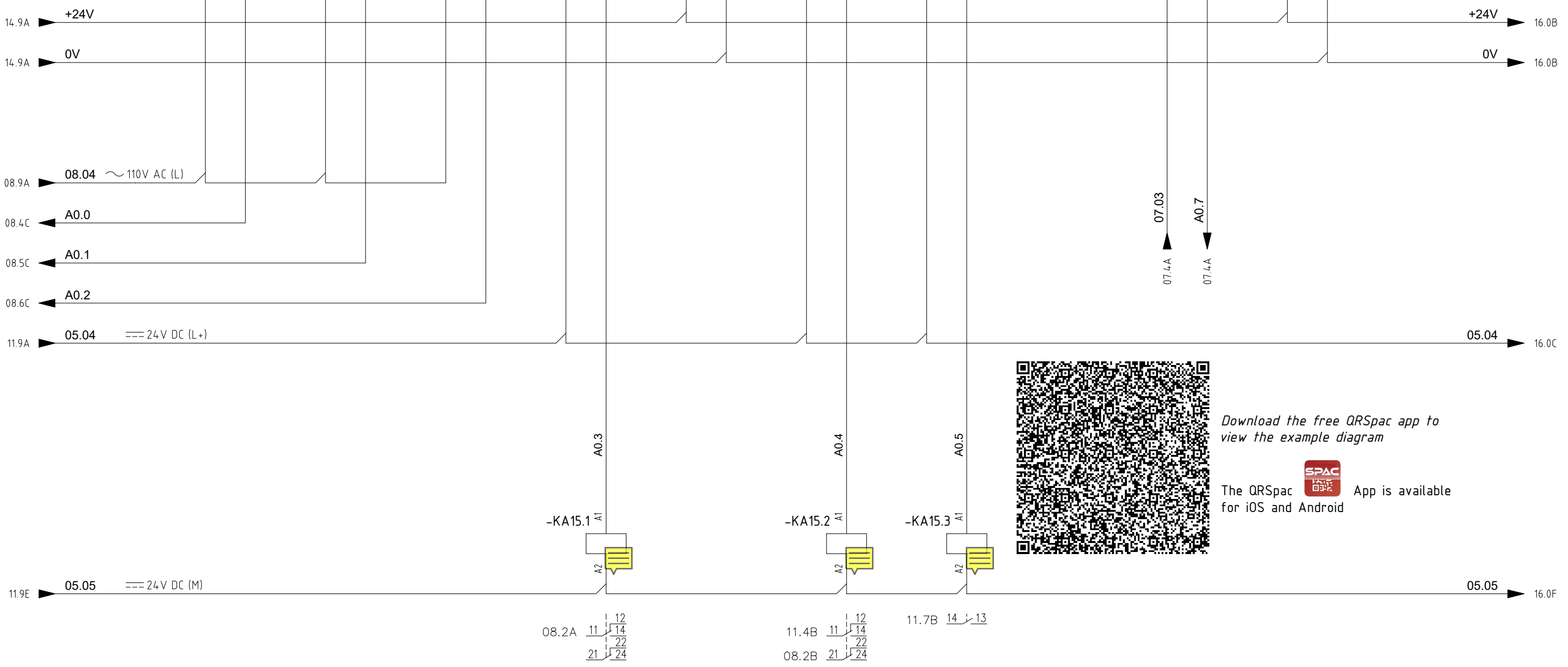
PROJECT SPAC EXAMPLE 2021 SPAC Automazione Example				DATE 13/07/2021		DOCUMENT Electric Diagram			
SDProget Industrial Software www.sdproget.it				DOC.Nr.		PLC Input		Sheet	
01 PLC Replacement 30/09/19 CM				FILE ELECTRICAL DIAGRAM		Ingressi PLC		Next Sheet	
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				APPR.					



11	12	13	14	15	16	17	18
E1.0	E1.1	E1.2	E1.3	E1.4	E1.5	E1.6	E1.7
CPU CPU MOD. 2	CPU CPU MOD. 2	CPU CPU MOD. 2	CPU CPU MOD. 2	CPU CPU MOD. 2	CPU CPU MOD. 2	CPU CPU MOD. 2	CPU CPU MOD. 2
Name: -A12.1 Sheet: 12.4C	Name: -A12.1 Sheet: 12.4C	Name: -A12.1 Sheet: 12.4C	Name: -A12.1 Sheet: 12.4C	Name: -A12.1 Sheet: 12.4C	Name: -A12.1 Sheet: 12.4C	Name: -A12.1 Sheet: 12.4C	Name: -A12.1 Sheet: 12.4C
CIRCUIT BREAKER TRANSFORMER 380V / 110V	CIRCUIT BREAKER PWS 380VAC / 24VDC	CIRCUIT BREAKER PWS AUX 110 VAC	CIRCUIT BREAKER PANEL FAN	CIRCUIT BREAKER PINCERS MOTOR	CARRIAGE THERMAL PROTECTION	CARRIAGE MOTOR FORWARDS	CARRIAGE MOTOR BACKWARDS
INT. TRASFORMATORE 380V / 110V	INT. ALIMENTATORE 380VAC / 24VDC	INT. ALIMENTAZIONE AUSILIARI 110 VAC	INT. VENTILATORE ARMADIO	INT. MOTORE PINZE	TERMICO MOTORE CARRELLO	COMANDO CARRELLO AVANTI	COMANDO CARRELLO INDIETRO

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CARRIAGE MOTOR FORWARDS		CARRIAGE MOTOR BACKWARDS		ROOLS MOTOR COMMAND		START ENABLE				CIRCUIT BREAKERS		PINCERS MOTOR COMMAND		SPARE		PLC OK			
COMANDO CARRELLO AVANTI		COMANDO CARRELLO INDIETRO		COMANDO MOTORE RULLI		CONSENSO MARCIA				INTERRUTTORI AUTOMATICI INTERVENUTI		COMANDO MOTORE PINZE		RISERVA		PLC OK			
Name: -A12.2	Sheet: 12.4C	Name: -A12.2	Sheet: 12.4C	Name: -A12.2	Sheet: 12.4C	Name: -A12.2	Sheet: 12.4C	Name: -A12.2	Sheet: 12.4C	Name: -A12.2	Sheet: 12.4C	Name: -A12.2	Sheet: 12.4C	Name: -A12.2	Sheet: 12.4C	Name: -A12.2	Sheet: 12.4C	Name: -A12.2	Sheet: 12.4C
CPU CPU	MOD. 3	CPU CPU	MOD. 3	CPU CPU	MOD. 3	CPU CPU	MOD. 3	CPU CPU	MOD. 3	CPU CPU	MOD. 3	CPU CPU	MOD. 3	CPU CPU	MOD. 3	CPU CPU	MOD. 3	CPU CPU	MOD. 3
A0.0		A0.1		A0.2		A0.3				A0.4		A0.5		A0.6		A0.7			
1	2	5	6	11	12	15	16	19	20	21	22	25	26	31	32	35	36	39	40



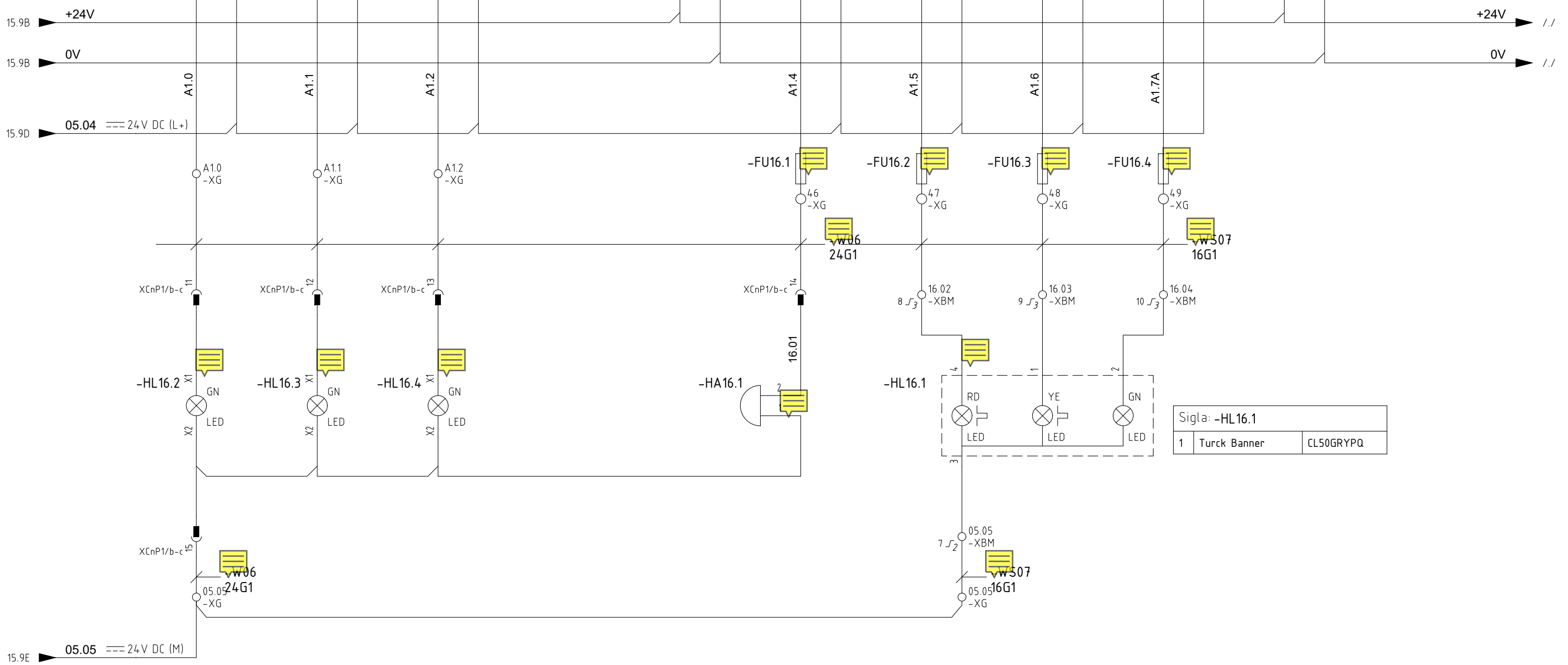
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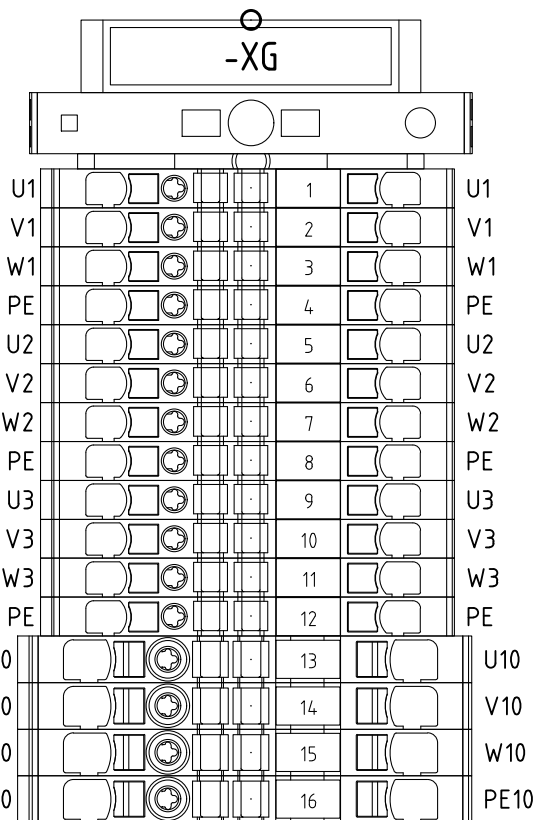
PROJECT SPAC EXAMPLE 2021 SPAC Automazione Example				DATE 13/07/2021		DOCUMENT Electric Diagram			
SDProget Industrial Software www.sdproget.it				DOC.Nr.		PLC Output		Sheet	
01 PLC Replacement 30/09/19 CM				FILE ELECTRICAL DIAGRAM		Uscite PLC		Next Sheet	
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PINCERS MOTOR ENABLED		CARRIAGE MOTOR ENABLED		ROOLS MOTOR ENABLED		SPARE				ALARM		SIGNALLING TOWER RED ELEMENT		SIGNALLING TOWER ORANGE ELEMENT		SIGNALLING TOWER GREEN ELEMENT					
MOTORE PINZE ABILITATO		MOTORE CARRELLO ABILITATO		MOTORE RULLI ABILITATO		RISERVA				ALLARME		COLONNA LUMINOSA ELEMENTO ROSSO		COLONNA LUMINOSA ELEMENTO ARANCIONE		COLONNA LUMINOSA ELEMENTO VERDE					
Name: -A12.3	Sheet: 12.5C	Name: -A12.3	Sheet: 12.5C	Name: -A12.3	Sheet: 12.5C	Name: -A12.3	Sheet: 12.5C	Name: -A12.3	Sheet: 12.5C	Name: -A12.3	Sheet: 12.5C	Name: -A12.3	Sheet: 12.5C	Name: -A12.3	Sheet: 12.5C	Name: -A12.3	Sheet: 12.5C	Name: -A12.3	Sheet: 12.5C	Name: -A12.3	Sheet: 12.5C
CPU CPU	MOD. 4	CPU CPU	MOD. 4	CPU CPU	MOD. 4	CPU CPU	MOD. 4	CPU CPU	MOD. 4	CPU CPU	MOD. 4	CPU CPU	MOD. 4	CPU CPU	MOD. 4	CPU CPU	MOD. 4	CPU CPU	MOD. 4	CPU CPU	MOD. 4
A1.0		A1.1		A1.2		A1.3				A1.4		A1.5		A1.6		A1.7					
1	2	5	6	11	12	15	16	19	20	21	22	25	26	31	32	35	36	39	40		

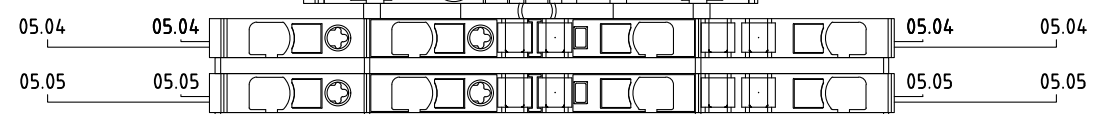


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01	PLC Replacement	30/09/19	CM	FILE ELECTRICAL DIAGRAM		Uscite PLC		Next Sheet	
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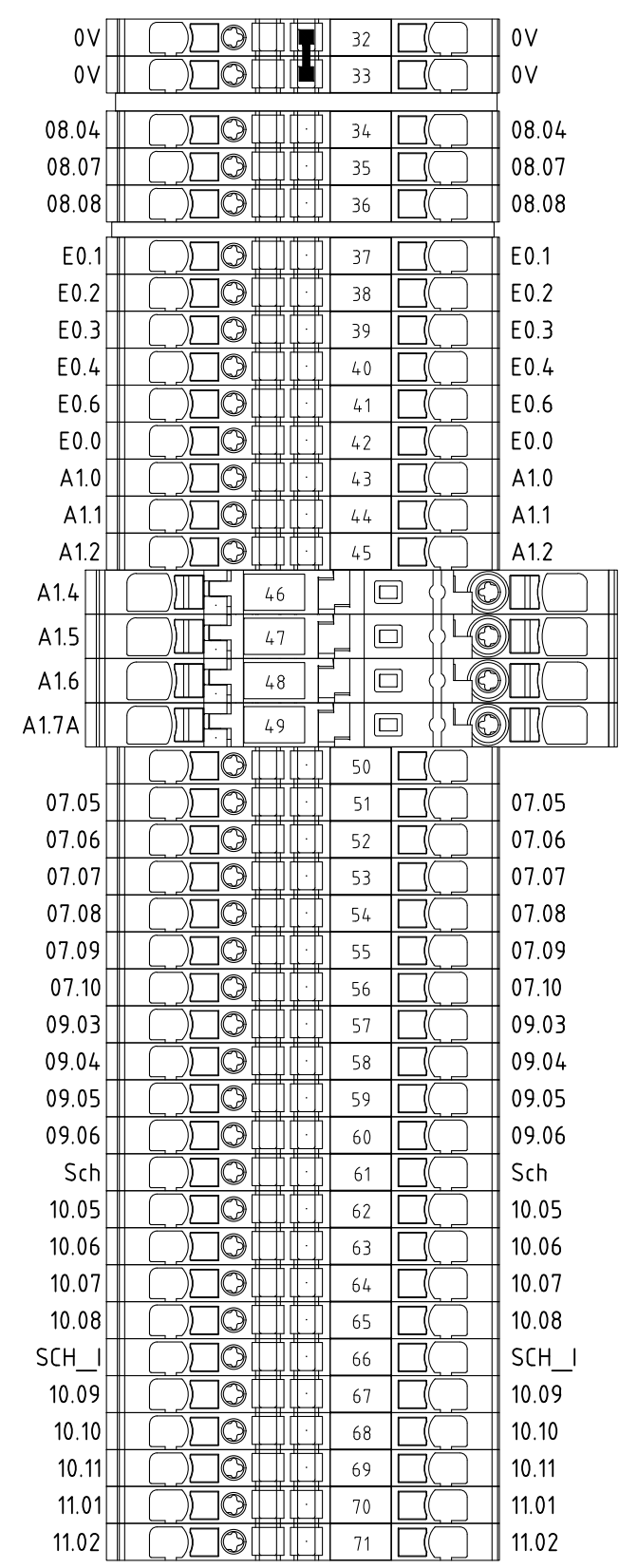
+QG - -XG
Main Panel Terminal Strip



- | | | | |
|------|----|------|--|
| U1 | 1 | U1 | +BM - -XM1 - Pincers Motor Terminal Strip |
| V1 | 2 | V1 | +BM - -XM1 - Pincers Motor Terminal Strip |
| W1 | 3 | W1 | +BM - -XM1 - Pincers Motor Terminal Strip |
| PE | 4 | PE | +BM - -XM1 - Pincers Motor Terminal Strip |
| U2 | 5 | U2 | +BM - -XM2 - Carriage Motor Terminal Strip |
| V2 | 6 | V2 | +BM - -XM2 - Carriage Motor Terminal Strip |
| W2 | 7 | W2 | +BM - -XM2 - Carriage Motor Terminal Strip |
| PE | 8 | PE | +BM - -XM2 - Carriage Motor Terminal Strip |
| U3 | 9 | U3 | +BM - -XM3 - Rolls Motor Terminal Strip |
| V3 | 10 | V3 | +BM - -XM3 - Rolls Motor Terminal Strip |
| W3 | 11 | W3 | +BM - -XM3 - Rolls Motor Terminal Strip |
| PE | 12 | PE | +BM - -XM3 - Rolls Motor Terminal Strip |
| U10 | 13 | U10 | +BM - -M10.1 - INVERTER MOTOR |
| V10 | 14 | V10 | +BM - -M10.1 - INVERTER MOTOR |
| W10 | 15 | W10 | +BM - -M10.1 - INVERTER MOTOR |
| PE10 | 16 | PE10 | +BM - -M10.1 - INVERTER MOTOR |

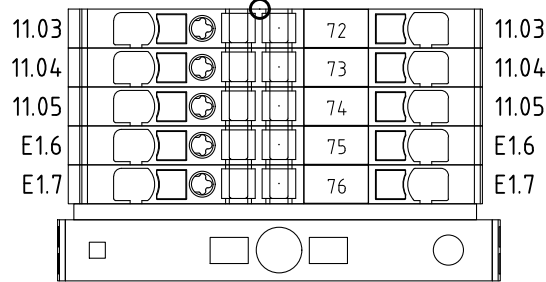


- | | | | |
|-------|----|-------|--|
| 05.04 | 19 | 05.04 | +P1 - XCn1 - Control Panel - Connector 1 |
| 05.01 | 20 | 05.01 | +P1 - XCn1 - Control Panel - Connector 1 |
| 05.02 | 21 | 05.02 | +P1 - XCn1 - Control Panel - Connector 1 |
| 05.02 | 22 | 05.02 | +P1 - XCn1 - Control Panel - Connector 1 |
| 05.04 | 23 | 05.04 | +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc) |
| 05.04 | 24 | 05.04 | +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc) |
| 05.05 | 25 | 05.05 | +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc) |
| 05.05 | 26 | 05.05 | +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc) |
| 05.05 | 27 | 05.05 | +BM - -XBM - On Board Signals Terminal Strip |
| +24V | 28 | +24V | +P1 - XCn1 - Control Panel - Connector 1 |
| +24V | 29 | +24V | +BM - -XBM - On Board Signals Terminal Strip |
| +24V | 30 | +24V | +BM - -XBM - On Board Signals Terminal Strip |
| +24V | 31 | +24V | +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc) |



- | | | | |
|-------|----|-------|--|
| 0V | 32 | 0V | +BM - -XBM - On Board Signals Terminal Strip |
| 0V | 33 | 0V | +BM - -XBM - On Board Signals Terminal Strip |
| 08.04 | 34 | 08.04 | +P1 - XCn1 - Control Panel - Connector 1 |
| 08.07 | 35 | 08.07 | +P1 - XCn1 - Control Panel - Connector 1 |
| 08.08 | 36 | 08.08 | +P1 - XCn1 - Control Panel - Connector 1 |
| E0.1 | 37 | E0.1 | +BM - -XBM - On Board Signals Terminal Strip |
| E0.2 | 38 | E0.2 | +BM - -XBM - On Board Signals Terminal Strip |
| E0.3 | 39 | E0.3 | +BM - -XBM - On Board Signals Terminal Strip |
| E0.4 | 40 | E0.4 | +BM - -XBM - On Board Signals Terminal Strip |
| E0.6 | 41 | E0.6 | +BM - -XBM - On Board Signals Terminal Strip |
| E0.0 | 42 | E0.0 | +P1 - XCn1 - Control Panel - Connector 1 |
| A1.0 | 43 | A1.0 | +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc) |
| A1.1 | 44 | A1.1 | +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc) |
| A1.2 | 45 | A1.2 | +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc) |
| A1.4 | 46 | 16.01 | +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc) |
| A1.5 | 47 | 16.02 | +BM - -XBM - On Board Signals Terminal Strip |
| A1.6 | 48 | 16.03 | +BM - -XBM - On Board Signals Terminal Strip |
| A1.7A | 49 | 16.04 | +BM - -XBM - On Board Signals Terminal Strip |
| 07.05 | 50 | 07.05 | +P1 - XCn1 - Control Panel - Connector 1 |
| 07.06 | 51 | 07.06 | +P1 - XCn1 - Control Panel - Connector 1 |
| 07.07 | 52 | 07.07 | +P1 - XCn1 - Control Panel - Connector 1 |
| 07.08 | 53 | 07.08 | +P1 - XCn1 - Control Panel - Connector 1 |
| 07.09 | 54 | 07.09 | +P1 - XCn1 - Control Panel - Connector 1 |
| 07.10 | 55 | 07.10 | +P1 - XCn1 - Control Panel - Connector 1 |
| 09.03 | 56 | 09.03 | +P1 - XCn1 - Control Panel - Connector 1 |
| 09.04 | 57 | 09.04 | +P1 - XCn1 - Control Panel - Connector 1 |
| 09.05 | 58 | 09.05 | +P1 - XCn1 - Control Panel - Connector 1 |
| 09.06 | 59 | 09.06 | +P1 - XCn1 - Control Panel - Connector 1 |
| Sch | 60 | Sch | +P1 - XCn1 - Control Panel - Connector 1 |
| Sch | 61 | Sch | +P1 - XCn1 - Control Panel - Connector 1 |
| 10.05 | 62 | 10.05 | +P1 - XCnP1/a - Control Panel - mod.r connector (a) |
| 10.06 | 63 | 10.06 | +P1 - XCnP1/a - Control Panel - mod.r connector (a) |
| 10.07 | 64 | 10.07 | +P1 - XCnP1/a - Control Panel - mod.r connector (a) |
| 10.08 | 65 | 10.08 | +P1 - XCnP1/a - Control Panel - mod.r connector (a) |
| SCH_I | 66 | SCH_I | +P1 - XCnP1/a - Control Panel - mod.r connector (a) |
| 10.09 | 67 | 10.09 | +P1 - XCnP1/a - Control Panel - mod.r connector (a) |
| 10.10 | 68 | 10.10 | +P1 - XCnP1/a - Control Panel - mod.r connector (a) |
| 10.11 | 69 | 10.11 | +P1 - XCnP1/a - Control Panel - mod.r connector (a) |
| 11.01 | 70 | 11.01 | +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc) |
| 11.02 | 71 | 11.02 | +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc) |

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+P1 - XCnP1/b-c - Control Panel - mod.r connector (bc)
 +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc)
 +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc)
 +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc)
 +P1 - XCnP1/b-c - Control Panel - mod.r connector (bc)

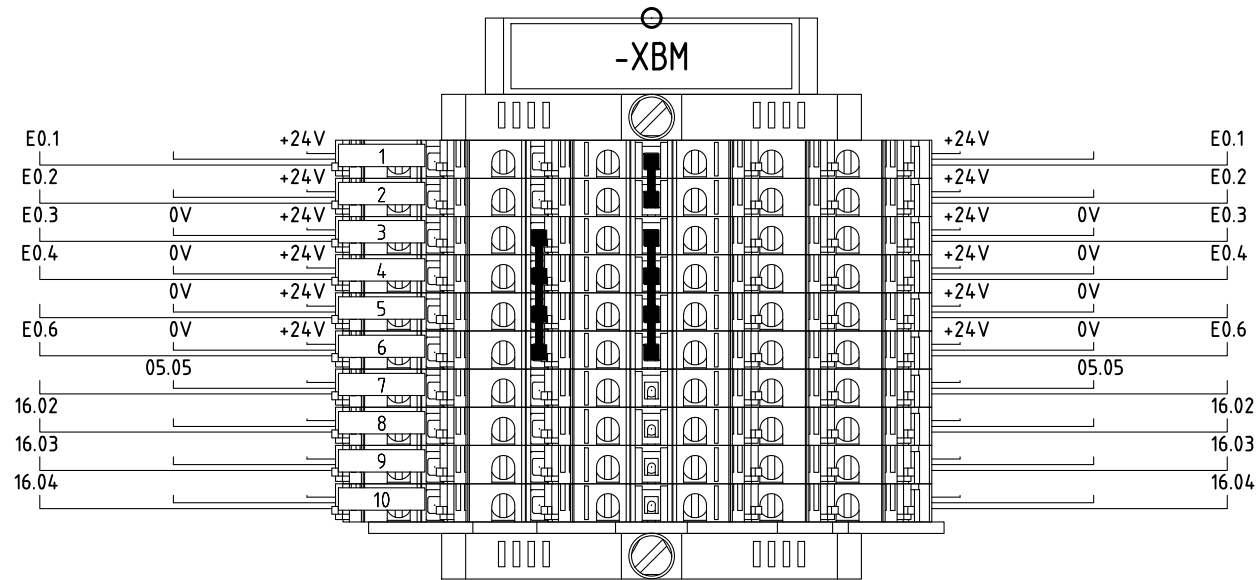
+QG -XG Main Panel Terminal Strip			
NumI	NumM	Type	Manufacturer
		1631930000	Weidmuller
		1991920000	Weidmuller
		0485560000	Weidmuller
U1	1	1521850000	Weidmuller
V1	2	1521850000	Weidmuller
W1	3	1521850000	Weidmuller
PE	4	1521680000	Weidmuller
U2	5	1521850000	Weidmuller
V2	6	1521850000	Weidmuller
W2	7	1521850000	Weidmuller
PE	8	1521680000	Weidmuller
U3	9	1521850000	Weidmuller
V3	10	1521850000	Weidmuller
W3	11	1521850000	Weidmuller
PE	12	1521680000	Weidmuller
U10	13	2051180000	Weidmuller
V10	14	2051180000	Weidmuller
W10	15	2051180000	Weidmuller
PE10	16	2051360000	Weidmuller
		0485560000	Weidmuller
05.04	17	1547650000	Weidmuller
05.04			
05.04			
		1547690000	Weidmuller
05.05	18	1547650000	Weidmuller
05.05			
		1547690000	Weidmuller
05.01	19	1521850000	Weidmuller
05.01	20	1521850000	Weidmuller
		1514400000	Weidmuller
05.02	21	1521850000	Weidmuller
05.02	22	1521850000	Weidmuller
		1514400000	Weidmuller
05.04	23	1521850000	Weidmuller
05.04	24	1521850000	Weidmuller
		1514400000	Weidmuller
05.05	25	1521850000	Weidmuller
05.05	26	1521850000	Weidmuller

+QG -XG Main Panel Terminal Strip			
NumI	NumM	Type	Manufacturer
05.05	27	1521850000	Weidmuller
		1514400000	Weidmuller
+24V	28	1521850000	Weidmuller
+24V	29	1521850000	Weidmuller
+24V	30	1521850000	Weidmuller
+24V	31	1521850000	Weidmuller
		2488970000	Weidmuller
0V	32	1521850000	Weidmuller
0V	33	1521850000	Weidmuller
		2488970000	Weidmuller
08.04	34	1521850000	Weidmuller
08.07	35	1521850000	Weidmuller
08.08	36	1521850000	Weidmuller
		1514400000	Weidmuller
E0.1	37	1521850000	Weidmuller
E0.2	38	1521850000	Weidmuller
E0.3	39	1521850000	Weidmuller
E0.4	40	1521850000	Weidmuller
E0.6	41	1521850000	Weidmuller
E0.0	42	1521850000	Weidmuller
A1.0	43	1521850000	Weidmuller
A1.1	44	1521850000	Weidmuller
A1.2	45	1521850000	Weidmuller
A1.4	46	2429870000	Weidmuller
A1.5	47	2429870000	Weidmuller
A1.6	48	2429870000	Weidmuller
A1.7A	49	2429870000	Weidmuller
	50	1521850000	Weidmuller
07.05	51	1521930000	Weidmuller
07.06	52	1521930000	Weidmuller
07.07	53	1521930000	Weidmuller
07.08	54	1521930000	Weidmuller
07.09	55	1521930000	Weidmuller
07.10	56	1521930000	Weidmuller
09.03	57	1521930000	Weidmuller
09.04	58	1521930000	Weidmuller
09.05	59	1521850000	Weidmuller
09.06	60	1521850000	Weidmuller
Sch	61	1521680000	Weidmuller
10.05	62	1521850000	Weidmuller
10.06	63	1521850000	Weidmuller

+QG -XG Main Panel Terminal Strip			
NumI	NumM	Type	Manufacturer
10.07	64	1521850000	Weidmuller
10.08	65	1521850000	Weidmuller
SCH_I	66	1521680000	Weidmuller
10.09	67	1521850000	Weidmuller
10.10	68	1521850000	Weidmuller
10.11	69	1521850000	Weidmuller
11.01	70	1521850000	Weidmuller
11.02	71	1521850000	Weidmuller
11.03	72	1521850000	Weidmuller
11.04	73	1521850000	Weidmuller
11.05	74	1521850000	Weidmuller
E1.6	75	1521850000	Weidmuller
E1.7	76	1521850000	Weidmuller
		1514400000	Weidmuller
		1991920000	Weidmuller

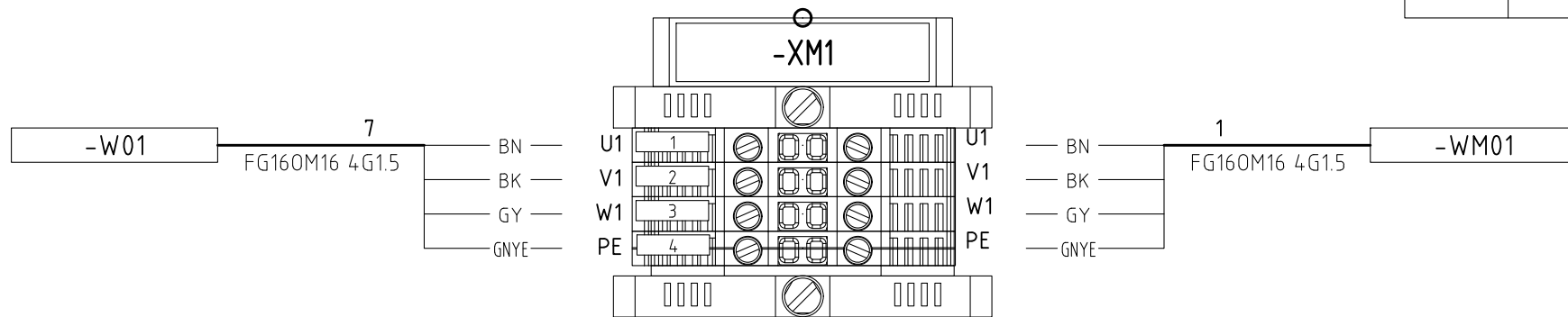
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+BM - -XBM
On Board Signals Terminal Strip



+BM -XBM On Board Signals Terminal Strip							
NumI	NumM	LEV.	Type	Manufacturer	(Us) Panel	(Us) Name	Usage Function 1
			43448	Morsettitalia			
			43444	Morsettitalia			
+24V	1	1/3 2/3	43504	Morsettitalia	+BM	-S13.1	FORWARD CARRIAGE LIMIT SWITCH
E0.1		3/3			+BM	-S13.1	FORWARD CARRIAGE LIMIT SWITCH
+24V	2	1/3 2/3	43504	Morsettitalia	+BM	-S13.2	BACK CARRIAGE LIMIT SWITCH
E0.2		3/3			+BM	-S13.2	BACK CARRIAGE LIMIT SWITCH
+24V	3	1/3 2/3	43504	Morsettitalia	+BM	-SQ13.1	CARRIAGE FORWARD POSITION
0V		2/3			+BM	-SQ13.1	CARRIAGE FORWARD POSITION
E0.3		3/3			+BM	-SQ13.1	CARRIAGE FORWARD POSITION
+24V	4	1/3 2/3	43504	Morsettitalia	+BM	-SQ13.2	CARRIAGE BACK POSITION
0V		2/3			+BM	-SQ13.2	CARRIAGE BACK POSITION
E0.4		3/3			+BM	-SQ13.2	CARRIAGE BACK POSITION
+24V	5	1/3 2/3	43504	Morsettitalia	+BM	-BF13.1	PROTECTIONS CLOSED - EMITTER
0V		2/3			+BM	-BF13.1	PROTECTIONS CLOSED - EMITTER
		3/3					
+24V	6	1/3 2/3	43504	Morsettitalia	+BM	-BF13.2	PROTECTIONS CLOSED - RECEVEIR
0V		2/3			+BM	-BF13.2	PROTECTIONS CLOSED - RECEVEIR
E0.6		3/3			+BM	-BF13.2	PROTECTIONS CLOSED - RECEVEIR
05.05	7	1/3 2/3	43504	Morsettitalia	+BM	-HL16.1	TOWER LIGHTS
		3/3					
16.02	8	1/3 2/3	43504	Morsettitalia	+BM	-HL16.1	TOWER LIGHTS
		3/3					
16.03	9	1/3 2/3	43504	Morsettitalia	+BM	-HL16.1	TOWER LIGHTS
		3/3					
16.04	10	1/3 2/3	43504	Morsettitalia	+BM	-HL16.1	TOWER LIGHTS
		3/3					
			43542	Morsettitalia			
			43444	Morsettitalia			

+BM - -XM1
Pincers Motor Terminal Strip



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Terminal Strip

Morsettiere

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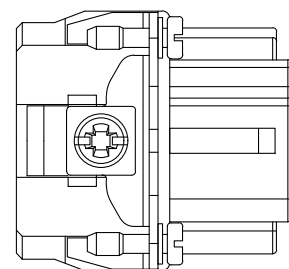
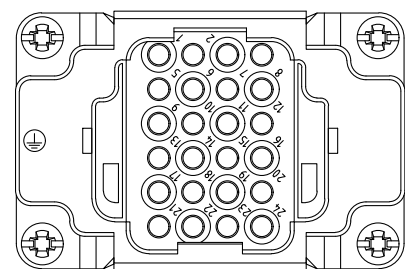
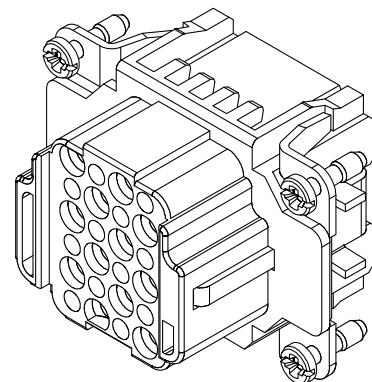
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+P1 - XCn1
Control Panel - Connector 1

- 07.07 — 1 +P1 - -SB07.1 - EMERGENCY
- 07.08 — 2 +P1 - -SB07.1 - EMERGENCY
- 07.09 — 3 +P1 - -SB07.1 - EMERGENCY
- 07.10 — 4 +P1 - -SB07.1 - EMERGENCY
- 07.05 — 5 +P1 - -SH07.1 - ON
- 07.06 — 6 +P1 - -SH07.1 - ON
- 09.03 — 7 +P1 - -PA09.1 - INVERTER MOTOR LOAD AMMETER
- 09.04 — 8 +P1 - -PA09.1 - INVERTER MOTOR LOAD AMMETER
- 09.05 — 9 +P1 - -PA09.1 - INVERTER MOTOR LOAD AMMETER
- 09.06 — 10 +P1 - -PA09.1 - INVERTER MOTOR LOAD AMMETER
- 08.04 — 11 +P1 - -SB07.1 - EMERGENCY
- 08.07 — 12 +P1 - -SB08.1 - START INVERTER
- 08.08 — 13 +P1 - -SB08.1 - START INVERTER
- +24V — 14 +P1 - -SH07.1 - ON
- E0.0 — 15 +P1 - -SH07.1 - ON
- 16
- 17
- 18
- 19
- 05.01 — 20 +P1 - -HL08.1 - 110 VAC POWER SUPPLY
- 05.02 — 21 +P1 - -HL08.1 - 110 VAC POWER SUPPLY
- 22
- 23
- 24
- PE

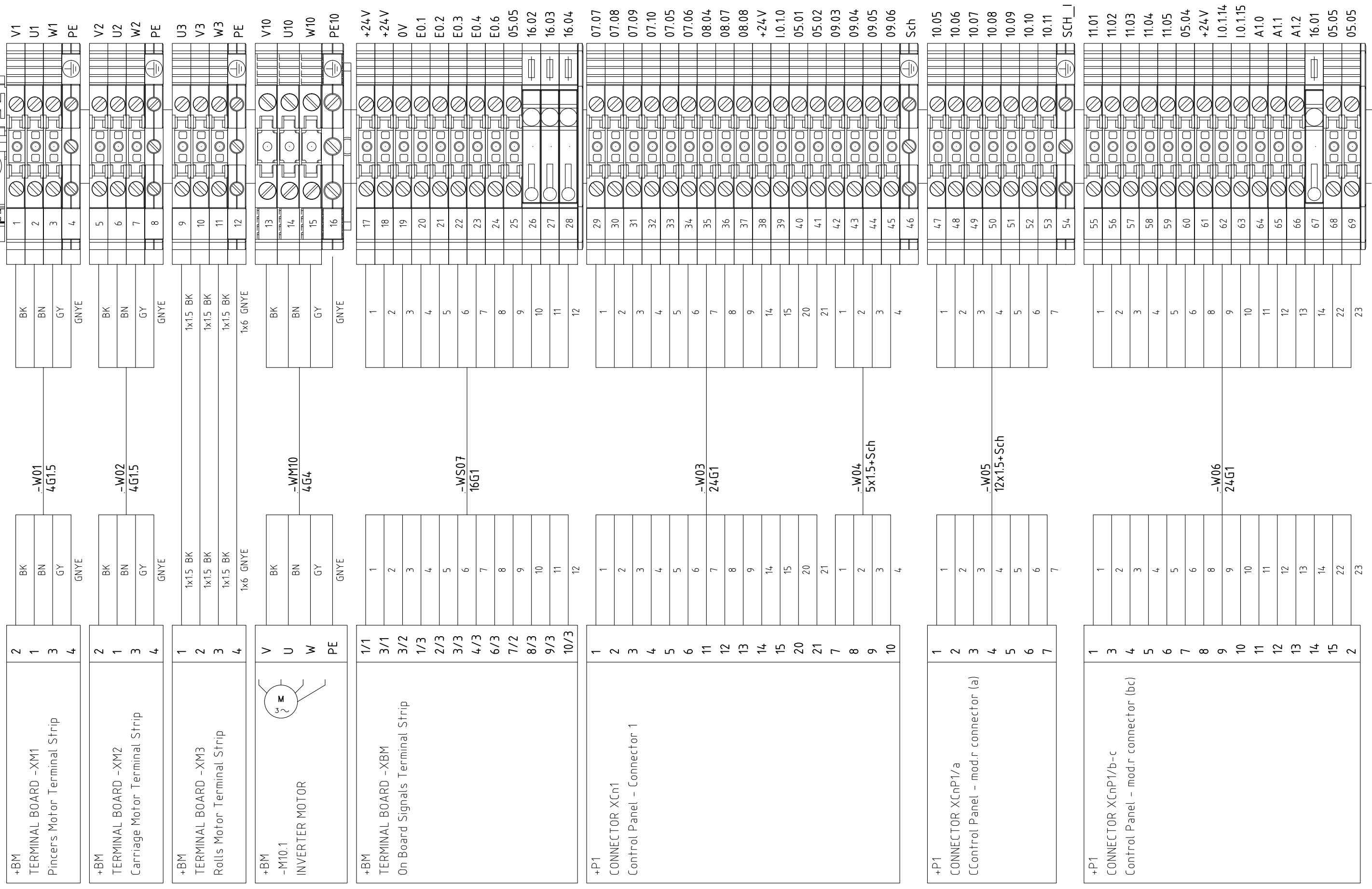


+P1 XCn1 Control Panel - Connector 1					
Pin	Numl	Sh./Segm.	Manufacturer	Type	Description
			Harting	09160243101	Connector 24 poles + PE 250V 10A, Female insert
1	07.07	07.4D	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
2	07.08	07.4D	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
3	07.09	07.4D	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
4	07.10	07.5D	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
5	07.05	07.8D	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
6	07.06	07.7D	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
7	09.03	09.6D	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
8	09.04	09.6D	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
9	09.05	09.7D	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
10	09.06	09.7D	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
11	08.04	08.7A	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
12	08.07	08.7B	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
13	08.08	08.7C	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
14	+24V	13.1B	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
15	E0.0	13.1D	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
16					
17					
18					
19					
20	05.01	08.1B	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
21	05.02	08.1D	Harting	09150006202	Female crimp contact - Silver plated 1.0 mmq
22					
23					
24					
PE					
			Harting	19300061440	Hood, low construction, top-entry M20

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+QG -- XG

Main Panel Terminal Strip



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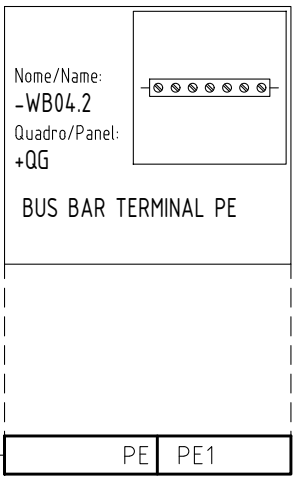
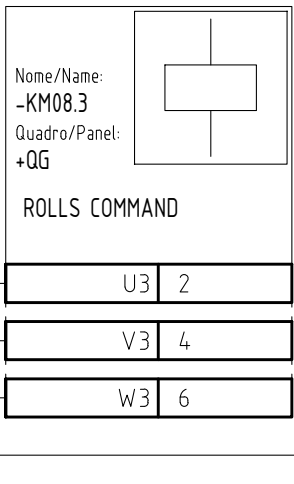
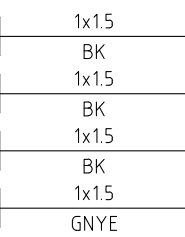
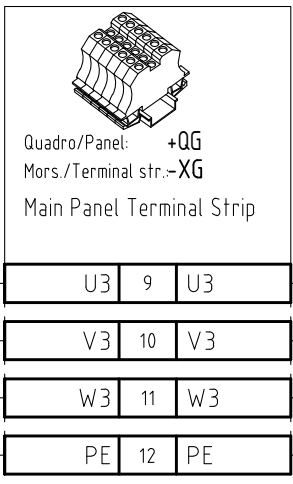
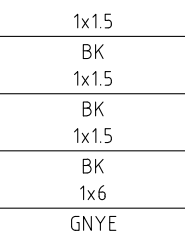
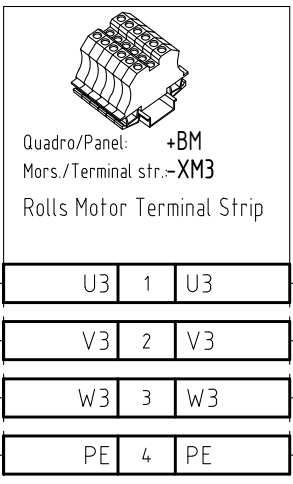
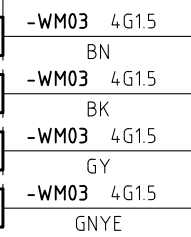
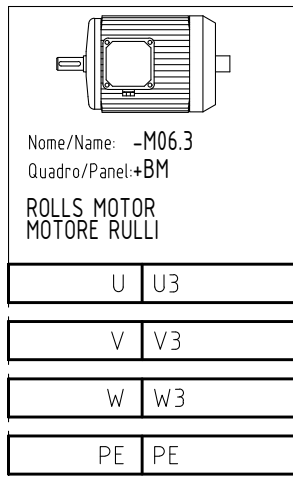
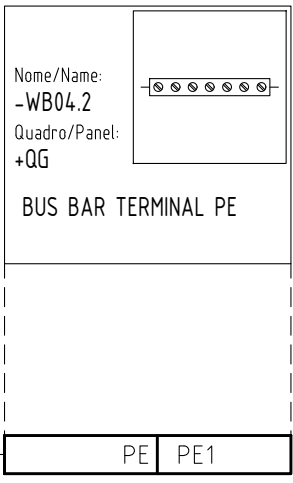
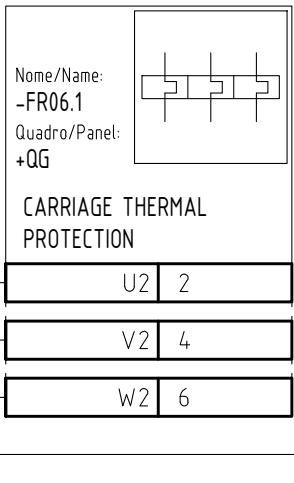
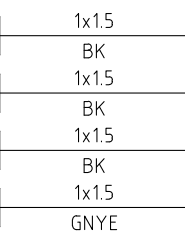
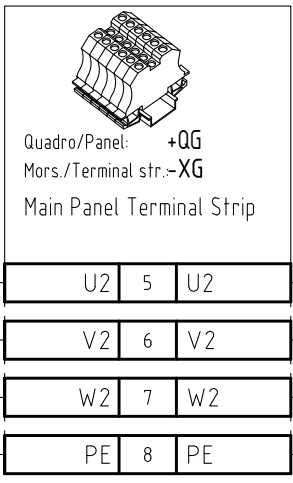
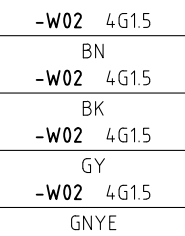
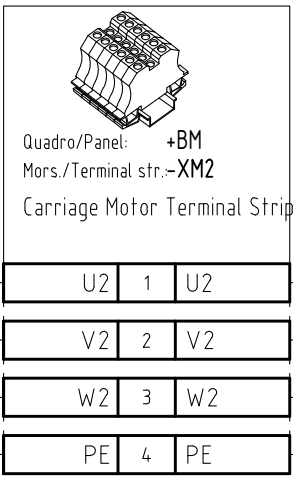
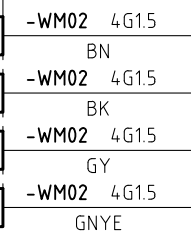
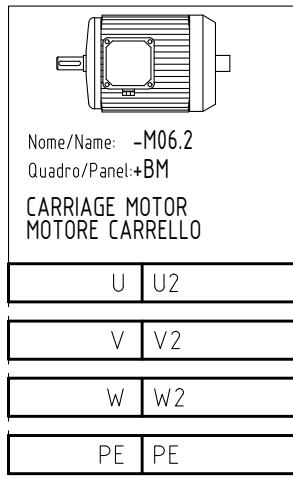
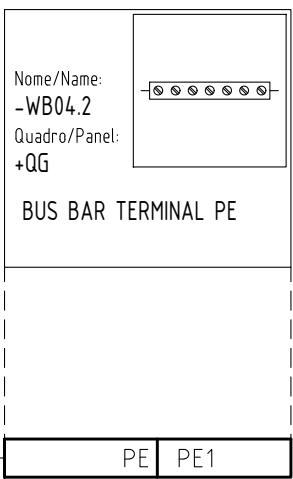
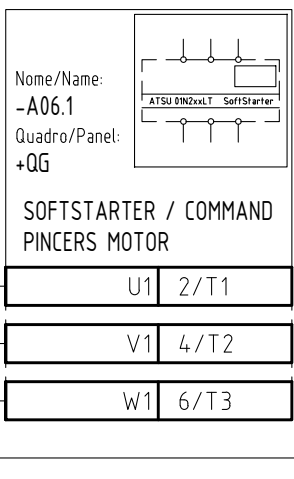
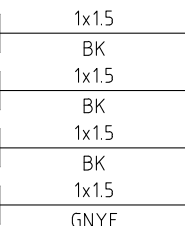
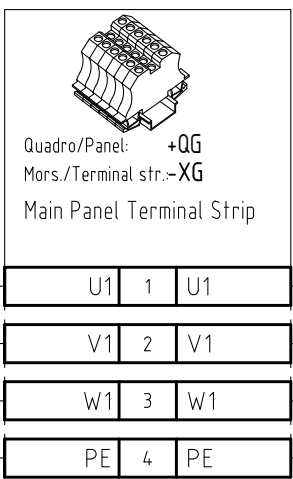
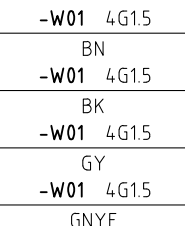
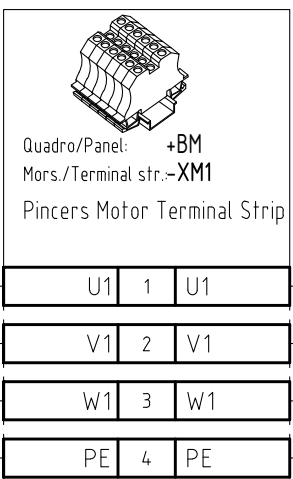
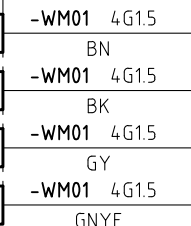
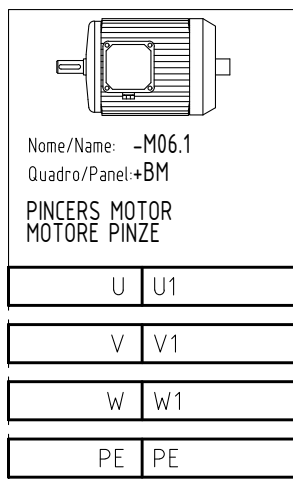
Terminal Strip
 Morsettiere

Cabling Table / Tabella di cablaggio

+BM - On Board Panel

From Panel	Sh. (P)	Component 1	Pin 1	Wire	Composition	Cable Type	Color	Section	Pin 2	Component 2	Sh. (A)	To Panel
+BM	13	-BF13.1	BU	0V	1x1	H05V-K 1x1 BU	BU	1	5_2	-XBM-5_2	13	+BM
+BM	13	-BF13.2	BU	0V	1x1	H05V-K 1x1 BU	BU	1	6_2	-XBM-6_2	13	+BM
+BM	13	-SQ13.1	BU	0V	1x1	H05V-K 1x1 BU	BU	1	3_2	-XBM-3_2	13	+BM
+BM	13	-SQ13.2	BU	0V	1x1	H05V-K 1x1 BU	BU	1	4_2	-XBM-4_2	13	+BM
+BM	13	-XBM-3_2	3_2	0V	1x1	H05V-K 1x1 BU	BU	1	4_2	-XBM-4_2	13	+BM
+BM	13	-XBM-4_2	4_2	0V	1x1	H05V-K 1x1 BU	BU	1	5_2	-XBM-5_2	13	+BM
+BM	13	-XBM-5_2	5_2	0V	1x1	H05V-K 1x1 BU	BU	1	6_2	-XBM-6_2	13	+BM
+BM	16	-HL16.1	3	05.05	1x1	H05V-K 1x1 BU	BU	1	7_2	-XBM-7_2	16	+BM
+BM	16	-HL16.1	4	16.02	1x2.5	H07V-K 1x2.5 RD	RD	2,5	8_3	-XBM-8_3	16	+BM
+BM	16	-HL16.1	1	16.03	1x2.5	H07V-K 1x2.5 RD	RD	2,5	9_3	-XBM-9_3	16	+BM
+BM	16	-HL16.1	2	16.04	1x2.5	H07V-K 1x2.5 RD	RD	2,5	10_3	-XBM-10_3	16	+BM
+BM	13	-BF13.1	BN	+24V	1x1	H05V-K 1x1 BU	BU	1	5_1	-XBM-5_1	13	+BM
+BM	13	-BF13.2	BN	+24V	1x1	H05V-K 1x1 BU	BU	1	6_1	-XBM-6_1	13	+BM
+BM	13	-S13.1	11	+24V	1x1	H05V-K 1x1 BU	BU	1	1_1	-XBM-1_1	13	+BM
+BM	13	-S13.2	11	+24V	1x1	H05V-K 1x1 BU	BU	1	2_1	-XBM-2_1	13	+BM
+BM	13	-SQ13.1	BN	+24V	1x1	H05V-K 1x1 BU	BU	1	3_1	-XBM-3_1	13	+BM
+BM	13	-SQ13.2	BN	+24V	1x1	H05V-K 1x1 BU	BU	1	4_1	-XBM-4_1	13	+BM
+BM	13	-XBM-1_1	1_1	+24V	1x1	H05V-K 1x1 BU	BU	1	2_1	-XBM-2_1	13	+BM
+BM	13	-XBM-3_1	3_1	+24V	1x1	H05V-K 1x1 BU	BU	1	4_1	-XBM-4_1	13	+BM
+BM	13	-XBM-4_1	4_1	+24V	1x1	H05V-K 1x1 BU	BU	1	5_1	-XBM-5_1	13	+BM
+BM	13	-XBM-5_1	5_1	+24V	1x1	H05V-K 1x1 BU	BU	1	6_1	-XBM-6_1	13	+BM
+BM	13	-S13.1	12	E0.1	1x1.5	H07V-K 1x1.5 BK	BK	1,5	1_3	-XBM-1_3	13	+BM
+BM	13	-S13.2	12	E0.2	1x1.5	H07V-K 1x1.5 BK	BK	1,5	2_3	-XBM-2_3	13	+BM
+BM	13	-SQ13.1	BK	E0.3	1x1.5	H07V-K 1x1.5 BK	BK	1,5	3_3	-XBM-3_3	13	+BM
+BM	13	-SQ13.2	BK	E0.4	1x1.5	H07V-K 1x1.5 BK	BK	1,5	4_3	-XBM-4_3	13	+BM
+BM	13	-BF13.2	BK	E0.6	1x1.5	H07V-K 1x1.5 BK	BK	1,5	6_3	-XBM-6_3	13	+BM
+BM	6	-M06.1	PE	PE	1x6	N07V-K 1x6 GNYE	GNYE	6	4	-XM1-4	6	+BM
+BM	6	-M06.2	PE	PE	1x6	N07V-K 1x6 GNYE	GNYE	6	4	-XM2-4	6	+BM
+BM	6	-M06.3	PE	PE	1x6	N07V-K 1x6 GNYE	GNYE	6	4	-XM3-4	6	+BM
+BM	6	-M06.1	U	U1	1x1.5	H07V-K 1x1.5 BK	BK	1,5	1	-XM1-1	6	+BM
+BM	6	-M06.2	U	U2	1x1.5	H07V-K 1x1.5 BK	BK	1,5	1	-XM2-1	6	+BM
+BM	6	-M06.3	U	U3	1x1.5	H07V-K 1x1.5 BK	BK	1,5	1	-XM3-1	6	+BM
+BM	6	-M06.1	V	V1	1x1.5	H07V-K 1x1.5 BK	BK	1,5	2	-XM1-2	6	+BM
+BM	6	-M06.2	V	V2	1x1.5	H07V-K 1x1.5 BK	BK	1,5	2	-XM2-2	6	+BM
+BM	6	-M06.3	V	V3	1x1.5	H07V-K 1x1.5 BK	BK	1,5	2	-XM3-2	6	+BM
+BM	6	-M06.1	W	W1	1x1.5	H07V-K 1x1.5 BK	BK	1,5	3	-XM1-3	6	+BM
+BM	6	-M06.2	W	W2	1x1.5	H07V-K 1x1.5 BK	BK	1,5	3	-XM2-3	6	+BM
+BM	6	-M06.3	W	W3	1x1.5	H07V-K 1x1.5 BK	BK	1,5	3	-XM3-3	6	+BM

				PROJECT SPAC EXAMPLE 2021 SPAC Automazione Example		DATE 13/07/2021		DOCUMENT Electric Diagram			
				SDProget Industrial Software www.sdproget.it		DOC.Nr.		Cabling Table <i>Tabella di cablaggio</i>			
						FILE ELECTRICAL DIAGRAM					
						DRAFT. M.C.		Sheet		Next Sheet	
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 SPAC Automazione Example

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 DRAFT. M.C.
 APPR.

DOCUMENT Electric Diagram

Loop Diagram Example
Esempio Loop Diagram

PANEL				CABLES					LOCATION				
SHEET REF. FOGLIO RIF.	ORIGIN MARK ORIGINE	TERMINAL TERMINALE	WIRE NO. NR. FILO	CONDUCTOR CROSS-SECTION	CORE IDENTIFICATION	CABLE N. CAVO NR.	LENGHT [m] LUNGHEZZA	NOISE LEVEL DISTURBO	CORE IDENTIFICATION	TERMINAL TERMINALE	DESTINATION MARK DESTINAZIONE		SHEET REF. FOGLIO RIF.
	DESIGNATION GROUP DESIGNAZIONI			SEZIONE NOMINALE (mm ²)	IDENTIFICATIVO ANIMA				IDENTIFICATIVO ANIMA		DESIGNATION GROUP DESIGNAZIONI	DESCRIPTION DESCRIZIONE	
06/1E	+QG/-XG	1	U1	1.5	BN	-W01 FG160M16 4G1.5 =QG -XM1 Connections	7.00	/	BN	1	+BM/-XM1	Pincers Motor Terminal Strip	06/1E
06/1E	+QG/-XG	2	V1	1.5	BK				BK	2	+BM/-XM1	Pincers Motor Terminal Strip	06/1E
06/1E	+QG/-XG	3	W1	1.5	GY				GY	3	+BM/-XM1	Pincers Motor Terminal Strip	06/1E
06/1E	+QG/-XG	4	PE	1.5	GNYE				GNYE	4	+BM/-XM1	Pincers Motor Terminal Strip	06/1E
06/4E	+QG/-XG	5	U2	1.5	BN	-W02 FG160M16 4G1.5 =QG -XM2 Connections	7.50	/	BN	1	+BM/-XM2	Carriage Motor Terminal Strip	06/4E
06/4E	+QG/-XG	6	V2	1.5	BK				BK	2	+BM/-XM2	Carriage Motor Terminal Strip	06/4E
06/4E	+QG/-XG	7	W2	1.5	GY				GY	3	+BM/-XM2	Carriage Motor Terminal Strip	06/4E
06/4E	+QG/-XG	8	PE	1.5	GNYE				GNYE	4	+BM/-XM2	Carriage Motor Terminal Strip	06/4E
10/2E	+QG/-XG	13	U10	4	BN	-WM10 FG160M16 4G4 Inverter Motor Connections	7.50	/	BN	U	+BM/-M10.1	INVERTER MOTOR	10/2E
10/2E	+QG/-XG	14	V10	4	BK				BK	V	+BM/-M10.1	INVERTER MOTOR	10/2E
10/2E	+QG/-XG	15	W10	4	GY				GY	W	+BM/-M10.1	INVERTER MOTOR	10/2E
10/3E	+QG/-XG	16	PE10	4	GNYE				GNYE	PE	+BM/-M10.1	INVERTER MOTOR	10/3E
13/2A	+QG/-XG	29	+24V	1	1	-WS07 FS180R18 16G1 =BM - XBM Connections	6.00	/	1	1_1	+BM/-XBM	On Board Signals Terminal Strip	13/2B
13/4A	+QG/-XG	30	+24V	1	2				2	3_1	+BM/-XBM	On Board Signals Terminal Strip	13/4B
13/4A	+QG/-XG	32	0V	1	3				3	3_2	+BM/-XBM	On Board Signals Terminal Strip	13/4B
13/2D	+QG/-XG	37	E0.1	1	4				4	1_3	+BM/-XBM	On Board Signals Terminal Strip	13/2D
13/3D	+QG/-XG	38	E0.2	1	5				5	2_3	+BM/-XBM	On Board Signals Terminal Strip	13/3D
13/4D	+QG/-XG	39	E0.3	1	6				6	3_3	+BM/-XBM	On Board Signals Terminal Strip	13/4D
13/5D	+QG/-XG	40	E0.4	1	7				7	4_3	+BM/-XBM	On Board Signals Terminal Strip	13/5D
13/7D	+QG/-XG	41	E0.6	1	8				8	6_3	+BM/-XBM	On Board Signals Terminal Strip	13/7D
16/6E	+QG/-XG	27	05.05	1	9				9	7_2	+BM/-XBM	On Board Signals Terminal Strip	16/6E
16/5C	+QG/-XG	47	16.02	1	10				10	8_3	+BM/-XBM	On Board Signals Terminal Strip	16/5D
16/6C	+QG/-XG	48	16.03	1	11				11	9_3	+BM/-XBM	On Board Signals Terminal Strip	16/6D
16/7C	+QG/-XG	49	16.04	1	12				12	10_3	+BM/-XBM	On Board Signals Terminal Strip	16/7D
				1	13								
				1	14								
				1	15								
				1	GNYE				GNYE				

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					SDProget Industrial Software www.sdproget.it	DOC.Nr.			External Panel Cables	24	25
						FILE	ELECTRICAL DIAGRAM		Cavi esterno quadro		
						DRAFT.	M.C.				
						APPR.					

CABLE N. CAVO NR.	FROM DA	TERM. TERM.	WIRE NO. NR. FILO	CORE ID. ID. ANIMA	LENGHT [m] LUNGHEZZA	CORE ID. ID. ANIMA	TO A	TERM. TERM.	
-WS01 FS180R18 2x1 Limit switch 1 Connections	On Board Signals Terminal Strip	+BM/-XBM	1_1	+24V	2.00	BU	+BM/-S13.1	11	FORWARD CARRIAGE LIMIT SWITCH
	On Board Signals Terminal Strip	+BM/-XBM	1_3	E0.1		BN	+BM/-S13.1	12	FORWARD CARRIAGE LIMIT SWITCH
-WS02 FS180R18 2x1 Limit switch 2 Connections	On Board Signals Terminal Strip	+BM/-XBM	2_1	+24V	2.00	BU	+BM/-S13.2	11	BACK CARRIAGE LIMIT SWITCH
	On Board Signals Terminal Strip	+BM/-XBM	2_3	E0.2		BN	+BM/-S13.2	12	BACK CARRIAGE LIMIT SWITCH
-WS03 FS180R18 4G1 Sensor 1 Connections	On Board Signals Terminal Strip	+BM/-XBM	3_1	+24V	2.00	BN	+BM/-SQ13.1	BN	CARRIAGE FORWARD POSITION
	On Board Signals Terminal Strip	+BM/-XBM	3_2	0V		BK	+BM/-SQ13.1	BU	CARRIAGE FORWARD POSITION
	On Board Signals Terminal Strip	+BM/-XBM	3_3	E0.3		GY	+BM/-SQ13.1	BK	CARRIAGE FORWARD POSITION
-WS04 FS180R18 4G1 Sensor 2 Connections	On Board Signals Terminal Strip	+BM/-XBM	4_1	+24V	2.00	BN	+BM/-SQ13.2	BN	CARRIAGE BACK POSITION
	On Board Signals Terminal Strip	+BM/-XBM	4_2	0V		BK	+BM/-SQ13.2	BU	CARRIAGE BACK POSITION
	On Board Signals Terminal Strip	+BM/-XBM	4_3	E0.4		GY	+BM/-SQ13.2	BK	CARRIAGE BACK POSITION
-WS05 FS180R18 2x1 Emitter photocell Connections	On Board Signals Terminal Strip	+BM/-XBM	5_1	+24V	2.50	BU	+BM/-BF13.1	BN	PROTECTIONS CLOSED - EMITTER
	On Board Signals Terminal Strip	+BM/-XBM	5_2	0V		BN	+BM/-BF13.1	BU	PROTECTIONS CLOSED - EMITTER
-WS06 FS180R18 4G1 Receiver photocell Connections	On Board Signals Terminal Strip	+BM/-XBM	6_1	+24V	1.50	BN	+BM/-BF13.2	BN	PROTECTIONS CLOSED - RECEVEIR
	On Board Signals Terminal Strip	+BM/-XBM	6_2	0V		BK	+BM/-BF13.2	BU	PROTECTIONS CLOSED - RECEVEIR
	On Board Signals Terminal Strip	+BM/-XBM	6_3	E0.6		GY	+BM/-BF13.2	BK	PROTECTIONS CLOSED - RECEVEIR

PROJECT	SPAC EXAMPLE 2021 SPAC Automazione Example			DATE	13/07/2021	DOCUMENT	Electric Diagram		
				DOC.Nr.					
				FILE	ELECTRICAL DIAGRAM	External Panel Cables		Sheet	Next Sheet
				DRAFT.	M.C.	Cavi esterno quadro		25	26
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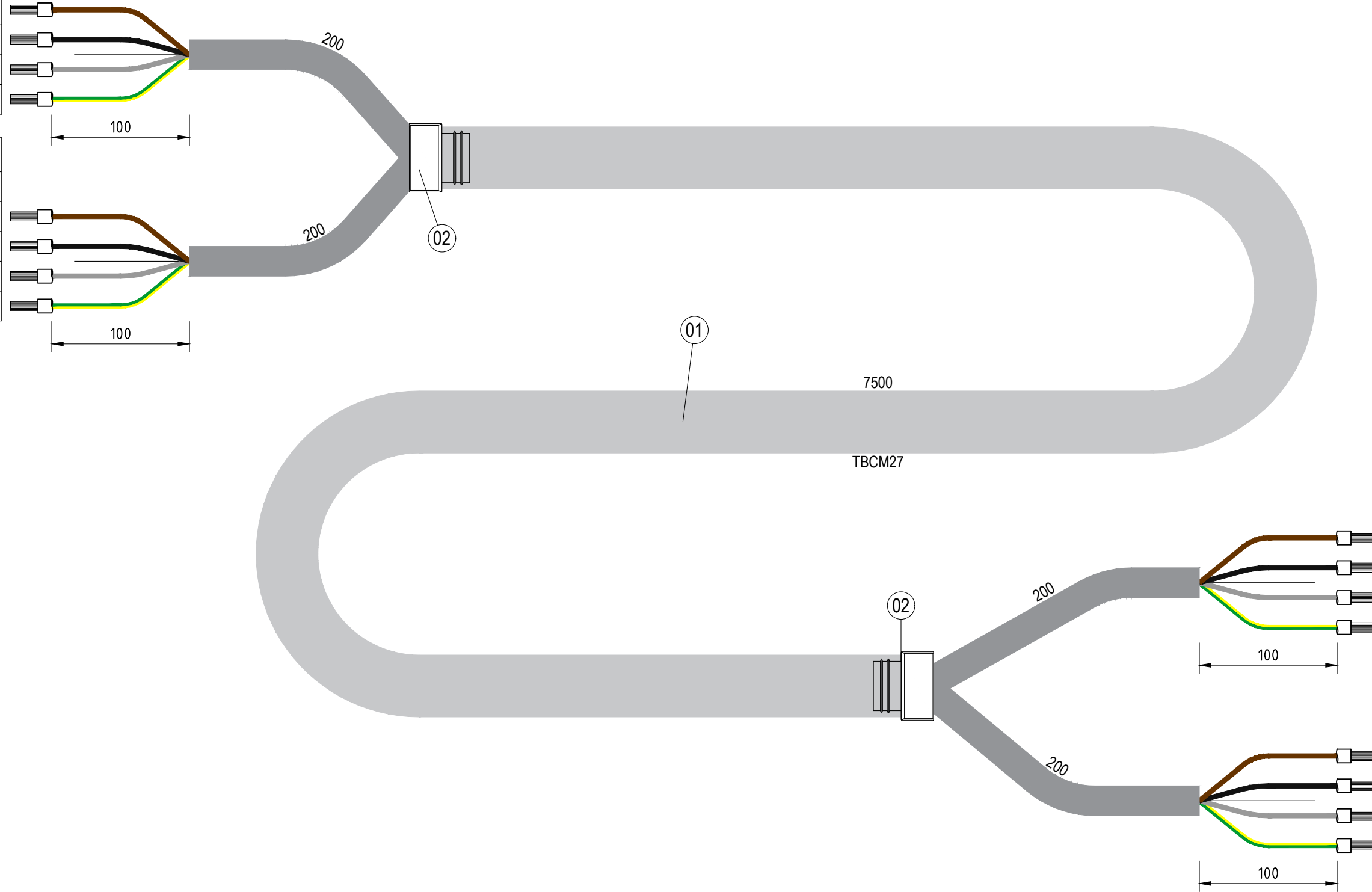
Pos	Marke/Costruttore	Type/Tipo	Description/Descrizione	Q.ty/Q.ta	UM
01	None	TBCM27	Metal tube with sheat in steel wires Diam. 27 mm	7.5	m
02	None	INSTB27	Insert for metal tube for end cover Diam 27 mm	2	PZ
	Prysmian	FG160M16 4G1.5	Multipolar Cable FG160M16 4G1.5 mmq	16.2	m

-XG			
Pole	Col.	Sec.	Cable
1	BN	1.5	-W01
2	BK	1.5	-W01
3	GY	1.5	-W01
4	GNYE	1.5	-W01

-XG			
Pole	Col.	Sec.	Cable
5	BN	1.5	-W02
6	BK	1.5	-W02
7	GY	1.5	-W02
8	GNYE	1.5	-W02

-XM1			
Pole	Col.	Sec.	Cable
1	BN	1.5	-W01
2	BK	1.5	-W01
3	GY	1.5	-W01
4	GNYE	1.5	-W01

-XM2			
Pole	Col.	Sec.	Cable
1	BN	1.5	-W02
2	BK	1.5	-W02
3	GY	1.5	-W02
4	GNYE	1.5	-W02



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				SPAC EXAMPLE 2021	13/07/2021	Electric Diagram		
				SPAC Automazione Example	DOC.Nr.			
				SDProget	FILE	Constructive Cables (C4S Example)	26	27
			Industrial Software	DRAFT.	M.C.	Costruttivo Cavi (Esempio C4S)		
			www.sdproget.it	APPR.				

Cables list table with Calculation results
Tabella elenco Cavi con risultati di Calcolo

Cable / Cavo	Function / Funzione	Type / Tipo	Lenght/Lungh.	Volatage BT/Tensione	Temp. (K T)	Power/Potenza	Cos Phi	dU tot. (%)	STH (mmq)	IB (A)	IZ (A)	Voltage	dU circuit. (%)
-W01	=QG -XM1 Connections	FG160M16 4G1.5	7.00	400	30	750	1	4	1.5	1.08	9.75	399.8	0.05
-W02	=QG -XM2 Connections	FG160M16 4G1.5	7.50	400	30	1000	1	4	1.5	1.44	9.75	399.72	0.07
-W03	=P1 - XCn1 Connections	FS180R18 24G1	6.50										
-W04	Ammeter Connections	FR20HH2R 5x1.5	6.50										
-W05	Inverter command Connections	FR20HH2R 12x1.5	6.50										
-W06	=P1 - XCnP1 Connections	FS180R18 24G1	6.50										
-W07	Light Supply	FS180R18 2x1.5	2.50										
-WM01	Pincers Motor Connections	FG160M16 4G1.5	1.00	400	30	750	1	4	1.5	1.08	15	399.97	0.01
-WM02	Carriage Motor Connections	FG160M16 4G1.5	1.50	400	30	1000	1	4	1.5	1.44	15	399.94	0.01
-WM03	Rolls Motor Connections	FG160M16 4G1.5	1.00	400	30	750	1	4	1.5	1.08	15	399.97	0.01
-WM10	Inverter Motor Connections	FG160M16 4G4	7.50										
-WS01	Limit switch 1 Connections	FS180R18 2x1	2.00										
-WS02	Limit switch 2 Connections	FS180R18 2x1	2.00										
-WS03	Sensor 1 Connections	FS180R18 4G1	2.00										
-WS04	Sensor 2 Connections	FS180R18 4G1	2.00										
-WS05	Emitter photocell Connections	FS180R18 2x1	2.50										
-WS06	Receiver photocell Connections	FS180R18 4G1	1.50										
-WS07	=BM - XBM Connections	FS180R18 16G1	6.00										

				PROJECT	SPAC EXAMPLE 2021 SPAC Automazione Example	DATE	13/07/2021	DOCUMENT	Electric Diagram		
						DOC.Nr.					
						FILE	ELECTRICAL DIAGRAM		External Panel Cables	Sheet	Next Sheet
						DRAFT.	M.C.		<i>Cavi esterno quadro</i>	27	28
REV.	MODIFY	DATE	Signature			APPR.					

A

B

C

D

E

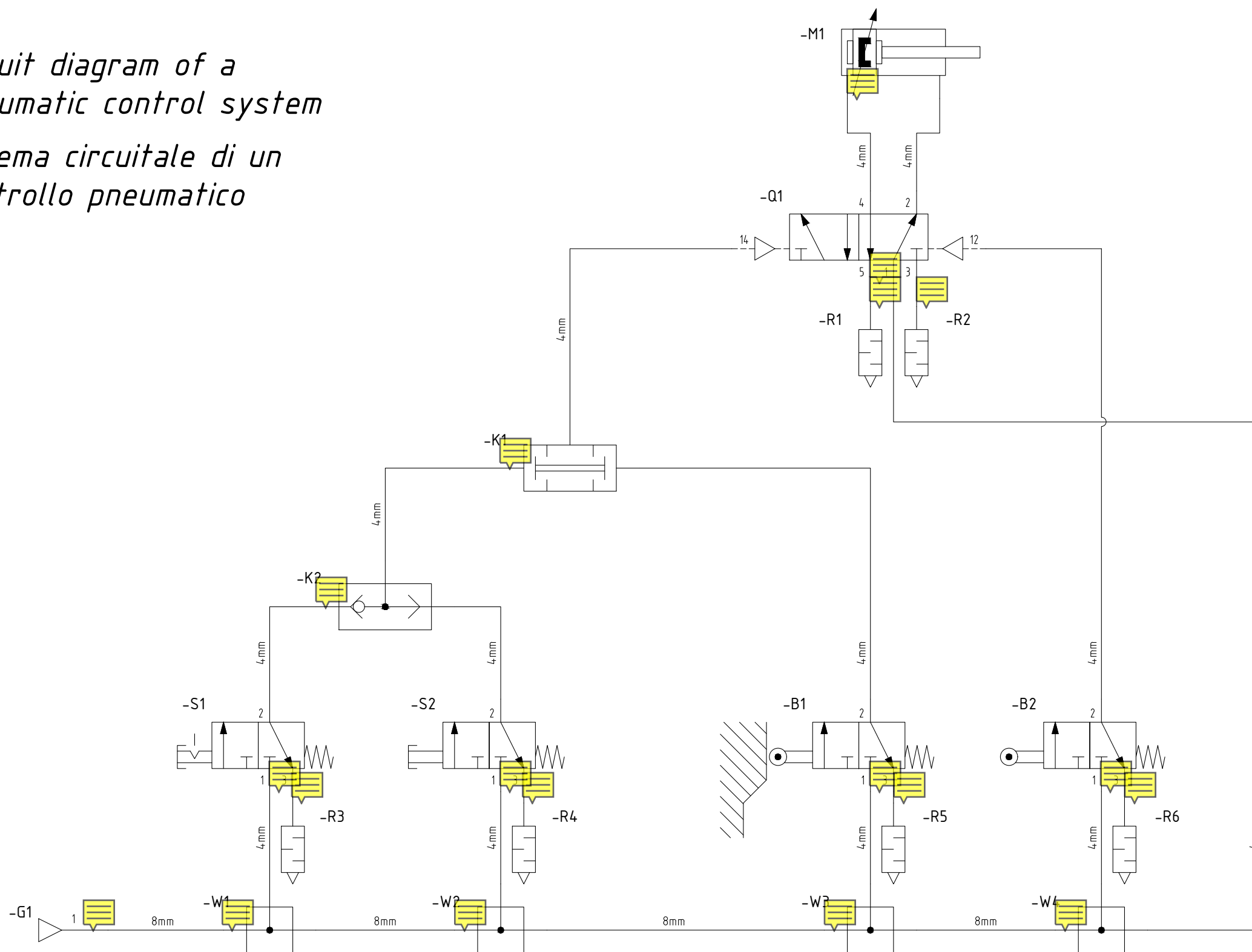
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CABLE NO.	TYPE	TERMINAL STRIP DESIGNATION										CABLE NO.	TYPE		
		ORIGIN MARK		TERMINAL	JUMPERS	TERMINAL NO.	WIRE NO.	SHEET REF.	DESTINATION MARK		TERMINAL			DESTINATION MARK	
		DESIGNATION GROUP							DESIGNATION GROUP						DESCRIPTION
-WS07	FS180R18 16G1														
		1	1	+QG - -XG	29	○	1	+24V	13.2B	+BM - -S13.1	11	FORWARD CARRIAGE LIMIT SWITCH	-WS06	FS180R18 4G1	1.50
		2	2			○	1						-WS05	FS180R18 2x1	2.50
		4	3	+QG - -XG	37	○	1	E0.1	13.2D	+BM - -S13.1	12	FORWARD CARRIAGE LIMIT SWITCH	-WS04	FS180R18 4G1	2.00
		1	1			○	2	+24V	13.3B	+BM - -S13.2	11	BACK CARRIAGE LIMIT SWITCH	-WS03	FS180R18 4G1	2.00
		2	2			○	2						-WS02	FS180R18 2x1	2.00
		5	3	+QG - -XG	38	○	2	E0.2	13.3D	+BM - -S13.2	12	BACK CARRIAGE LIMIT SWITCH	-WS01	FS180R18 2x1	2.00
		2	1	+QG - -XG	30	○	3	+24V	13.4B	+BM - -SQ13.1	BN	CARRIAGE FORWARD POSITION			
		3	2	+QG - -XG	32	○	3	0V	13.4B	+BM - -SQ13.1	BU	CARRIAGE FORWARD POSITION			
		6	3	+QG - -XG	39	○	3	E0.3	13.4D	+BM - -SQ13.1	BK	CARRIAGE FORWARD POSITION			
		1	1			○	4	+24V	13.5B	+BM - -SQ13.2	BN	CARRIAGE BACK POSITION			
		2	2			○	4	0V	13.5B	+BM - -SQ13.2	BU	CARRIAGE BACK POSITION			
		7	3	+QG - -XG	40	○	4	E0.4	13.5D	+BM - -SQ13.2	BK	CARRIAGE BACK POSITION			
		1	1			○	5	+24V	13.6B	+BM - -BF13.1	BN	PROTECTIONS CLOSED - EMITTER			
		2	2			○	5	0V	13.7B	+BM - -BF13.1	BU	PROTECTIONS CLOSED - EMITTER			
		3	3			○	5								
		1	1			○	6	+24V	13.7B	+BM - -BF13.2	BN	PROTECTIONS CLOSED - RECEVEIR			
		2	2			○	6	0V	13.7B	+BM - -BF13.2	BU	PROTECTIONS CLOSED - RECEVEIR			
		8	3	+QG - -XG	41	○	6	E0.6	13.7D	+BM - -BF13.2	BK	PROTECTIONS CLOSED - RECEVEIR			
		1	1			○	7								
		9	2	+QG - -XG	27	○	7	05.05	16.6E	+BM - -HL16.1	3	TOWER LIGHTS			
		3	3			○	7								
		1	1			○	8								
		2	2			○	8								
		10	3	+QG - -XG	47	○	8	16.02	16.5D	+BM - -HL16.1	4	TOWER LIGHTS			
		1	1			○	9								
		2	2			○	9								
		11	3	+QG - -XG	48	○	9	16.03	16.6D	+BM - -HL16.1	1	TOWER LIGHTS			
		1	1			○	10								
		2	2			○	10								
		12	3	+QG - -XG	49	○	10	16.04	16.7D	+BM - -HL16.1	2	TOWER LIGHTS			
						○									
						○									
						○									
						○									

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					SDProget Industrial Software www.sdproget.it	DOC.Nr.			+QG / +BM Bidirectional Cables Table	28	29
						FILE	ELECTRICAL DIAGRAM		Tabella Cavi Bidirezionale +QG / +BM		
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*Circuit diagram of a
pneumatic control system*

*Schema circuitale di un
controllo pneumatico*



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DOCUMENT Electric Diagram

Pneumatic Diagram example

Esempio Schema Pneumatico

Sheet

29

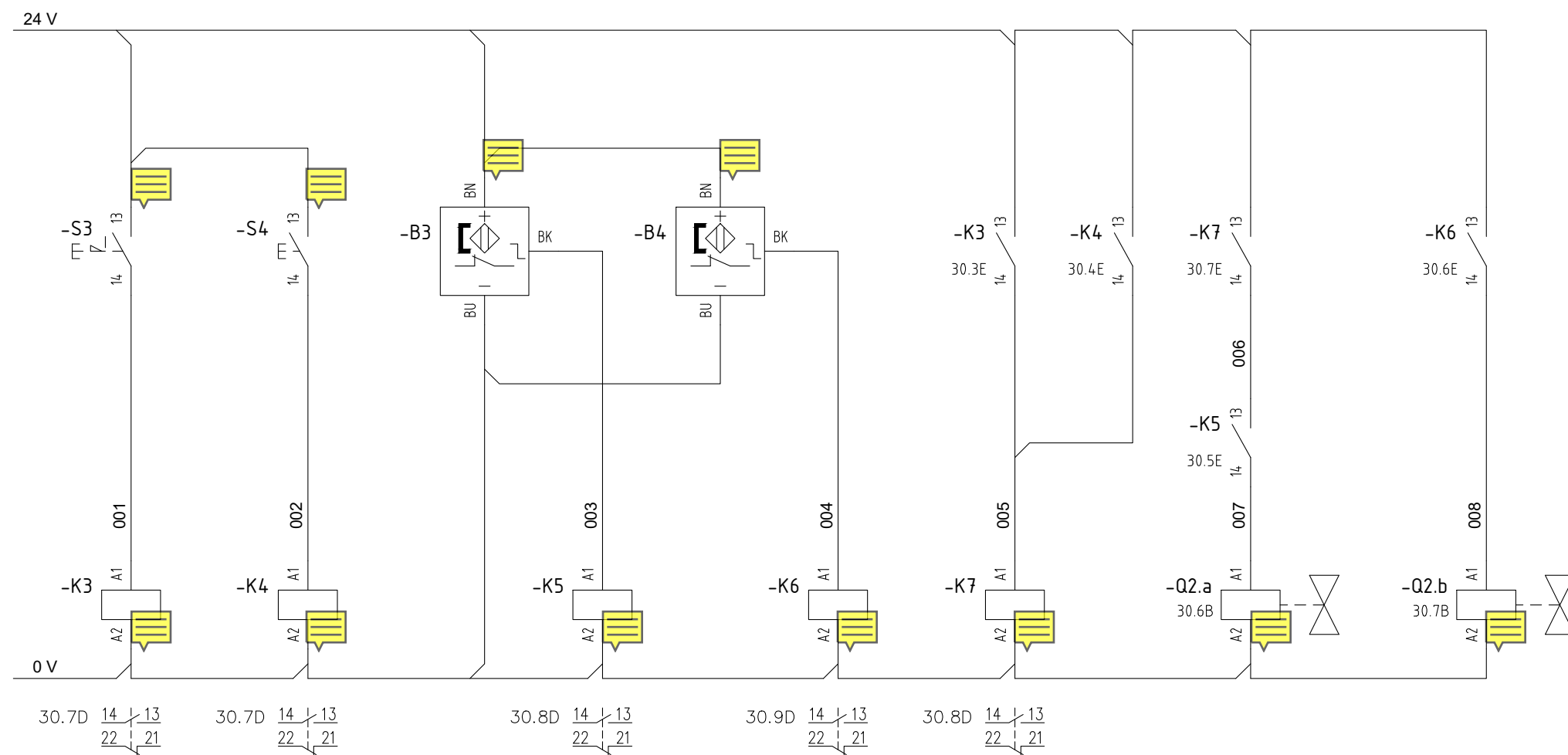
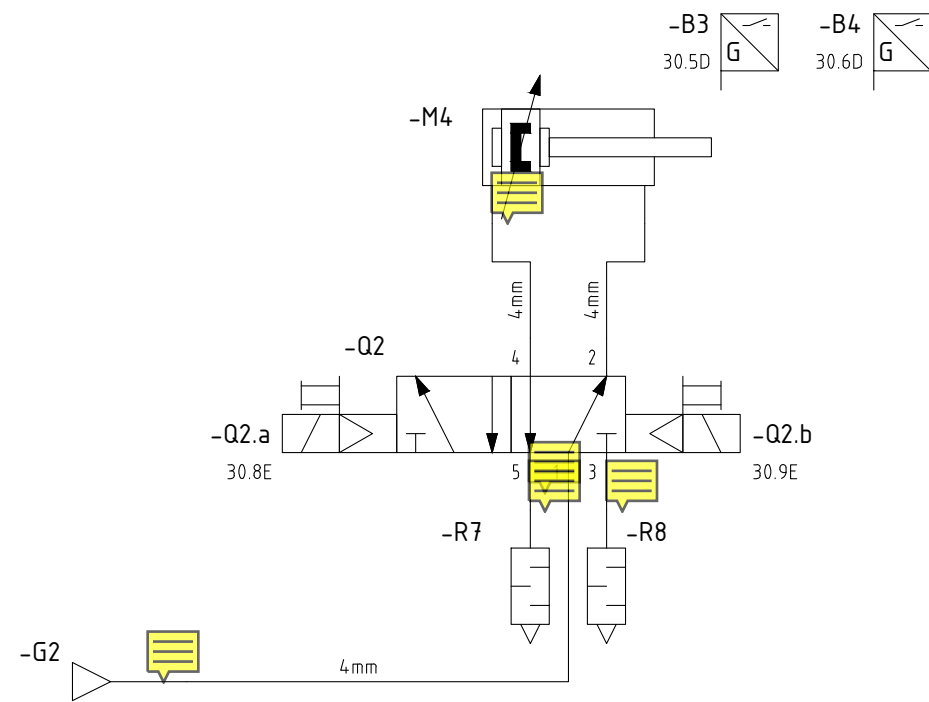
Next Sheet

30

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Circuit diagram of an electro-pneumatic control system

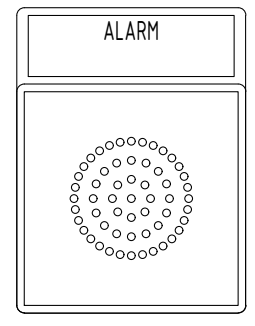
Schema circuitale di un controllo elettro-pneumatico



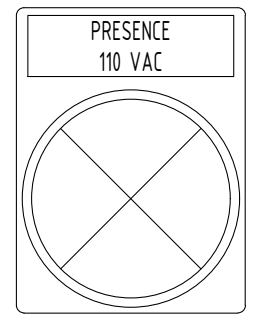
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SDProget Industrial Software www.sdproget.it				DOC.Nr.		Pneumatic Diagram example		Sheet	
REV. MODIFY DATE Signature				FILE ELECTRICAL DIAGRAM		Esempio Schema Pneumatico		Next Sheet	
				DRAFT. M.C.				30 31	
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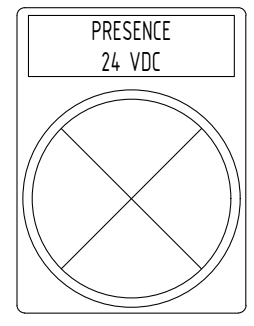
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RD



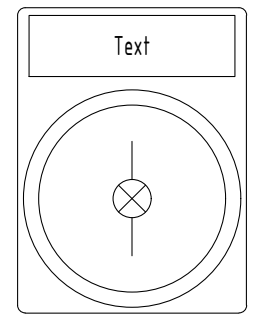
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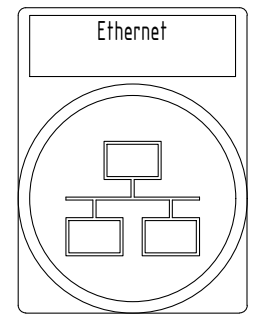
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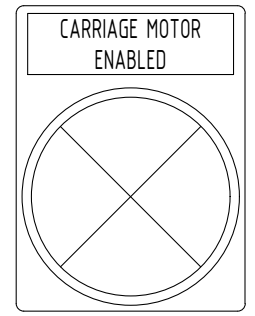
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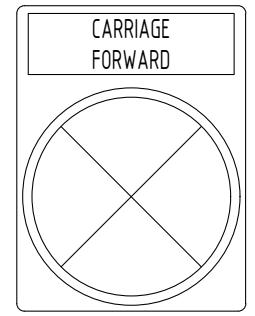
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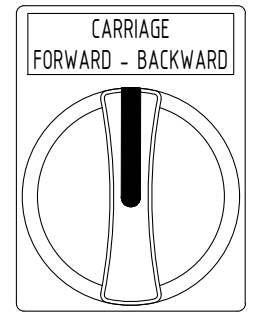
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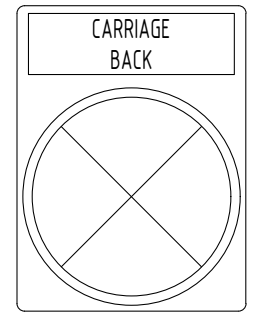
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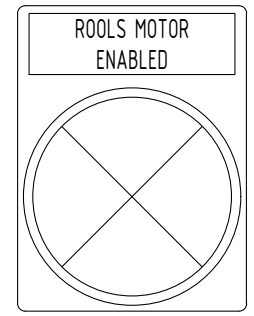
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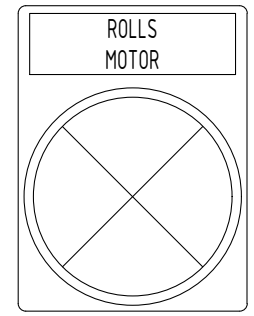
-SA14.1
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-HL11.2
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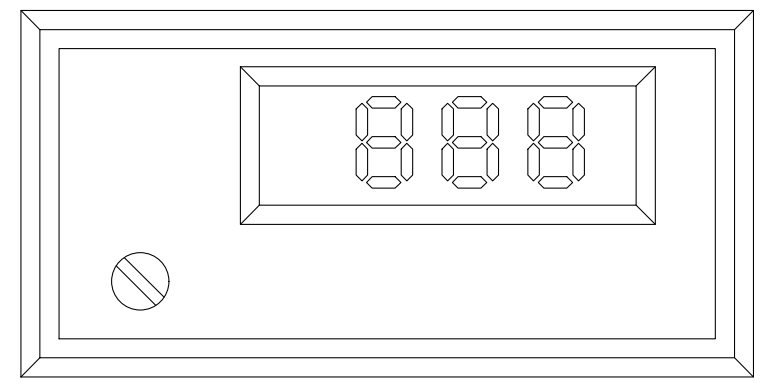


-HL16.4
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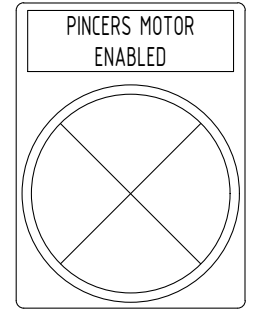


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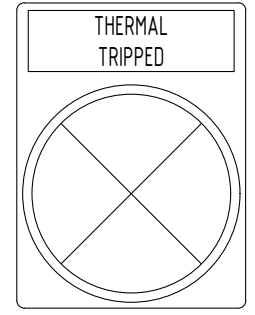
INVERTER MOTOR LOAD AMMETER



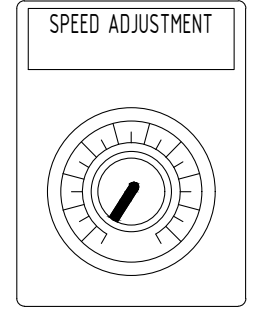
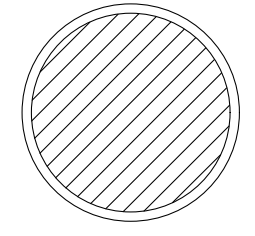
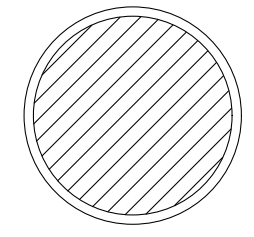
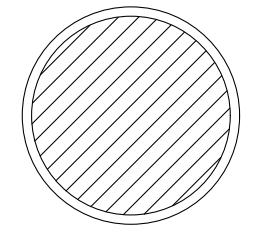
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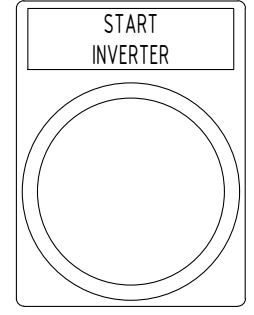
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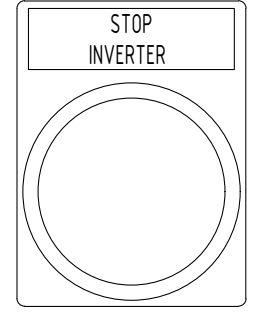
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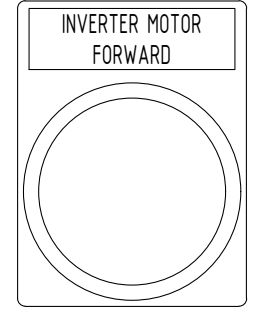
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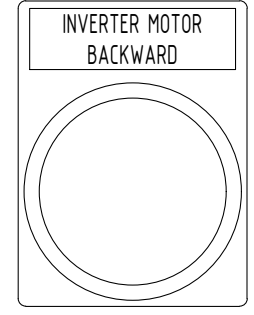
-SB08.1
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-SB10.1
RD



-SB10.2
BU



-SB10.3
BU

02	Inverter Replacement	01/10/19	CM
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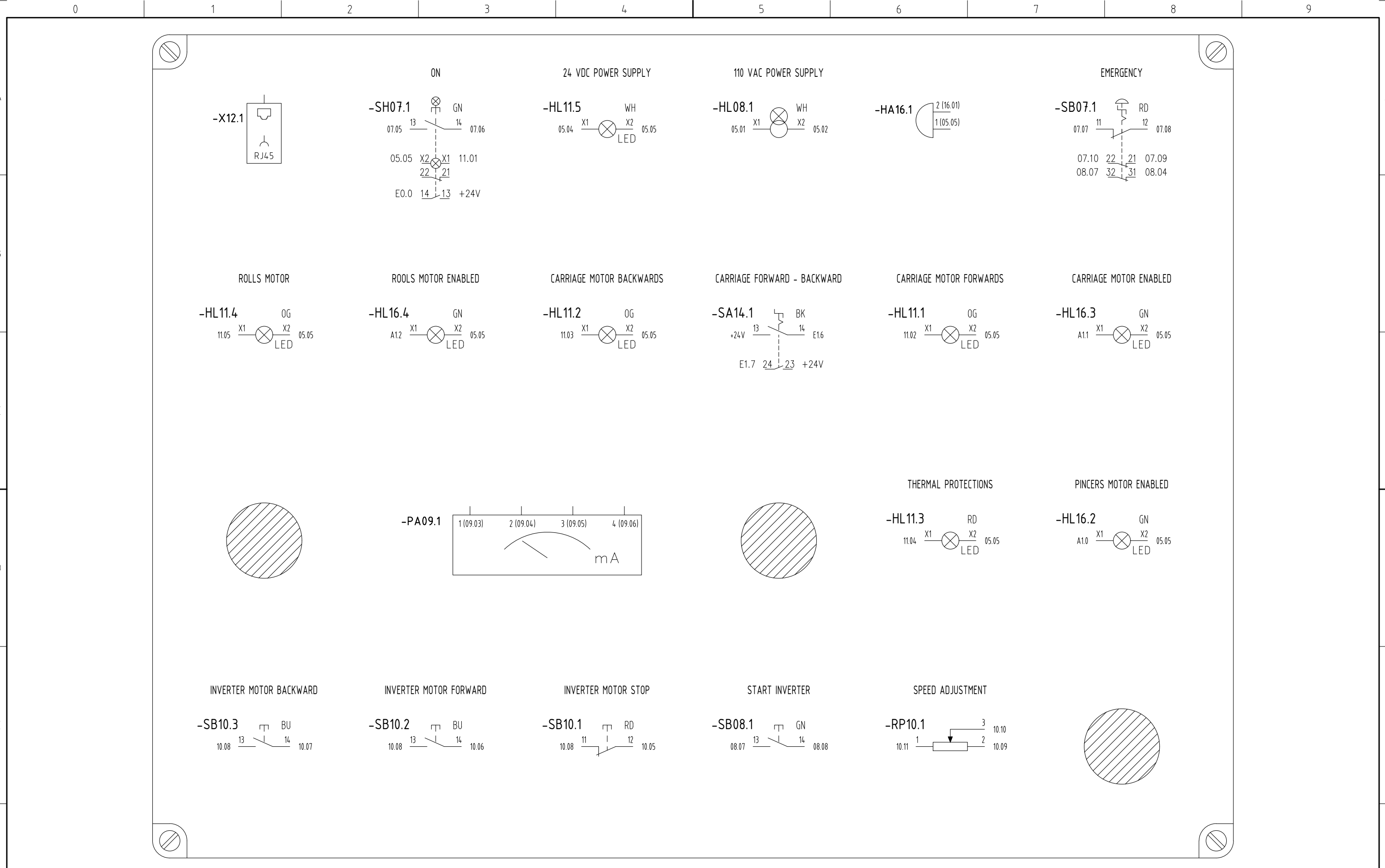
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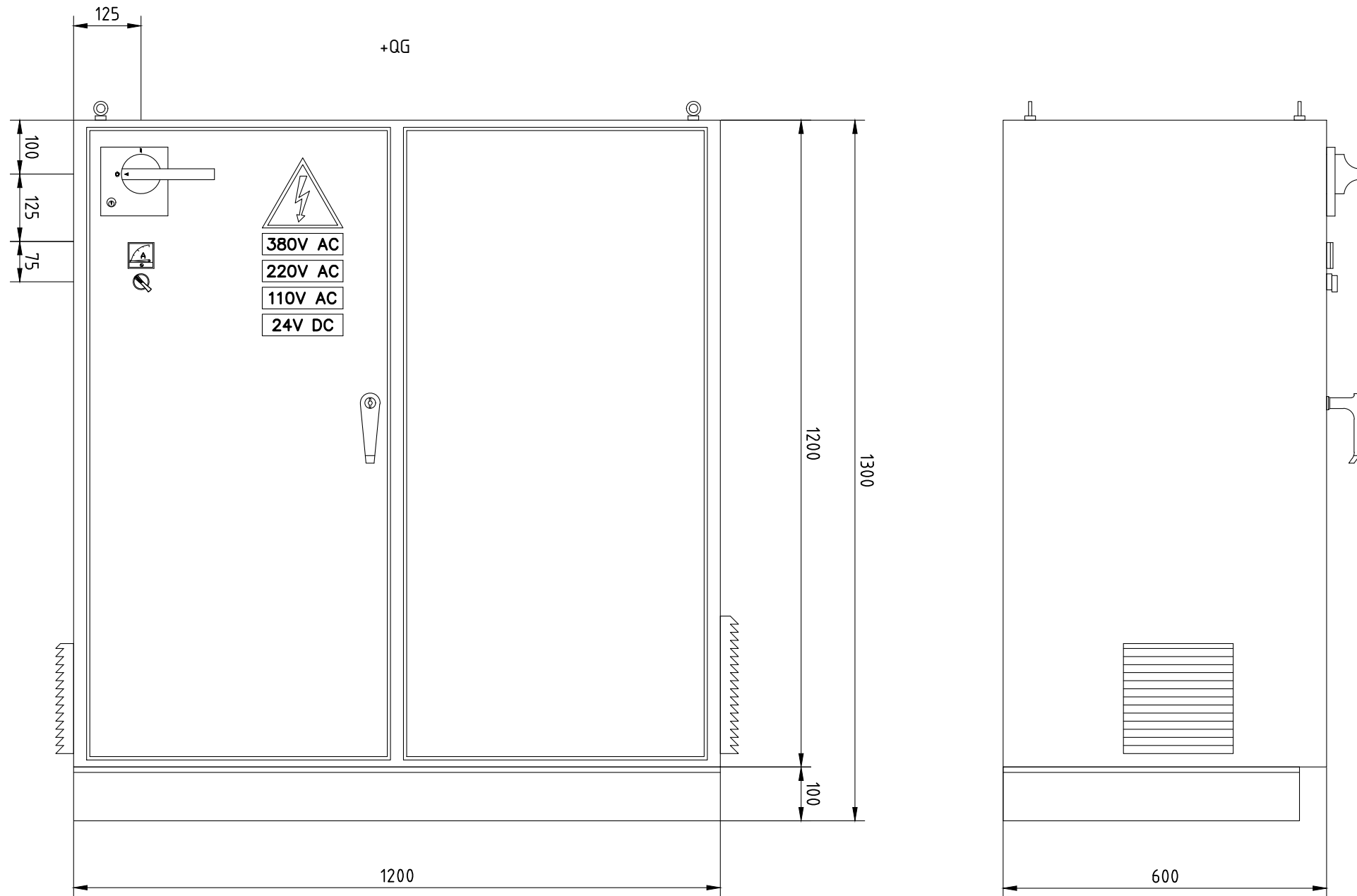
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DOCUMENT Electric Diagram

+P1 Push Button Panel - Front
Fronte Pulsantiera +P1



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02	Inverter Replacement	01/10/19	CM	FILE ELECTRICAL DIAGRAM	Retro Pulsantiera +P1		32	33
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Panel: +QG Name: +QG

Q.ty	Manufacturer	Code	Description
2	Schneider Electric	NSYSF12660	cabinet SF plain door no plate 1200x600x600,
1	Schneider Electric	NSY2SP126	2 side panels for SF 1200x600 mm
1	Schneider Electric	NSYEC662	Cable entry plate 2 entry 600x600 mm
1	Schneider Electric	NSYEC66	Single cable gland 600x600 mm
2	Schneider Electric	NSYSPF6100	Front and back and corner panels of the plinth 600x100
2	Schneider Electric	NSYSPS6100	2 side plinth panels 600x100
1	Schneider Electric	NSYSFBK	Spacial SF standard coupling kit - IP55 - coupling side-by-side or depthwise
1	Schneider Electric	NSYSFEB	Set of 4 Spacial SF M12 lifting eyebolt - galvanized cast steel
1	Schneider Electric	NSYDPA3	A3 plastic document pocket - 285x476x35 mm
2	Schneider Electric	NSYSFHS1	Spacial SF/SM handle for shape inserts and cylindrical barrels



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				SDProget Industrial Software www.sdproget.it		DOC.Nr.		External Layout <i>Esterno Armadio</i>		Sheet		Next Sheet
02	Inverter Replacement	01/10/19	CM			FILE	ELECTRICAL DIAGRAM			33		34
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						APPR.						

Armadio / Panel

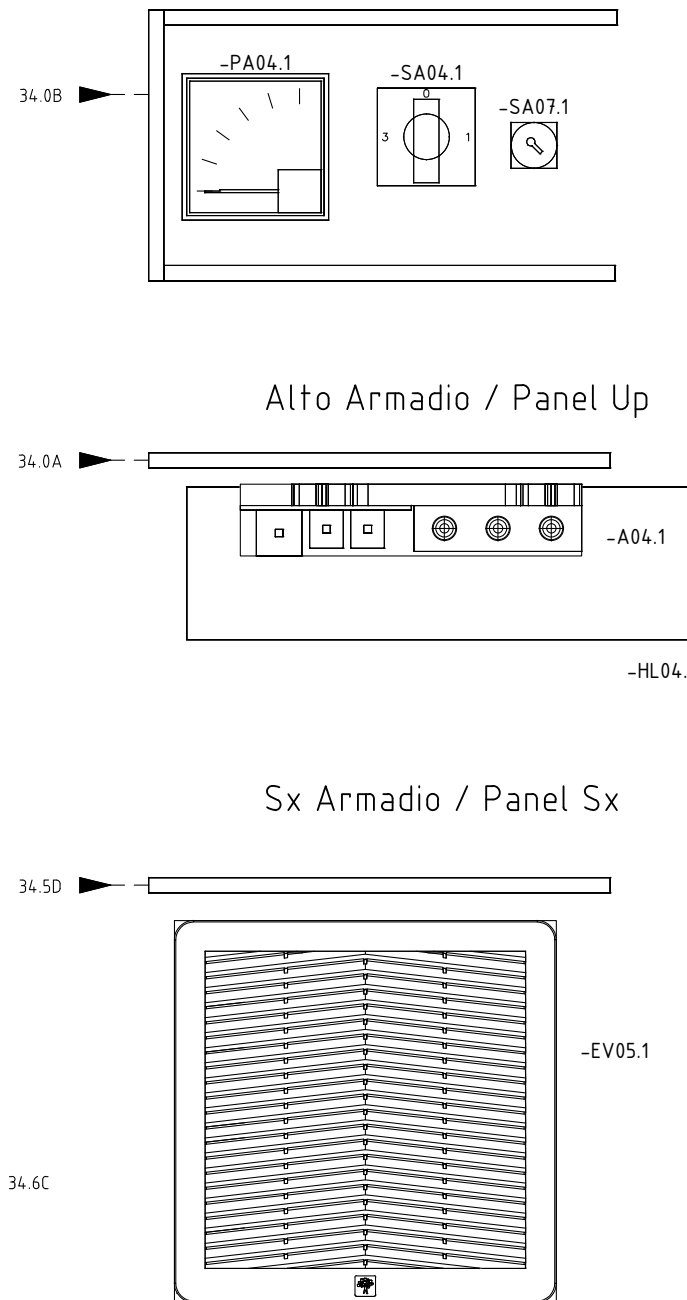
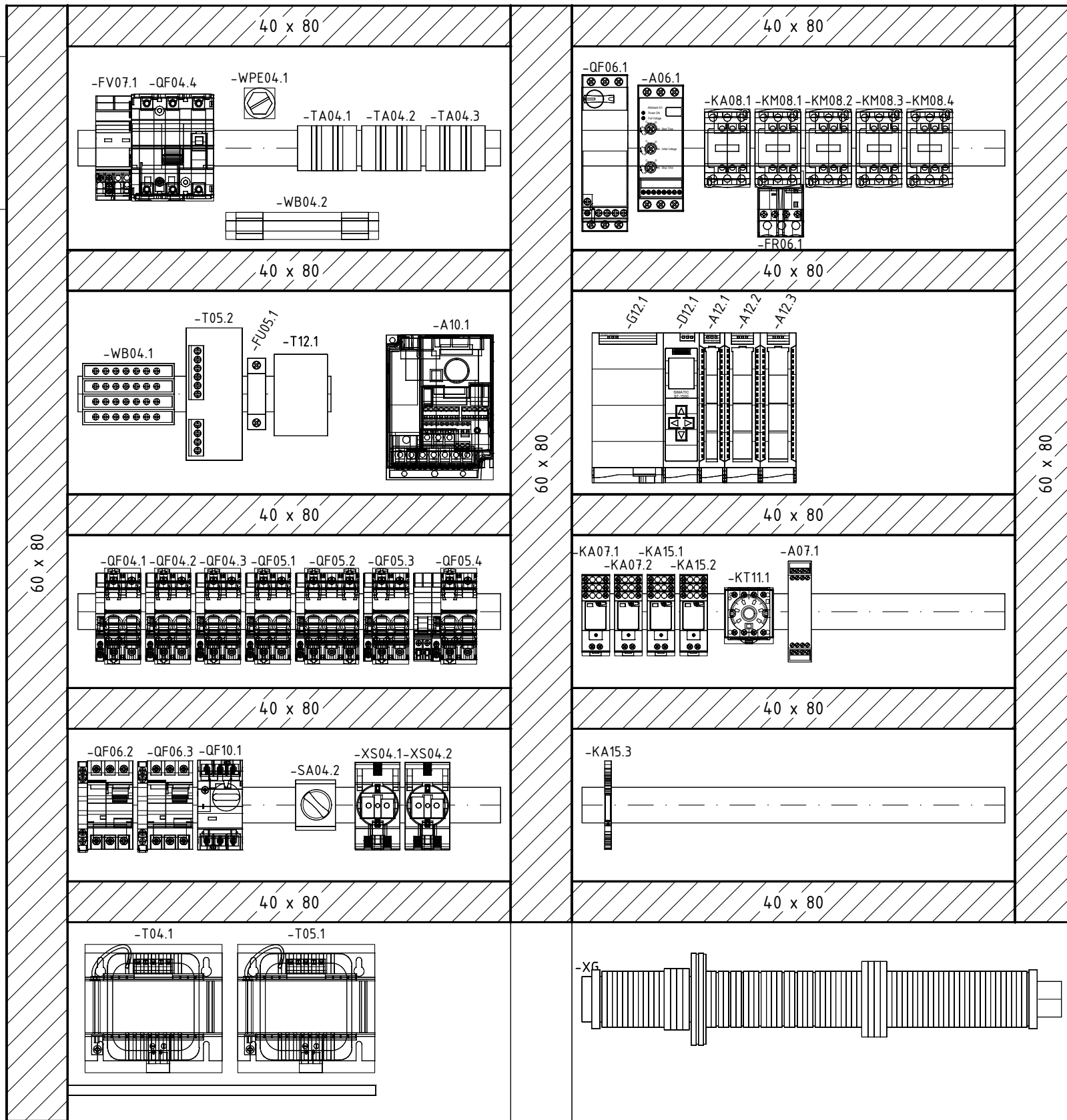
+QG-Piastra1

+QG-Piastra2

Porta Armadio / Panel Door

Alto Armadio / Panel Up

Sx Armadio / Panel Sx



Cutting Table Raceways and Rail +QG		
Q.ty	Length (mm)	Dimensions (mm) Type
1	1095	60 x 80 02570
2	900	60 x 80 02570
10	435	40 x 80 02567
6	415	35 x 7 536LO-2
1	248.44	35 x 7 536LO-2
1	470.72	35 x 7 536LO-2

Description
Wiring trunking T1-N 60x80 G GRAY
Wiring trunking T1-N 60x80 G GRAY
Wiring trunking T1-N 40x80 G GRAY
DIN rail EN60715 35x7,5x1,5 punched
DIN rail EN60715 35x7,5x1,5 punched
DIN rail EN60715 35x7,5x1,5 punched

REV.	MODIFY	DATE	Signature
02	Inverter Replacement	01/10/19	CM

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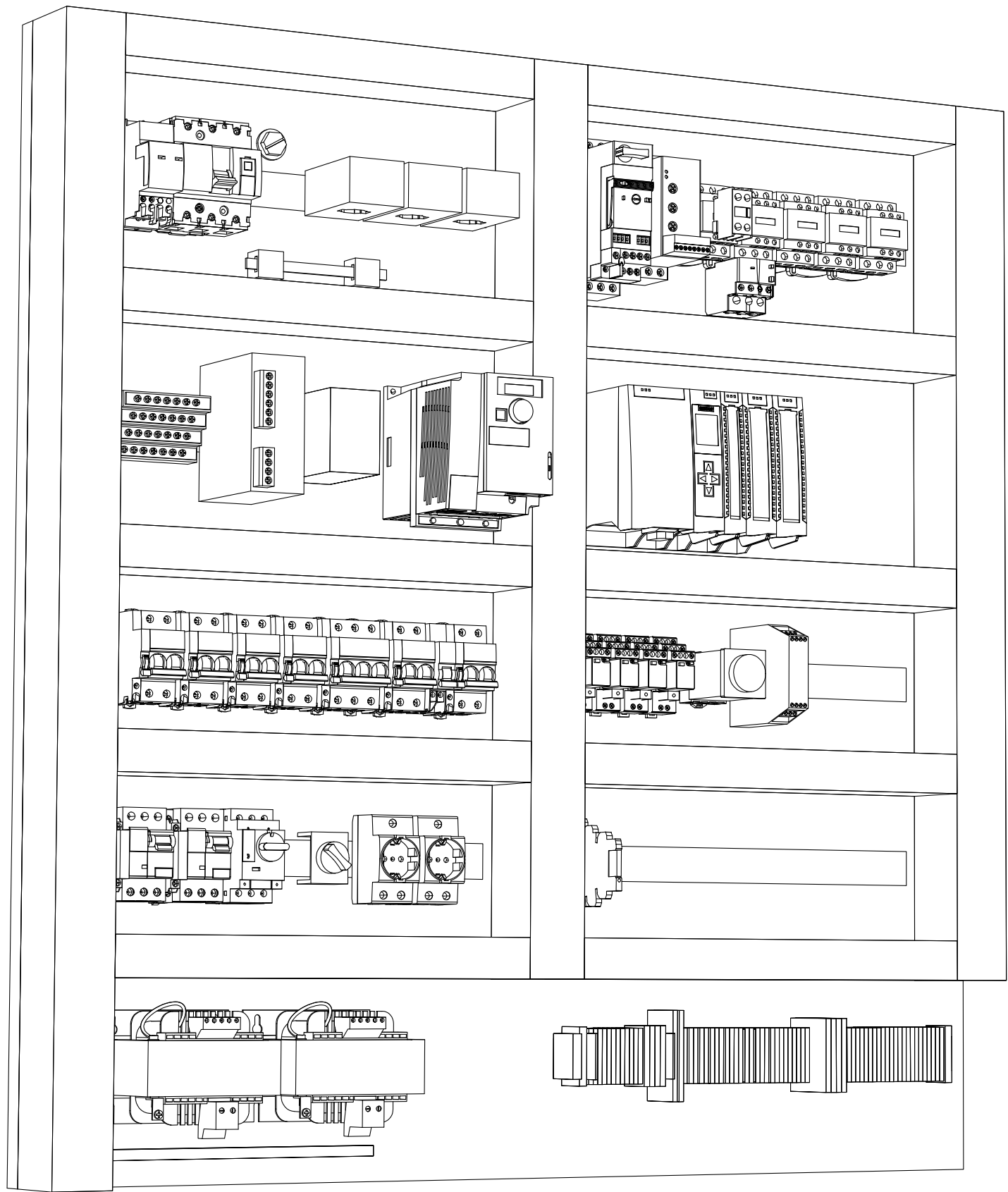
DATE 13/07/2021
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DOCUMENT Electric Diagram

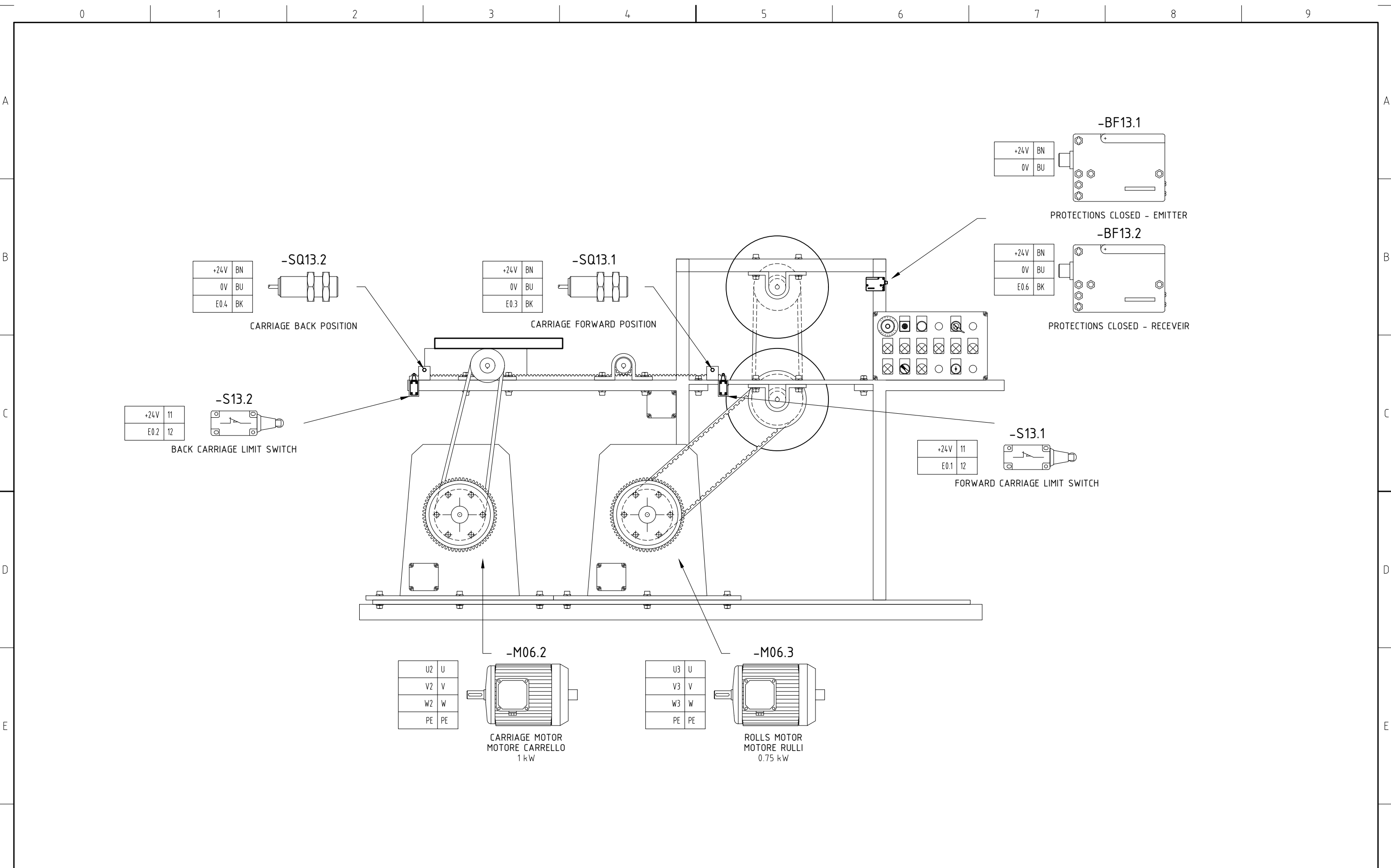
Internal Panel Layout
 Layout Interno Armadio

Scala 1=5

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				PROJECT	SPAC EXAMPLE 2021 SPAC Automazione Example	DATE	13/07/2021	DOCUMENT	Electric Diagram		
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02	Inverter Replacement	01/10/19	CM			FILE	ELECTRICAL DIAGRAM			35	36
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SDProget Industrial Software www.sdproget.it				DOC.Nr.		+BM Panel Wiring		Sheet	Next Sheet
02	Inverter Replacement	01/10/19	CM	FILE ELECTRICAL DIAGRAM		Bordo Macchina +BM		36	37
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Name	Type	Description	Manufacturer	Panel	Sheet	Q.ty
+QG	NSYSF12660	cabinet SF plain door no plate 1200x600x600,	Schneider Electric	+QG	33	2
	NSY2SP126	2 side panels for SF 1200x600 mm	Schneider Electric			1
	NSYEC662	Cable entry plate 2 entry 600x600 mm	Schneider Electric			1
	NSYEC66	Single cable gland 600x600 mm	Schneider Electric			1
	NSYSPF6100	Front and back and corner panels of the plinth 600x100	Schneider Electric			2
	NSYSPS6100	2 side plinth panels 600x100	Schneider Electric			2
	NSYSFBK	Spacial SF standard coupling kit - IP55 - coupling side-by-side or depthwise	Schneider Electric			1
	NSYSFEB	Set of 4 Spacial SF M12 lifting eyebolt - galvanized cast steel	Schneider Electric			1
	NSYDPA3	A3 plastic document pocket - 285x476x35 mm	Schneider Electric			1
	NSYSFHS1	Spacial SF/SM handle for shape inserts and cylindrical barrels	Schneider Electric			2
	+QG-Piastra1	NSYMP126	Internal plate in casing sheet metal 1200x600			Schneider Electric
+QG-Piastra2	NSYMP126	Internal plate in casing sheet metal 1200x600	Schneider Electric	+QG	34	1
-A04.1	050AS01FC	Flashing safety device	Elfin	+QG	04	1
-A06.1	ATSU01N206LT	TeSys U SoftStarter, Altistart ATSU 01N206LT	Schneider Electric	+QG	06	1
-A07.1	XPSAF5130	Safety module for emergency stop and limit switch monitoring XPS AF - 24 V AC/DC (terminal block integrated)	Schneider Electric	+QG	07	1
-A10.1	ATV320U11N4C	AltivarATV320 Inverter compact format threephase 380-500V 1.1 kW 50/60 Hz	Schneider Electric	+QG	10	1
-A12.1	6ES7521-1BH10-0AA0	Digital inputs Module, DI 16x24VDC BA	Siemens	+QG	12	1
	6ES7592-1AM00-0XB0	Front connector, screw terminal, 40-pin	Siemens			1
-A12.2	6ES7522-5HF00-0AB0	Digital outputs Module, DQ 8x230VAC/5A ST (RELAY)	Siemens	+QG	12	1
	6ES7592-1AM00-0XB0	Front connector, screw terminal, 40-pin	Siemens			1
-A12.3	6ES7522-5HF00-0AB0	Digital outputs Module, DQ 8x230VAC/5A ST (RELAY)	Siemens	+QG	12	1
	6ES7592-1AM00-0XB0	Front connector, screw terminal, 40-pin	Siemens			1
-D12.1	6ES7513-1AL02-0AB0	CPU 1513-1 PN	Siemens	+QG	12	1
	6ES7954-8LL02-0AA0	Memory Card 256 Mbyte	Siemens			1
-EV05.1	GF15KU230BE	GF series fan filter 50/60 Hz Flow 224/270 mc/h	Fandis	+QG	05	1
-FR06.1	LRD08	TeSys LRD thermal overload relays - 2.5...4 A - class 10A	Schneider Electric	+QG	06	1
-FU05.1	EA 051 1	Fuseholder and microswitch,1P,50A	ABB	+QG	05	1
	Fuse 10A	Fuse 10A 8.5 x 31.3 mm	None			1
-FU16.1	0430700000	Fuse G 5x20 mm 250V 1.0A Fast	Weidmuller	+QG	16	1
-FU16.2	0430600000	Fuse G 5x20 mm 250V 0.50A Fast	Weidmuller	+QG	16	1
-FU16.3	0430600000	Fuse G 5x20 mm 250V 0.50A Fast	Weidmuller	+QG	16	1
-FU16.4	0430600000	Fuse G 5x20 mm 250V 0.50A Fast	Weidmuller	+QG	16	1
-FV07.1	19061	Voltage release - MNx - 220..240 V AC	Schneider Electric	+QG	07	1
-G12.1	6ES7507-0RA00-0AB0	System power supply, PS 60W 120/230V AC/DC	Siemens	+QG	12	1
-HL04.1	050PE8	Fluorescent electronic ceiling light	Elfin	+QG	04	1
-KA07.1	583290240050SMA	Modular interface relay	Finder	+QG	07	1
-KA07.2	583290240050SMA	Modular interface relay	Finder	+QG	07	1
-KA08.1	LC1D09F7	TeSys D contactor - 3P(3 NO) + 1 NO + 1 NC - AC-3 - <= 440 V 9 A - 110 V AC coil - 50/60 Hz - Screw clamp terminals	Schneider Electric	+QG	08	1
	LADN11	TeSys D - auxiliary contact block - 1 NO + 1 NC - screw-clamps terminals	Schneider Electric			1
	LAD4RCG	TeSys D - suppressor module - RC circuit - 50...127 V AC	Schneider Electric			1
-KA15.1	583290240050SMA	Modular interface relay	Finder	+QG	15	1
-KA15.2	583290240050SMA	Modular interface relay	Finder	+QG	15	1
-KA15.3	391070249024	Series 39 - Modular interface 24 V, 1 NO (SSR), Sensitive DC, MasterBASIC, screw terminals, 6 A - 24 VDC	Finder	+QG	15	1
-KM08.1	LC1D09F7	TeSys D contactor - 3P(3 NO) + 1 NO + 1 NC - AC-3 - <= 440 V 9 A - 110 V AC coil - 50/60 Hz - Screw clamp terminals	Schneider Electric	+QG	08	1
	LAD4RCG	TeSys D - suppressor module - RC circuit - 50...127 V AC	Schneider Electric			1

PROJECT SPAC EXAMPLE 2021 SPAC Automazione Example				DATE 13/07/2021		DOCUMENT Electric Diagram			
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Name	Type	Description	Manufacturer	Panel	Sheet	Q.ty
-KM08.2	LC1D09F7 LAD4RCG	TeSys D contactor - 3P(3 NO) + 1 NO + 1 NC - AC-3 - <= 440 V 9 A - 110 V AC coil - 50/60 Hz - Screw clamp terminals TeSys D - suppressor module - RC circuit - 50...127 V AC	Schneider Electric Schneider Electric	+QG	08	1 1
-KM08.3	LC1D09F7 LAD4RCG	TeSys D contactor - 3P(3 NO) + 1 NO + 1 NC - AC-3 - <= 440 V 9 A - 110 V AC coil - 50/60 Hz - Screw clamp terminals TeSys D - suppressor module - RC circuit - 50...127 V AC	Schneider Electric Schneider Electric	+QG	08	1 1
-KM08.4	LC1D09F7 LAD4RCG	TeSys D contactor - 3P(3 NO) + 1 NO + 1 NC - AC-3 - <= 440 V 9 A - 110 V AC coil - 50/60 Hz - Screw clamp terminals TeSys D - suppressor module - RC circuit - 50...127 V AC	Schneider Electric Schneider Electric	+QG	08	1 1
-KT11.1	881202300002 9026SMA	Plug-in timer Screw terminal socket+BS62	Finder Finder	+QG	11	1 1
-PA04.1	EG 443 4 EG 857 5	AMT1-A1/96 front-panel analogue ammeter SCL-A1-100/48 scale for front-panel analogue ammeter	Abb Abb	+QG	04	1 1
-QF04.1	A9F94210 A9A26924	iC60L - miniature circuit breaker - 2P - 10A - C curve Acti 9 - Auxiliary contact iOF - 1 C/O - AC/DC	Schneider Electric Schneider Electric	+QG	04	1 1
-QF04.2	A9F94210 A9A26924	iC60L - miniature circuit breaker - 2P - 10A - C curve Acti 9 - Auxiliary contact iOF - 1 C/O - AC/DC	Schneider Electric Schneider Electric	+QG	04	1 1
-QF04.3	A9F94206 A9A26924	iC60L - miniature circuit breaker - 2P - 6A - C curve Acti 9 - Auxiliary contact iOF - 1 C/O - AC/DC	Schneider Electric Schneider Electric	+QG	04	1 1
-QF04.4	18604 19088	NG125 - circuit breaker - NG125A - 3P - 100A - C curve Front rotary handle NG 125 - black handle - 3 poles or 4 poles	Schneider Electric Schneider Electric	+QG	04	1 1
-QF05.1	A9F94203 A9A26924	iC60L - miniature circuit breaker - 2P - 3A - C curve Acti 9 - Auxiliary contact iOF - 1 C/O - AC/DC	Schneider Electric Schneider Electric	+QG	05	1 1
-QF05.2	A9F94306 A9A26924	iC60L - miniature circuit breaker - 3P - 6A - C curve Acti 9 - Auxiliary contact iOF - 1 C/O - AC/DC	Schneider Electric Schneider Electric	+QG	05	1 1
-QF05.3	A9F94201 A9A26924	iC60L - miniature circuit breaker - 2P - 1A - C curve Acti 9 - Auxiliary contact iOF - 1 C/O - AC/DC	Schneider Electric Schneider Electric	+QG	05	1 1
-QF05.4	A9F94202 A9A26924 A9A26960	iC60L - miniature circuit breaker - 2P - 2A - C curve Acti 9 - Auxiliary contact iOF - 1 C/O - AC/DC Undervoltage release, Acti9, iMN, voltage release, 220...240 V AC	Schneider Electric Schneider Electric Schneider Electric	+QG	05	1 1 1
-QF06.1	LUB12 LUCB1XBL LUFV2 LUA1C11	Power base, 12A with control screw clamp connections Advanced control unit for Class 10 3-phase motors: supply 24V DC, setting range 0.35...1.4A Function module - Indication of motor load (4-20mA) Power base Add-on contact block 1 NC + 1 NO	Schneider Electric Schneider Electric Schneider Electric Schneider Electric	+QG	06	1 1 1 1
-QF06.2	21106 21116	P25M - circuit breaker - P25M - 3P - 2.5A - curve Auxiliary contact - 2 NO - for P25M - 415 V - 2.2 A	Schneider Electric Schneider Electric	+QG	06	1 1
-QF06.3	21106 21116	P25M - circuit breaker - P25M - 3P - 2.5A - curve Auxiliary contact - 2 NO - for P25M - 415 V - 2.2 A	Schneider Electric Schneider Electric	+QG	06	1 1
-QF10.1	GV2L10	Motor circuit breaker, TeSys GV2, 3P, 6.3 A, magnetic, rotary handle, screw clamp terminals	Schneider Electric	+QG	10	1
-SA04.1	EH 775 8	QCA-4 4P 48X48 Amperometric Switch	Abb	+QG	04	1
-SA04.2	XB5AD21	Selector switch 230VAC 2A XB5 +options	Schneider Electric	+QG	04	1
-SA07.1	XB5AG61	Selector switch 230VAC 2A XB5 +options	Schneider Electric	+QG	07	1
-T04.1	ABL6TS40U	Transformer - Single winding - Single-phase (N-L1) or 2-phase (L1-L2) connection - 230/400 V AC - 230 V - 400 VA	Schneider Electric	+QG	04	1
-T05.1	ABL6TS40G	Transformer - Single winding - Single-phase (N-L1) or 2-phase (L1-L2) connection - 230/400 V AC - 115 V - 400 VA	Schneider Electric	+QG	05	1
-T05.2	XCSW241C	CSW241C Switching power supply Universal Power 1-2-3-phase 185...550 Vac & 270...770 Vdc / 24 Vdc 10 A	CABUR	+QG	05	1
-T12.1	6EP1332-5BA10	SITOP PSU100C 24 V/4 A. Stabilizes Power Supply: input AC 100-230V (DC 110-300 V), output DC 24V/4 A	Siemens	+QG	12	1
-TA04.1	EH 689 1	CT3/100 Current transformer	Abb	+QG	04	1
-TA04.2	EH 689 1	CT3/100 Current transformer	Abb	+QG	04	1

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Name	Type	Description	Manufacturer	Panel	Sheet	Q.ty
-TA04.3	EH 689 1	CT3/100 Current transformer	Abb	+QG	04	1
-WB04.1	8GF9872	TERMINAL BLOCKS 4P 125A 5UM	Siemens	+QG	04	1
-WB04.2	0348900000 0299860000	SSCH 10X3X1000 CU/SN SH 1 Rail support, Polyamide 66	Weidmuller Weidmuller	+QG	04	1 2
-WPE04.1				+QG	04	1
-XG	1521850000 1521680000 1521930000 1547650000 2429870000 2051180000 2051360000 0485560000 1514400000 1547690000 1631930000 1991920000 2488970000 1527540000 1527740000 2108470000	A2C 2.5 Feed-through terminal, PUSH IN, 2.5 mm ² , 800 V, 24 A, dark beige A2C 2.5 PE PE terminal, PUSH IN, 2.5 mm ² , Green/yellow A2C 2.5 OR Feed-through terminal, PUSH IN, 2.5 mm ² , 800 V, 24 A, orange A2T 2.5 VL Double-tier terminal, PUSH IN, 2.5 mm ² , 800 V, 24 A, dark beige AFS 4 2C 10-36V BK Fuse terminal, PUSH IN, 4 mm ² , 36 V, 6.3 A, black A2C 4 Feed-through terminal, PUSH IN, 4 mm ² , 800 V, 32 A, dark beige A2C 4 PE PE terminal, PUSH IN, 4 mm ² , Green/yellow Retaining plate TS 35 HP 1 AEP 2C 2.5 A-series, End plate AEP 2T 2.5 A-series, End plate Terminal marker, L x W: 44.5 x 9.5 mm, Polyamide 66, beige AEB 35 SC/1 A-series, End bracket APP 1 A-series, Separation plate ZQV 2.5N/2 A-Series, Orange Cross-connector, For the terminals. 2 Poles ZQV 2.5N/2 BL A-Series, Blue Cross-connector, For the terminals. 2 Poles ZQV 2.5N/2 RD A-Series, Red Cross-connector, For the terminals. 2 Poles	Weidmuller Weidmuller Weidmuller Weidmuller Weidmuller Weidmuller Weidmuller Weidmuller Weidmuller Weidmuller Weidmuller Weidmuller Weidmuller Weidmuller Weidmuller Weidmuller	+QG		53 5 8 2 4 3 1 2 6 2 1 2 2 2 1 1
-XS04.1	A9A15303	DIN socket iPC - 2P+E - 16A - 250VAC - IEC 2316 - italian std	Schneider Electric	+QG	04	1
-XS04.2	A9A15303	DIN socket iPC - 2P+E - 16A - 250VAC - IEC 2316 - italian std	Schneider Electric	+QG	04	1
35 x 7	536L0-2	DIN rail EN60715 35x7,5x1,5 punched	Arnocanali	+QG	34	3.21
40 x 80	02567	Wiring trunking T1-N 40x80 G GRAY	Bocchiotti	+QG	34	4.35
60 x 80	02570	Wiring trunking T1-N 60x80 G GRAY	Bocchiotti	+QG	34	2.9

Type	Description	Manufacturer	Q.ty
FS180R18 16G1	Multipolar Cable FS180R18 16G1 mmq	General Cavi	6
FS180R18 24G1	Multipolar Cable FS180R18 24G1 mmq	General Cavi	13
ETH Cable 1m	Pre-assembled Ethernet cable 1m	None	1
ETH Cable 7m	Pre-assembled Ethernet cable 7m	None	1
H05V-K 1x0.5 BU	Unipolar cable - H05V-K Cross-sec. 0.5 mmq - Blue	None	
H05V-K 1x0.5 OG	Unipolar cable - H05V-K Cross-sec. 0.5 mmq - Orange	None	
H05V-K 1x0.75 BU	Unipolar cable - H05V-K Cross-sec. 0.75 mmq - Blue	None	
H05V-K 1x0.75 OG	Unipolar cable - H05V-K Cross-sec. 0.75 mmq - Orange	None	
H05V-K 1x1 BK	Unipolar cable - H05V-K Cross-sec. 1 mmq - Black	None	
H05V-K 1x1 BU	Unipolar cable - H05V-K Cross-sec. 1 mmq - Blue	None	
H05V-K 1x1 OG	Unipolar cable - H05V-K Cross-sec. 1 mmq - Orange	None	
H05V-K 1x1 RD	Unipolar cable - H05V-K Cross-sec. 1 mmq - Red	None	
H05V-K 1x1 WH	Unipolar cable - H05V-K Cross-sec. 1 mmq - White	None	
H07V-K 1x1.5 BK	Unipolar cable - H07V-K Cross-sec. 1.5 mmq - Black	None	
H07V-K 1x1.5 GNYE	Unipolar cable - H07V-K Cross-sec. 1.5 mmq - Yellow/Green	None	
H07V-K 1x10 BK	Unipolar cable - H07V-K Cross-sec. 10 mmq - Black	None	
H07V-K 1x2.5 BK	Unipolar cable - H07V-K Cross-sec. 2.5 mmq - Black	None	
H07V-K 1x2.5 BU	Unipolar cable - H07V-K Cross-sec. 2.5 mmq - Blue	None	
H07V-K 1x2.5 GNYE	Unipolar cable - H07V-K Cross-sec. 2.5 mmq - Yellow/Green	None	
H07V-K 1x2.5 RD	Unipolar cable - H07V-K Cross-sec. 2.5 mmq - Red	None	

Type	Description	Manufacturer	Q.ty
H07V-K 1x6 BK	Unipolar cable - H07V-K Cross-sec. 6 mmq - Black	None	
N07V-K 1x4 BK	Unipolar cable - N07V-K Cross-sec. 4 mmq - Black	None	
N07V-K 1x6 BK	Unipolar cable - N07V-K Cross-sec. 6 mmq - Black	None	
N07V-K 1x6 GNYE	Unipolar cable - N07V-K Cross-sec. 6 mmq - Yellow/Green	None	
FG160M16 4G1.5	Multipolar Cable FG160M16 4G1.5 mmq	Prysmian	18
FG160M16 4G4	Multipolar Cable FG160M16 4G4 mmq	Prysmian	7.5
FR20HH2R 12x1.5	Shielded multipolar cable - FR20HH2R SCREENFLEX S2 450/750 V, Cross-sec. 12x1.5 mmq - Sheath: Grey	Prysmian	6.5
FR20HH2R 5x1.5	Shielded multipolar cable - FR20HH2R SCREENFLEX S2 450/750 V, Cross-sec. 5x1.5 mmq - Sheath: Grey	Prysmian	6.5
FS180R18 2x1	Multipolar Cable FS180R18 2x1 mmq	Prysmian	6.5
FS180R18 2x1.5	Multipolar Cable FS180R18 2x1.5 mmq	Prysmian	2.5
FS180R18 4G1	Multipolar Cable FS180R18 4G1 mmq	Prysmian	5.5

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Name	Type	Description	Manufacturer	Panel	Sheet	Q.ty
	ZB5SZ3	black round blanking plug for Ø22 hole	Schneider Electric	+P1	31	3
-HA16.1	XB5KSB ZBY2101	annunciator 24 V AC/DC 85 dB legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	16	1 1
-HL08.1	XB5AV31 ZBY2101	white complete pilot light Ø22 plain lens with BA9s bulb 110...120V legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	08	1 1
-HL11.1	XB5AVB5 ZBY2101	orange complete pilot light Ø22 plain lens with integral LED 24V legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	11	1 1
-HL11.2	XB5AVB5 ZBY2101	orange complete pilot light Ø22 plain lens with integral LED 24V legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	11	1 1
-HL11.3	XB5AVB4 ZBY2101	red complete pilot light Ø22 plain lens with integral LED 24V legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	11	1 1
-HL11.4	XB5AVB5 ZBY2101	orange complete pilot light Ø22 plain lens with integral LED 24V legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	11	1 1
-HL11.5	XB5AVB1 ZBY2101	white complete pilot light Ø22 plain lens with integral LED 24V legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	11	1 1
-HL16.2	XB5AVB3 ZBY2101	green complete pilot light Ø22 plain lens with integral LED 24V legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	16	1 1
-HL16.3	XB5AVB3 ZBY2101	green complete pilot light Ø22 plain lens with integral LED 24V legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	16	1 1
-HL16.4	XB5AVB3 ZBY2101	green complete pilot light Ø22 plain lens with integral LED 24V legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	16	1 1
-PA09.1	LVV35	Digital voltmeter / ammeter	Cet	+P1	09	1
-RP10.1	ZB5AD912	head Ø22 + mounting base for potentiometer	Schneider Electric	+P1	10	1
-RP10.1	ZBY2101	legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric	+P1	31	1
-SA14.1	XB5AD53 ZBY2101	Selector switch 230VAC 2A XB5 +options legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	14	1 1
-SB07.1	XB5AS8442 ZBE504 ZBY9630	red Ø40 Emergency stop, switching off pushbutton Ø22 latching turn release 1NC double contact block's for head Ø22 2NC screw clamp terminal marked legend Ø60 for emergency stop -ARRESTO DE EMERGENZA/logo ISO13850	Schneider Electric Schneider Electric Schneider Electric	+P1	07	1 1 1
-SB08.1	XB5AA31 ZBY2101	green flush complete pushbutton Ø22 spring return 1NO unmarked legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	08	1 1
-SB10.1	XB5AA42 ZBY2101	red flush complete pushbutton Ø22 spring return 1NC unmarked legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	10	1 1
-SB10.2	XB5AA61 ZBY2101	blue flush complete pushbutton Ø22 spring return 1NO unmarked legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	10	1 1
-SB10.3	XB5AA61 ZBY2101	blue flush complete pushbutton Ø22 spring return 1NO unmarked legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric	+P1	10	1 1
-SH07.1	XB5AW33B5 ZBY2603 ZBE101	green flush complete illum pushbutton Ø22 spring return 1NO+1NC 24V legend holder 30 x 40 mm with legend 8 x 27 mm with marking MARCIA single contact block for head Ø22 1NO silver alloy screw clamp terminal	Schneider Electric Schneider Electric Schneider Electric	+P1	07	1 1 1
-X12.1	XB5PRJ45 ZBSP1 ZBY2101	RJ45 Ø 22 port for Ethernet connection IP65 / IP67 black protective support legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric Schneider Electric Schneider Electric	+P1	12	1 1 1
XCn1	09160243101 19300061440	Connector 24 poles + PE 250V 10A, Female insert Hood, low construction, top-entry M20	Harting Harting	+P1		1 1

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Name	Type	Description	Manufacturer	Panel	Sheet	Q.ty
XCn1	09150006202	Female crimp contact - Silver plated 1.0 mmq	Harting	+P1		17
XCn1.	09160243001	Connector 24 poles + PE 250V 10A, Male insert	Harting	+P1		1
	09300060318	Housing, bulkhead mounting with metal protection cover, single locking	Harting			1
	09150006102	Male crimp contact - Silver plated 1.0 mmq	Harting			17
XCnP1	09140160313	Hinged Frame for 4 modules - Marking a/b/c/d	Harting	+P1		1
	09300160318	Housing, bulkhead mounting with metal protection cover, single locking	Harting			1
	19300161441	Hood, low construction, top-entry M25	Harting			1
XCnP1/a	09140123001	12 Contacts Han DD module - Crimp terminal 250 V 10 A - Male insert	Harting	+P1		1
	09150006105	Male crimp contact - Silver plated 0.75 mmq	Harting			7
	09150006205	Female crimp contact - Silver plated 0.75 mmq	Harting			7
	09140123101	12 Contacts Han DD module - Crimp terminal 250 V 10 A - Female insert	Harting			1
XCnP1/b-c	09140203001	20 Contacts Han EEE module - Crimp terminal 500 V 16 A - Male insert	Harting	+P1		1
	09330006114	Male crimp contact - Silver plated 0.75 mmq	Harting			15
	09330006214	Female crimp contact - Silver plated 0.75 mmq	Harting			15
	09140203101	20 Contacts Han EEE module - Crimp terminal 500 V 16 A - Female insert	Harting			1
XCnP1/d	CX 01 J8F	female insert, housing for RJ45 connectors, with 1 RJ45 female connector CAT. 6, 1 module, modular units series MIXO	Ilme	+P1		1
	CX 8 J6IM	RJ45 male connector, 8 data contacts for CX 01 J8IM	Ilme			1
	CX 01 J8IM	male insert, housing for RJ45 connectors, for 1 RJ45 IDC connector, part number CX 8 J6IM, 1 module, modular units series MIXO	Ilme			1

Type	Description	Manufacturer	Q.ty
LVV35	Digital voltmeter / ammeter	Cet	1
09140123001	12 Contacts Han DD module - Crimp terminal 250 V 10 A - Male insert	Harting	1
09140123101	12 Contacts Han DD module - Crimp terminal 250 V 10 A - Female insert	Harting	1
09140160313	Hinged Frame for 4 modules - Marking a/b/c/d	Harting	1
09140203001	20 Contacts Han EEE module - Crimp terminal 500 V 16 A - Male insert	Harting	1
09140203101	20 Contacts Han EEE module - Crimp terminal 500 V 16 A - Female insert	Harting	1
09150006102	Male crimp contact - Silver plated 1.0 mmq	Harting	17
09150006105	Male crimp contact - Silver plated 0.75 mmq	Harting	7
09150006202	Female crimp contact - Silver plated 1.0 mmq	Harting	17
09150006205	Female crimp contact - Silver plated 0.75 mmq	Harting	7
09160243001	Connector 24 poles + PE 250V 10A, Male insert	Harting	1
09160243101	Connector 24 poles + PE 250V 10A, Female insert	Harting	1
09300060318	Housing, bulkhead mounting with metal protection cover, single locking	Harting	1
09300160318	Housing, bulkhead mounting with metal protection cover, single locking	Harting	1
09330006114	Male crimp contact - Silver plated 0.75 mmq	Harting	15
09330006214	Female crimp contact - Silver plated 0.75 mmq	Harting	15
19300061440	Hood, low construction, top-entry M20	Harting	1
19300161441	Hood, low construction, top-entry M25	Harting	1
CX 01 J8F	female insert, housing for RJ45 connectors, with 1 RJ45 female connector CAT. 6, 1 module, modular units series MIXO	Ilme	1
CX 01 J8IM	male insert, housing for RJ45 connectors, for 1 RJ45 IDC connector, part number CX 8 J6IM, 1 module, modular units series MIXO	Ilme	1
CX 8 J6IM	RJ45 male connector, 8 data contacts for CX 01 J8IM	Ilme	1
XB5AA31	green flush complete pushbutton Ø22 spring return 1NO unmarked	Schneider Electric	1
XB5AA42	red flush complete pushbutton Ø22 spring return 1NC unmarked	Schneider Electric	1
XB5AA61	blue flush complete pushbutton Ø22 spring return 1NO unmarked	Schneider Electric	2
XB5AD53	Selector switch 230VAC 2A XB5 +options	Schneider Electric	1

Type	Description	Manufacturer	Q.ty
XB5AS8442	red Ø40 Emergency stop, switching off pushbutton Ø22 latching turn release 1NC	Schneider Electric	1
XB5AV31	white complete pilot light Ø22 plain lens with BA9s bulb 110...120V	Schneider Electric	1
XB5AVB1	white complete pilot light Ø22 plain lens with integral LED 24V	Schneider Electric	1
XB5AVB3	green complete pilot light Ø22 plain lens with integral LED 24V	Schneider Electric	3
XB5AVB4	red complete pilot light Ø22 plain lens with integral LED 24V	Schneider Electric	1
XB5AVB5	orange complete pilot light Ø22 plain lens with integral LED 24V	Schneider Electric	3
XB5AW33B5	green flush complete illum pushbutton Ø22 spring return 1NO+1NC 24V	Schneider Electric	1
XB5KSB	annunciator 24 V AC/DC 85 dB	Schneider Electric	1
XB5PRJ45	RJ45 Ø 22 port for Ethernet connection	Schneider Electric	1
ZB5AD912	head Ø22 + mounting base for potentiometer	Schneider Electric	1
ZB5SZ3	black round blanking plug for Ø22 hole	Schneider Electric	3
ZBE101	single contact block for head Ø22 1NO silver alloy screw clamp terminal	Schneider Electric	1
ZBE504	double contact block's for head Ø22 2NC screw clamp terminal	Schneider Electric	1
ZBSP1	IP65 / IP67 black protective support	Schneider Electric	1
ZBY2101	legend holder 30 x 40 mm with legend 8 x 27 mm unmarked	Schneider Electric	17
ZBY2603	legend holder 30 x 40 mm with legend 8 x 27 mm with marking MARCIA	Schneider Electric	1
ZBY9630	marked legend Ø60 for emergency stop -ARRESTO DE EMERGENZA/logo ISO13850	Schneider Electric	1

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Name	Type	Description	Manufacturer	Panel	Sheet	Q.ty
-BF13.1	Q126E	Q12 photoelectric sensor, emitter, range 2mt, 10-30Vdc	Turck Banner	+BM	13	1
-BF13.2	Q12AP6RQ3	Q12 photoelectric sensor, opposed, range 2mt, LO, 10-30Vdc, PNP	Turck Banner	+BM	13	1
-HL16.1	CL50GRYPQ	Colonna luminosa: indicatore a 3 colori, Alimentazione: 18-30 V DC	Turck Banner	+BM	16	1
-M06.1				+BM	06	1
-M06.2				+BM	06	1
-M06.3				+BM	06	1
-M10.1				+BM	10	1
-S13.1	XCKD2102M12	Limit switch XCKD - steel roller plunger - 1NC+1NO - snap - M12	Schneider Electric	+BM	13	1
-S13.2	XCKD2102M12	Limit switch XCKD - steel roller plunger - 1NC+1NO - snap - M12	Schneider Electric	+BM	13	1
-SQ13.1	XS4P30PC410D	Inductive sensor XS4 M30 - L50mm - PPS - Sn15mm - 12.24VDC - M12	Schneider Electric	+BM	13	1
-SQ13.2	XS4P30PC410D	Inductive sensor XS4 M30 - L50mm - PPS - Sn15mm - 12.24VDC - M12	Schneider Electric	+BM	13	1
-XBM	43504 43444 43448 43542 43531/02RDS 43531/12BLS 43531/12RDS	Three-stage Terminal Block EURO W 2.5/35 grey TERMINAL SQUARE screw terminal x OMEGA / 35 - thickness 6mm 40x9mm Card Holder for DIN TH35 - TH15 10mm GUIDE SEPARATOR for EURO W2.5 / 35 three floors? EURO JW 2,5 - Plug-in insulated and divisible jumper - 2 Poles - Red EURO JW 2,5 - Plug-in insulated and divisible jumper - 12 Poles - Blue EURO JW 2,5 - Plug-in insulated and divisible jumper - 12 Poles - Red	Morsettitalia Morsettitalia Morsettitalia Morsettitalia Morsettitalia Morsettitalia Morsettitalia	+BM		10 2 1 1 1 1 1
-XM1	43408 43408-E 43010 43444 43448	Terminal block EURO 2.5 grey - EURO J system Terminal block EURO 2.5 yellow-green for EURO J system Partition plate EURO 2,5/4 TERMINAL SQUARE screw terminal x OMEGA / 35 - thickness 6mm 40x9mm Card Holder for DIN TH35 - TH15 10mm GUIDE	Morsettitalia Morsettitalia Morsettitalia Morsettitalia Morsettitalia	+BM		3 1 1 2 1
-XM2	43408 43408-E 43010 43444 43448	Terminal block EURO 2.5 grey - EURO J system Terminal block EURO 2.5 yellow-green for EURO J system Partition plate EURO 2,5/4 TERMINAL SQUARE screw terminal x OMEGA / 35 - thickness 6mm 40x9mm Card Holder for DIN TH35 - TH15 10mm GUIDE	Morsettitalia Morsettitalia Morsettitalia Morsettitalia Morsettitalia	+BM		3 1 1 2 1
-XM3	43408 43408-E 43010 43444 43448	Terminal block EURO 2.5 grey - EURO J system Terminal block EURO 2.5 yellow-green for EURO J system Partition plate EURO 2,5/4 TERMINAL SQUARE screw terminal x OMEGA / 35 - thickness 6mm 40x9mm Card Holder for DIN TH35 - TH15 10mm GUIDE	Morsettitalia Morsettitalia Morsettitalia Morsettitalia Morsettitalia	+BM		3 1 1 2 1

				PROJECT	SPAC EXAMPLE 2021 SPAC Automazione Example	DATE	13/07/2021	DOCUMENT	Electric Diagram		
						DOC.Nr.					
						FILE	ELECTRICAL DIAGRAM	+BM Panel Bill of Materials		Sheet	Next Sheet
02	Inverter Replacement	01/10/19	CM			DRAFT.	M.C.	Distinta Materiali quadro +BM		42	43
REV.	MODIFY	DATE	Signature			APPR.					

0 1 2 3 4 5 6 7 8 9

A

A

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B

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E

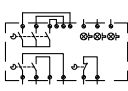
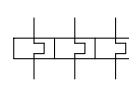

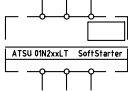
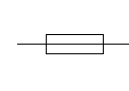
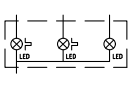
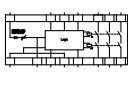
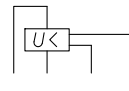

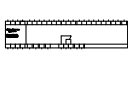
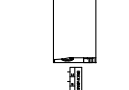

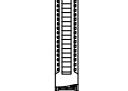
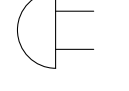

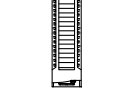
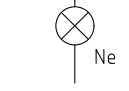

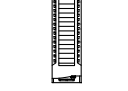
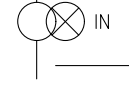

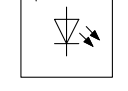


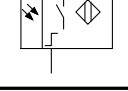


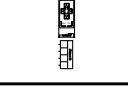
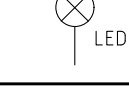

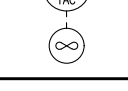


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				PROJECT	SPAC EXAMPLE 2021 SPAC Automazione Example	DATE	13/07/2021	DOCUMENT	Electric Diagram		
						DOC.Nr.					
						FILE	ELECTRICAL DIAGRAM	Reserve		Sheet	Next Sheet
02	Inverter Replacement	01/10/19	CM			DRAFT.	M.C.	<i>Riserva</i>		43	44
REV.	MODIFY	DATE	Signature		SDProget Industrial Software www.sdproget.it	APPR.					

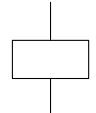
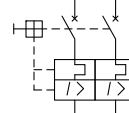
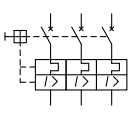
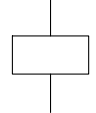
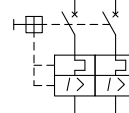
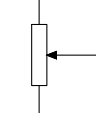
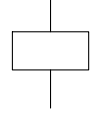
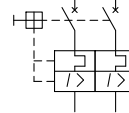

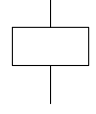
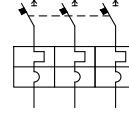

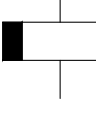
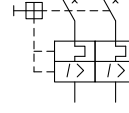
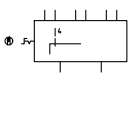
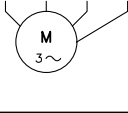
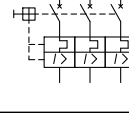
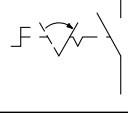
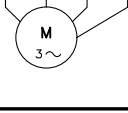
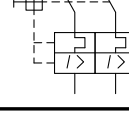
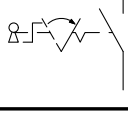
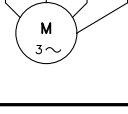
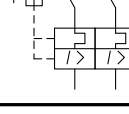
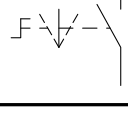
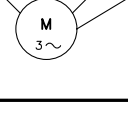
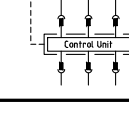
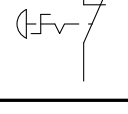

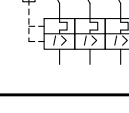
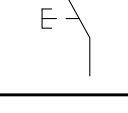
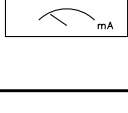
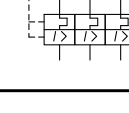
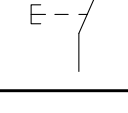
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FUNCTIONS LIST

Reference	Function	Reference	Function	Reference	Function
 -A04.1 +QG 04	FLASHING SIGNALLING DEVICE WITH INTERLOCK LIMIT SWITCH <i>DISPOSITIVO LAMPEGGIANTE / BLOCCO PORTA</i>	 -FR06.1 +QG 06	CARRIAGE THERMAL PROTECTION <i>TERMICO MOTORE CARRELLO</i>	 -HL11.5 +P1 11	24 VDC POWER SUPPLY <i>POWER SUPPLY</i>
 -A06.1 +QG 06	SOFTSTARTER / COMMAND PINCERS MOTOR <i>SOFTSTARTER / COMANDO MOTORE PINZE</i>	 -FU05.1 +QG 05	POWER SUPPLY AUXILIARIES 24VDC PROTECTION <i>PROTEZIONE ALIMENTAZIONE AUSILIARI 24 VDC</i>	 -HL16.1 +BM 16	TOWER LIGHTS <i>COLONNA LUMINOSA</i>
 -A07.1 +QG 07	SAFETY MODULE <i>MODULO DI SICUREZZA</i>	 -FV07.1 +QG 07	U< DETACHMENT COIL <i>U< BOBINA DI SGANCIO</i>	 -HL16.2 +P1 16	PINCERS MOTOR ENABLED <i>MOTORE PINZE ABILITATO</i>
 -A10.1 +QG 10	INVERTER <i>Variatore di velocità</i>	 -G12.1 +QG 12	PLC POWER SUPPLY <i>ALIMENTAZIONE PLC</i>	 -HL16.3 +P1 16	CARRIAGE MOTOR ENABLED <i>MOTORE CARRELLO ABILITATO</i>
 -A12.1 +QG 12	PLC INPUTS MODULE <i>MODULO DI INGRESSI PLC</i>	 -HA16.1 +P1 16	ALARM <i>ALLARME</i>	 -HL16.4 +P1 16	ROLLS MOTOR ENABLED <i>MOTORE RULLI ABILITATO</i>
 -A12.2 +QG 12	PLC OUTPUTS MODULE <i>MODULO DI USCITE PLC</i>	 -HL04.1 +QG 04	INTERIOR LIGHTING PANEL <i>ILLUMINAZIONE INTERNO ARMADIO</i>	 -KA07.1 +QG 07	SAFETY RELAY [1] <i>SAFETY RELAY [1]</i>
 -A12.3 +QG 12	PLC OUTPUTS MODULE <i>MODULO DI USCITE PLC</i>	 -HL08.1 +P1 08	110 VAC POWER SUPPLY <i>PRESENZA 110 VAC</i>	 -KA07.2 +QG 07	SAFETY RELAY [2] <i>SAFETY RELAY [2]</i>
 -BF13.1 +BM 13	PROTECTIONS CLOSED - EMITTER <i>PROTEZIONI CHIUSE - EMETTITORE</i>	 -HL11.1 +P1 11	CARRIAGE MOTOR FORWARDS <i>COMANDO CARRELLO AVANTI</i>	 -KA08.1 +QG 08	ON <i>MARCIA</i>
 -BF13.2 +BM 13	PROTECTIONS CLOSED - RECEVEIR <i>PROTEZIONI CHIUSE - RICEVITORE</i>	 -HL11.2 +P1 11	CARRIAGE MOTOR BACKWARDS <i>MOTORE CARRELLO INDIETRO</i>	 -KA15.1 +QG 15	START ENABLE <i>CONSENSO MARCIA</i>
 -D12.1 +QG 12	PLC CPU <i>CPU PLC</i>	 -HL11.3 +P1 11	THERMAL PROTECTIONS <i>PROTECTIONS</i>	 -KA15.2 +QG 15	CIRCUIT BREAKERS RELEASED <i>INTERRUTTORI AUTOMATICI INTERVENUTI</i>
 -EV05.1 +QG 05	PANEL FAN <i>VENTILATORE ARMADIO</i>	 -HL11.4 +P1 11	ROLLS MOTOR <i>MOTORE RULLI</i>	 -KA15.3 +QG 15	PINCERS MOTOR ENABLED <i>MOTORE PINZE ABILITATO</i>

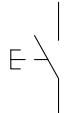

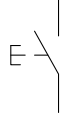
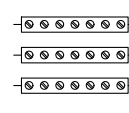
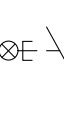
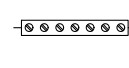
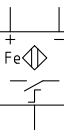
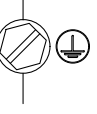
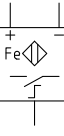
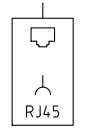
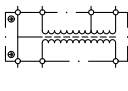
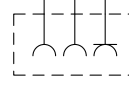
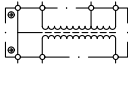
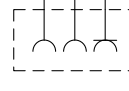
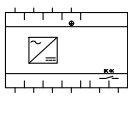
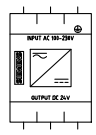


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FUNCTIONS LIST

Reference	Function	Reference	Function	Reference	Function
 -KM08.1 +QG 08	CARRIAGE MOTOR FORWARDS <i>COMANDO CARRELLO AVANTI</i>	 -QF04.1 +QG 04	CIRCUIT BREAKER - TRANSFORMER 400V / 230V <i>PROTEZIONE TRASFORMATORE 400V / 230V</i>	 -QF10.1 +QG 10	INVERTER CIRCUIT BREAKER <i>PROTEZIONE INVERTER</i>
 -KM08.2 +QG 08	CARRIAGE MOTOR BACKWARDS <i>MOTORE CARRELLO INDIETRO</i>	 -QF04.2 +QG 04	CIRCUIT BREAKER - SOCKETS AND LIGHTING <i>PROTEZIONE PRESE E ILLUMINAZIONE</i>	 -RP10.1 +P1 10	SPEED ADJUSTMENT <i>REGOLAZIONE VELOCITA'</i>
 -KM08.3 +QG 08	ROLLS COMMAND <i>COMANDO RULLI</i>	 -QF04.3 +QG 04	CIRCUIT BREAKER - POWER SUPPLY PLC <i>PROTEZIONE ALIMENTAZIONE PLC</i>	 -S13.1 +BM 13	FORWARD CARRIAGE LIMIT SWITCH <i>FINECORSO CARRELLO AVANTI</i>
 -KM08.4 +QG 08	INVERTER TURN-ON <i>INSERZIONE INVERTER</i>	 -QF04.4 +QG 04	MAIN DISCONNECTOR <i>INTERRUTTORE GENERALE</i>	 -S13.2 +BM 13	BACK CARRIAGE LIMIT SWITCH <i>FINECORSO CARRELLO INDIETRO</i>
 -KT11.1 +QG 11	PINCERS MOTOR ENABLED <i>MOTORE PINZE ABILITATO</i>	 -QF05.1 +QG 05	CIRCUIT BREAKER - TRANSFORMER 400V / 110V <i>PROTEZIONE TRASFORMATORE 400V / 110V</i>	 -SA04.1 +QG 04	AMMETER SELECTOR SWITCH <i>COMMUTATORE AMPEROMETRICO</i>
 -M06.1 +BM 06	PINCERS MOTOR <i>MOTORE PINZE</i>	 -QF05.2 +QG 05	CIRCUIT BREAKER - POWER SUPPLY 400VAC / 24VDC <i>PROTEZIONE ALIMENTATORE 400VAC / 24VDC</i>	 -SA04.2 +QG 04	SERVICE SOCKET SWITCH <i>COMANDO PRESA DI SERVIZIO</i>
 -M06.2 +BM 06	CARRIAGE MOTOR <i>MOTORE CARRELLO</i>	 -QF05.3 +QG 05	PANEL FAN CIRCUIT BREAKER <i>PROTEZIONE VENTILATORE ARMADIO</i>	 -SA07.1 +QG 07	DOORS SECURITY BY-PASS <i>BY-PASS MICRO SICUREZZA PORTA</i>
 -M06.3 +BM 06	ROLLS MOTOR <i>MOTORE RULLI</i>	 -QF05.4 +QG 05	CIRCUIT BREAKER - 110 VAC AUXILIARY POWER SUPPLY <i>PROTEZIONE ALIMENTAZIONE AUSILIARI 110 VAC</i>	 -SA14.1 +P1 14	CARRIAGE FORWARD - BACKWARD <i>FORWARD - BACKWARD</i>
 -M10.1 +BM 10	INVERTER MOTOR <i>MOTORE INVERTER</i>	 -QF06.1 +QG 06	CIRCUIT BREAKER / COMMAND PINCERS MOTOR <i>PROTEZIONE / COMANDO MOTORE PINZE</i>	 -SB07.1 +P1 07	EMERGENCY <i>EMERGENZA 1</i>
 -PA04.1 +QG 04	PHASES CONTROL AMMETER <i>AMPEROMETRO CONTROLLO FASI</i>	 -QF06.2 +QG 06	CARRIAGE MOTOR CIRCUIT BREAKER <i>PROTEZIONE MOTORE CARRELLO</i>	 -SB08.1 +P1 08	START INVERTER <i>START INVERTER</i>
 -PA09.1 +P1 09	INVERTER MOTOR LOAD AMMETER <i>AMPEROMETRO CARICO MOTORE INVERTER</i>	 -QF06.3 +QG 06	ROLLS MOTOR CIRCUIT BREAKER <i>PROTEZIONE MOTORE RULLI</i>	 -SB10.1 +P1 10	INVERTER MOTOR STOP <i>INVERTER</i>

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Reference	Function	Reference	Function	Reference	Function
 -SB10.2 +P1 10	INVERTER MOTOR FORWARD <i>FORWARD</i>	 -TA04.3 +QG 04	CURRENT TRANSFORMER PHASE L3 <i>TRASFORMATORE DI CORRENTE FASE L3</i>		
 -SB10.3 +P1 10	INVERTER MOTOR BACKWARD <i>BACKWARD</i>	 -WB04.1 +QG 04	BUS BAR TERMINAL L1/L2/L3 <i>MORSETTIERA DI DISTRIBUZIONE L1/L2/L3</i>		
 -SH07.1 +P1 07	ON <i>MARCIA</i>	 -WB04.2 +QG 04	BUS BAR TERMINAL PE <i>BANDELLA DI TERRA</i>		
 -SQ13.1 +BM 13	CARRIAGE FORWARD POSITION <i>CARRELLO POSIZIONE AVANTI</i>	 -WPE04.1 +QG 04	PE BOLT <i>BULLONE DI TERRA</i>		
 -SQ13.2 +BM 13	CARRIAGE BACK POSITION <i>CARRELLO POSIZIONE INDIETRO</i>	 -X12.1 +P1 12	Ethernet <i>Ethernet</i>		
 -T04.1 +QG 04	TRANSFORMER 400V / 230V <i>TRASFORMATORE 400V / 230V</i>	 -XS04.1 +QG 04	SERVICE SOCKET 230 VAC <i>PRESA DI SERVIZIO 230 VAC</i>		
 -T05.1 +QG 05	TRANSFORMER 400V / 110V <i>TRASFORMATORE 400V / 110V</i>	 -XS04.2 +QG 04	SERVICE SOCKET 230 VAC COMMANDED <i>PRESA DI SERVIZIO 230 VAC COMANDATA</i>		
 -T05.2 +QG 05	24VDC AUXILIARY POWER SUPPLY <i>ALIMENTATORE AUSILIARI 24VDC</i>				
 -T12.1 +QG 12	24 V DC PLC POWER SUPPLY <i>ALIMENTATORE PLC 24 V DC</i>				
 -TA04.1 +QG 04	CURRENT TRANSFORMER PHASE L1 <i>TRASFORMATORE DI CORRENTE FASE L1</i>				
 -TA04.2 +QG 04	CURRENT TRANSFORMER PHASE L2 <i>TRASFORMATORE DI CORRENTE FASE L2</i>				

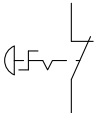
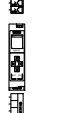

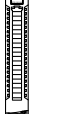
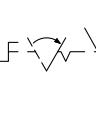
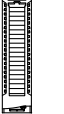

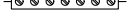

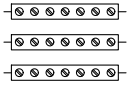

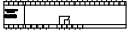

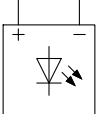

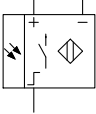

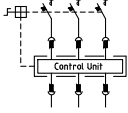

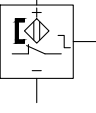
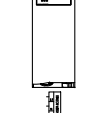
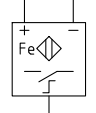
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SYMBOLS LEGEND

Symbol	Description	Symbol	Description
	Single-phase fan Ventilatore monofase File : E3		Two-phase aut. switch with max thermal and current prot. Inter. automatico bipolare con prot. max corrente e termica File : Q22
	Three phase thermal protection Termica trifase File : F2		Three phase aut. switch with max thermal and current prot. Inter. automatico tripolare con prot. max corrente e termica File : Q23
	Single-pole fuse Fusibile unipolare File : F3		Three-phase aut. magneto-thermal Switch/Disconn. Inter. automatico magnetotermico sezionatore tripolare File : Q136
	Single-pole fuse Fusibile unipolare File : F30		Potentiometer Potenzziometro File : R6
	Bell Suoneria File : H10		Push-button command NO Comando a Pulsante NO File : S2
	NEON LAMP LAMPADA AL NEON File : H22		Push-button command NC Comando a Pulsante NC File : S2C
	Indicator lamp energized by built-in transformer Lampada di segnalazione ad incandescenza con trasformatore incorporato File : H23A		Push-button command NO Comando a Pulsante NO File : S2_N
	LED indicator Lampada di segnalazione a diodo elettroluminescente File : H25		Break contact limit switch Fine corsa NC File : S10C
	Delay relay (de-energized) Relè ritardato alla diseccitazione File : K19		Push-button command with stable position NO Comando a Pulsante a posizione stabile NO File : S22A_N
	Three-phase motor Motore asincrono trifase File : M2		3 position selector NO neuter 0 Selettore a 3 posizioni NO riposo 0 File : S28
	AMMETER AMPEROMETRO File : P1		Push-button make contact with incorporated signal lamp Pulsante con lampada di segnalazione incorporata NO File : S75


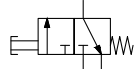
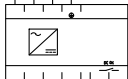
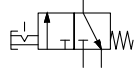
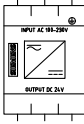
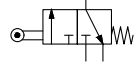
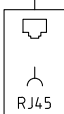
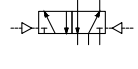
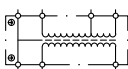
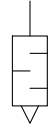
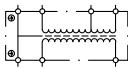
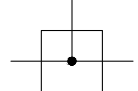
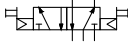
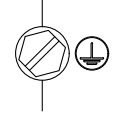
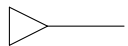
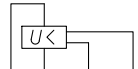
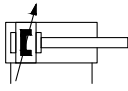
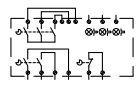
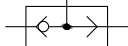
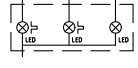
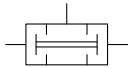
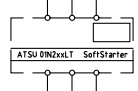
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SYMBOLS LEGEND

Symbol	Description	Symbol	Description
	Emergency "mushroom-head" push-button NC, turn reset <i>Pulsante di emergenza a posizione stabile girare per sbloccare NC</i> File : S81C		CPU 1513-1 PN <i>CPU 1513-1 PN</i> File : S_6ES7513-1AL0X-0AB0
	Current switch for 3 measurement points <i>Commutatore Amperometrico per tre punti di misura</i> File : S94		Digital input module, DI 16x24VDC BA <i>Modulo di ingressi digitali, DI 16x24 VDC BA</i> File : S_6ES7521-1BH10-0AA0
	Two position selector NO (return from left) with stable positions <i>Selettore a 2 posizioni stabili NO (ritorno da sinistra)</i> File : S104SX		Digital output module, DQ 8x230VAC / 5A ST (RELAY) <i>Modulo di uscite digitali, DQ 8x230VAC/5A ST (RELAY)</i> File : S_6ES7522-5HF00-0AB0
	Two position key selector NO (return from left) with stable positions <i>Selettore a chiave 2 posizioni stabili NO (ritorno da sinistra)</i> File : S105SX		Bus bar - 1 phase <i>Sbarra distributrice - 1 fase</i> File : WB010
	Pulse or current transformer <i>Trasformatore di corrente</i> File : T1		Bus bar - 3 phases <i>Sbarra distributrice - 3 fasi</i> File : WB030
	Double plug socket with PE contact <i>Presa di corrente bipolare con contatto PE</i> File : X1		AltivarATV320 Inverter compact format threephase 380-500V 1.1 kW 50/60 Hz <i>AltivarATV320 Variatori formato compatto Trifase 380-500V 1.1 kW 50/60 Hz con filtro EMC Integrato</i> File : ALT320-C-3PH
	Open solenoid valve (closing) <i>Elettrovalvola aperta (in chiusura)</i> File : Y1_N		Photoelectric switch. Emitter - D.C. powered <i>Interruttore fotoelettrico. Emittitore alimentato in D.C.</i> File : BFE01C_A
	Auxiliary relay coil <i>Bobina Relè Aux</i> File : KA1		Photoelectric switch. Receiver NO - 3 wires D.C. powered <i>Interruttore fotoelettrico. Ricevitore 3 fili NO alimentato in D.C.</i> File : BFR02C
	Relay coil Aux <i>Bobina rele' Ausiliario</i> File : KA1_N		Tesy U motor Starter - Power Base <i>Avvio motore Tesys U - Base di potenza un senso di marcia</i> File : LUB
	Contactor coil <i>Bobina contattore</i> File : KM1		Magnetic proximity switch DC powered, break contact <i>Dispositivo di prossimità magnetico alimentato in D.C. NC</i> File : SPX04EC_N
	System power supply, PS 60W 120 / 230V AC / DC <i>Alimentatore di sistema, PS 60W 120/230V AC/DC</i> File : S_6ES7507-0RA00-0AB0		Inductive proximity switch DC powered, make contact <i>Dispositivo di prossimità induttivo alimentato in D.C. NO</i> File : SPX08D

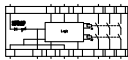
				PROJECT SPAC EXAMPLE 2021 SPAC Automazione Example	DATE 13/07/2021	DOCUMENT Electric Diagram		
				SDProget Industrial Software www.sdproget.it	DOC.Nr.	Symbols Legend <i>Legenda Simboli</i>	Sheet	Next Sheet
02	Inverter Replacement	01/10/19	CM		FILE ELECTRICAL DIAGRAM		48	49
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SYMBOLS LEGEND

Symbol	Description	Symbol	Description
	AMMETER AMPEROMETRO File : MAMP		Valve 3/2 closed, pushbutton control mechanism. Spring return Valvola 3/2 chiusa monostabile comando manuale a pulsante. Ritorno a molla meccanica File : FL_PN_352
	CSW241C Universal Power 1-2-3-phase switching power supply 185 ... 550 Vac & 270 ... 770 Vdc / 24 Vdc 10 A CSW241C Alimentatore switching Universal Power 1-2-3-phase 185...550 Vac & 270...770 Vdc / 24 Vdc 10 A File : ELE_CABUR_PWS_006		Valve 3/2 closed, pushbutton control mechanism with detent. Spring return Valvola 3/2 chiusa monostabile comando manuale a pulsante con fermo meccanico. Ritorno a molla meccanica File : FL_PN_353
	SITOP PSU100C 24 V / 4 A. Stabilized power supply: input AC 100-230V (DC 110-300 V), output DC 24V / 4 A SITOP PSU100C 24 V/4 A. Alimentatore stabilizzato: ingresso AC 100-230V (DC 110-300 V), uscita DC 24V/4 A File : ELE_SITOP_COMPACT_24V		Valve 3/2 closed, controlled by a roller. Spring return Valvola 3/2 chiusa monostabile comando meccanico ad astina a rullo. Ritorno a molla meccanica File : FL_PN_387
	RJ45 port for panel Porta RJ45 per pannello File : EXAMPLE_RJ45		Valve 5/2, bistable, pneumatic operated Valvola 5/2 bistabile, comando pneumatico File : FL_PN_657
	Transformer - Single winding - Single-phase (N-L1) or 2-phase (L1-L2) connection - 230/400 V AC - 115 V - 400 VA Trasformatore - Avvolgimento semplice - Collegamento monofase (N-L1) o bifase L1-L2 - 230/400 V AC - 115 V - 400 VA File : E_SCHNEIDER_PHASEO_TRA_115V		Silencer Silenziatore File : FL_PN_899
	Transformer - Single winding - Single-phase (N-L1) or 2-phase (L1-L2) connection - 230/400 V AC - 230 V - 400 VA Trasformatore - Avvolgimento semplice - Collegamento monofase (N-L1) o bifase L1-L2 - 230/400 V AC - 230 V - 400 VA File : E_SCHNEIDER_PHASEO_TRA_230V		Distributor block Modulo di derivazione File : FL_PN_1017
	5/2 solenoid valve, bistable, piloted. Manual override Elettrovalvola 5/2 bistabile prepilotata, comandi ausiliari manuali File : FL_PN_5_2_2		Pe Bolt BULLONE DI TERRA File : GNDTERMINAL
	Hydraulic supply Alimentazione aria compressa File : FL_PN_014		Minimum voltage protection Protezione minima tensione File : KVMIN
	Double-acting cylinder with permanent magnet, adjustable cushioning Cilindro ad uno stelo a doppio effetto con magnete permanente, ammortizzazione regolabile su entrambi i lati File : FL_PN_052		Flashing signalling devices with interlock limit switch Dispositivo di sicurezza lampeggiante File : LAMP_DEVICE
	Shuttle valve (OR function) Modulo OR File : FL_PN_189		Indicator bank with 3 illuminated units Colonna luminosa a LED - 3 elementi File : LED_COLUMN
	Dual pressure valve (AND function) Modulo AND File : FL_PN_191		Tesys U Soft starter for asynchronous motor Avviatore progressivo Tesys U per motore asincrono File : SFST-SEP

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				SDProget Industrial Software www.sdproget.it	DOC.Nr.	Symbols Legend <i>Legenda Simboli</i>	Sheet	Next Sheet
02	Inverter Replacement	01/10/19	CM		FILE ELECTRICAL DIAGRAM		49	50
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SYMBOLS LEGEND

Symbol	Description	Symbol	Description
	Safety module for emergency stop and limit switch monitoring XPS AF - 24 V AC/DC (terminal block integrated) Modulo di sicurezza per controllo arresto d'emergenza e protezioni mobili XPS AF - 24 V AC/DC (morsettiera integrata)		
	File : TELEMECANIQUE-XPS-AF		File :
	File :		File :
	File :		File :
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				PROJECT SPAC EXAMPLE 2021 SPAC Automazione Example	DATE 13/07/2021 DOC.Nr.	DOCUMENT Electric Diagram		
02	Inverter Replacement	01/10/19	CM	SDProget Industrial Software www.sdproget.it	FILE ELECTRICAL DIAGRAM	Symbols Legend	Sheet	Next Sheet
REV.	MODIFY	DATE	Signature		DRAFT. M.C.	Legenda Simboli	50	/
					APPR.			