

VG10340 VG3.0-6.5LD-INV (WS-CM-BV) Ex

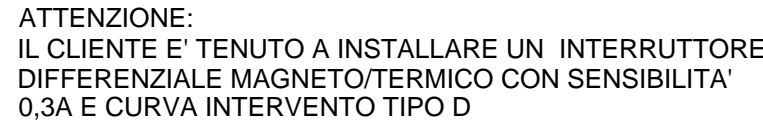
Adicomp s.r.l.

ADI2553.01		REVISIONI		QUADRO ELETTRICO ELECTRICAL PANEL  Dimension 800x600x300  Kit fissaggio a muro	
In according to: EN60079-1 EN60079-11 EN60079-14		N.	DATA		DESCRIZIONE
		00	09/02/15		First issue
		01	31/03/15		As built
DATA ORIGINALE	SCALA				
09/02/2015	1:1				
Cod. Quadro	P&ID	Comm.	DISEGNATO		
6021.0648	ADI2561.00	740	Christian		

ADICOMP s.r.l.

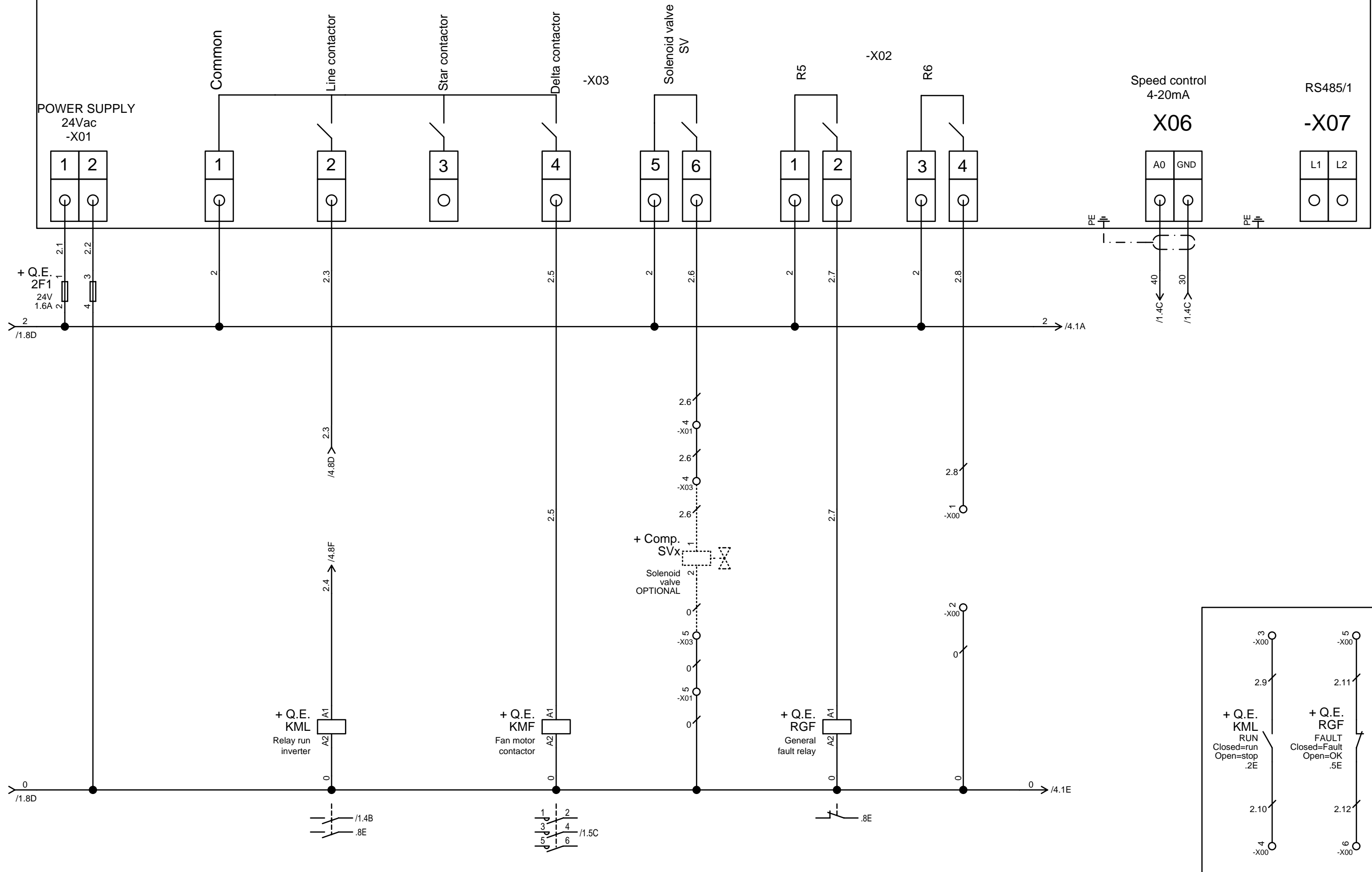
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1	As built	31/03/2015	C.C.	Data	14/07/2013	CPL Concordia VG10340 VG3.0-6.5LD-INV (WS-CM-BV) Ex		ADI2553.01	According to EN60617-2	Foglio	0
0	First issue	09/02/2015	C.C.	Disegnato	Christian					Fg.	
Rev.	Modifica	Data	Nome	Approvato							

Fg

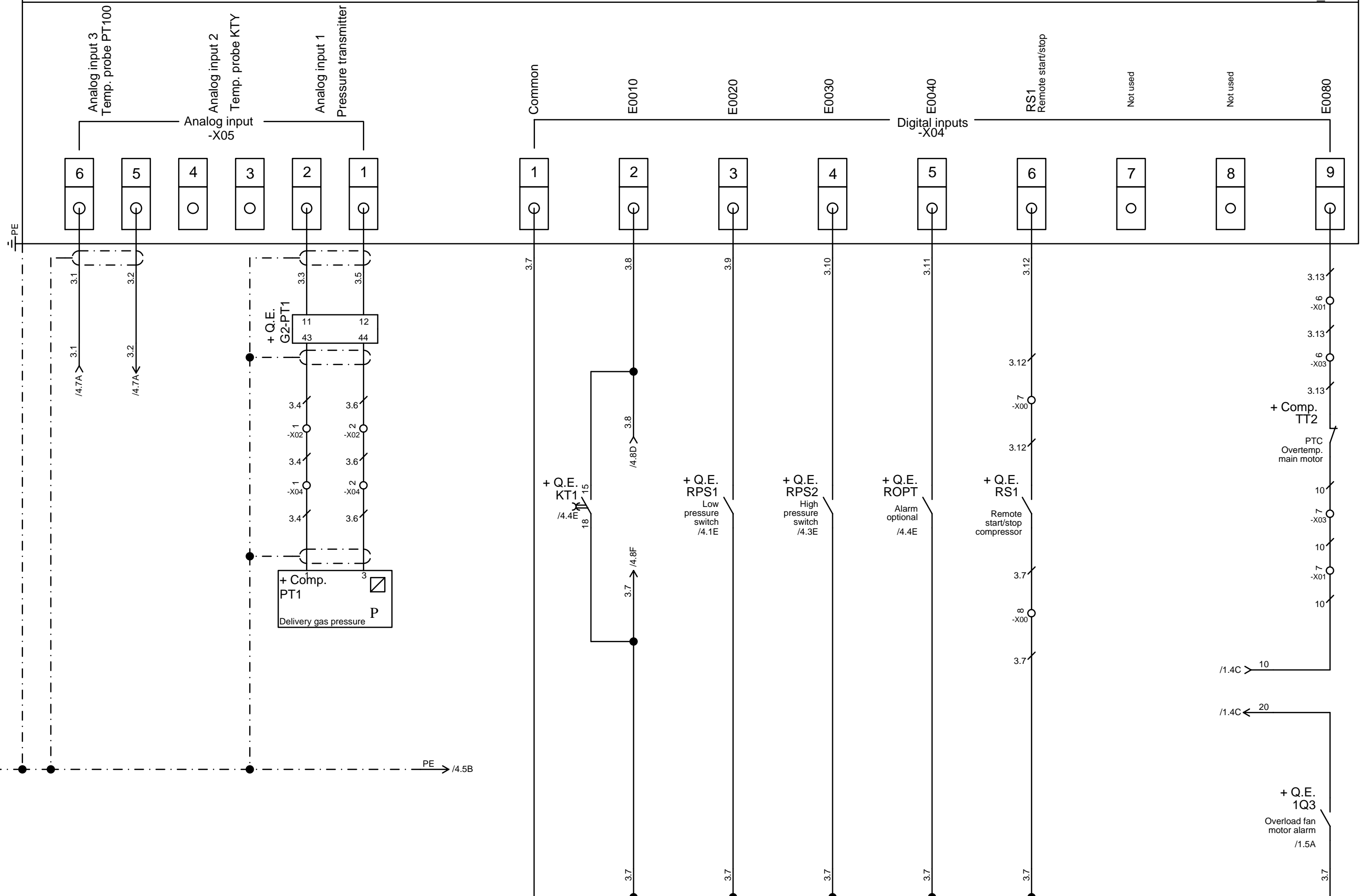
# S1-20 Relay output

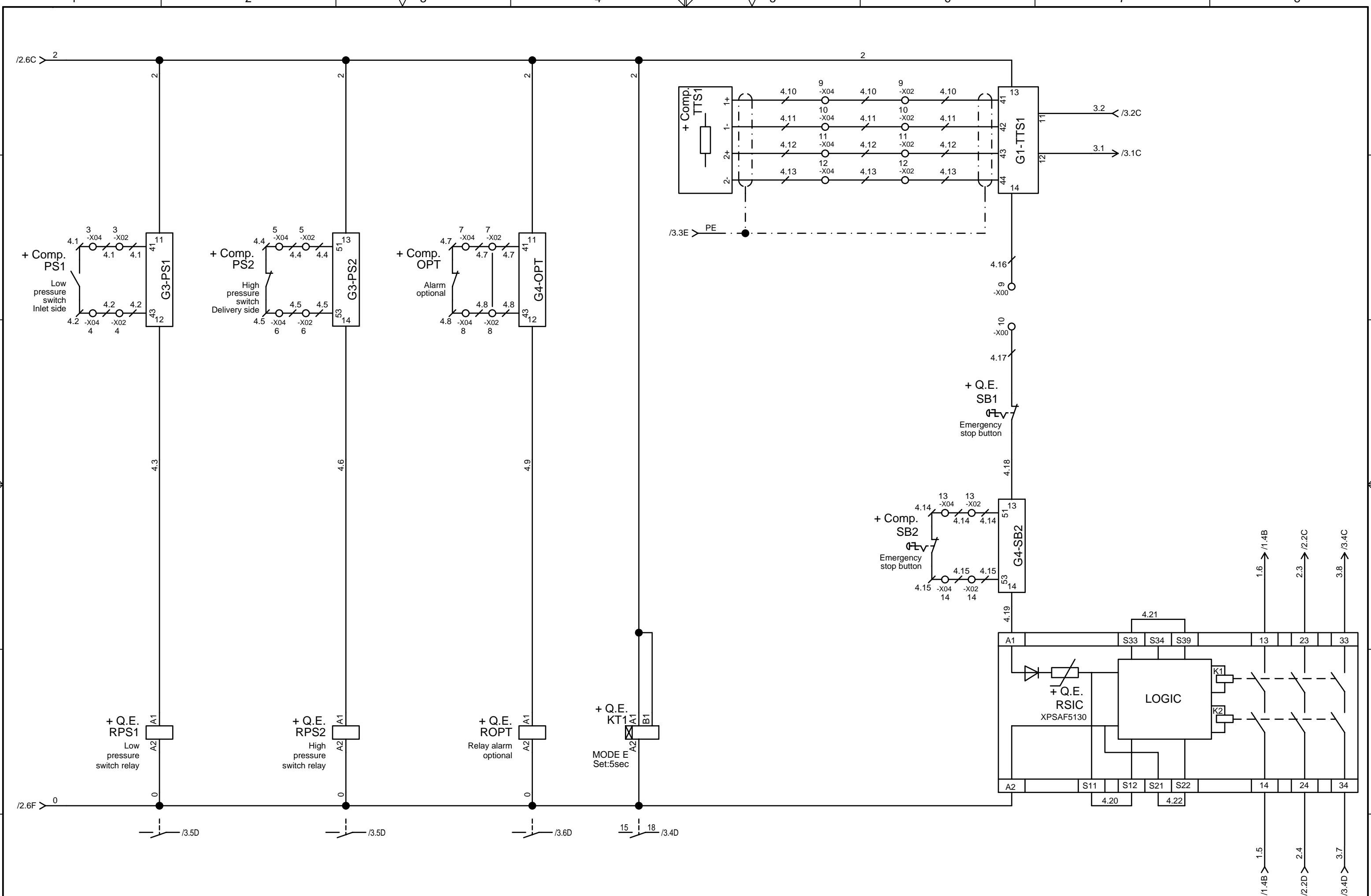
Y09ADIC01.00  
S1-ADIC2T E04

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## S1-20 digital&analog input

Y09ADIC01.00  
S1-ADIC2T\_E04

[illegible]



1	As built	31/03/2015	C.C.	Data		CPL Concordia VG10340 VG3.0-6.5LD-INV (WS-CM-BV) Ex	 advanced air & gas solutions	Auxiliary circuit	ADI2553.01			Foglio 4
0	First issue	09/02/2015	C.C.	Disegnato	Christian							
				Controllato								
Rev.	Modifica	Data	Nome	Approvato		Orig.	Sostituiti	Sostituito da				Fg.

AUXILIARY CIRCUIT

M16M20

Adicomp side

M16M20

Customer side

120

180

180

Junction box 18P18

Cable gland Ex-e color black

M16 cable diameter 4-8Ø

M20 cable diameter 6.5-12Ø

Junction box auxiliary:

N°1 Solenoid valve (SV1)

N°1 Fan motor (1M2)

N°1 PTC main motor(TT2)

Wire 3G1mm²

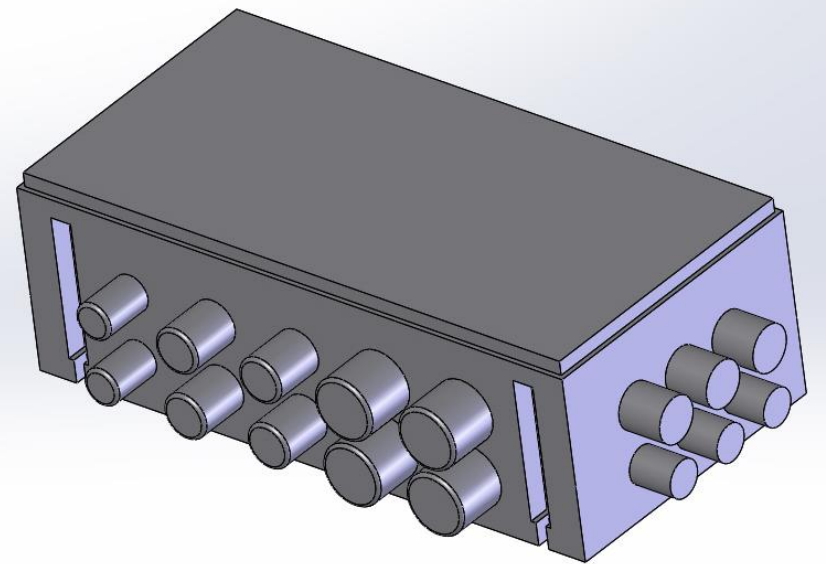
Wire 4G1.5mm²

Wire 2x0.75mm²

Terminal blocks = Electrical panel -X01

JB compressor -X03

EXAMPLE OF JUNCTION BOX



Motor connection:

To connect the motor to the electrical pannel are needed N° 1 cable 4Gx2.5mm² screened and one 2x0.75mm² for PTC

the sections of the wires may be with a max. length of 50mt (164ft) and voltage drop of less than 1%

le sezioni dei fili si intendono con una lunghezza massima di 50mt e caduta di tensione inferiore a 1%

INTRINSECALLY SAFETY CIRCUIT

Adicomp side

Customer side

60

140

165

Junction box APV12

Cable gland Ex-e color blue

M16 cable diameter 4-8Ø

Junction box Intrinsically safety circuit (Ex-ia):

N°1 Temperature transmitter (TTS1)

N°1 Pressure transmitter (PT1)

N°1 emergency stop button (SB2) (on the compressor)

N°1 Low pressure switch (PS1)

N°1 High temperature switch (PS2)

N°1 Alarm optional (Optional)

Single core (screened where needed) (M16)

Wire 4x0.75mm² screened

Wire 2x0.75mm² screened

Wire 2x0.75mm²

Wire 2x0.75mm²

Wire 2x0.75mm²

Wire 2x0.75mm² (optional)


Terminal blocks = Electrical panel -X02

JB compressor -X04

250

600

800

1	As built	31/03/2015	C.C.	Data		CPL Concordia VG10340 VG3.0-6.5LD-INV (WS-CM-BV) Ex		Layout quadro + dati scheda	ADI2553.01		Foglio 5	
0	First issue	09/02/2015	C.C.	Disegnato								
				Controllato								
Rev.	Modifica	Data	Nome	Approvato		Orig.	Sostituiti	Sostituito da			Fg.	

1

2

3

4

5

6

7

8





[illegible]



[illegible]

	1		2										▽ 3			4				▽ 5					6				7			8										
A	External Cable															0.75mm²	0.75mm²	0.75mm² screened					Terminal blocks						General Remarks				0.75mm² screened		0.75mm²	0.75mm²					Internal Cable	A
		External Destination																					Terminal Segment	Terminal number	Type	Ponte Wire	Comment	Representation														Internal Destination
B	Device comment												Function	Location	Device	Pin		Terminal blocks:-X02 Number of terminal:14						Function	Location	Device	Pin								Device comment	B						
														+ Comp.	-X04	1		3.4															G2-PT1	43	3.4						G2-PT1	
														+ Comp.	-X04	2		3.6															G2-PT1	44	3.6						G2-PT1	
														+ Comp.	-X04	3		4.1															G3-PS1	41		4.1					G3-PS1	
														+ Comp.	-X04	4		4.2															G3-PS1	43		4.2					G3-PS1	
														+ Comp.	-X04	5		4.4															G3-PS2	51		4.4					G3-PS2	
														+ Comp.	-X04	6		4.5															G3-PS2	53		4.5					G3-PS2	
														+ Comp.	-X04	7		4.7															G4-OPT	41		4.7					G4-OPT	
														+ Comp.	-X04	8		4.8															G4-OPT	43		4.8					G4-OPT	
														+ Comp.	-X04	9		4.10															G1-TTS1	41	4.10					G1-TTS1		
														+ Comp.	-X04	10		4.11															G1-TTS1	42	4.11					G1-TTS1		
														+ Comp.	-X04	11		4.12															G1-TTS1	43	4.12					G1-TTS1		
														+ Comp.	-X04	12		4.13															G1-TTS1	44	4.13					G1-TTS1		
C														+ Comp.	-X04	13		4.14															G4-SB2	51			4.14				G4-SB2	
														+ Comp.	-X04	14		4.15															G4-SB2	53			4.15				G4-SB2	

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	1	2										▽ 3	4	▽ 5					6				7			8															
A	External Cable											0.75mm²	0.75mm²	0.75mm² screened							Terminal blocks						General Remarks				0.75mm² screened	0.75mm²	0.75mm²					Internal Cable	A		
																External Destination						Terminal Segment	Terminal number	Type	Ponte Wire	Comment	Representation	Internal Destination													
B	Device comment															Function	Location	Device	Pin		Terminal blocks:-X04 Number of terminal:14						Function	Location	Device	Pin								Device comment	B		
														3.4			+ Q.E.	-X02	1			1					3.3D				PT1	1	3.4						PT1		
														3.6			+ Q.E.	-X02	2			2					3.3D				PT1	3	3.6						PT1		
													4.1			+ Q.E.	-X02	3			3						4.1B							4.1					PS1		
													4.2			+ Q.E.	-X02	4			4						4.1B							4.2					PS1		
													4.4			+ Q.E.	-X02	5			5						4.2B							4.4					PS2		
													4.5			+ Q.E.	-X02	6			6						4.2B							4.5					PS2		
													4.7			+ Q.E.	-X02	7			7						4.3B							4.7					OPT		
													4.8			+ Q.E.	-X02	8			8						4.3B							4.8					OPT		
													4.10			+ Q.E.	-X02	9			9						4.5A				TTS1	1+	4.10						TTS1		
													4.11			+ Q.E.	-X02	10			10						4.5A				TTS1	1-	4.11						TTS1		
													4.12			+ Q.E.	-X02	11			11						4.5A				TTS1	2+	4.12						TTS1		
													4.13			+ Q.E.	-X02	12			12						4.5B				TTS1	2-	4.13						TTS1		
C													4.14			+ Q.E.	-X02	13			13						4.6D								4.14					SB2	C
													4.15			+ Q.E.	-X02	14			14						4.6D								4.15					SB2	
												</																													

Riga	Designation	▲ Comment	Destination 1	Destination 2	Electrical diagram Ref.	Wire section
1				+ Q.E. 1T1	ADI2553.01 1.4C	
2				PE	ADI2553.01 1.4C	
3				+ Comp. 1M2 PE	ADI2553.01 1.3E	
4				+ Q.E. S1-20 input PE	ADI2553.01 3.1B	
5					ADI2553.01 4.6B	
6				+ Q.E. S1-20 input PE	ADI2553.01 3.2D	
7				+ Q.E. S1-20 input PE	ADI2553.01 3.2C	
8				+ Q.E. S1-20 output PE	ADI2553.01 2.7B	
9					ADI2553.01 4.5B	
10				+ Q.E. S1-20 input PE	ADI2553.01 3.2B	
11	4.16	Customer emergency	+ Q.E. -X00 9	+ Q.E. G1-TTS1 14	ADI2553.01 4.6B	0.75mm²
12	4.17	Customer emergency	+ Q.E. -X00 10	+ Q.E. SB1	ADI2553.01 4.6C	0.75mm²
13	U1	Fan motor	+ Comp. -X03 1	+ Q.E. -X01 1	ADI2553.01 1.5D	1.5mm²
14	U1	Fan motor	+ Q.E. -X01 1	+ Q.E. KMF 2	ADI2553.01 1.5D	1.5mm²
15	U1	Fan motor	+ Comp. -X03 1	+ Comp. 1M2 U	ADI2553.01 1.5E	1.5mm²
16	V1	Fan motor	+ Q.E. -X01 2	+ Q.E. KMF 4	ADI2553.01 1.5D	1.5mm²
17	V1	Fan motor	+ Comp. -X03 2	+ Comp. 1M2 V	ADI2553.01 1.5E	1.5mm²
18	V1	Fan motor	+ Comp. -X03 2	+ Q.E. -X01 2	ADI2553.01 1.5D	1.5mm²
19	W1	Fan motor	+ Comp. -X03 3	+ Comp. 1M2 W	ADI2553.01 1.5E	1.5mm²
20	W1	Fan motor	+ Q.E. -X01 3	+ Q.E. KMF 6	ADI2553.01 1.5D	1.5mm²
21	W1	Fan motor	+ Comp. -X03 3	+ Q.E. -X01 3	ADI2553.01 1.5D	1.5mm²
22	2.11	Fault	+ Q.E. -X00 5	+ Q.E. RGF	ADI2553.01 2.8E	0.75mm²
23	2.12	Fault	+ Q.E. -X00 6	+ Q.E. RGF	ADI2553.01 2.8F	0.75mm²
24	U	Main motor	+ Comp. 1M1 U	+ Q.E. FRN4.0 U	ADI2553.01 1.3D	2.5mm² screened
25	V	Main motor	+ Comp. 1M1 V	+ Q.E. FRN4.0 V	ADI2553.01 1.3D	2.5mm² screened
26	W	Main motor	+ Comp. 1M1 W	+ Q.E. FRN4.0 W	ADI2553.01 1.3D	2.5mm² screened
27	4.7	OPT	+ Comp. -X04 7	+ Comp. OPT	ADI2553.01 4.3B	0.75mm²
28	4.7	OPT	+ Comp. -X04 7	+ Q.E. -X02 7	ADI2553.01 4.3B	0.75mm²
29	4.7	OPT	+ Q.E. -X02 7	+ Q.E. G4-OPT 41	ADI2553.01 4.3B	0.75mm²
30	4.8	OPT	+ Comp. -X04 8	+ Q.E. -X02 8	ADI2553.01 4.3B	0.75mm²
31	4.8	OPT	+ Q.E. -X02 8	+ Q.E. G4-OPT 43	ADI2553.01 4.3B	0.75mm²
32	4.8	OPT	+ Comp. -X04 8	+ Comp. OPT	ADI2553.01 4.3B	0.75mm²
33	4.1	PS1	+ Comp. -X04 3	+ Q.E. -X02 3	ADI2553.01 4.1B	0.75mm²
34	4.1	PS1	+ Q.E. -X02 3	+ Q.E. G3-PS1 41	ADI2553.01 4.1B	0.75mm²

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Riga	Designation	▲ Comment	Destination 1	Destination 2	Electrical diagram Ref.	Wire section
35	4.1	PS1	+ Comp. -X04 3	+ Comp. PS1	ADI2553.01 4.1B	0.75mm²
36	4.2	PS1	+ Comp. -X04 4	+ Q.E. -X02 4	ADI2553.01 4.1B	0.75mm²
37	4.2	PS1	+ Q.E. -X02 4	+ Q.E. G3-PS1 43	ADI2553.01 4.1B	0.75mm²
38	4.2	PS1	+ Comp. -X04 4	+ Comp. PS1	ADI2553.01 4.1B	0.75mm²
39	4.4	PS2	+ Comp. -X04 5	+ Comp. PS2	ADI2553.01 4.2B	0.75mm²
40	4.4	PS2	+ Q.E. -X02 5	+ Q.E. G3-PS2 51	ADI2553.01 4.2B	0.75mm²
41	4.4	PS2	+ Comp. -X04 5	+ Q.E. -X02 5	ADI2553.01 4.2B	0.75mm²
42	4.5	PS2	+ Comp. -X04 6	+ Comp. PS2	ADI2553.01 4.2B	0.75mm²
43	4.5	PS2	+ Q.E. -X02 6	+ Q.E. G3-PS2 53	ADI2553.01 4.2B	0.75mm²
44	4.5	PS2	+ Comp. -X04 6	+ Q.E. -X02 6	ADI2553.01 4.2B	0.75mm²
45	3.4	PT1	+ Comp. -X04 1	+ Comp. PT1 1	ADI2553.01 3.3D	0.75mm² screened
46	3.4	PT1	+ Q.E. -X02 1	+ Q.E. G2-PT1 43	ADI2553.01 3.3C	0.75mm² screened
47	3.4	PT1	+ Comp. -X04 1	+ Q.E. -X02 1	ADI2553.01 3.3D	0.75mm² screened
48	3.6	PT1	+ Comp. -X04 2	+ Q.E. -X02 2	ADI2553.01 3.3D	0.75mm² screened
49	3.6	PT1	+ Comp. -X04 2	+ Comp. PT1 3	ADI2553.01 3.3D	0.75mm² screened
50	3.6	PT1	+ Q.E. -X02 2	+ Q.E. G2-PT1 44	ADI2553.01 3.3C	0.75mm² screened
51	3.7	RS1	+ Q.E. -X00 8	+ Q.E. KT1 18	ADI2553.01 3.6E	0.75mm²
52	3.7	RS1	+ Q.E. -X00 8	+ Q.E. RS1	ADI2553.01 3.6D	0.75mm²
53	3.12	RS1	+ Q.E. -X00 7	+ Q.E. S1-20 input 6	ADI2553.01 3.6C	0.75mm²
54	3.12	RS1	+ Q.E. -X00 7	+ Q.E. RS1	ADI2553.01 3.6C	0.75mm²
55	2.9	Run	+ Q.E. -X00 3	+ Q.E. KML	ADI2553.01 2.8E	0.75mm²
56	2.10	Run	+ Q.E. -X00 4	+ Q.E. KML	ADI2553.01 2.8F	0.75mm²
57	4.14	SB2	+ Q.E. -X02 13	+ Q.E. G4-SB2 51	ADI2553.01 4.6D	0.75mm²
58	4.14	SB2	+ Comp. -X04 13	+ Comp. SB2	ADI2553.01 4.6D	0.75mm²
59	4.14	SB2	+ Comp. -X04 13	+ Q.E. -X02 13	ADI2553.01 4.6D	0.75mm²
60	4.15	SB2	+ Q.E. -X02 14	+ Q.E. G4-SB2 53	ADI2553.01 4.6D	0.75mm²
61	4.15	SB2	+ Comp. -X04 14	+ Q.E. -X02 14	ADI2553.01 4.6D	0.75mm²
62	4.15	SB2	+ Comp. -X04 14	+ Comp. SB2	ADI2553.01 4.6D	0.75mm²
63	0	SVx	+ Q.E. -X01 5	+ Q.E. KMF A2	ADI2553.01 2.4E	1mm²
64	0	SVx	+ Comp. -X03 5	+ Comp. SVx 2	ADI2553.01 2.4D	1mm²
65	0	SVx	+ Comp. -X03 5	+ Q.E. -X01 5	ADI2553.01 2.4E	1mm²
66	2.6	SVx	+ Comp. -X03 4	+ Q.E. -X01 4	ADI2553.01 2.4D	1mm²
67	2.6	SVx	+ Comp. -X03 4	+ Comp. SVx 1	ADI2553.01 2.4D	1mm²
68	2.6	SVx	+ Q.E. -X01 4	+ Q.E. S1-20 output 6	ADI2553.01 2.4C	1mm²

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