



Serie	DHCD-U-XC/R
Model	140-160-200(R)-230(R)


Drawing code	HF620C1000	Controller	PC01
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Power supply	400V/3~/50Hz + N	-
Auxiliary supply	24VAC	-

Created by	N.C.1	Revision by	N.C.1	Index	B
Date	02/04/2009	On	29/01/2011		

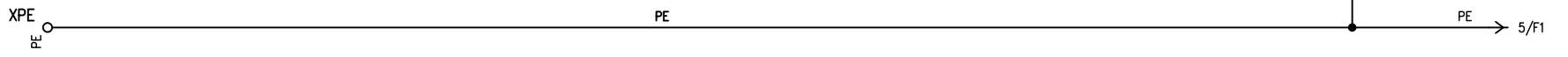
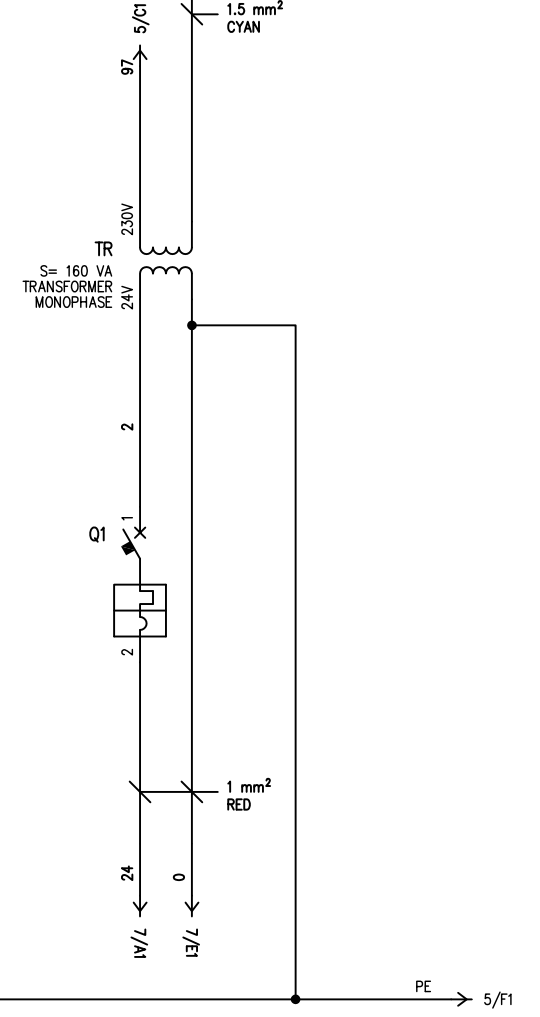
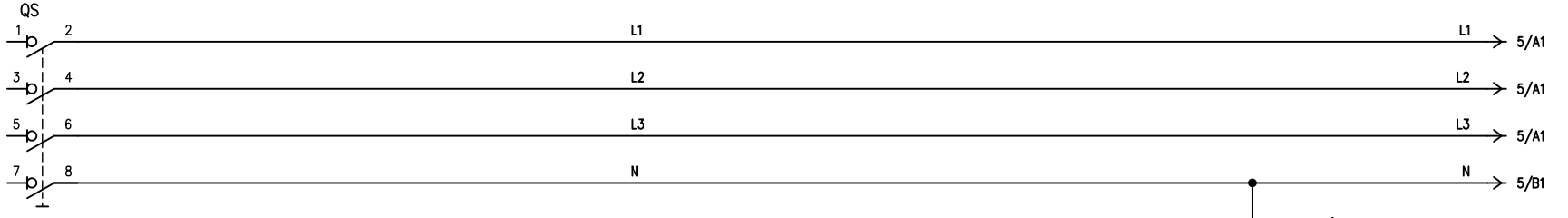
Max power (kW)	SEE TABLE ON PAGE 2-3
FLA (A)	SEE TABLE ON PAGE 2-3
RLA (A)	SEE TABLE ON PAGE 2-3

Main protection	SEE TABLE ON PAGE 2-3
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1	2		3	4	5	6	7	8				
JREF												
A	MODEL	POWER SUPPLY	MAX ABSORBED POWER (kW)	MAX ABSORBED CURENT (A)	RLA (A)	MAIN SUGGEST PROTECTION gG FUSE TYPE	MIN SUGGEST CROSS SECTION LINE (mm ²) VS MAX LENGTH (m) AIR TEMPERATURE 30°C – MULTICORE CABLE – CABLE INSIDE TUBE ON AIR					
							PVC ISULATED		EPR (G7-G10) ISULATED			
							CABLE WORKING TEMPERATURE 70°C	MAX LENGTH VOLTAGE DROP<4%	CABLE WORKING TEMPERATURE 90°C	MAX LENGTH VOLTAGE DROP<4%		
B	140-160 COOLING ONLY WITH STANDARD FANS	LINE	0,5	4,2	/	16	2,5	300	1,5	181		
	140-160 COOLING ONLY WITH HP FANS	LINE	0,6	7,0	/	16	2,5	180	1,5	108		
	140-160 COOLING ONLY WITH EC FANS	LINE	0,7	8,4	/	16	2,5	150	1,5	91		
C	140-160 COOLING + HEATING ONLY WITH STANDARD FANS	LINE	6,1	15,7	/	20	4	128	2,5	81		
	140-160 COOLING + HEATING ONLY WITH HP FANS	LINE	6,2	15,7	/	20	4	128	2,5	81		
	140-160 COOLING + HEATING ONLY WITH EC FANS	LINE	6,3	15,7	/	20	4	128	2,5	81		
D	140-160 COOLING + HUMIDIFIER ONLY WITH STANDARD FANS	LINE	2,7	7,4	/	16	2,5	169	1,5	102		
	140-160 COOLING + HUMIDIFIER ONLY WITH HP FANS	LINE	2,9	10,2	/	16	2,5	123	1,5	74		
	140-160 COOLING + HUMIDIFIER ONLY WITH EC FANS	LINE	3,0	11,6	/	16	2,5	108	1,5	65		
E	140-160 COOLING + HEATING + UMIDIFIER WITH STANDARD FANS	LINE	8,3	18,9	/	25	6	158	4	106		
	140-160 COOLING + HEATING + UMIDIFIER WITH HP FANS	LINE	8,5	18,9	/	25	6	158	4	106		
	140-160 COOLING + HEATING + UMIDIFIER WITH EC FANS	LINE	8,6	18,9	/	25	6	158	4	106		
F	A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009				HF620C1000		SHEET 2 OF 30 CONTINUE 3
	B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1						
					CHECK	F.F.1						
	REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.						
1	2	3	4	5	6	7	8					

1	2		3	4	5	6	7	8			
JREF-R											
A	MODEL	POWER SUPPLY	MAX ABSORBED POWER (kW)	MAX ABSORBED CURENT (A)	RLA (A)	MAIN SUGGEST PROTECTION gG FUSE TYPE	MIN SUGGEST CROSS SECTION LINE (mm²) VS MAX LENGTH (m) AIR TEMPERATURE 30°C - MULTICORE CABLE - CABLE INSIDE TUBE ON AIR				
							PVC ISULATED		EPR (G7-G10) ISULATED		
							CABLE WORKING TEMPERATURE 70°C	MAX LENGTH VOLTAGE DROP<4%	CABLE WORKING TEMPERATURE 90°C	MAX LENGTH VOLTAGE DROP<4%	
	140-230 COOLING ONLY	LINE	1,0	2,2	/	16	2,5	572	1,5	346	
	140-230 COOLING + HEATING ONLY	LINE	6,6	17,9	/	25	6	167	4	112	
B	140-230 COOLING + HUMIDIFIER ONLY	LINE	3,3	5,4	/	16	2,5	231	1,5	140	
	140-230 COOLING + HEATING + UMIDIFIER	LINE	8,9	21,1	/	25	6	142	4	95	
C											
D											
E											
F											
A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009			HF620C1000		SHEET 3 OF 30	
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1					CONTINUE	4
				CHECK	F.F.1						
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.						
1	2	3	4	5	6	7	8				

POWER SUPPLY
400/3~/50Hz + N



REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.
A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
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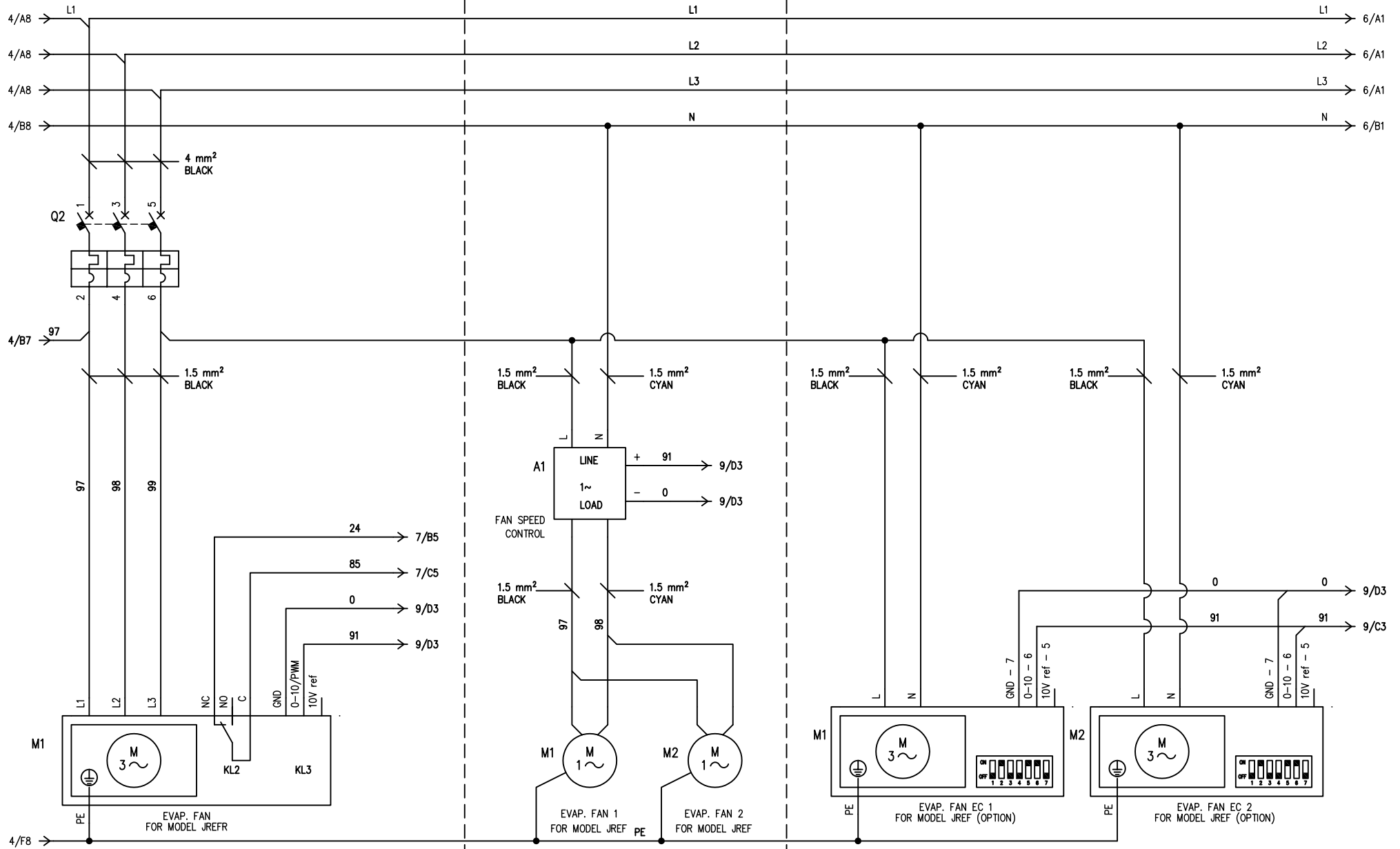


HF620C1000

RADIAL VERSION

CENTRIFUGAL VERSION

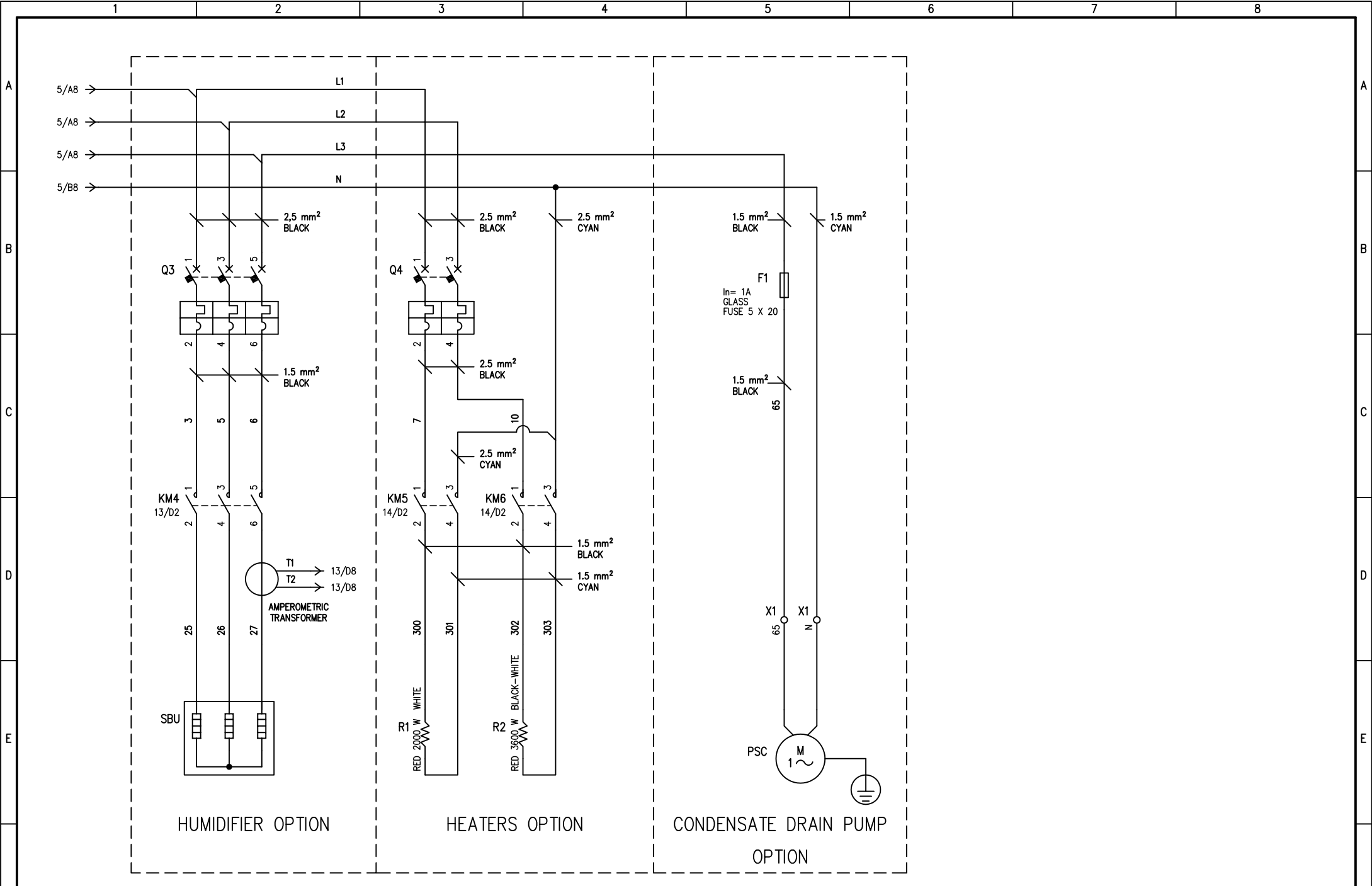
CENTRIFUGAL EC VERSION



A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
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REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



HF620C1000



HUMIDIFIER OPTION

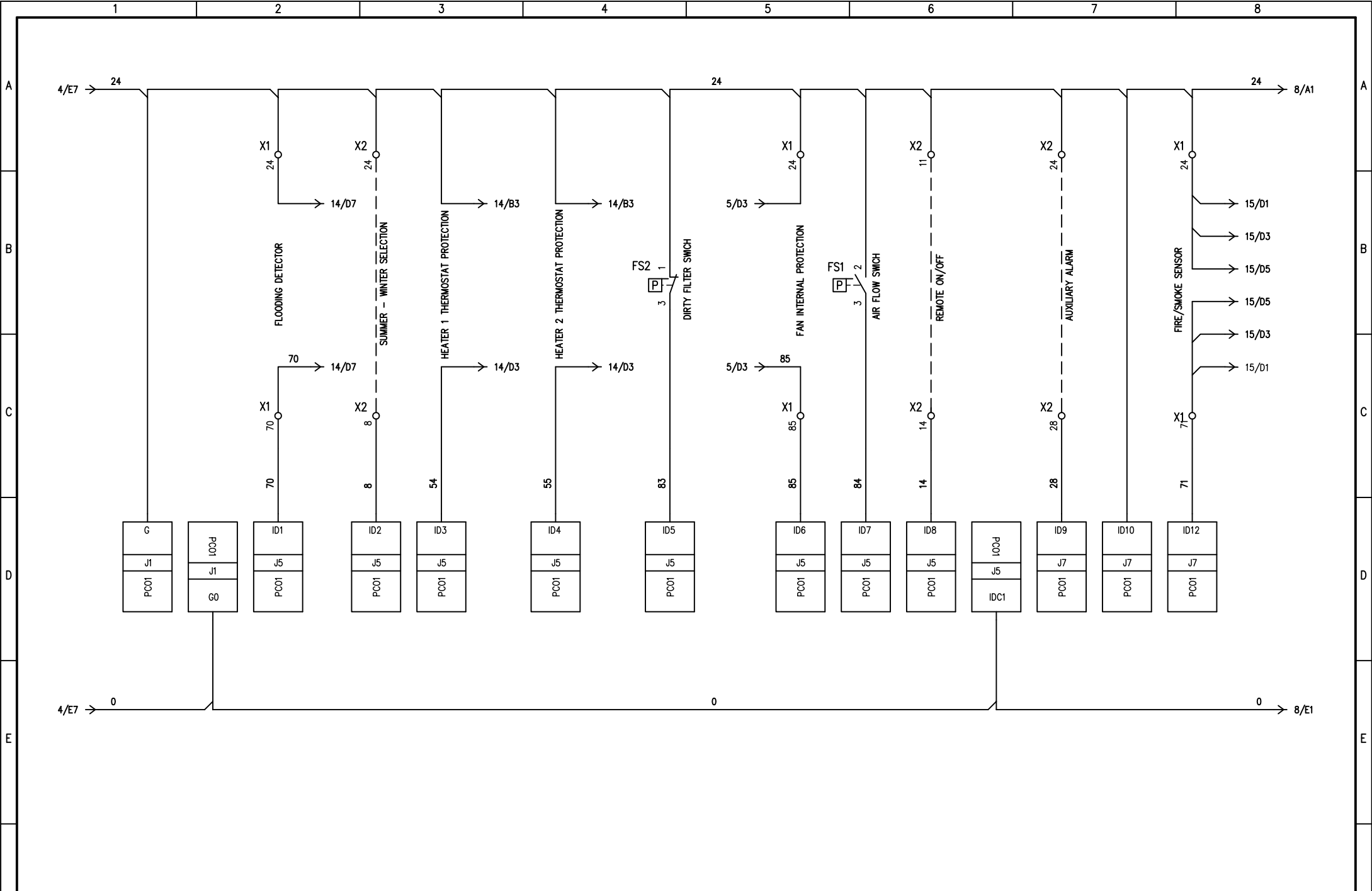
HEATERS OPTION

CONDENSATE DRAIN PUMP
OPTION

A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
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REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



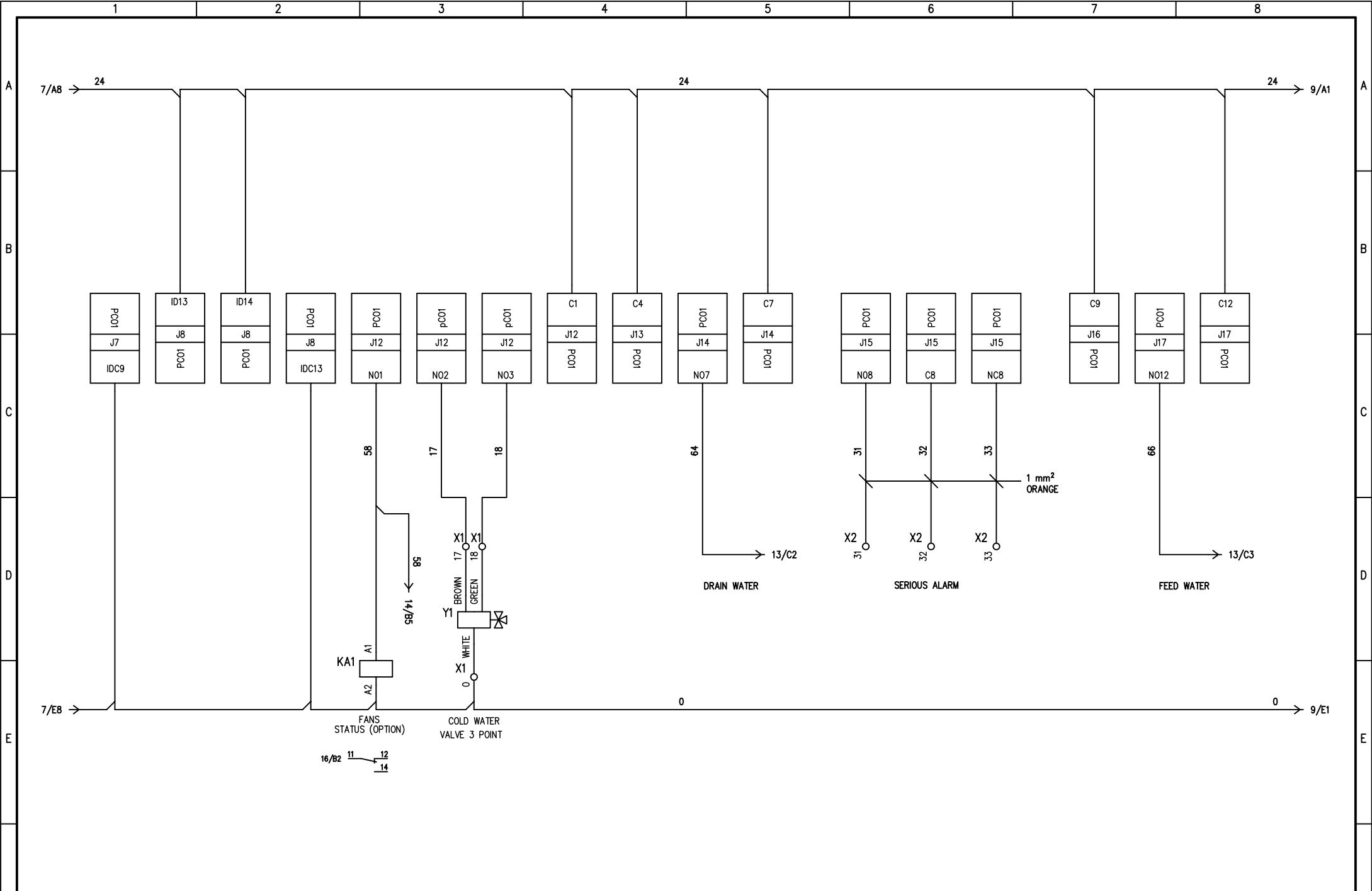
HF620C1000



A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
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REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



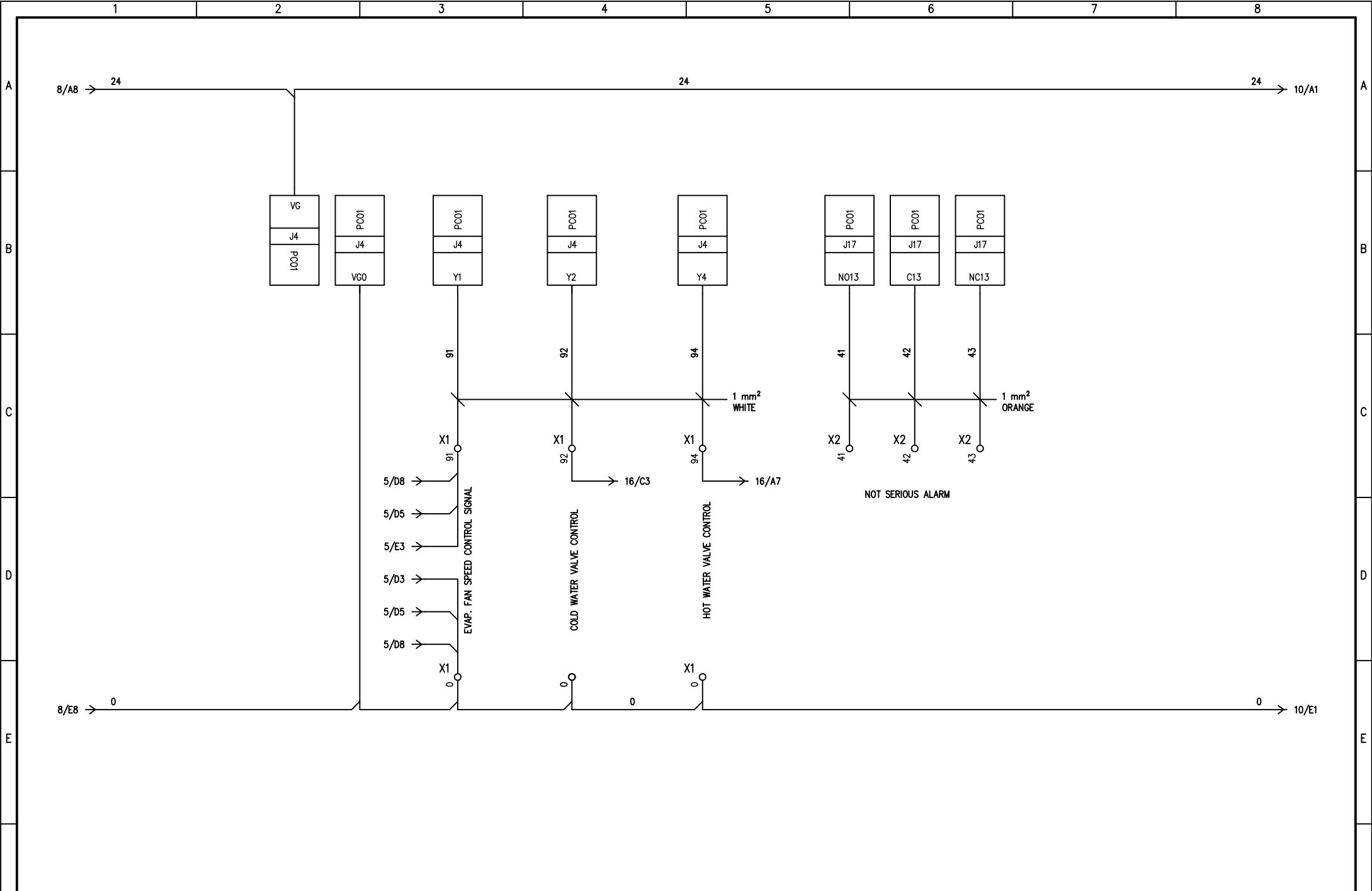
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A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
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REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



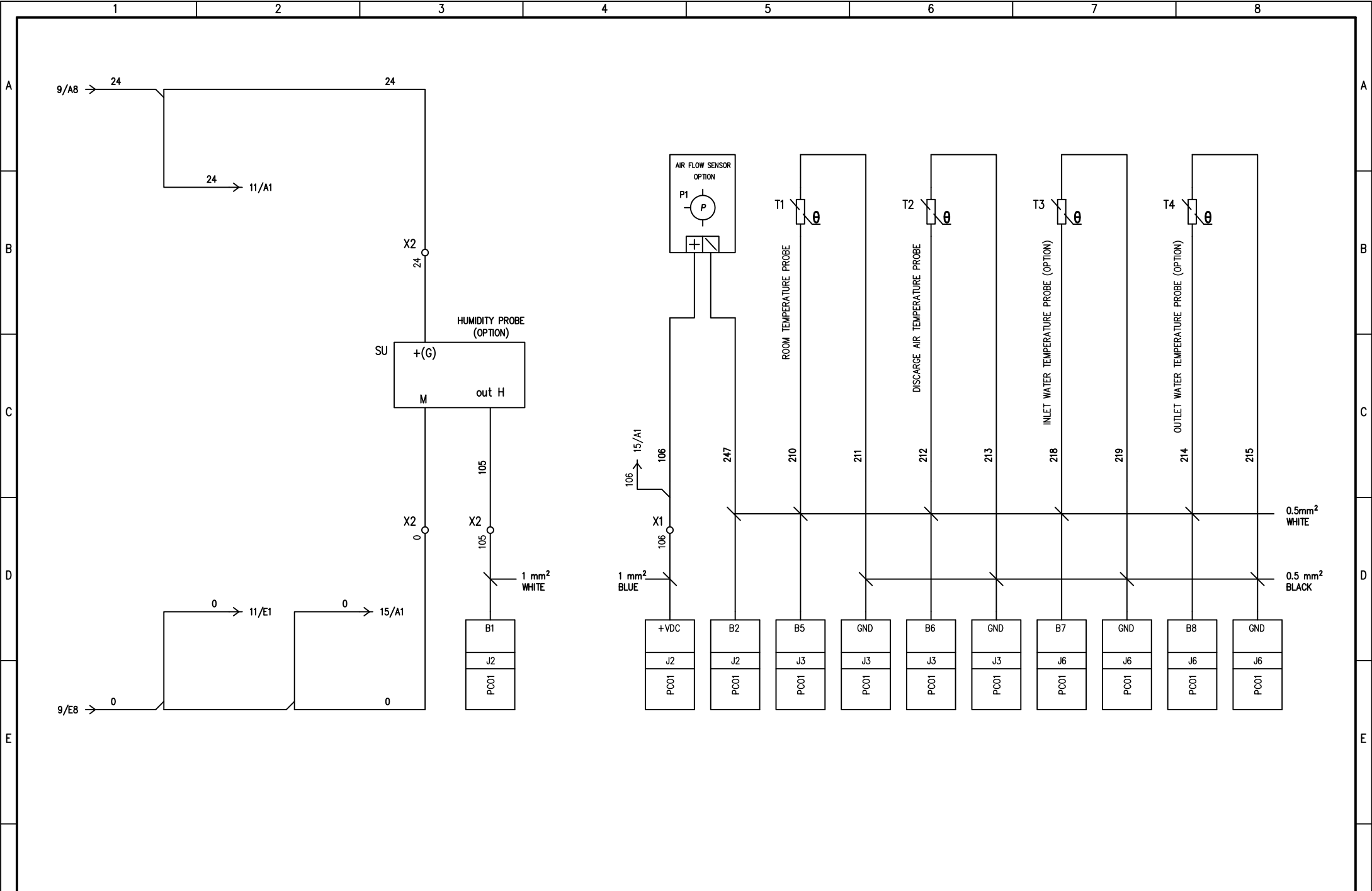
HF620C1000



REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.
A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
				CHECK	F.F.1



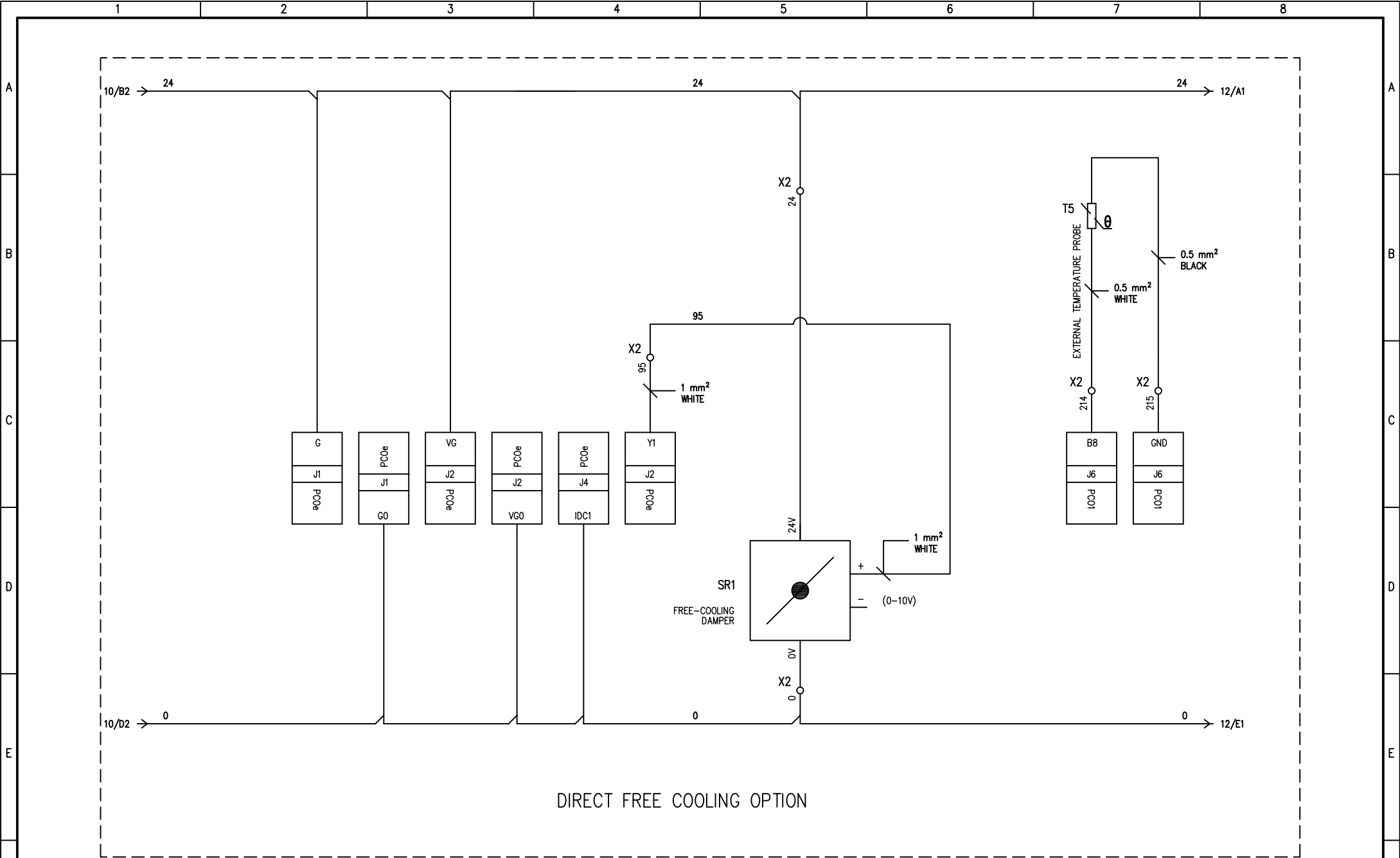
HF620C1000



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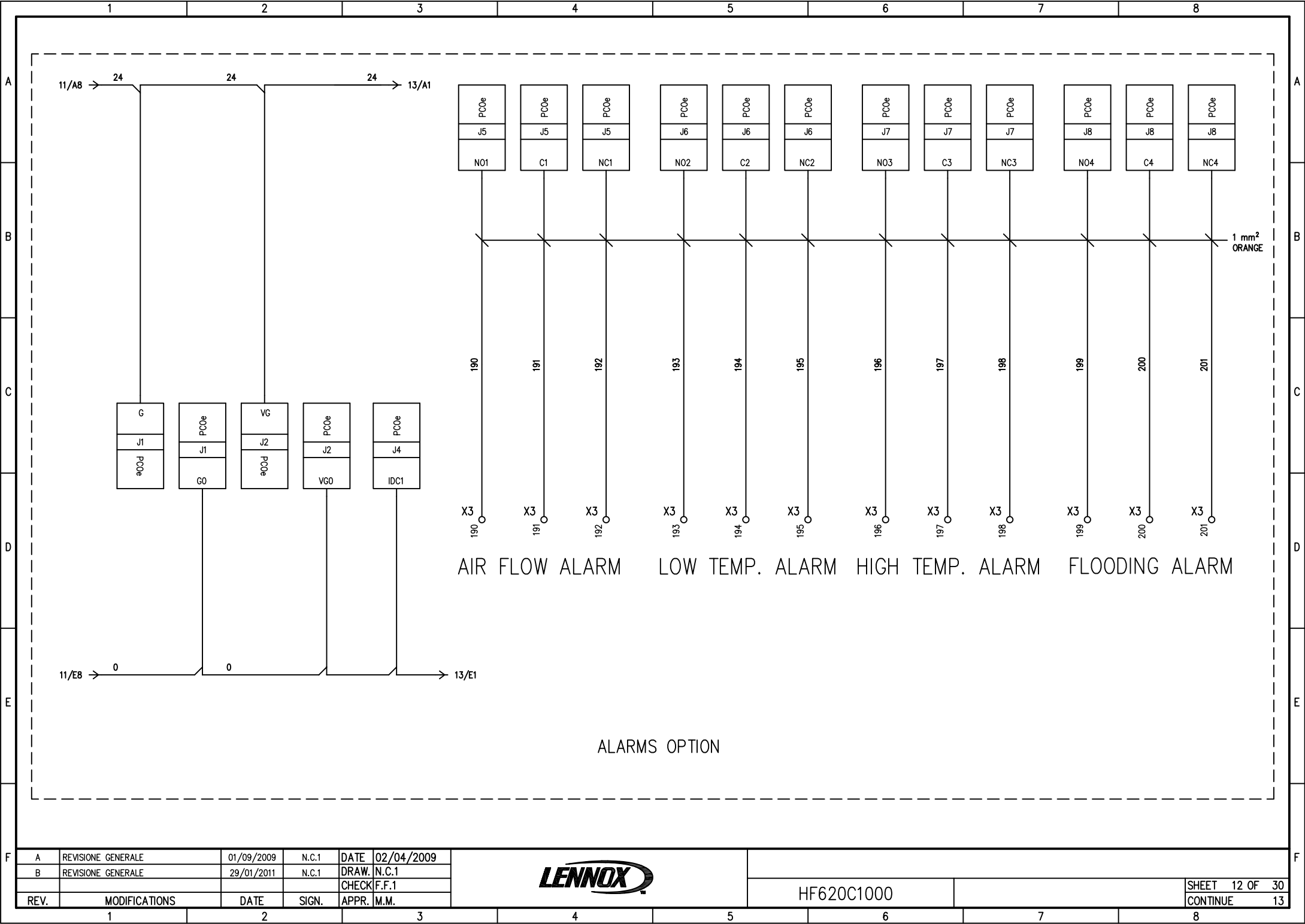
HF620C1000



A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
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REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



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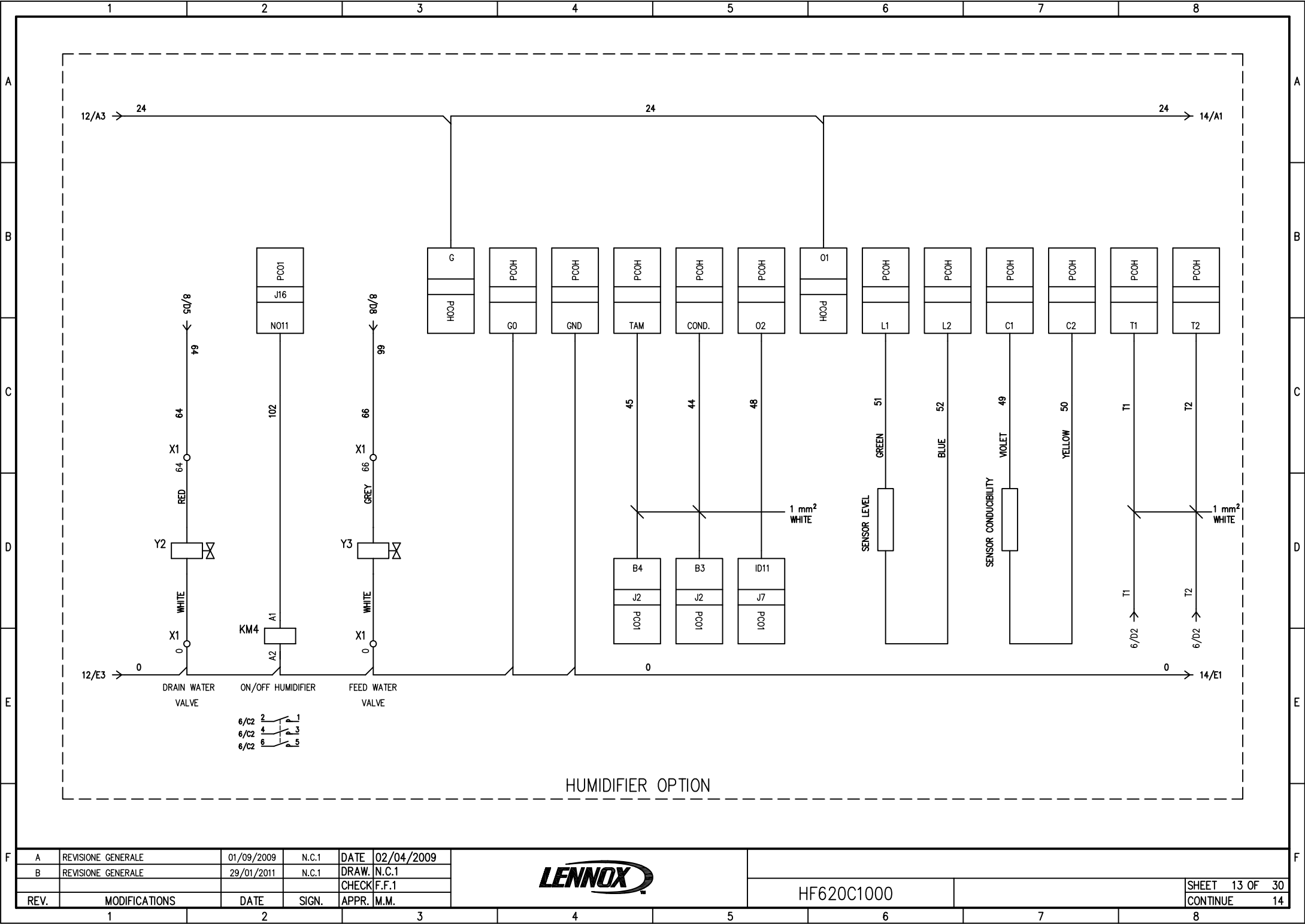
AIR FLOW ALARM LOW TEMP. ALARM HIGH TEMP. ALARM FLOODING ALARM

ALARMS OPTION

A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
REV.	MODIFICATIONS	DATE	SIGN.	CHECK	F.F.1
			APPR.	M.M.	



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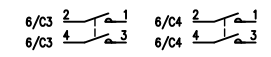
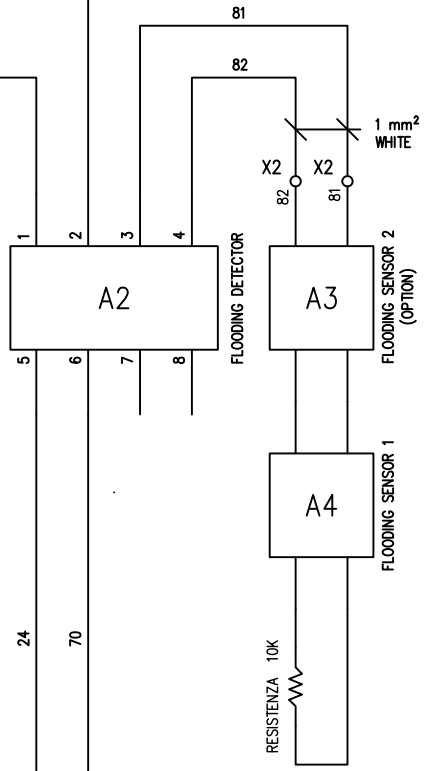
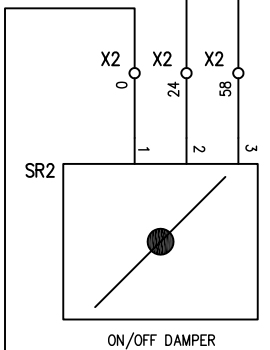
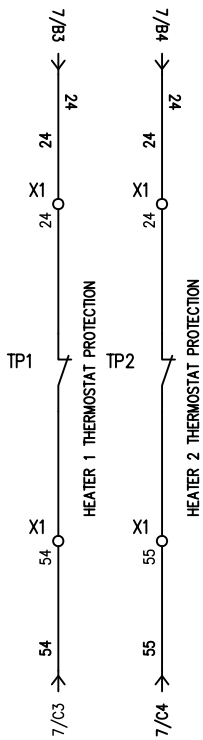
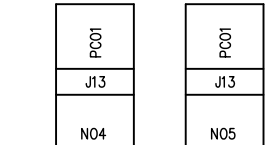
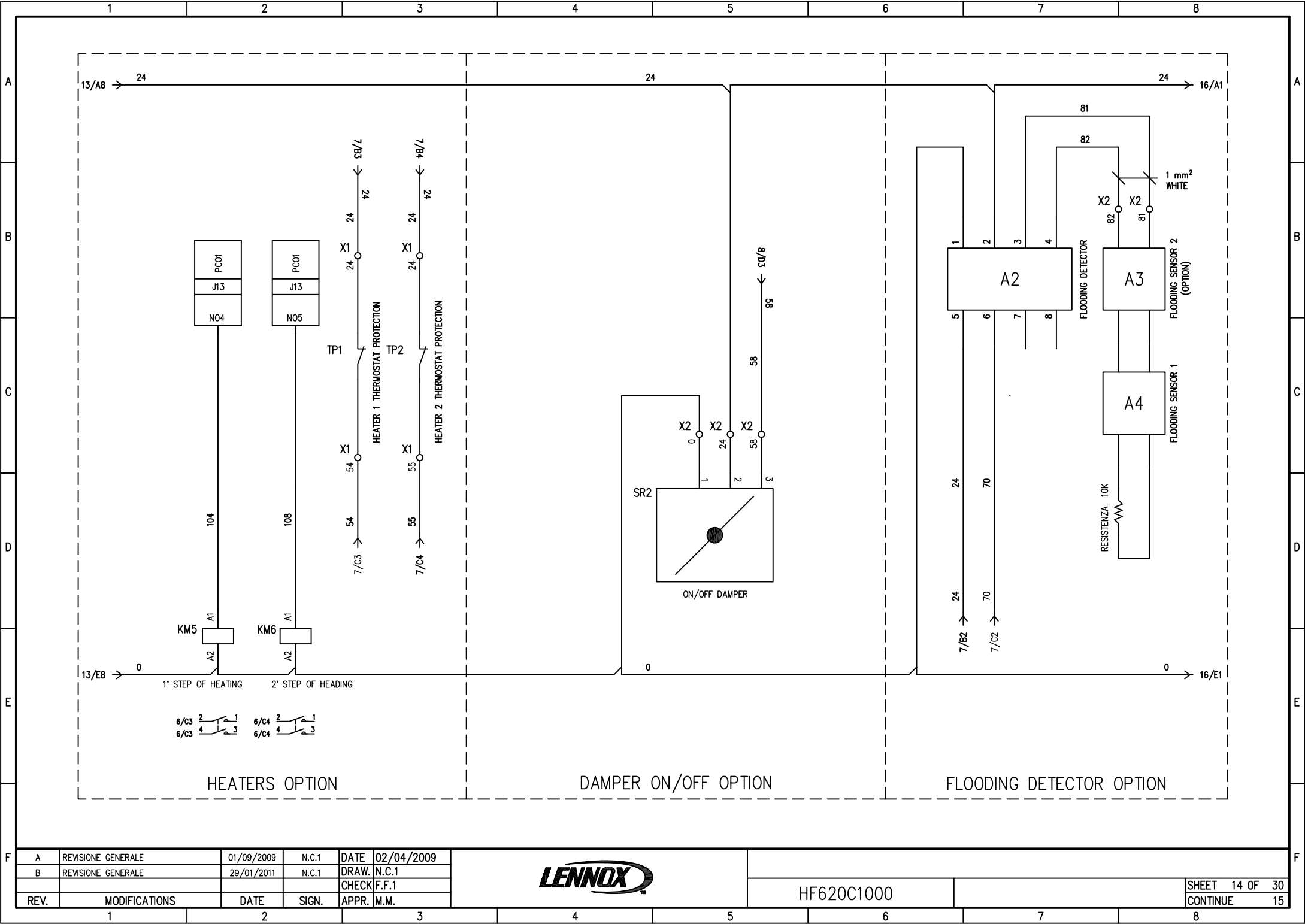


HUMIDIFIER OPTION

A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
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				CHECK	F.F.1
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



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HEATERS OPTION

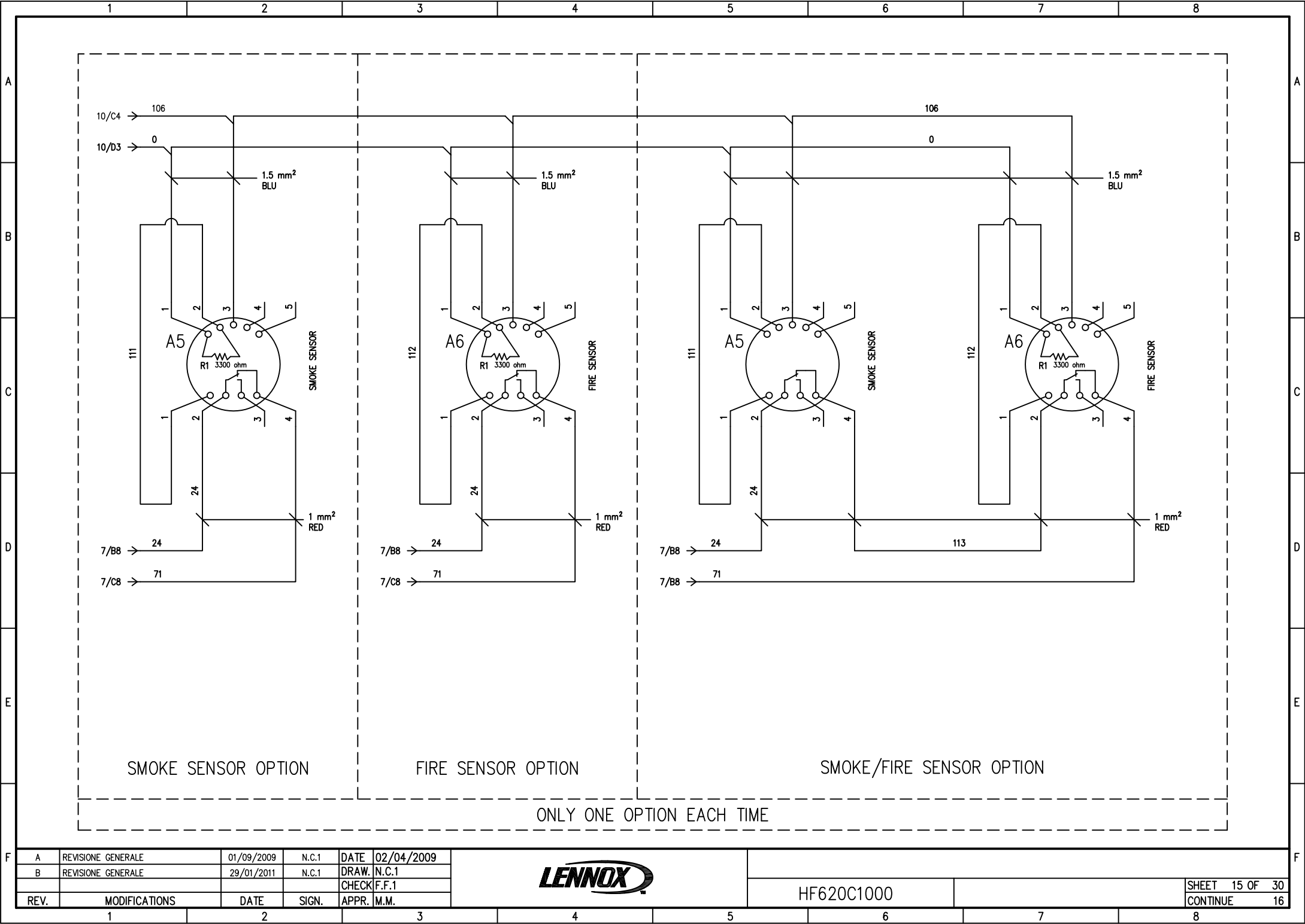
DAMPER ON/OFF OPTION

FLOODING DETECTOR OPTION

A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



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SMOKE SENSOR OPTION

FIRE SENSOR OPTION

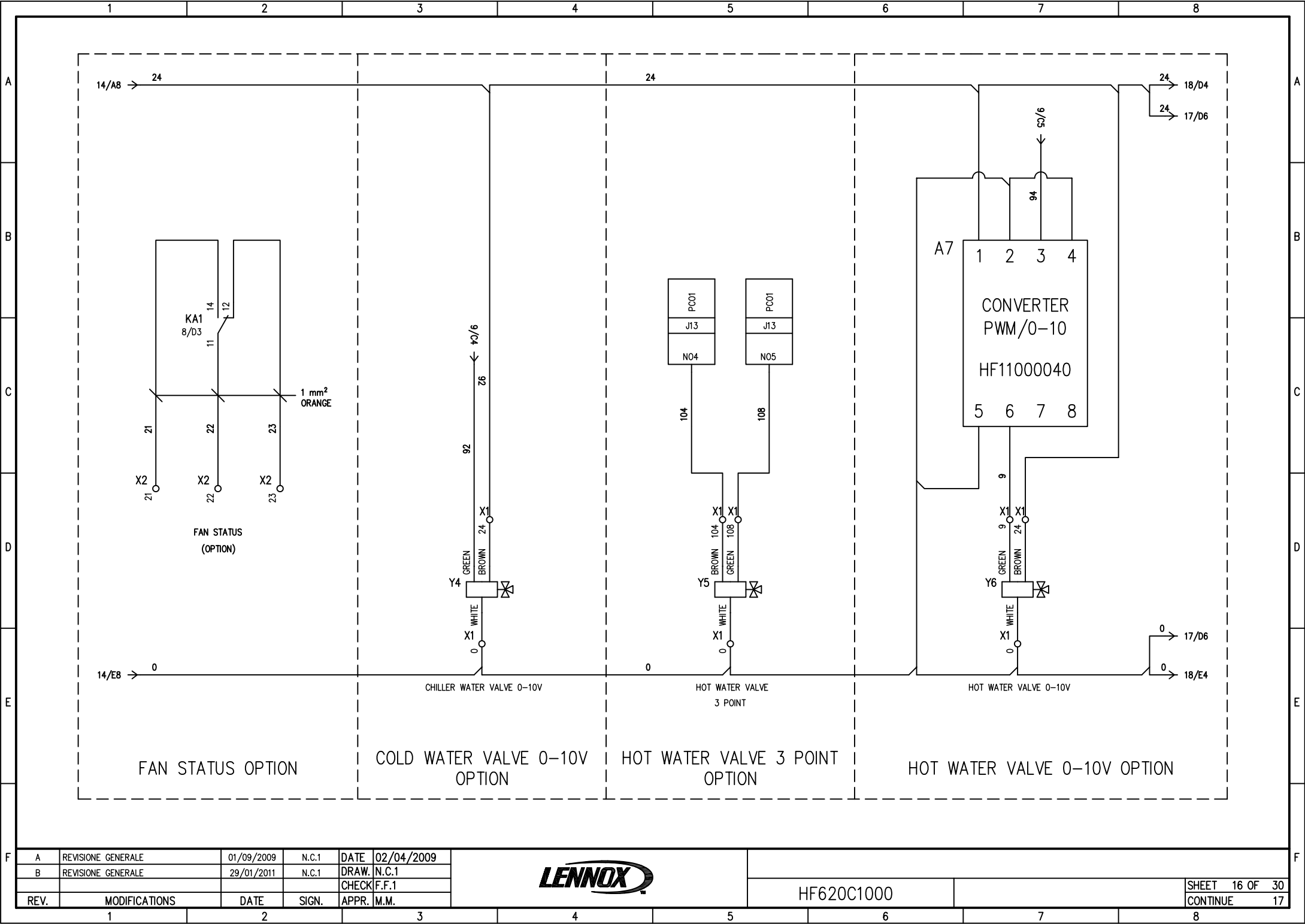
SMOKE/FIRE SENSOR OPTION

ONLY ONE OPTION EACH TIME

A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
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REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



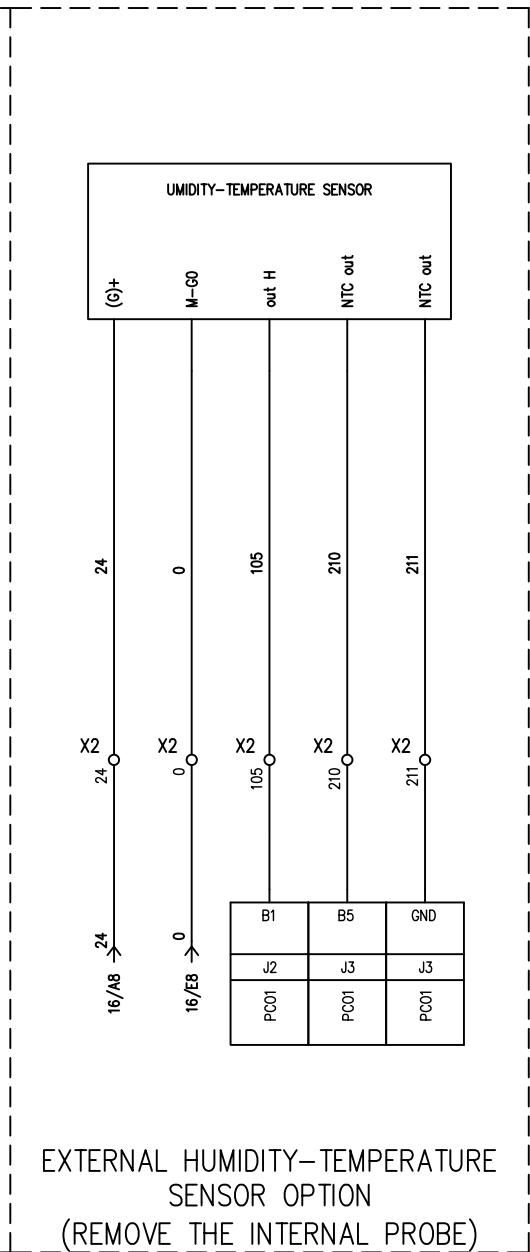
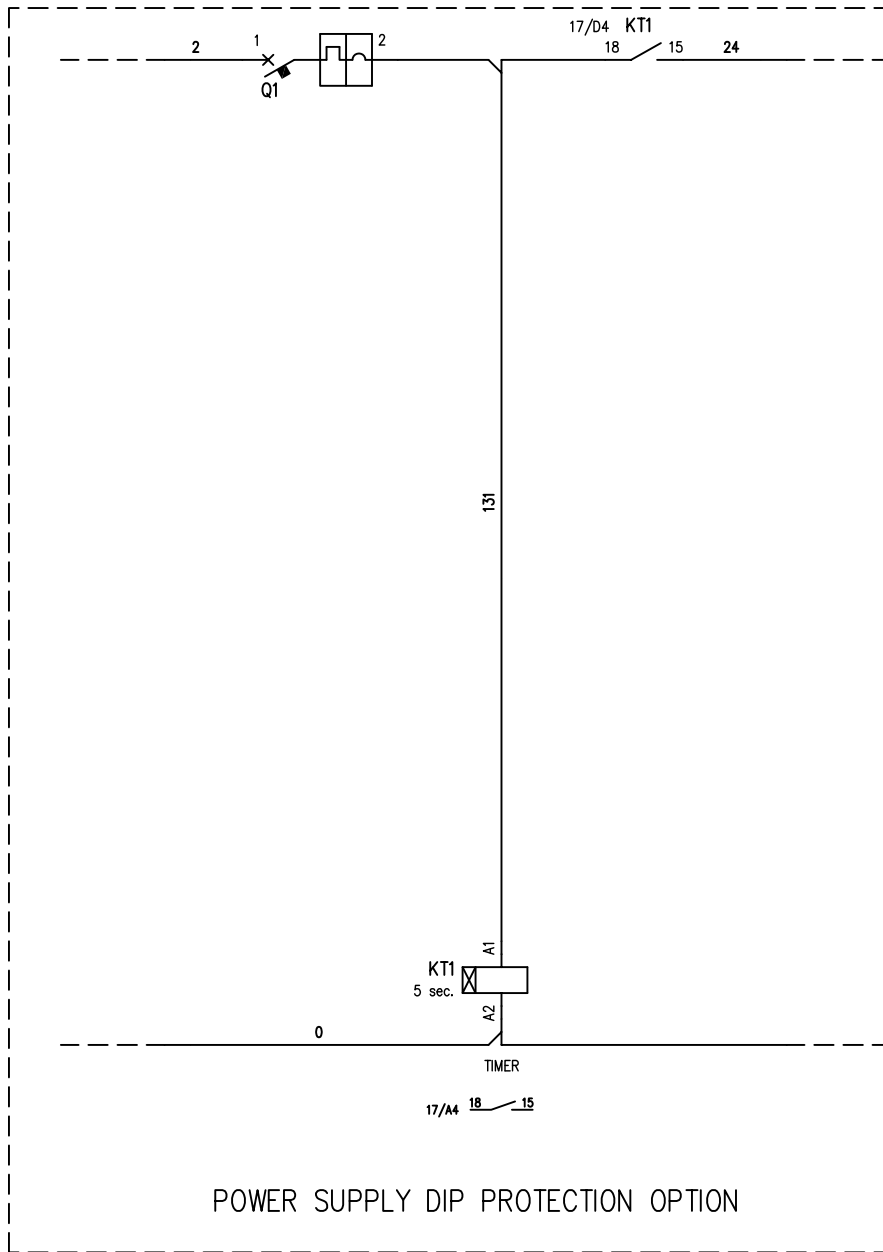
HF620C1000



A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
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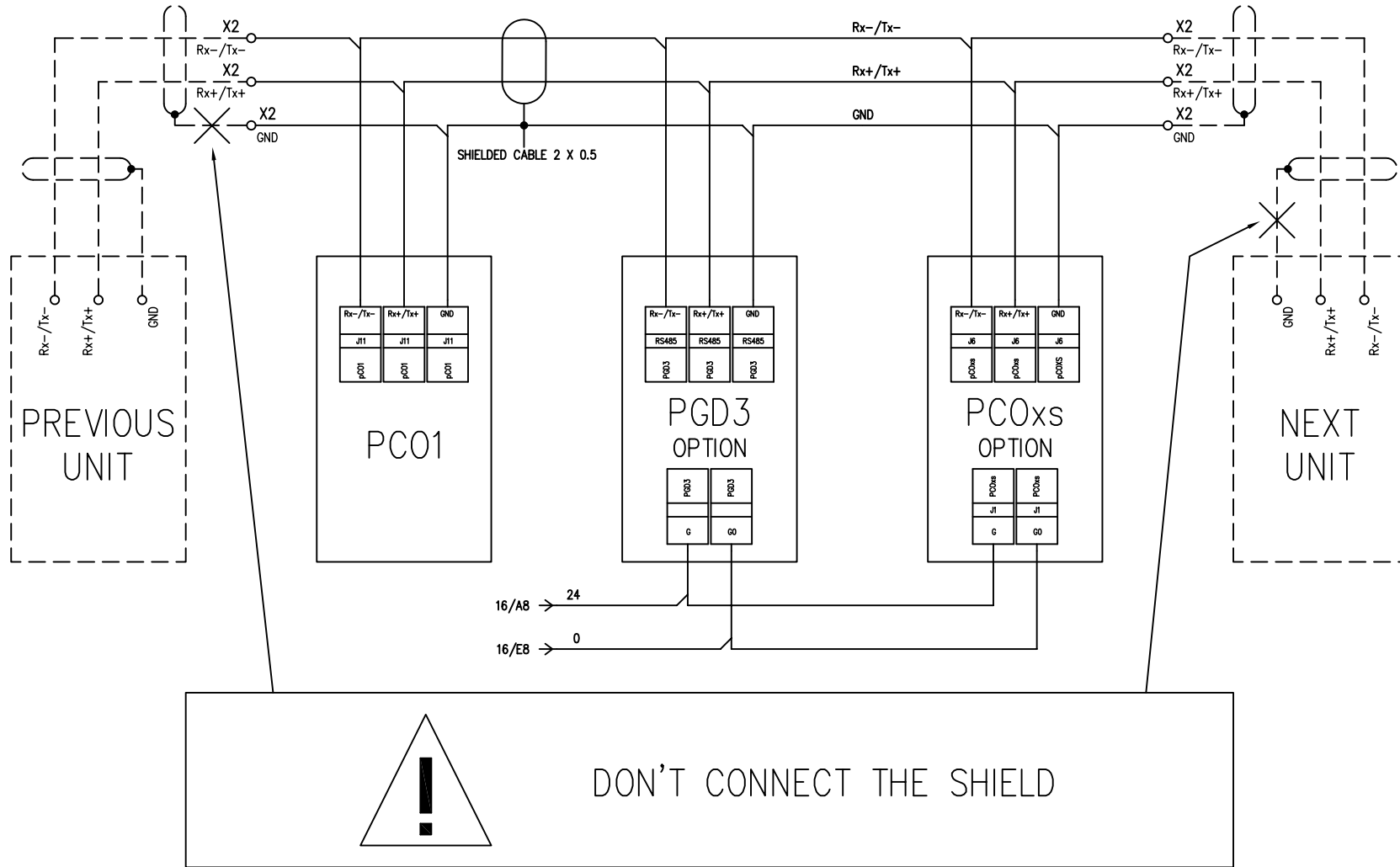


A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
				CHECK	F.F.1
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



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pLAN CONNECTION

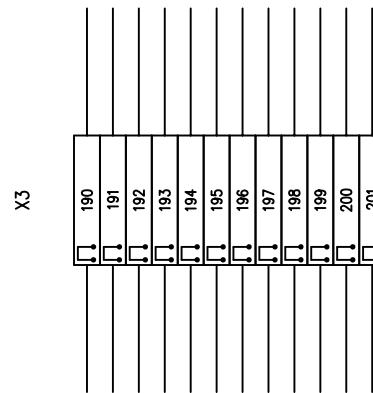
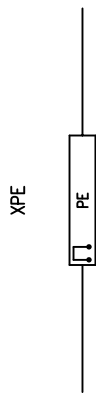
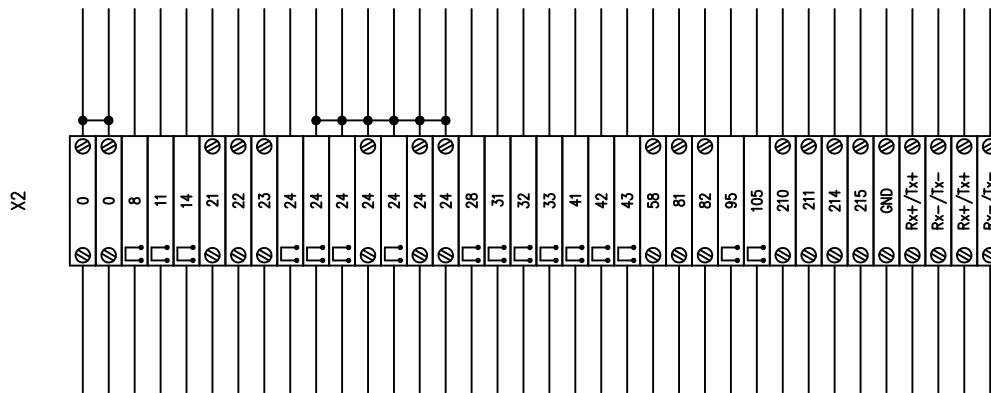
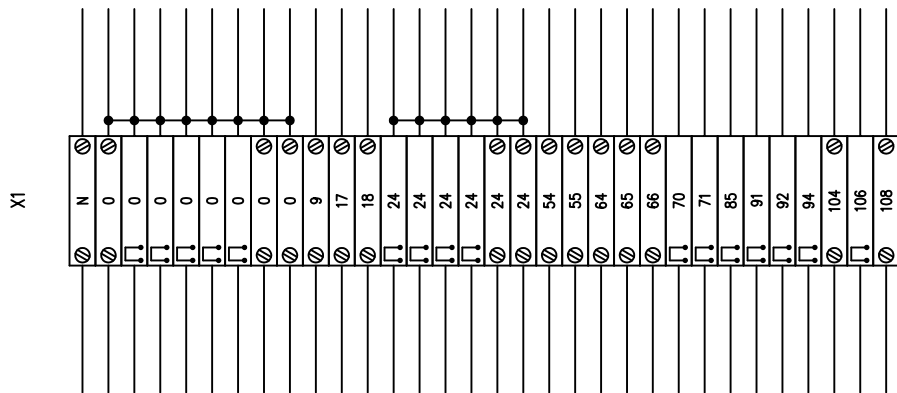


A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
				CHECK	F.F.1
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



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TERMINAL STRIP

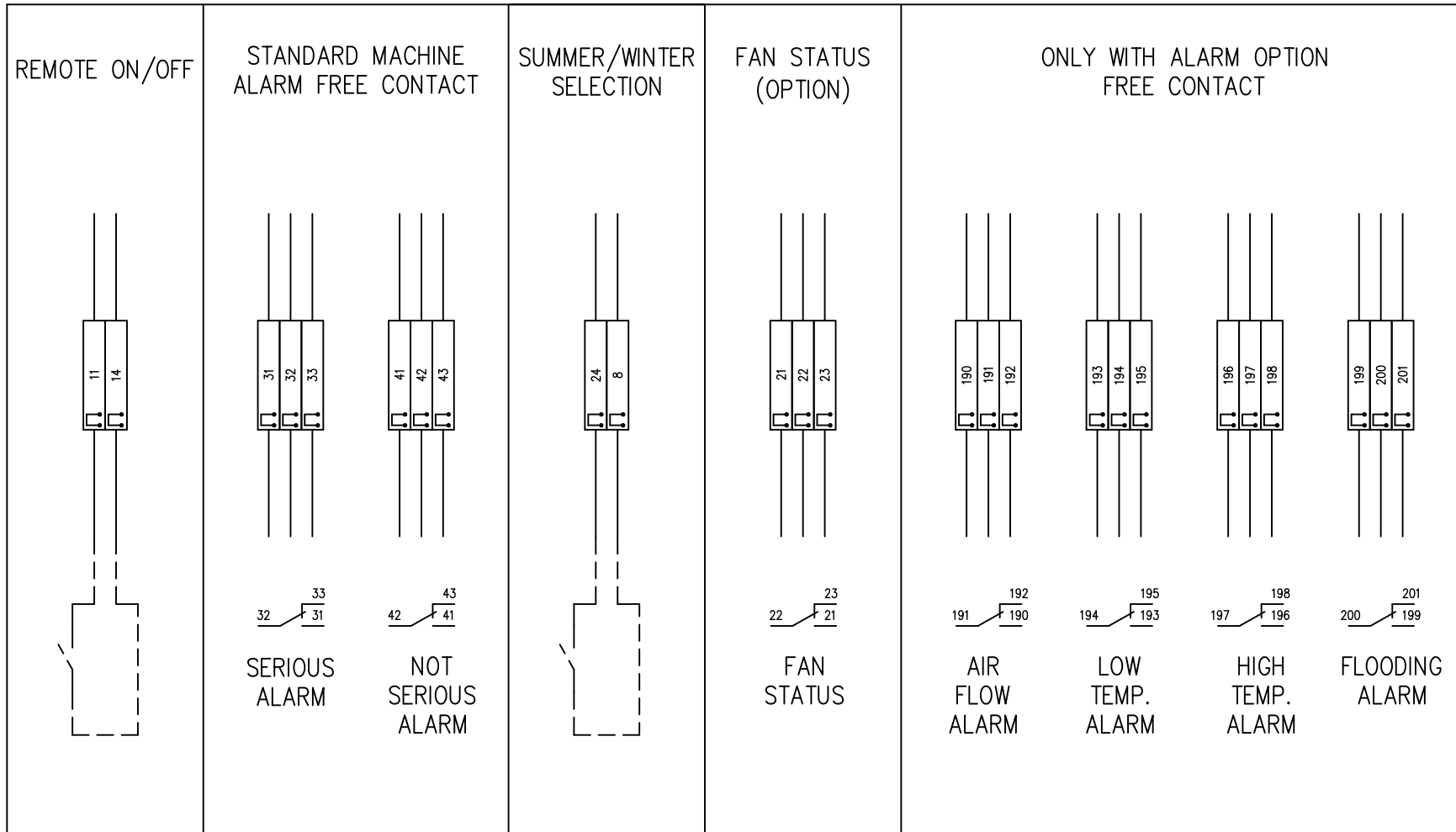


A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
				CHECK	F.F.1
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



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USER CONNECTION

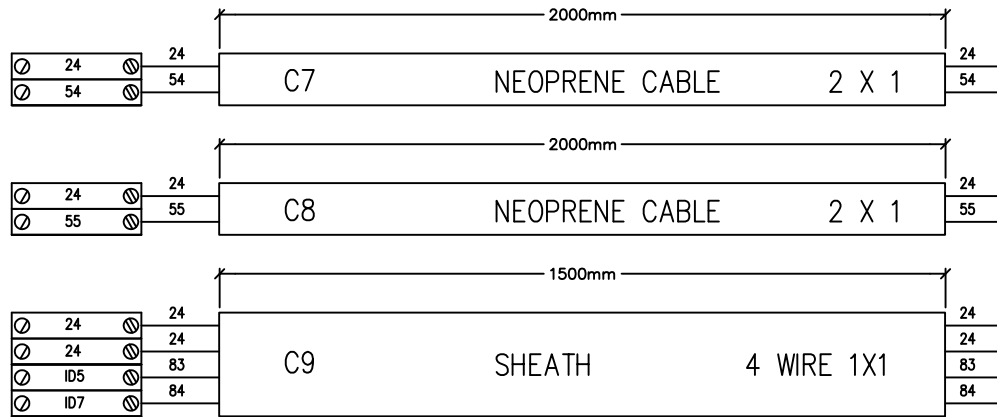
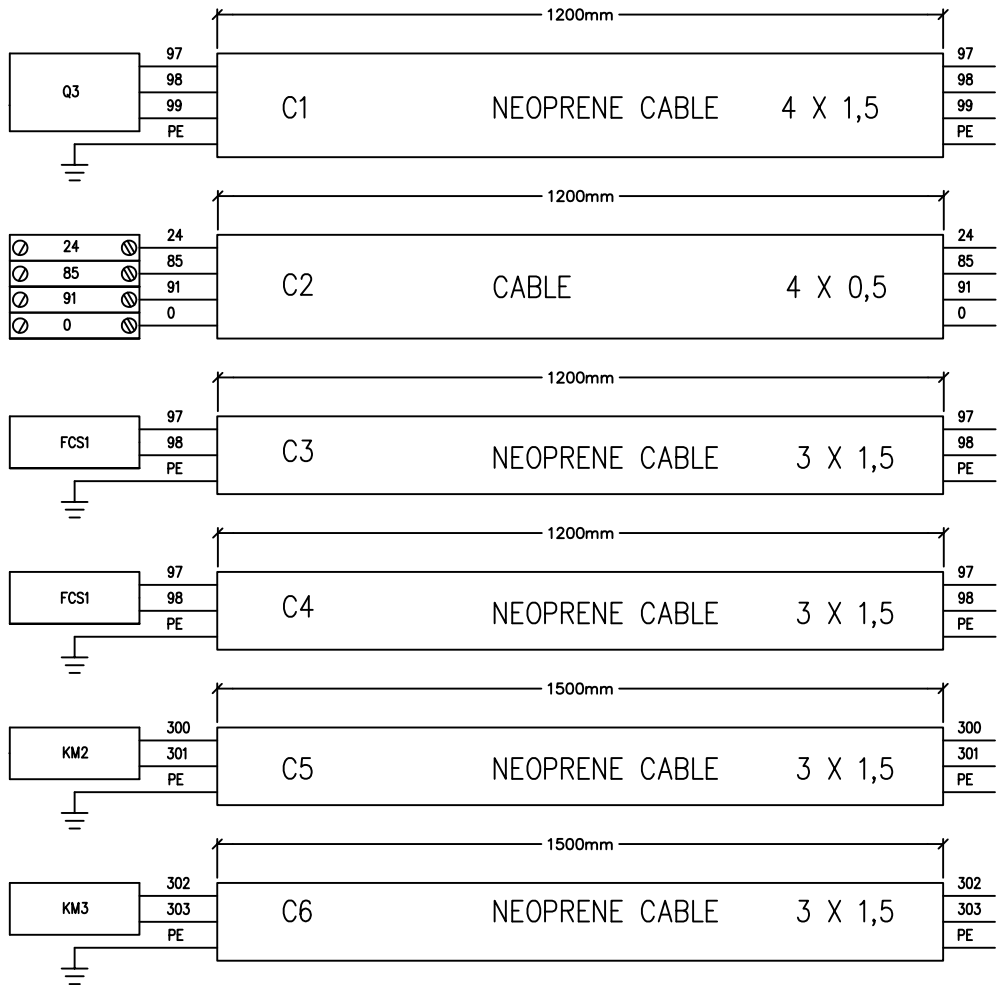


A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
				CHECK	F.F.1
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



HF620C1000

THE LENGTH OF THE CABLES IS REFERRED TO EXTERNAL SIDE OF THE ELECTRICAL PANEL

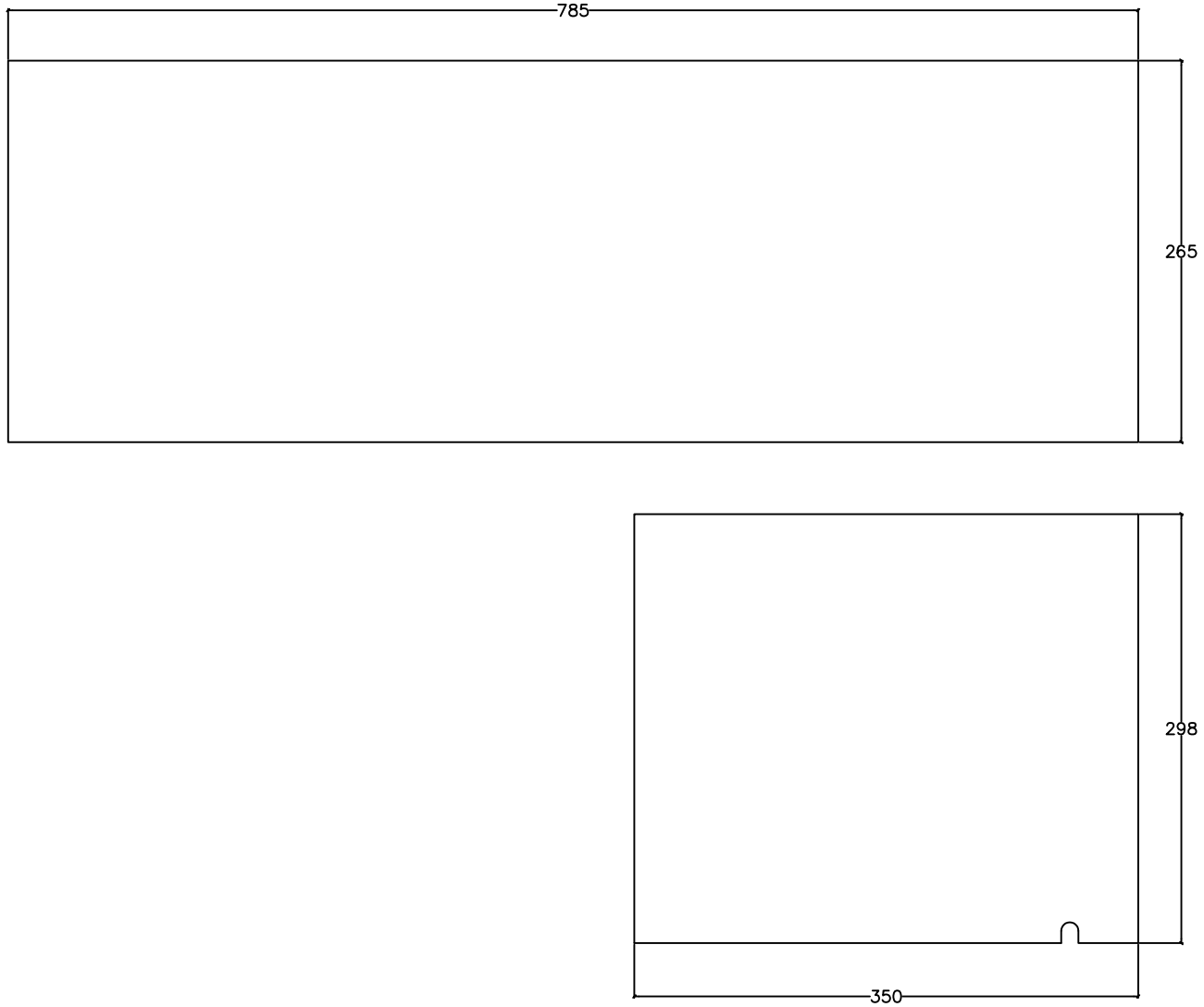


A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
REV.	MODIFICATIONS	DATE	SIGN.	CHECK	F.F.1
				APPR.	M.M.



HF620C1000

GROUND PLATE LAYOUT

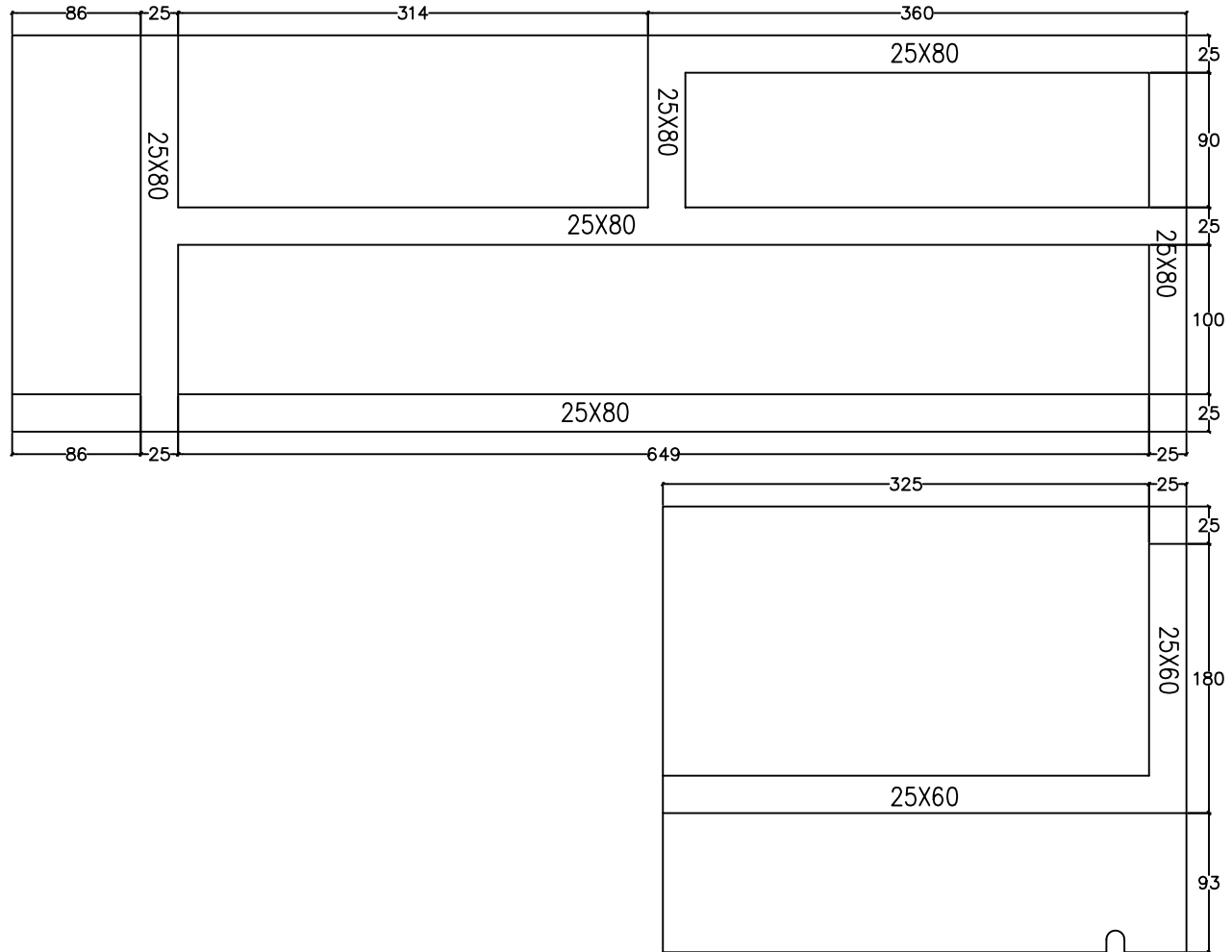


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B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
				CHECK	F.F.1
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



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CANAL DISTRIBUTION LAYOUT

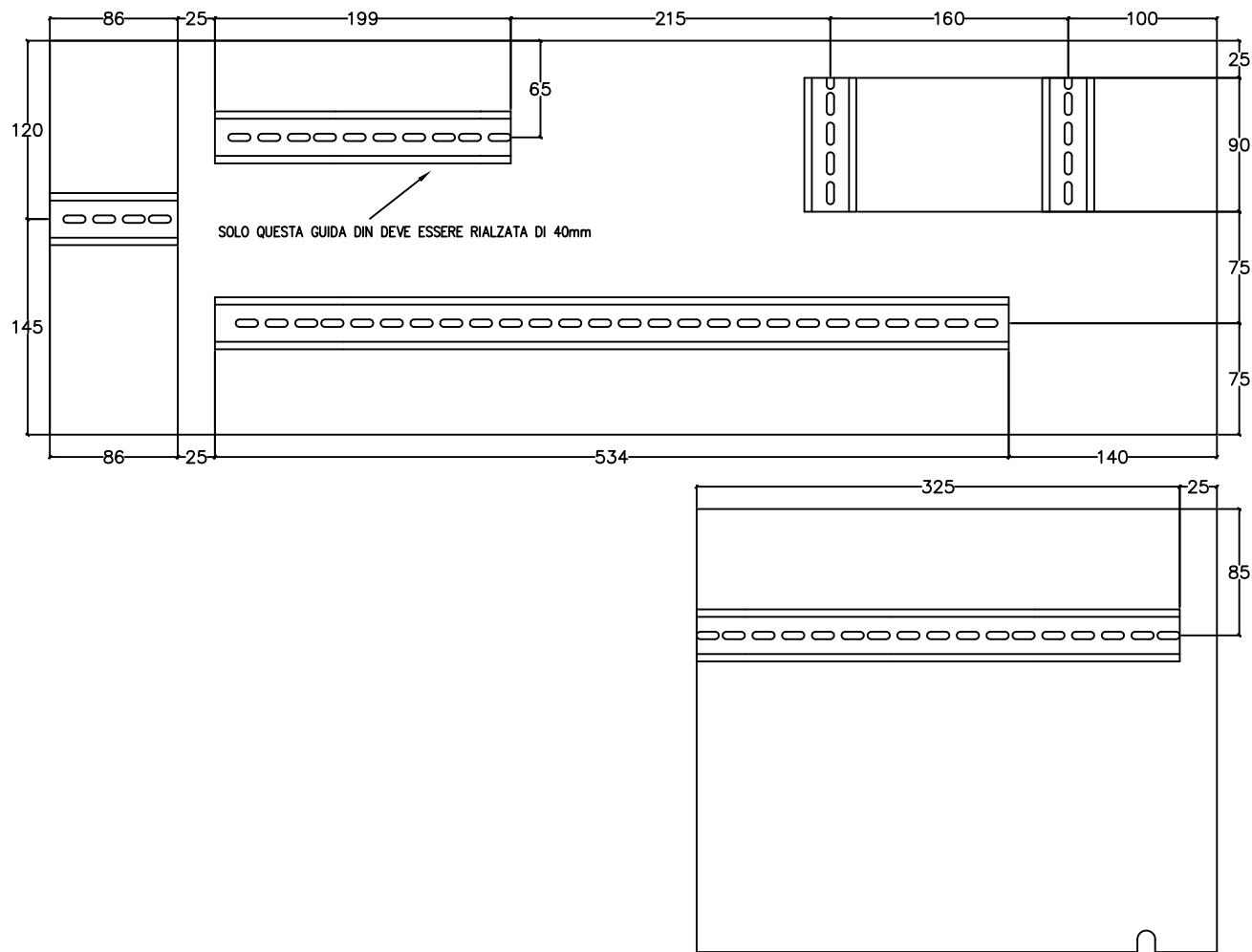


A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
				CHECK	F.F.1
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



HF620C1000

GUIDE DIN DISTRIBUTION LAYOUT



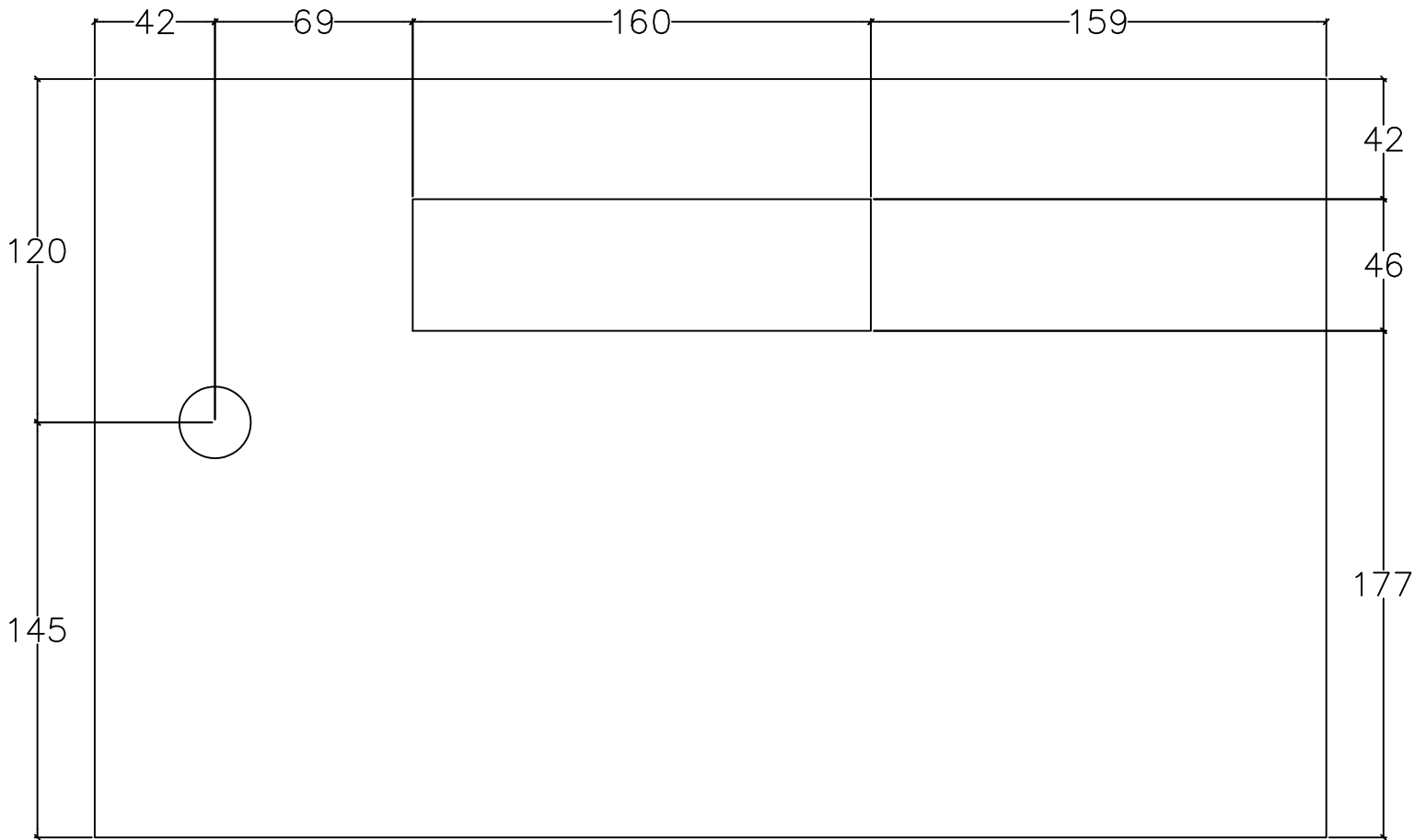
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A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
				CHECK	F.F.1



HF620C1000

PLEXIGLASS LAYOUT

THE DISTANCE BETWEEN THE PLATE AND THE PLEXIGLASS SHALL NOT EXCEED 100mm

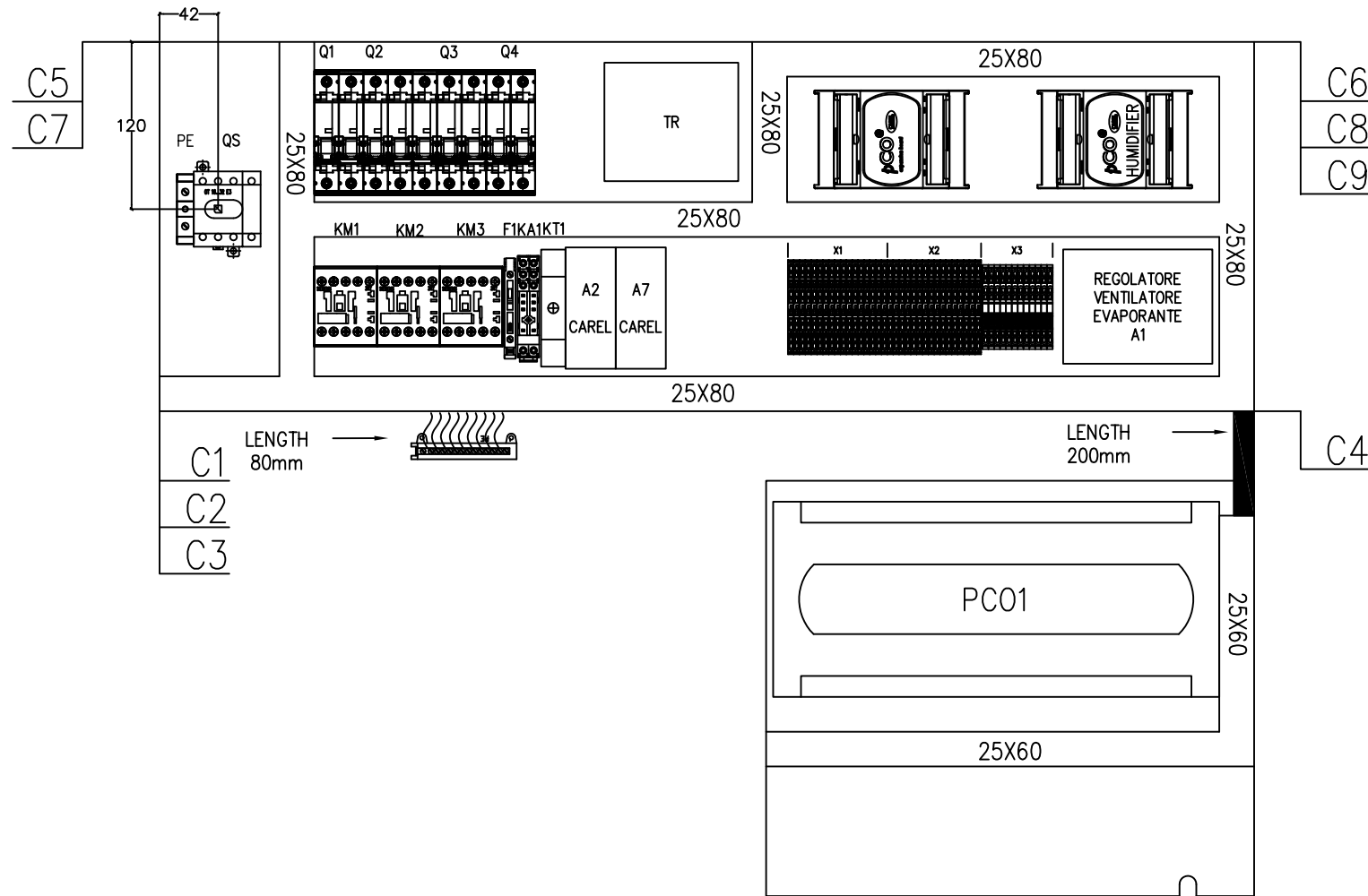


A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
				CHECK	F.F.1
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



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DISTRIBUTION OF THE COMPONENTS IN ELECTRICAL PANEL LAYOUT



A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
				CHECK	F.F.1
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



HF620C1000

REVISION HISTORY (ONLY FOR INTERNAL USE)

REVISION	DATE	MODIFICATIONS	BY
A	01/09/2009	GENERAL REVISION	N.C.1
B	29/01/2011	GENERAL REVISION	N.C.1

A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
				CHECK	F.F.1
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.




HF620C1000

STANDARD BILL OF MATERIALS

1	2	3	4	5	6	7	8
SYMBOL	FUNCTION	BRAND	CODE	DESCRIPTION	QUANTITY	M.U.	
QS	MAIN SWITCH	ABB	OT32E4+OHY3AJ+OXS6X85	MAIN SWITCH 4P In= 32A	1	PCE	
Q1	AUXILIARY CIRCUIT PROTECTION	SIEMENS	5SY6 106-7	INT. AUT. 1P C 6A 6KA	1	PCE	
Q2	FANS PROTECTION	SIEMENS	5SY6 310-7	INT. AUT. 3P C 10A 6KA	1	PCE	
XPE	TERMINAL STRIP	PHOENIX	3044212	CLAMP UT 16-PE	1	PCE	
X1	TERMINAL STRIP	PHOENIX	3031157	CLAMP STTB 1,5	16	PCE	
X2	TERMINAL STRIP	PHOENIX	3031157	CLAMP STTB 1,5	18	PCE	
TR	TRANSFORMER	MARINI		TRANSFORMER Vin=230V / Vout=24V S=160VA	1	PCE	
	GROUND PLATE	HIREF	HF17002296 HF17000756	GROUND PLATE	1	PCE	
	GROUND BAR			GROUND BAR	1	PCE	

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A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009		HF620C1000	SHEET 28 OF 30	
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1			CONTINUE	29
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.				

HUMIDIFIER OPTION

	SYMBOL	FUNCTION	BRAND	CODE	DESCRIPTION	QUANTITY	M.U.
A	Q3	HUMIDIFIER PROTECTION	SIEMENS	5SY6306-7/HF40000721	INT. AUT. 3P C6A 6KA	1	PCE
	KM4	ON/OFF UMIDIFIER	SIEMENS	3RT1015-1AB01/HF40000742	CONTACTOR 3 KW 3P 400V BOB. 24V AC	1	PCE

HEATERS OPTION

	SYMBOL	FUNCTION	BRAND	CODE	DESCRIPTION	QUANTITY	M.U.
B	Q4	HEATERS PROTECTION	SIEMENS	5SY6220-7/HF40000733	INT. AUT. 2P C20A 6KA	1	PCE
	KM5	ON/OFF HEATER 1* STEP	SIEMENS	3RT1015-1AB01/HF40000742	CONTACTOR 3 KW 3P 400V BOB. 24V AC	1	PCE
C	KM6	ON/OFF HEATER 2* STEP	SIEMENS	3RT1015-1AB01/HF40000742	CONTACTOR 3 KW 3P 400V BOB. 24V AC	1	PCE

UNIT STATUS RELAY OPTION

	SYMBOL	FUNCTION	BRAND	CODE	DESCRIPTION	QUANTITY	M.U.
D	KA1	UNIT STATUS RELAY	FINDER	HF40000253 + HF40000251 40528024+9505+09571	RELAY	1	PCE

POWER DIP PROTECTION OPTION

	SYMBOL	FUNCTION	BRAND	CODE	DESCRIPTION	QUANTITY	M.U.
E	KT1	TIMER	FINDER	HF40000876 801102400000	TIMER	1	PCE

A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
				CHECK	F.F.1
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



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CONDENSATE DRAIN PUMP OPTION

1	2		3	4	5	6	7	8
CONDENSATE DRAIN PUMP OPTION								
	SYMBOL	FUNCTION	BRAND	CODE	DESCRIPTION	QUANTITY	M.U.	
	F1	PUMP PSC PROTECTION	ITALWEBER	0101001	FUSE IN GLASS 5 X 20 In= 1A	1	PCE	
	F1	FUSE BOX	PHOENIX	3004100	FUSE BOX G 5 X 20	1	PCE	

A	REVISIONE GENERALE	01/09/2009	N.C.1	DATE	02/04/2009
B	REVISIONE GENERALE	29/01/2011	N.C.1	DRAW.	N.C.1
				CHECK	F.F.1
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



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