



Serie	DHCD-U-XR
Model	300 - 1200

Drawing code	HF620C1478	Controller	PC01
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Power supply	400V/3~/50Hz + N	-
Auxiliary supply	24VAC	-

Created by	N.C.1	Revision by	-	Index	/
Date	01/06/2011	On	-		

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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A	1	2	3	4	5	6		7	8	A	
	MODEL	POWER SUPPLY	MAX ABSORBED POWER (kW)	MAX ABSORBED CURRENT (A)	RLA (A)	MAIN SUGGEST PROTECTION gG FUSE TYPE	MIN SUGGEST CROSS SECTION LINE (mm <sup>2</sup> ) 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%		
	300-380-450-550 COOLING ONLY	LINE	2,3	3,6	/	16	2,5	350	1,5	211,6	
	300-380-450-550 COOLING + HUMIDIFIER ONLY	LINE	8,3	12,3	/	20	4	163	2,5	102,4	
B	300-380-450-550 COOLING + HEATING ONLY	LINE	13,5	28	/	32	6	107	6	107	
	300-380-450-550 COOLING + HEATING + HUMIDIFIER	LINE	19,5	36,7	/	40	10	134,6	6	81,6	
	400-500-650-750 COOLING ONLY	LINE	4,6	7,2	/	20	4	278,5	2,5	175	
	400-500-650-750 COOLING + HUMIDIFIER ONLY	LINE	10,6	15,9	/	20	4	126,1	2,5	79,2	
C	400-500-650-750 COOLING + HEATING ONLY	LINE	19,4	31,6	/	40	10	156,3	6	94,8	
	400-500-650-750 COOLING + HEATING + HUMIDIFIER	LINE	25,4	40,3	/	50	16	191,8	10	122,5	
D	890-1090 COOLING ONLY	LINE	4,6	7,2	/	20	4	278,5	2,5	175	
	890-1090 COOLING + HUMIDIFIER ONLY	LINE	10,6	15,9	/	20	4	126,1	2,5	79,2	
	890-1090 COOLING + HEATING ONLY	LINE	22,6	38,6	/	50	16	200,2	10	127,9	
	890-1090 COOLING + HEATING + HUMIDIFIER	LINE	28,6	47,3	/	63	25	252,4	16	163,4	
E											
F					DATE	01/06/2012					
					DRAW.	N.C.1					
					CHECK	F.F.1					
	REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.		HF620C1478		SHEET 2 OF 31 CONTINUE 3	

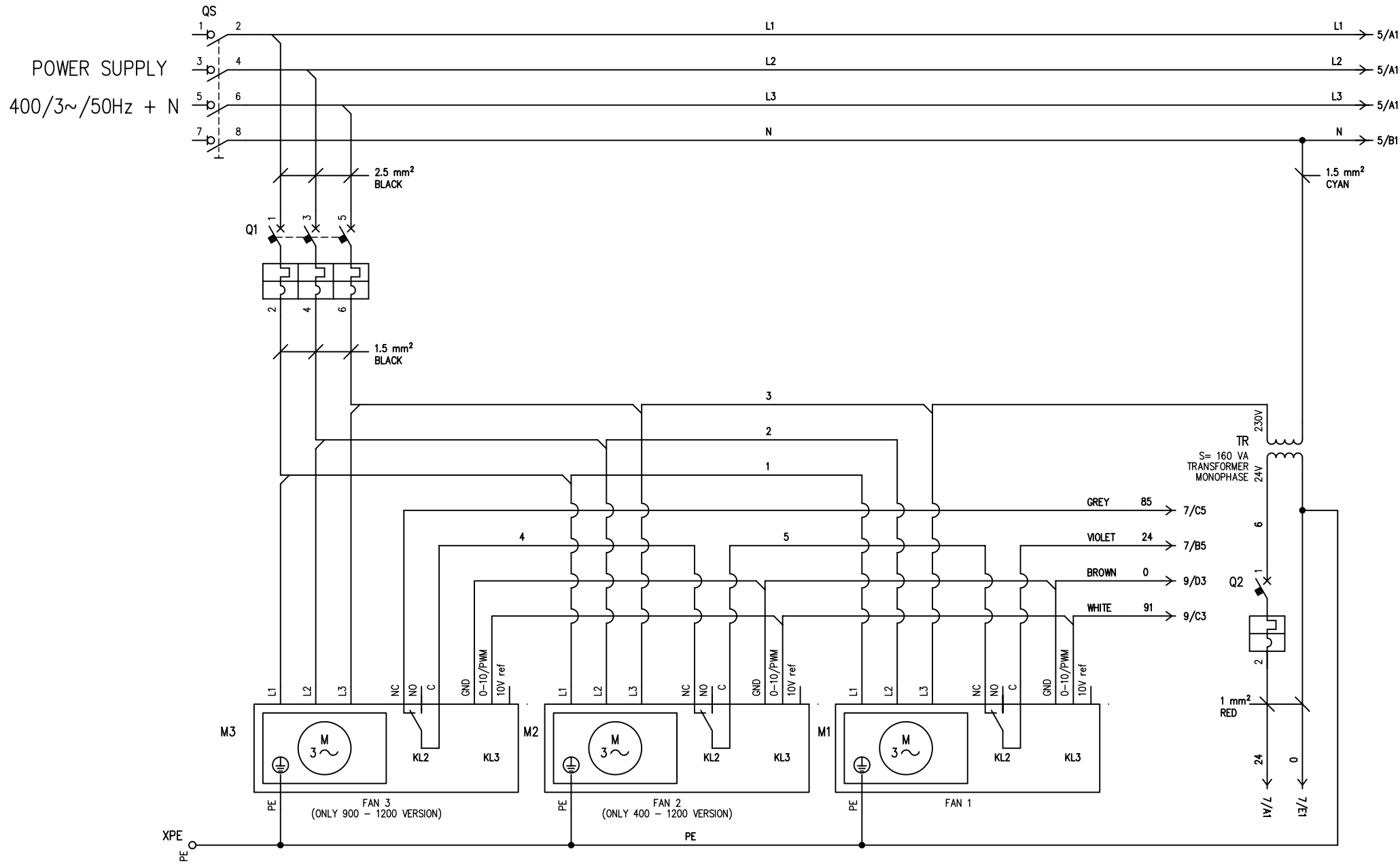


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A	1	2		3	4	5	6		7	8	A
	MODEL	POWER SUPPLY	MAX ABSORBED POWER (kW)	MAX ABSORBED CURRENT (A)	RLA (A)	MAIN SUGGEST PROTECTION gG FUSE TYPE	MIN SUGGEST CROSS SECTION LINE (mm²) VS MAX LENGTH (m) AIR TEMPERATURE 30°C - MULTICORE CABLE - CABLE INSIDE TUBE 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%		
	900-1000-1200 COOLING ONLY	LINE	6,9	10,8	/	20	4	185,6	2,5	116,7	
	900-1000-1200 COOLING + HUMIDIFIER ONLY	LINE	12,9	19,5	/	25	4	102,8	4	102,8	
	900-1000-1200 COOLING + HEATING ONLY	LINE	24,9	42,2	/	50	16	183,2	10	117	
B	900-1000-1200 COOLING + HEATING + HUMIDIFIER	LINE	30,9	50,9	/	63	25	234,6	16	151,9	B

C											C
D											D
E											E

				DATE 01/06/2012						HF620C1478		SHEET 3 OF 31
				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

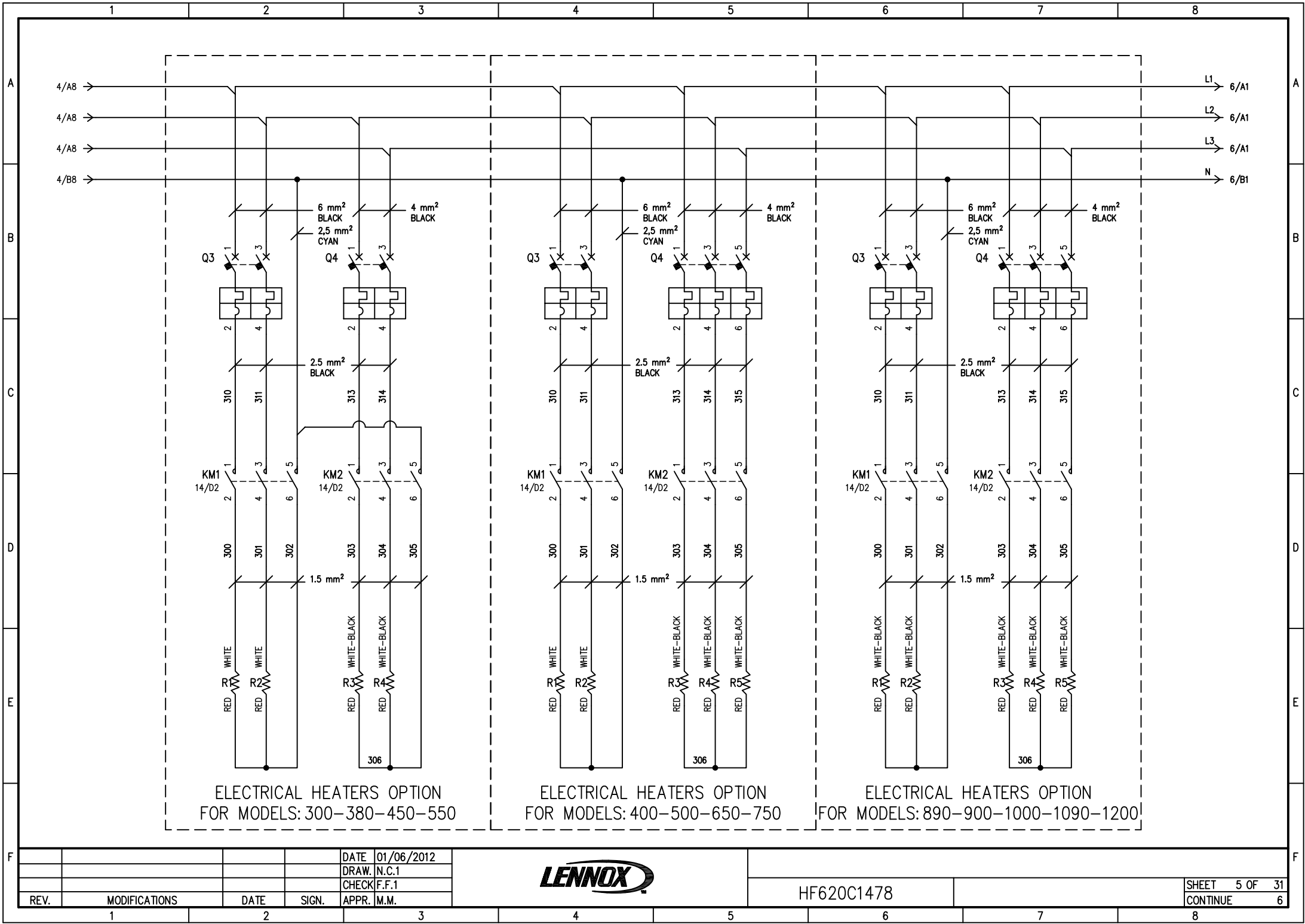


REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.

DATE 01/06/2012  
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 APPR. M.M.



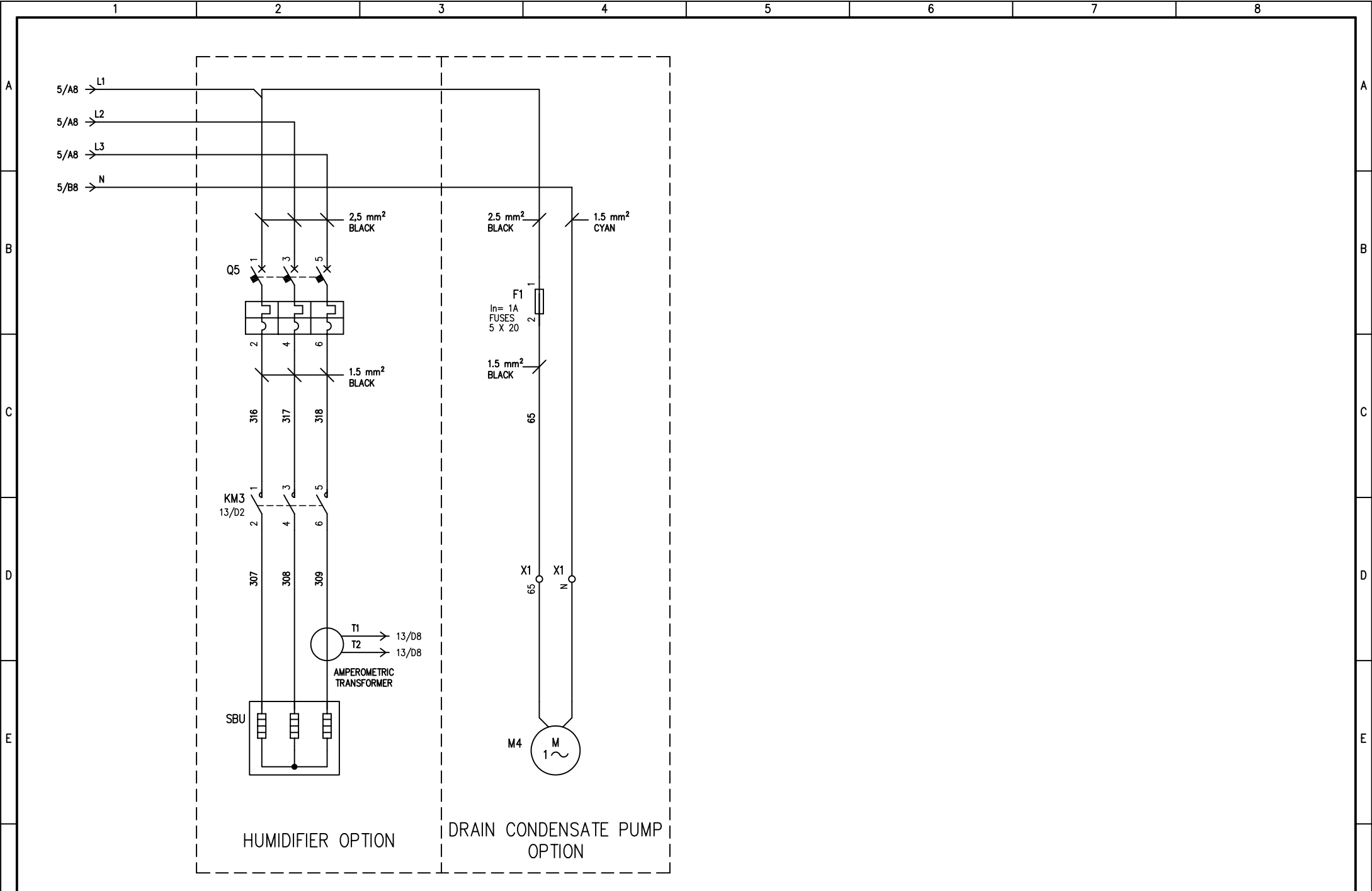
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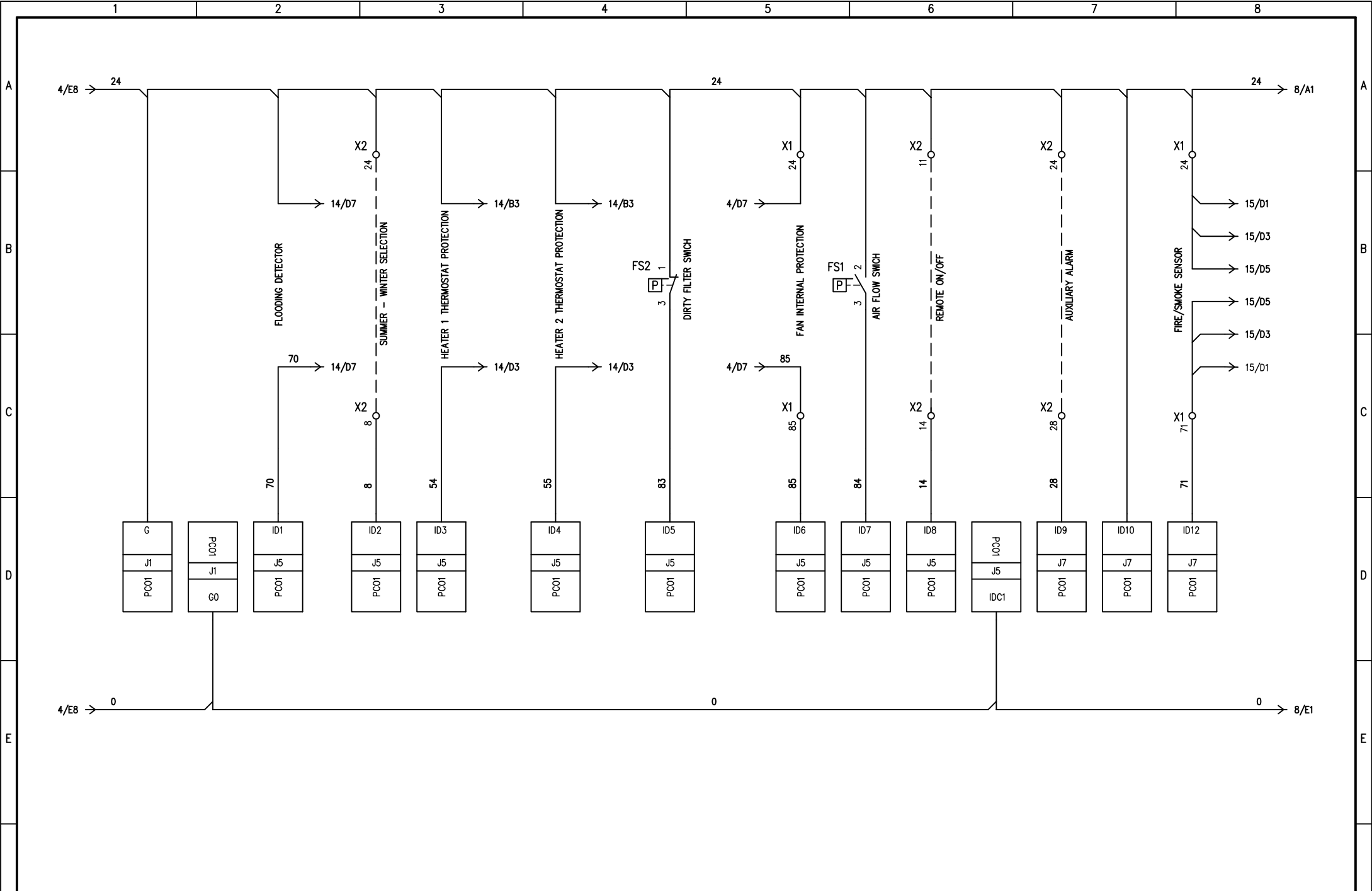


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DATE 01/06/2012  
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 APPR. M.M.



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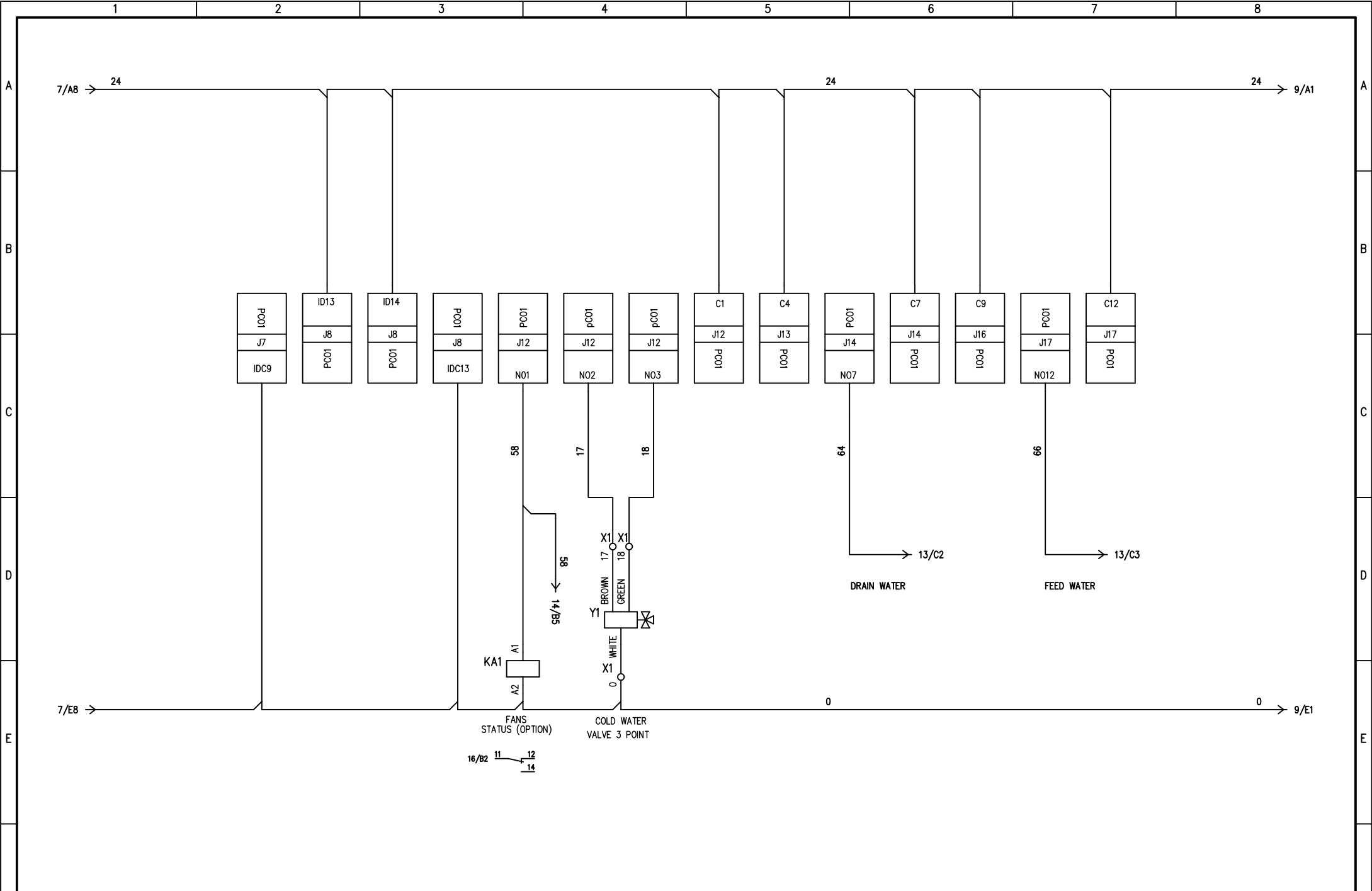


REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.

DATE 01/06/2012  
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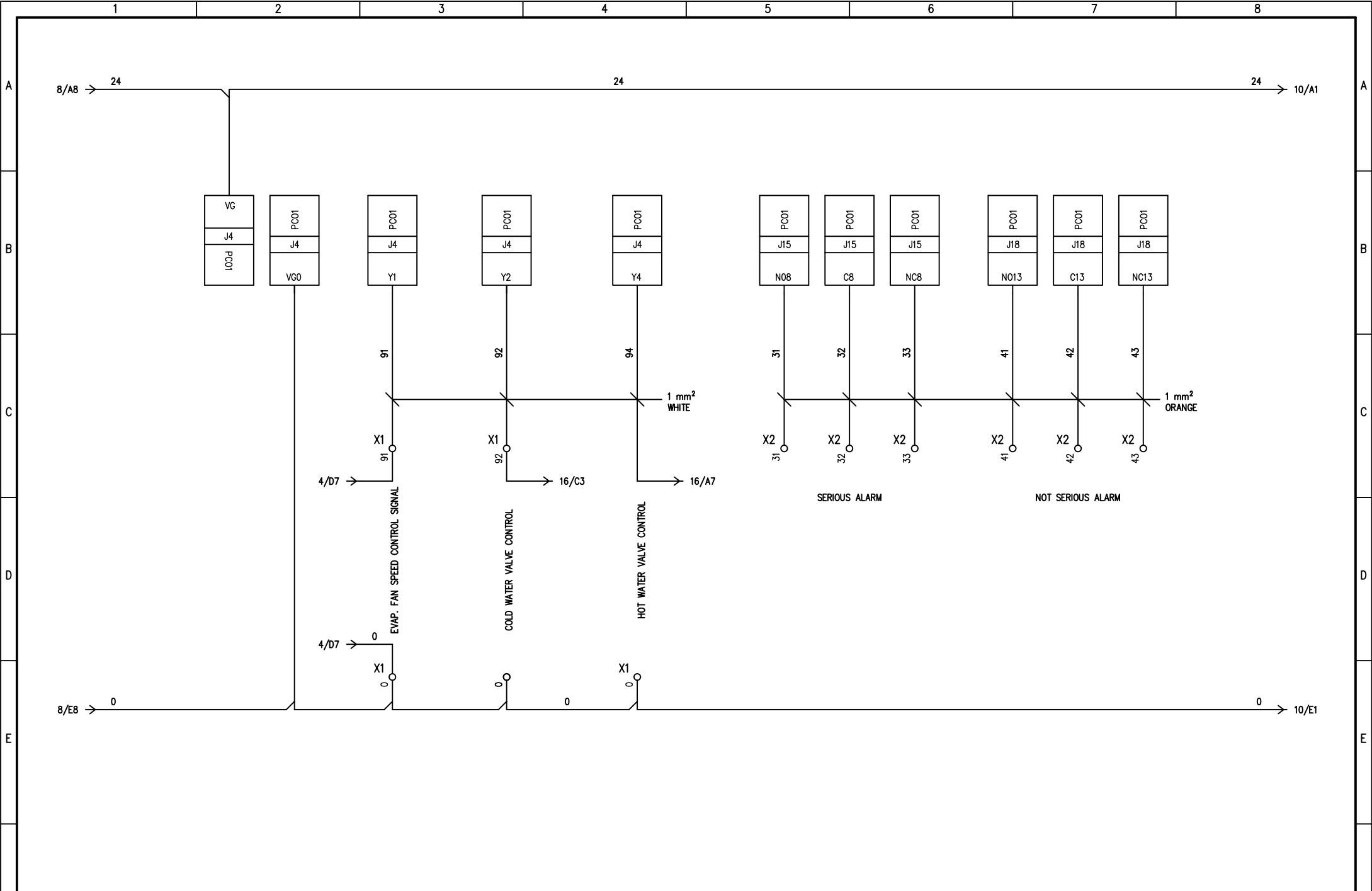
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DATE 01/06/2012  
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 APPR. M.M.



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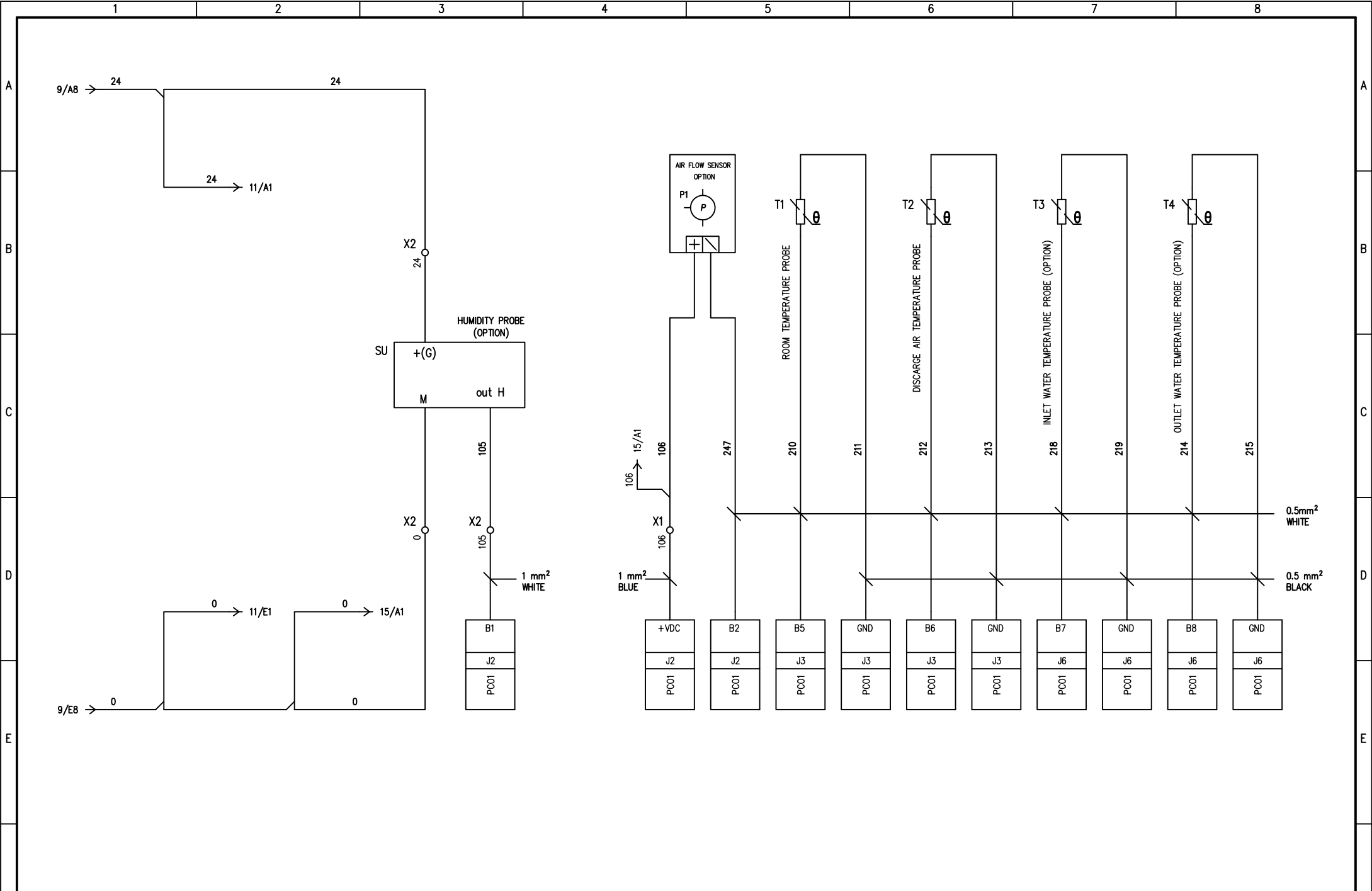


DATE 01/06/2012  
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REV.	MODIFICATIONS	DATE	SIGN.	APPR.
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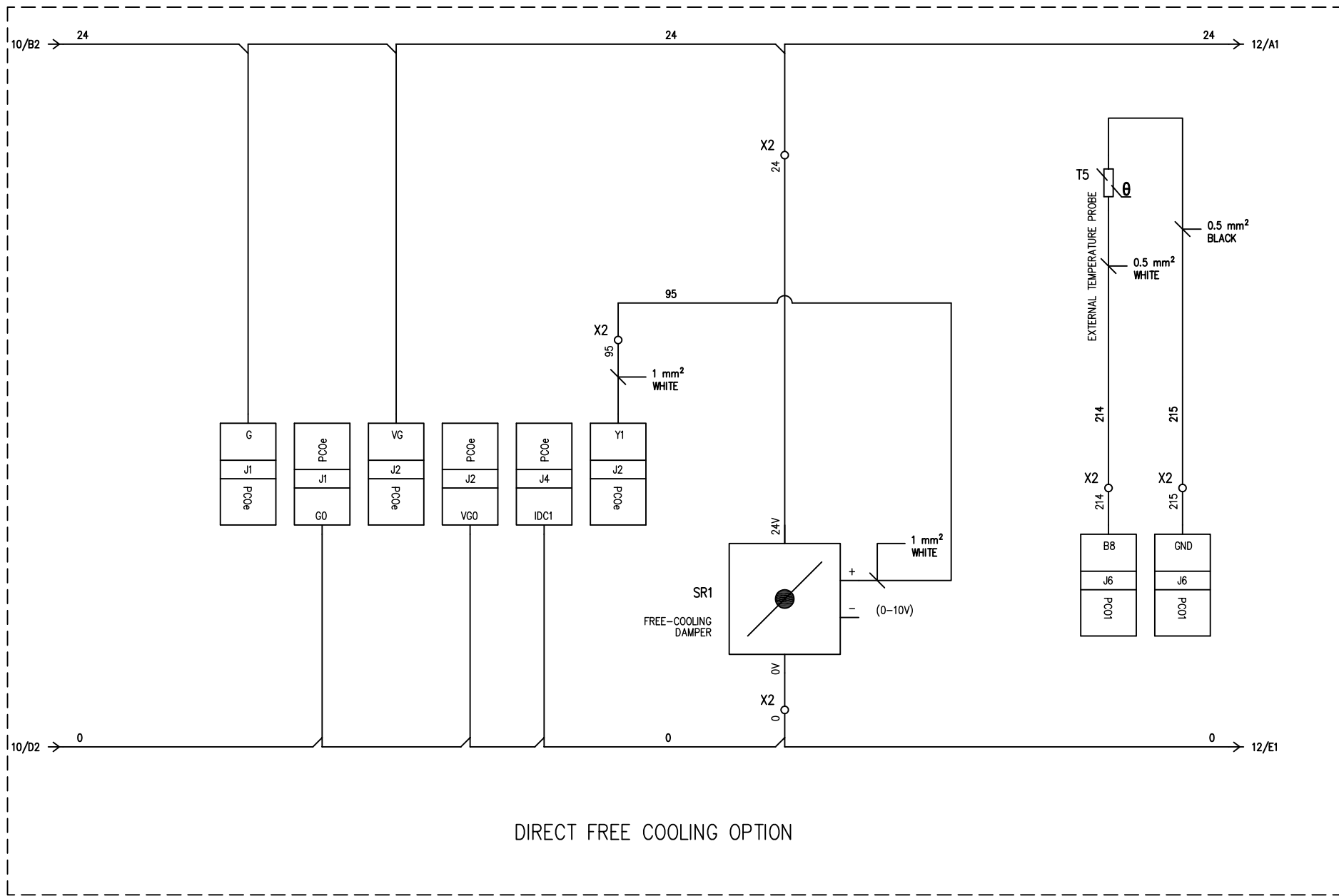


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DATE 01/06/2012  
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 CHECK F.F.1  
 APPR. M.M.



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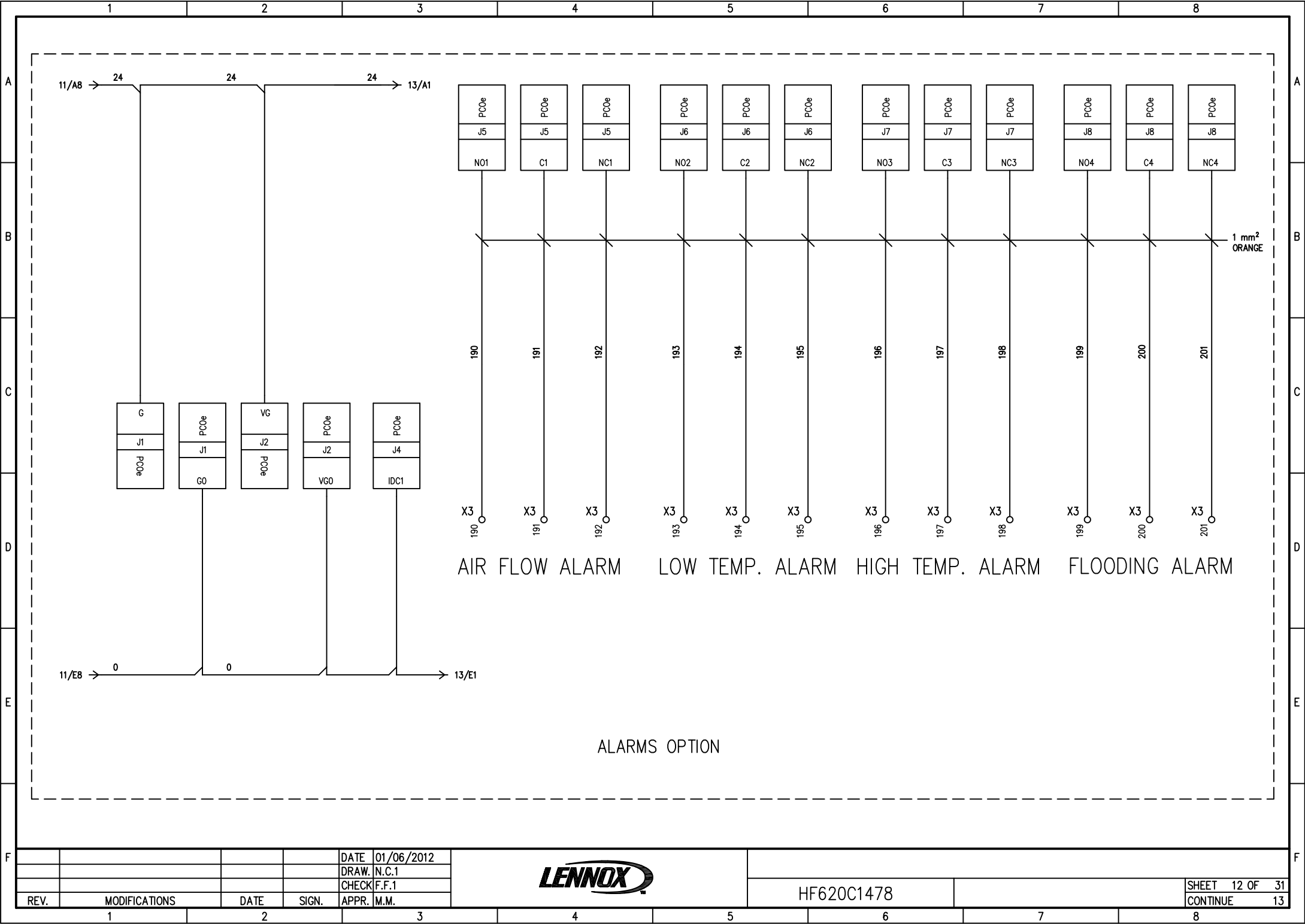
DIRECT FREE COOLING OPTION

REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.

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 DRAW. N.C.1  
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 APPR. M.M.



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

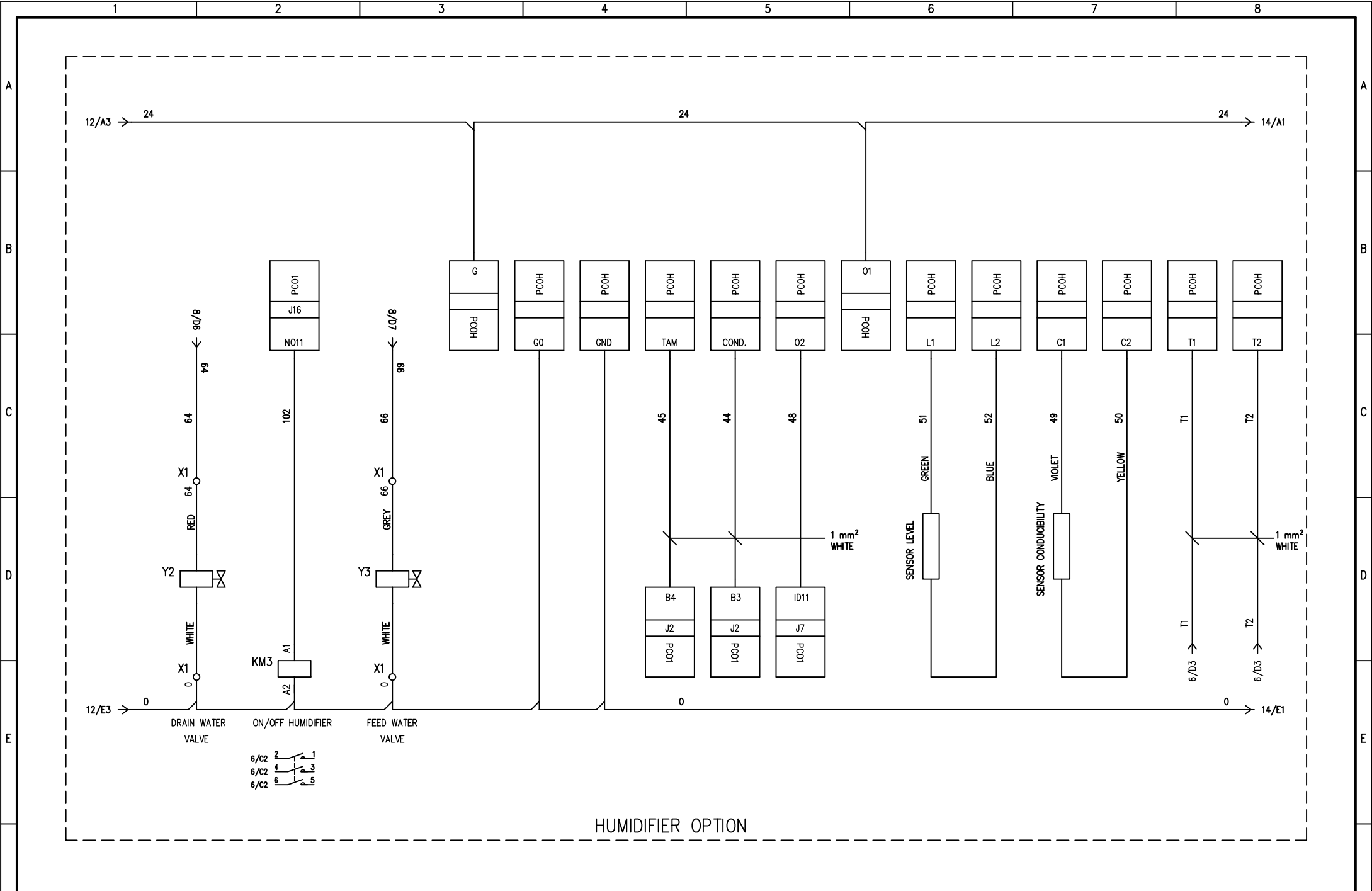
ALARMS OPTION

REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.

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 DRAW. N.C.1  
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 APPR. M.M.



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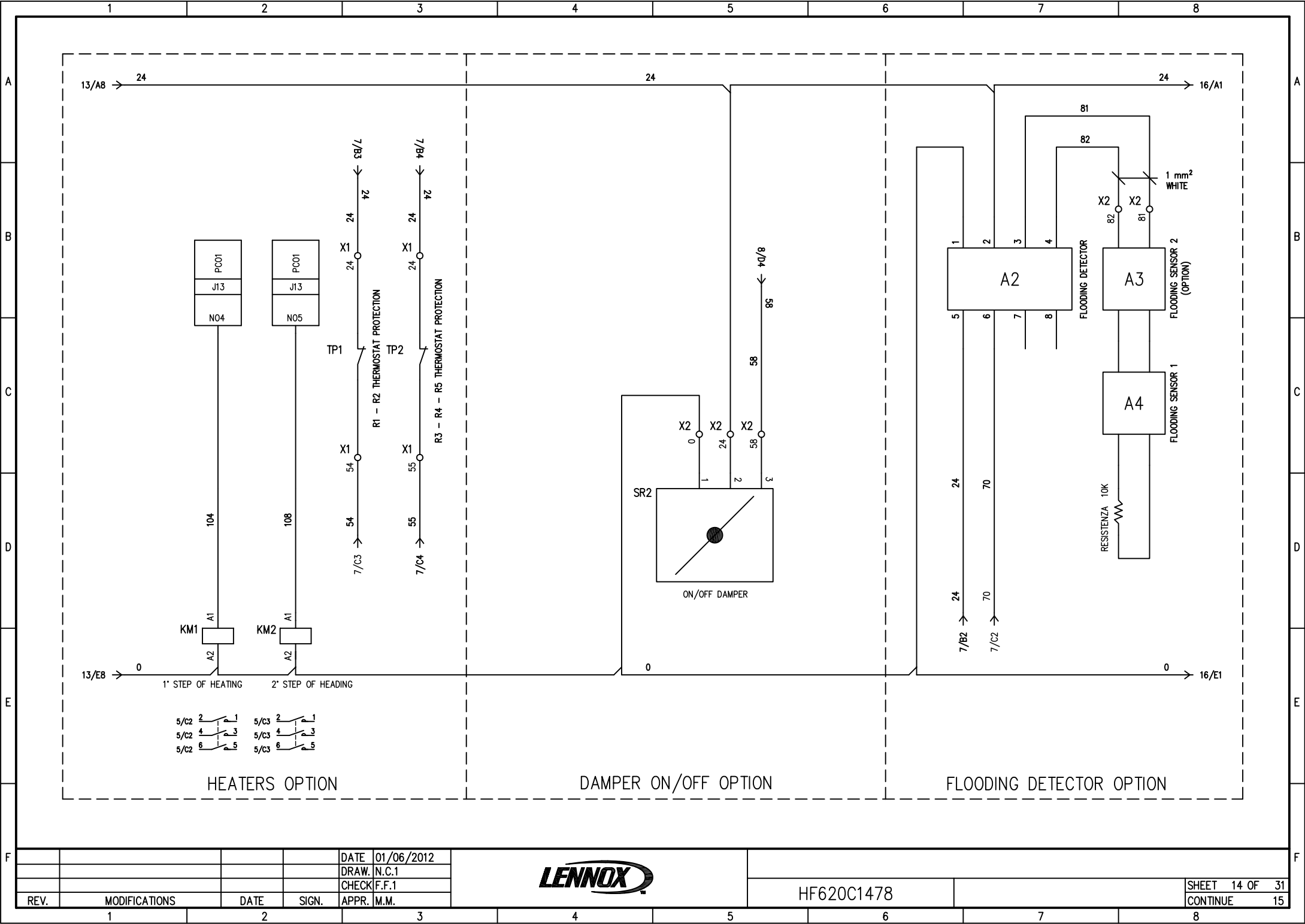


HUMIDIFIER OPTION

DATE	01/06/2012
DRAW.	N.C.1
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REV.	MODIFICATIONS
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APPR.	M.M.



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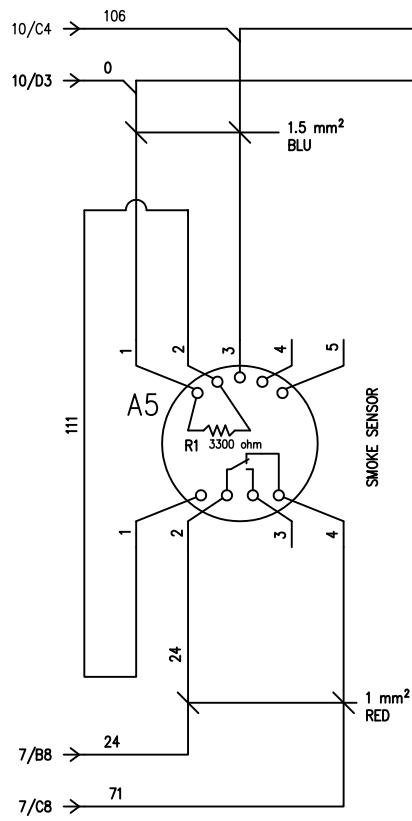


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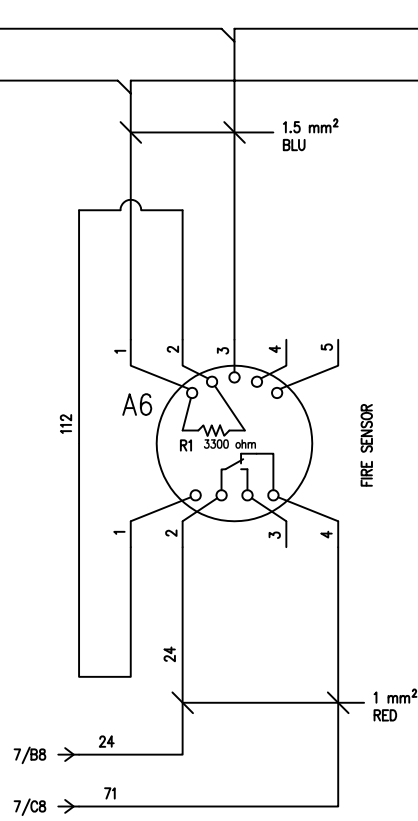
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 CHECK F.F.1  
 APPR. M.M.



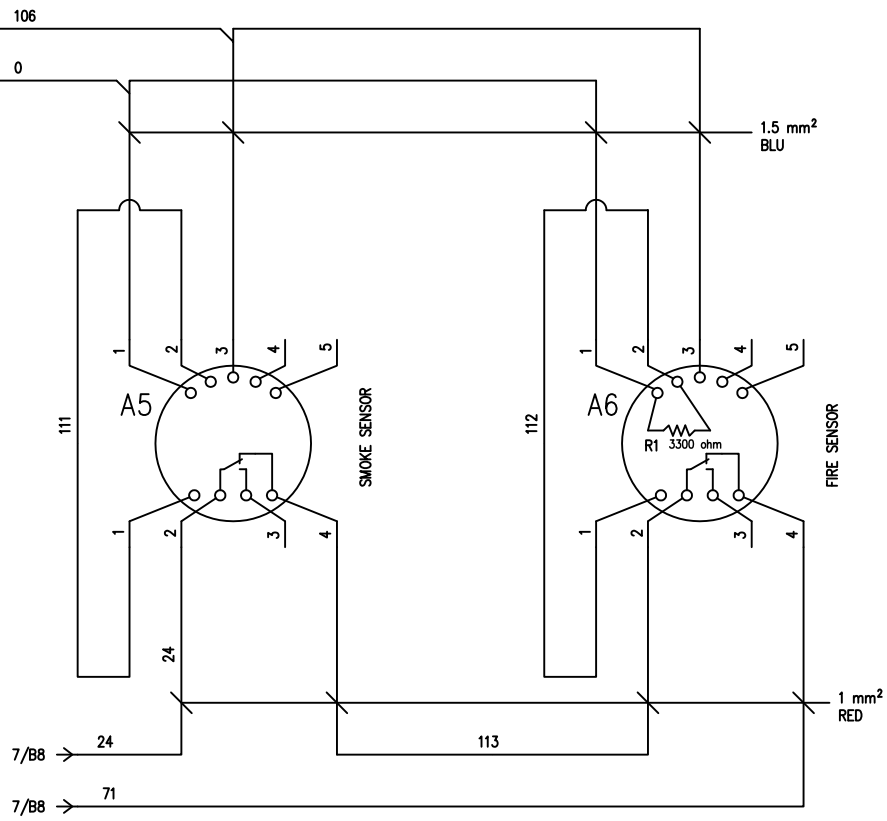
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SMOKE SENSOR OPTION



FIRE SENSOR OPTION



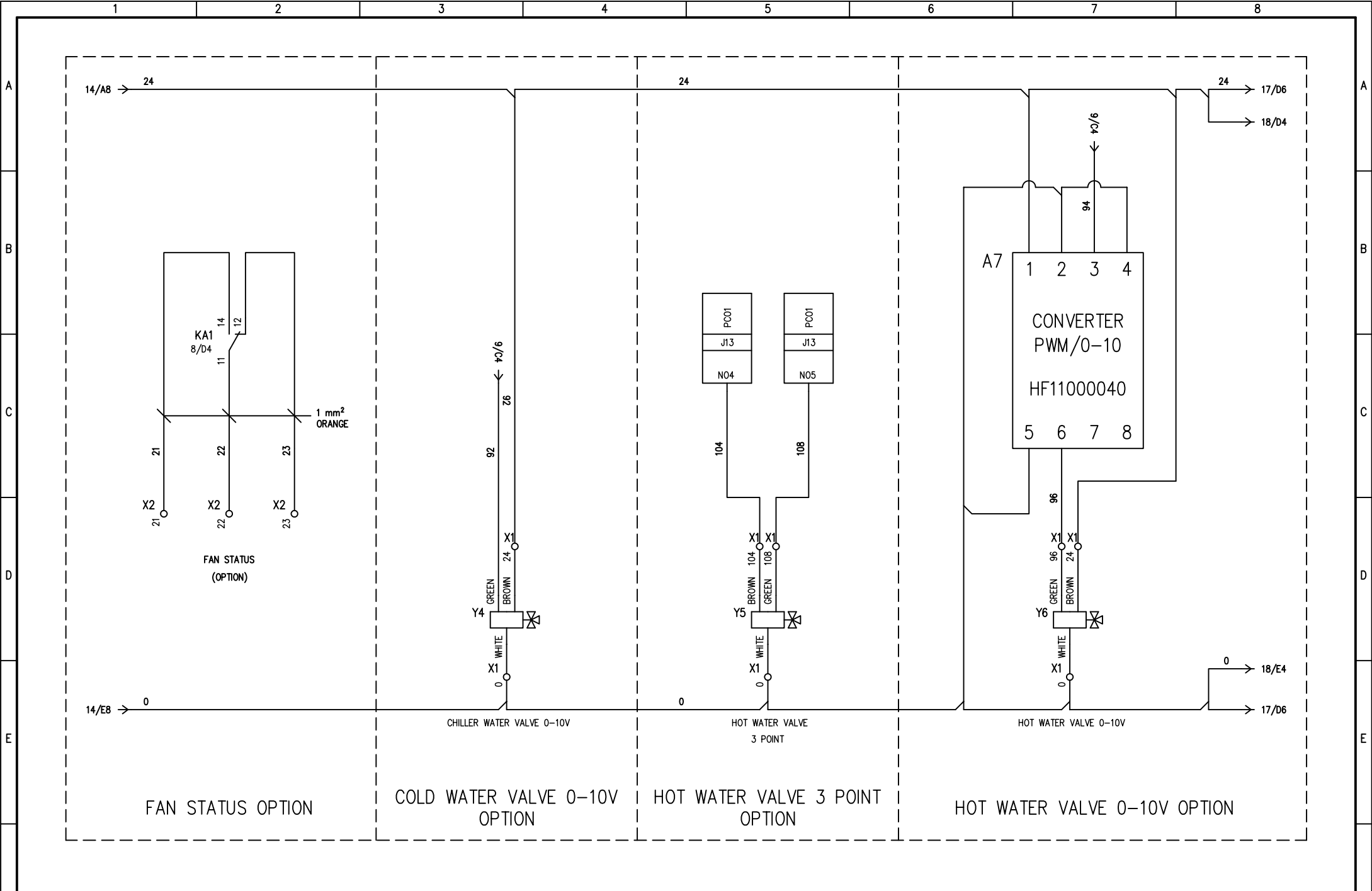
SMOKE/FIRE SENSOR OPTION

ONLY ONE OPTION EACH TIME

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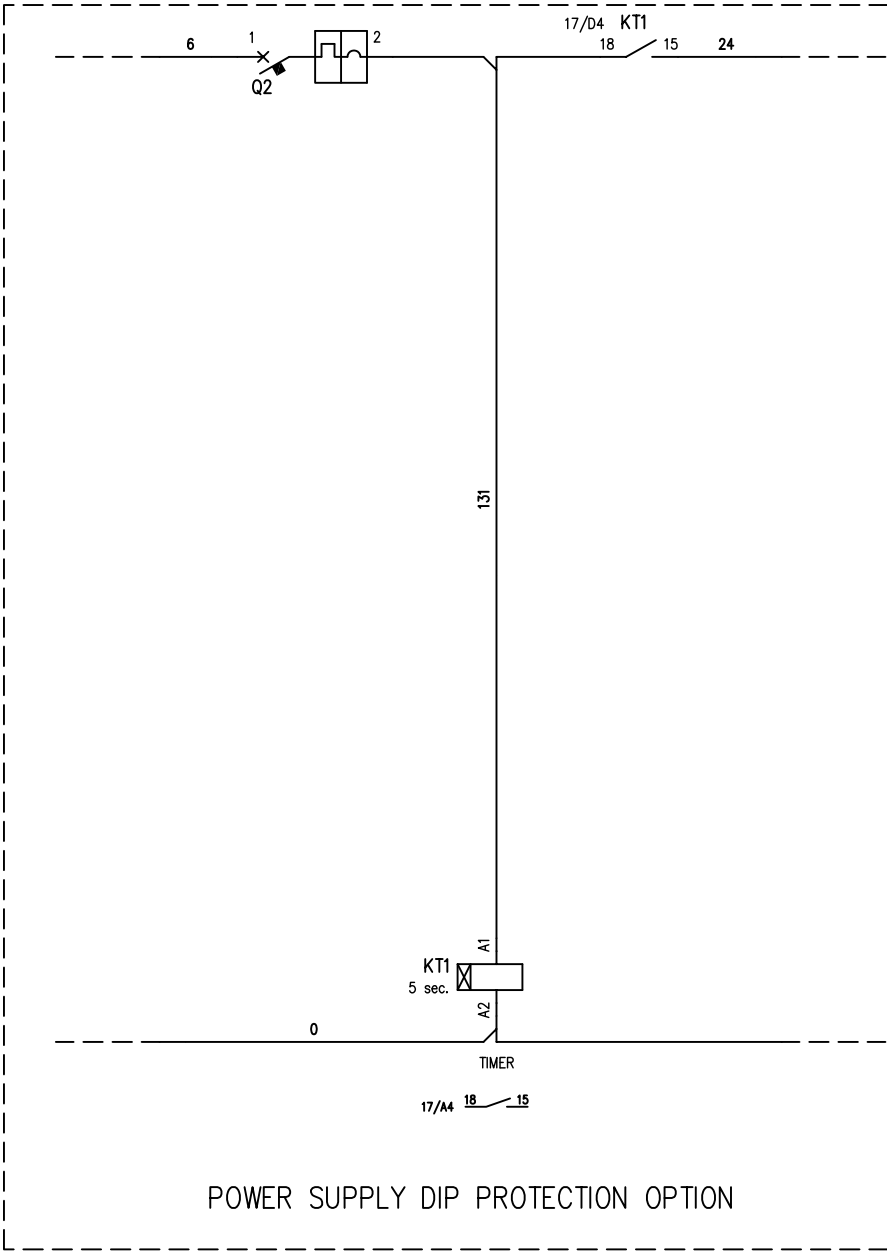


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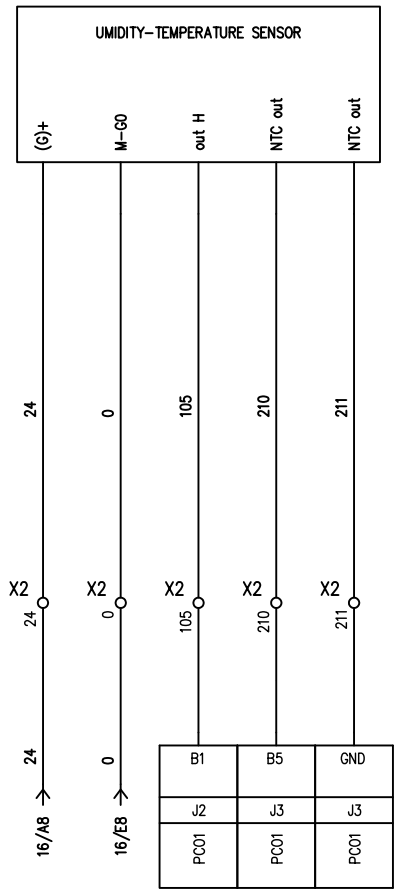


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POWER SUPPLY DIP PROTECTION OPTION



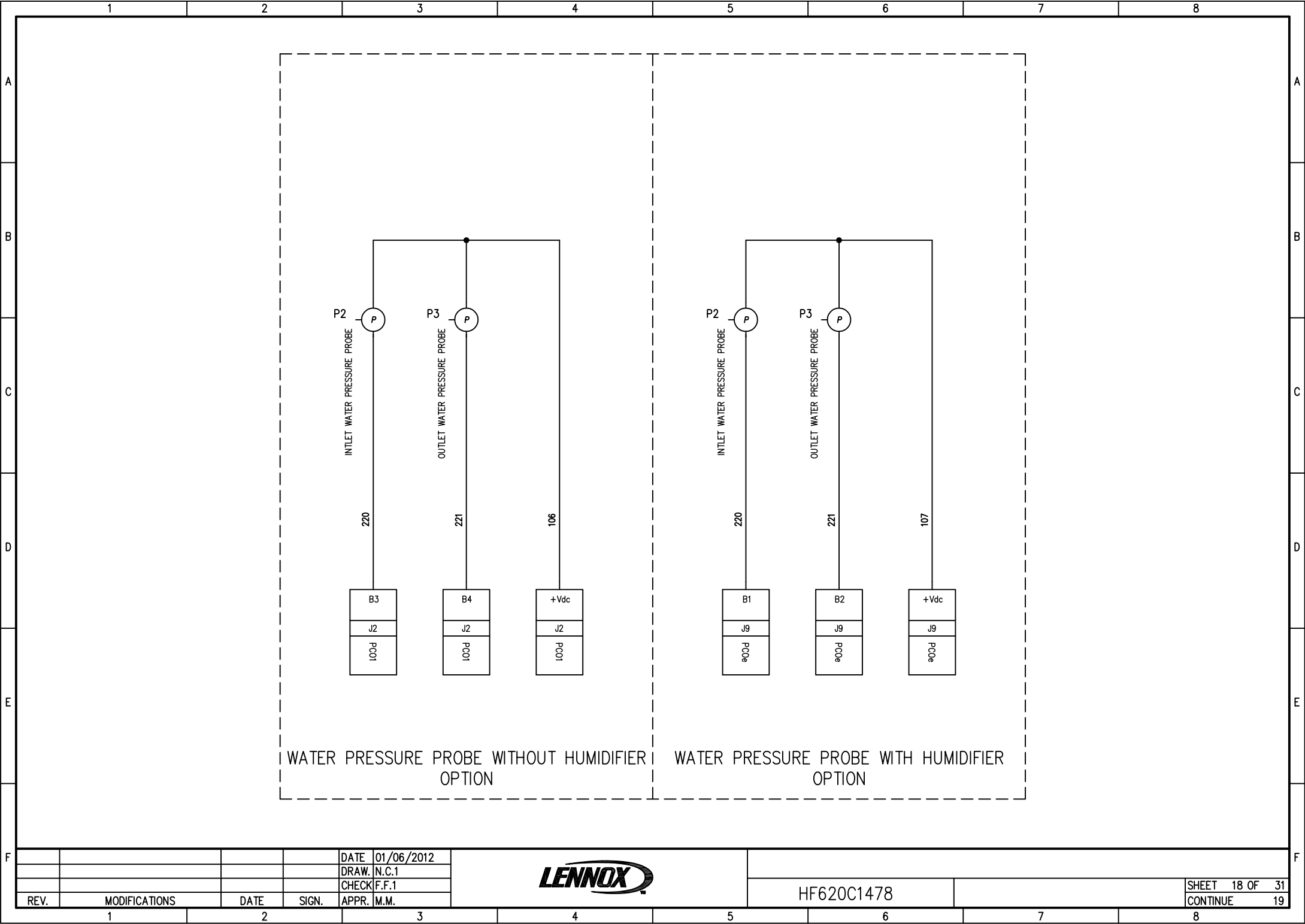
EXTERNAL HUMIDITY-TEMPERATURE  
SENSOR OPTION  
(REMOVE THE INTERNAL PROBE)

REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.
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2					
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APPR.	M.M.



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WATER PRESSURE PROBE WITHOUT HUMIDIFIER OPTION

WATER PRESSURE PROBE WITH HUMIDIFIER OPTION

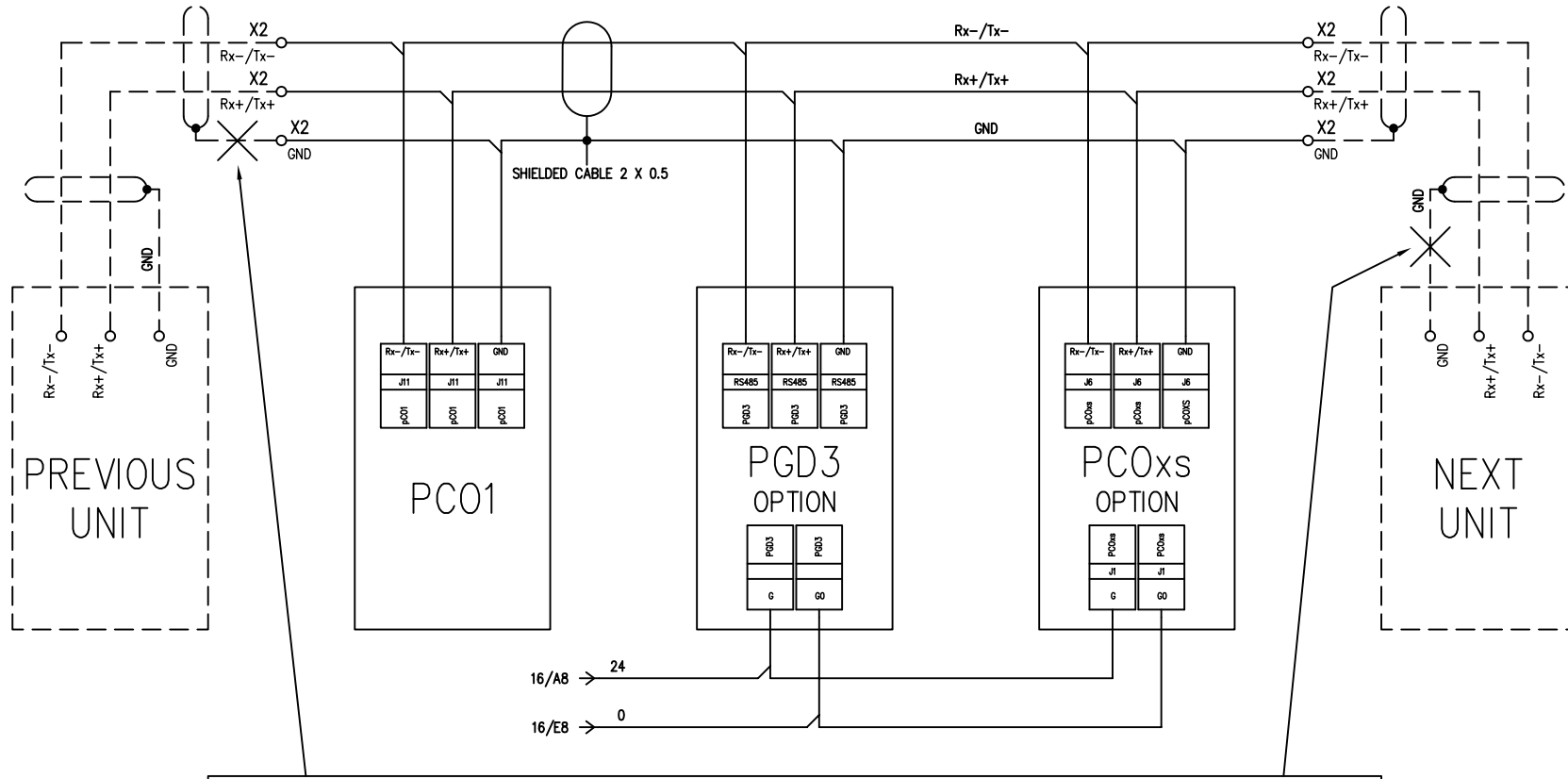
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.

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 CHECK F.F.1



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# pLAN CONNECTION




**DON'T CONNECT THE SHIELD**

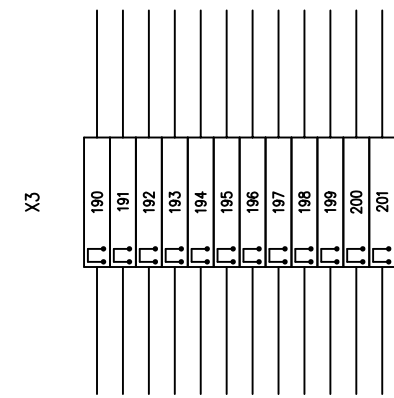
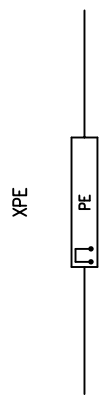
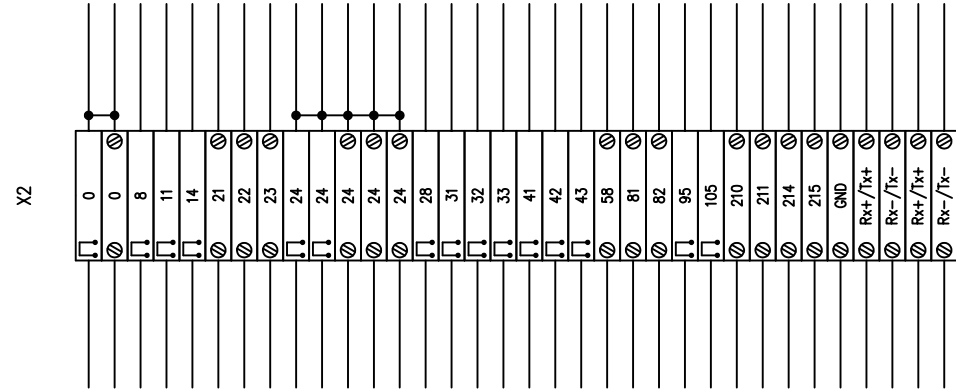
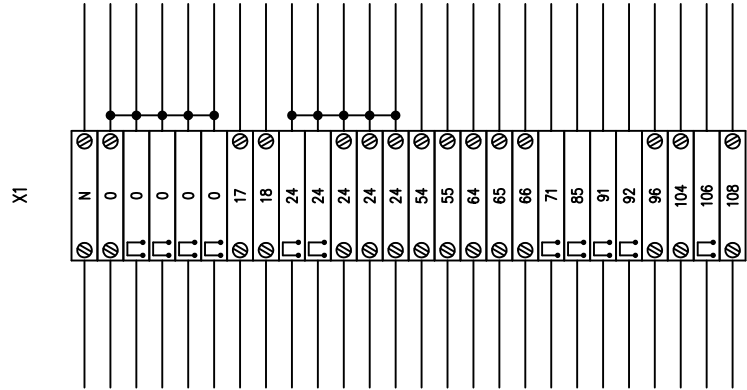
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.

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TERMINAL STRIP



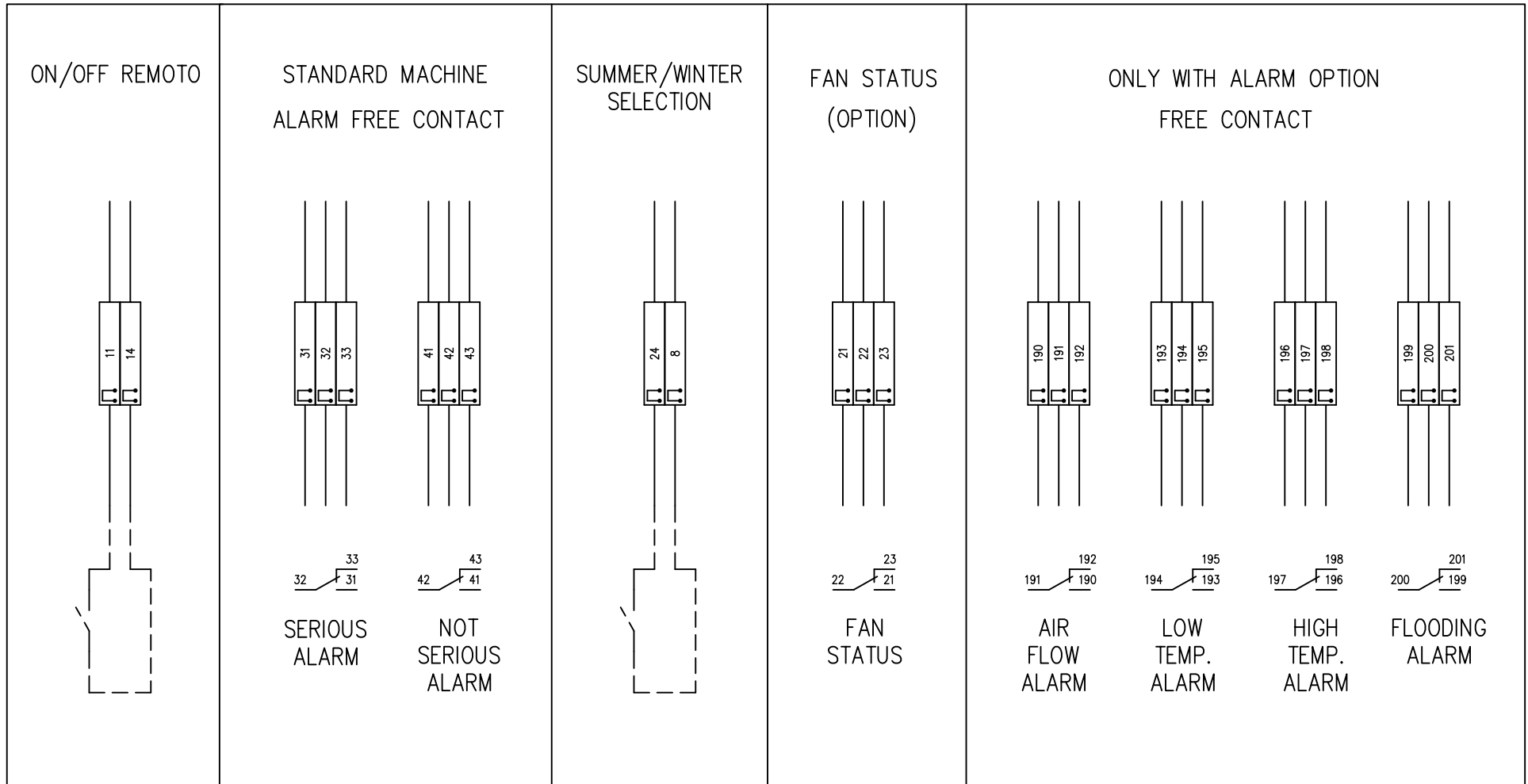
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.

DATE	01/06/2012
DRAW.	N.C.1
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# USER CONNECTION



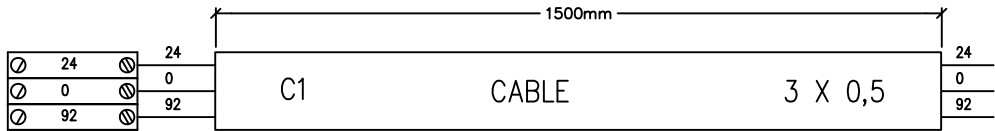
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.

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 DRAW. N.C.1  
 CHECK F.F.1  
 APPR. M.M.



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



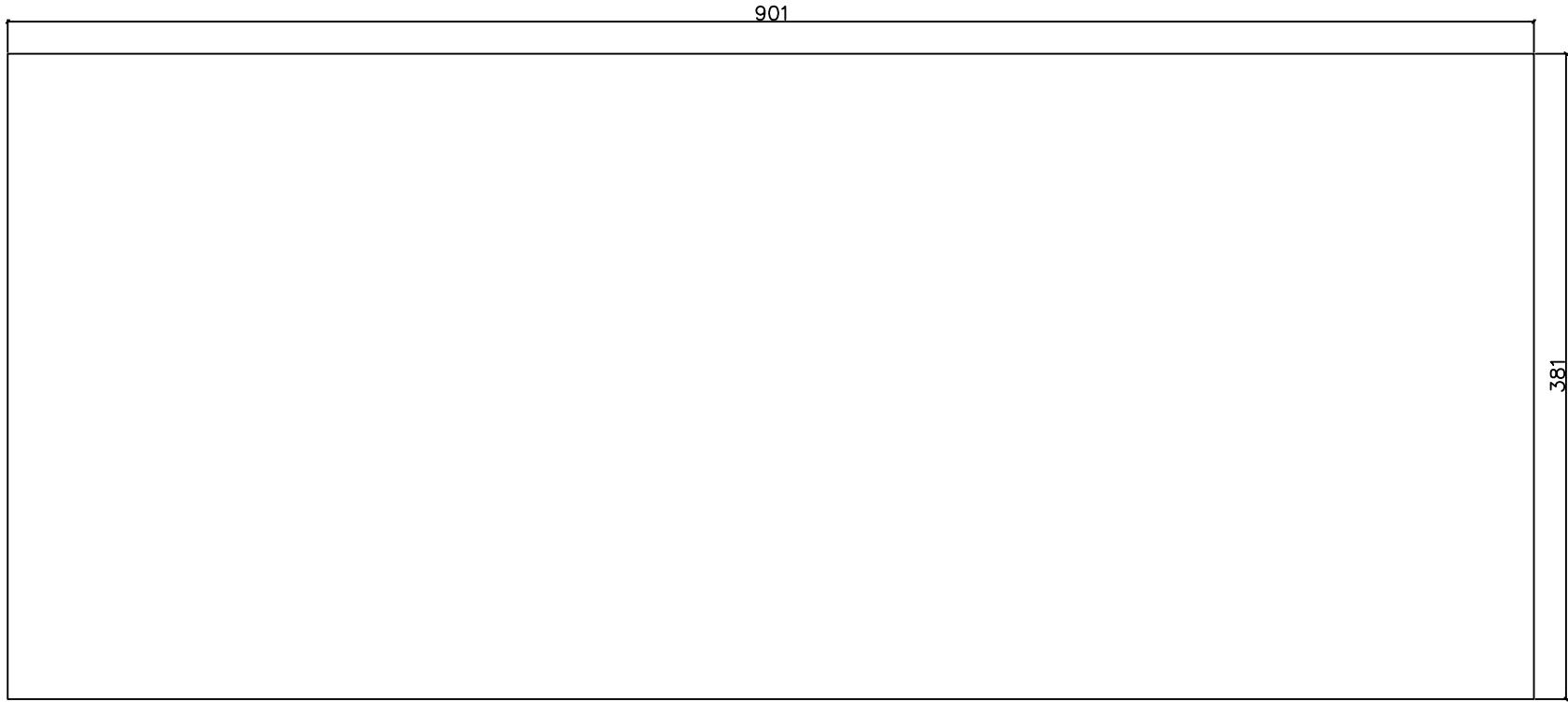
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.

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# GROUND PLATE LAYOUT



REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.

DATE 01/06/2012

DRAW. N.C.1

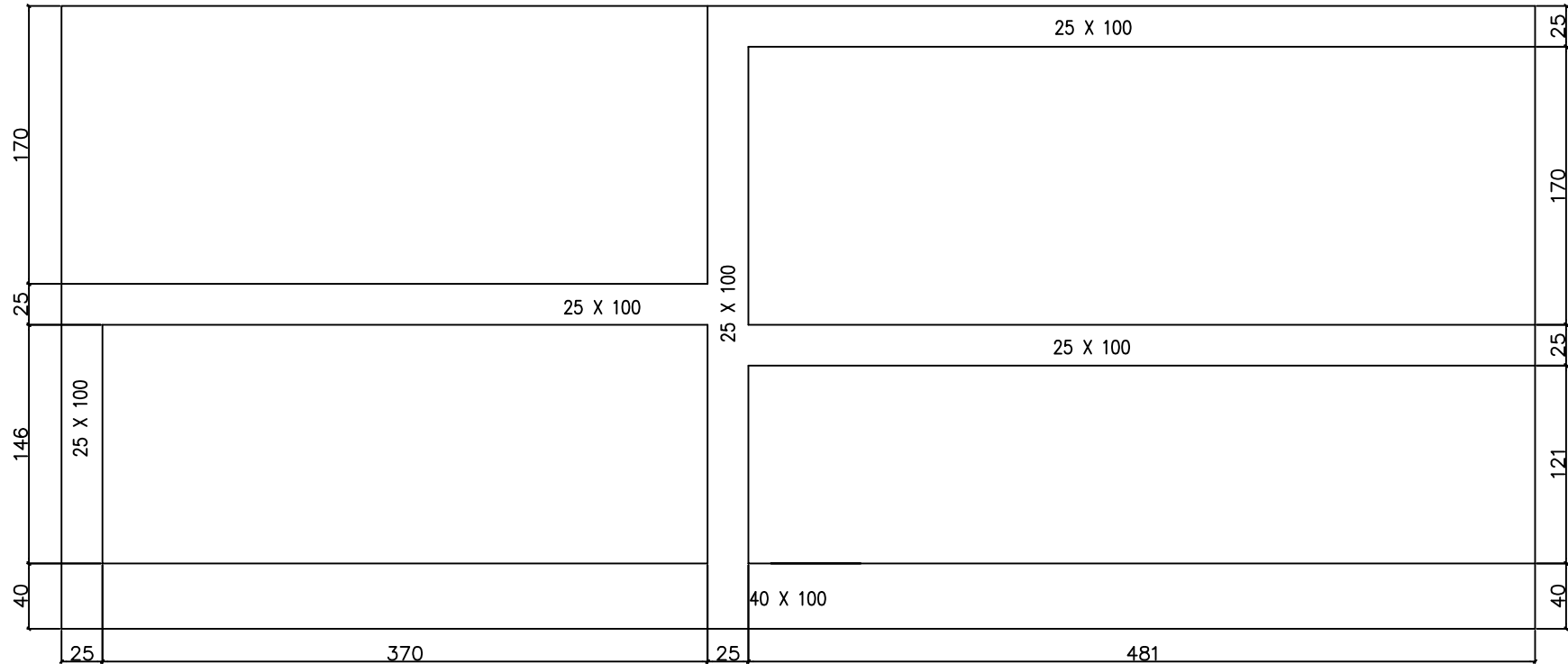
CHECK F.F.1



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CONTINUE 24

# CANAL DISTRIBUTION LAYOUT



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DRAW.	N.C.1
CHECK	F.F.1

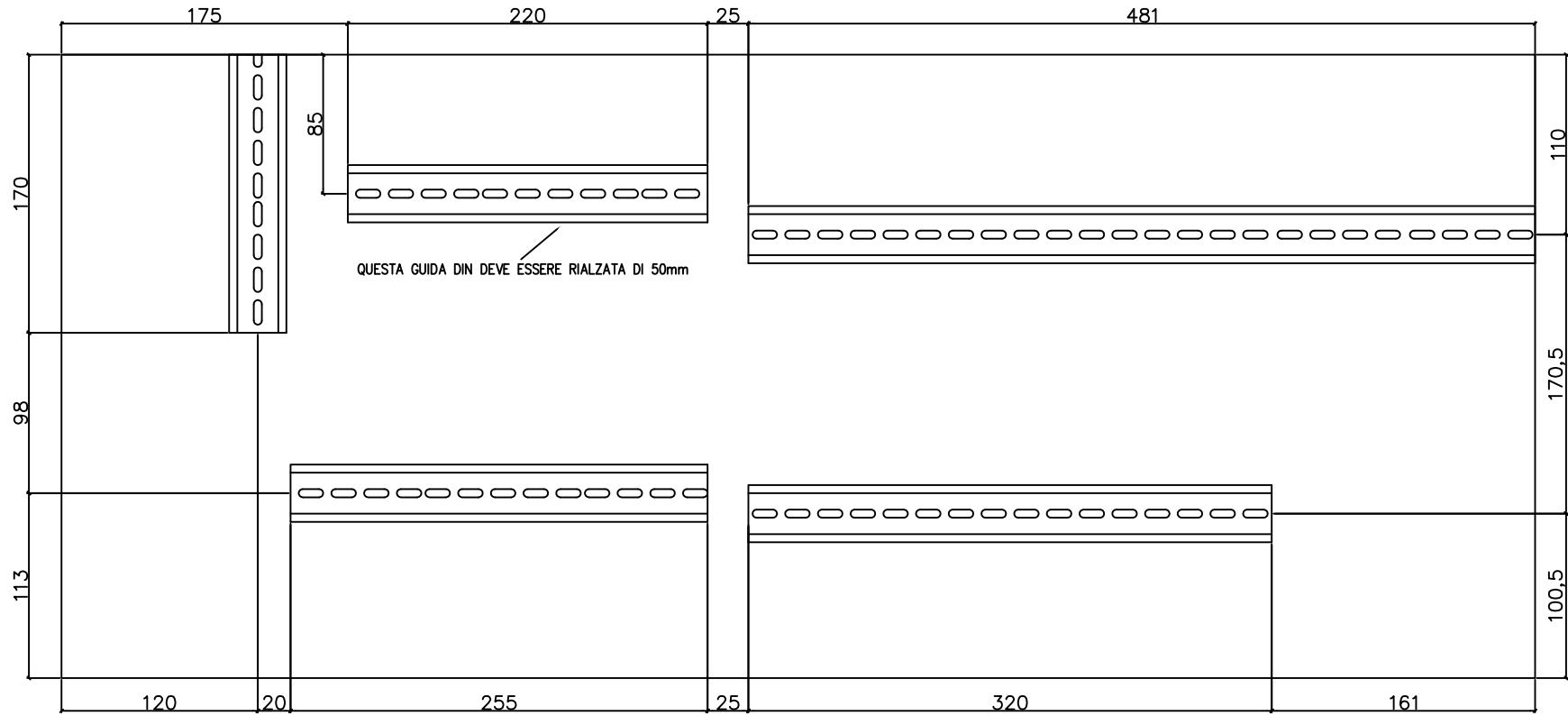


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# GUIDE DIN DISTRIBUTION LAYOUT

THE DIN RAIL SHOULD BE HIGH 5mm



QUESTA GUIDA DIN DEVE ESSERE RIALZATA DI 50mm

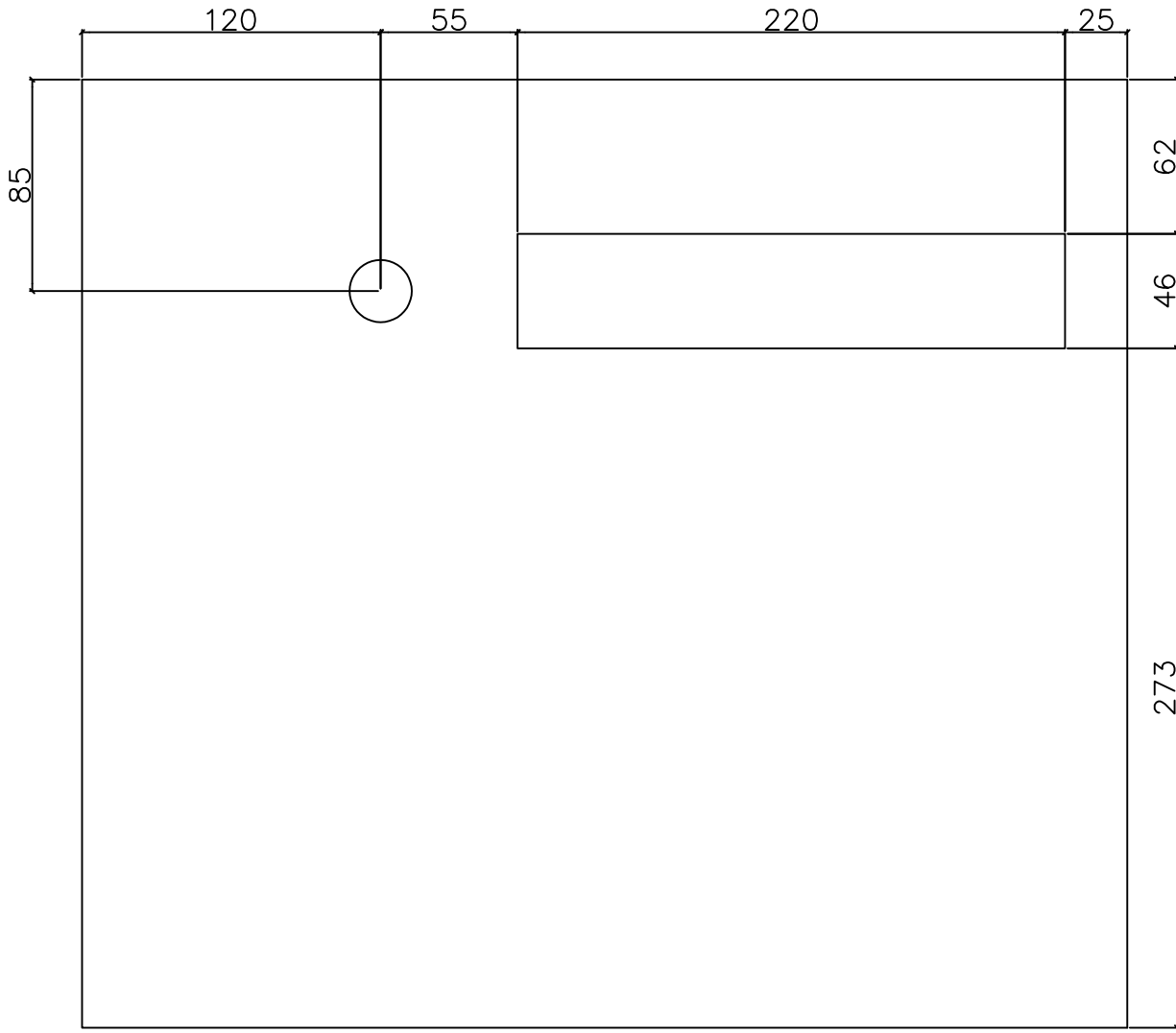
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.

DATE 01/06/2012  
 DRAW. N.C.1  
 CHECK F.F.1



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# PLEXIGLASS LAYOUT



DATE	01/06/2012
DRAW.	N.C.1
CHECK	F.F.1
APPR.	M.M.

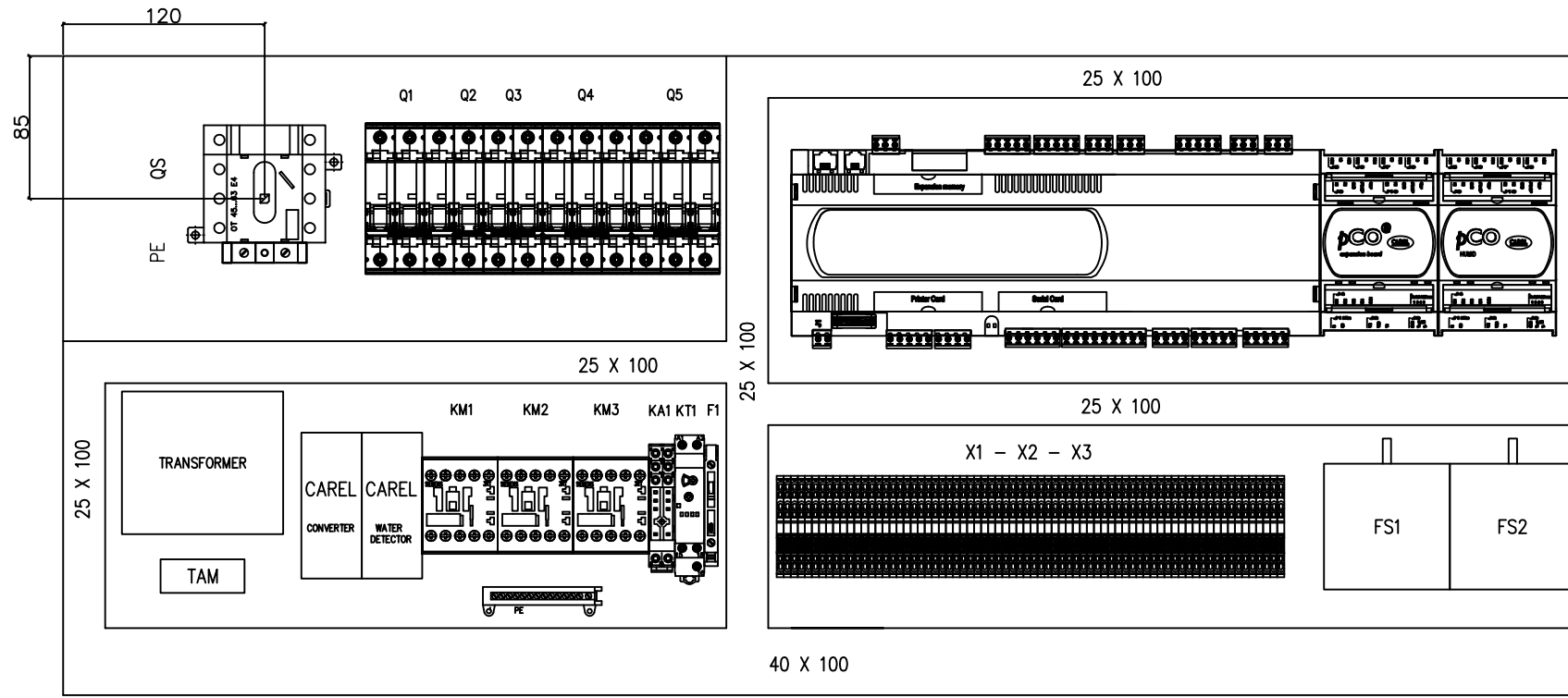


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REV.	MODIFICATIONS	DATE	SIGN.	APPR.
1		2		3

# DISTRIBUTION OF THE COMPONENTS IN ELECTRICAL PANEL LAYOUT

THE DISTANCE BETWEEN THE PLEXIGLASS AND THE BOTTOM PLATE MUST BE 100mm MAX



C1

DATE	01/06/2012
DRAW.	N.C.1
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REV.	MODIFICATIONS
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APPR.	M.M.



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REVISION HISTORY (ONLY FOR INTERNAL USE)

A

A

REVISION

DATE

MODIFICATIONS

BY

B

B

C

C

D

D

E

E

F

F

DATE	01/06/2012
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APPR.	M.M.



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CONTINUE		29

REV.

MODIFICATIONS

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STANDARD BILL OF MATERIALS

1	2	3	4	5	6	7	8
SYMBOL	FUNCTION	BRAND	CODE	DESCRIPTION	QUANTITY	M.U.	
QS	MAIN SWITCH	ABB	OT63E4+OHY2AJ+OXS6X85	MAIN SWITCH 4P In= 63A	1	PCE	
QS	TERMINAL COVER	ABB	OTS63T3 + OTS63T1	TERMINAL COVER 4P	1	PCE	
Q1	FANS PROTECTION	SIEMENS	5SY6 320-8	INT. AUT. 3P D 20A 6kA	1	PCE	
Q2	AUXILIARY CIRCUIT PROTECTION	SIEMENS	5SY6 106-7	INT. AUT. 1P C 6A 6KA	1	PCE	
X1 - X2	TERMINAL STRIP	PHOENIX	3031128	CLAMP ST 1,5-TWIN	60	PCE	
XPE	TERMINAL STRIP	PHOENIX	3044241	CLAMP UT 35-PE	1	PCE	
TR	TRANSFORMER	MARINI		TRANSFORMER Vin=230V / Vout=24V S=160VA	1	PCE	
	GROUND PLATE	HIREF	HF17001071	GROUND PLATE	1	PCE	
	GROUND BAR			GROUND BAR	1	PCE	

D


E

REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.		HF620C1478	SHEET 29 OF 31
								CONTINUE 30

1	2	3	4	5	6	7	8
HEATERS OPTION FOR MODELS: 300-380-450-550							
	SYMBOL	FUNCTION	BRAND	CODE	DESCRIPTION	QUANTITY	M.U.
A	Q3	HEATERS PROTECTION STEP 1	SIEMENS	5SY6220-7/HF40000733	INT. AUT. 2P C20A 6KA	1	PCE
	Q4	HEATERS PROTECTION STEP 2	SIEMENS	5SY6220-7/HF40000733	INT. AUT. 2P C20A 6KA	1	PCE
B	KM1	ON/OFF HEATER 1' STEP	SIEMENS	3RT1015-1AB01/HF40000742	CONTACTOR 3 KW 3P 400V BOB. 24V AC	1	PCE
	KM2	ON/OFF HEATER 2' STEP	SIEMENS	3RT1015-1AB01/HF40000742	CONTACTOR 3 KW 3P 400V BOB. 24V AC	1	PCE

HEATERS OPTION FOR MODELS: 400-500-650-750-890-900-1000-1090-1200							
	SYMBOL	FUNCTION	BRAND	CODE	DESCRIPTION	QUANTITY	M.U.
C	Q3	HEATERS PROTECTION STEP 1	SIEMENS	5SY6220-7/HF40000733	INT. AUT. 2P C20A 6KA	1	PCE
	Q4	HEATERS PROTECTION STEP 2	SIEMENS	5SY6320-7/HF40000735	INT. AUT. 3P C20A 6KA	1	PCE
D	KM1	ON/OFF HEATER 1' STEP	SIEMENS	3RT1015-1AB01/HF40000742	CONTACTOR 3 KW 3P 400V BOB. 24V AC	1	PCE
	KM2	ON/OFF HEATER 2' STEP	SIEMENS	3RT1015-1AB01/HF40000742	CONTACTOR 3 KW 3P 400V BOB. 24V AC	1	PCE

HUMIDIFIER OPTION							
	SYMBOL	FUNCTION	BRAND	CODE	DESCRIPTION	QUANTITY	M.U.
E	Q5	HUMIDIFIER PROTECTION	SIEMENS	5SY6316-7/HF40000730	INT. AUT. 3P C16A 6KA	1	PCE
	KM3	ON/OFF HUMIDIFIER	SIEMENS	3RT1015-1AB01/HF40000742	CONTACTOR 3 KW 3P 400V BOB. 24V AC	1	PCE

REV.		MODIFICATIONS	DATE	SIGN.	APPR.	M.M.			HF620C1478		SHEET 30 OF 31 CONTINUE 31	
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UNIT STATUS RELAY OPTION

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

CONDENSATE DRAIN PUMP OPTION

SYMBOL	FUNCTION	BRAND	CODE	DESCRIPTION	QUANTITY	M.U.
F1	PUMP PSC PROTECTION	ITALWEBER	0101001	FUSE IN CLASS 5 X 20 In= 1A	1	PCE
F1	FUSE BOX	PHOENIX	3004100	FUSE BOX 5 X 20	1	PCE

