



**CARATTERISTICHE ELETTRICHE  
ELECTRIC CHARACTERISTIC**

SERIES	DHCU/DR 080...230.....pC01
MODELL	080-230 400V
ELECTRIC CHARACTERISTIC	

**VERS.**

"F"= SOLO FREDDO-ONLY COOLING  
 "F+C"= FREDDO/CALDO-ONLY COOLING/HEATING  
 "F+U"= FREDDO/UMIDITA'-COOLING/HUMIDITY  
 "F+C+U"= FREDDO/CALDO/UMIDITA'- COOLING/HEATING/HUMIDITY

D	REVISIONE GENERALE	12/12/2008	C.N.	DATE	11/09/2006						
E	REVISIONE LAYOUT	07/02/2009	C.N.	DRAW.	POLIDO						
F	AGG. DAMPER ON/OFF	07/02/2009	C.N.	CHECK	POLIDO						
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.	REPLACE	REPLACE	ORIGIN:	HF620C0561	SHEET 1 OF 23	
										CONTINUE 2	



SIGN.	Descriptions	Note
AP1	PRESSOSTATO DI ALTA HIGH PRESSURE P-STAT PRESSOSTAT HAUTE PRESSION DRUCKSCHALTER, HOCHDRUCK PRESOSTATO DE ALTA	
KA3	RELE' ALTA HI-PRESSURE RELAIS RELAIS HAUTE PRESSION RELAIS HOCHDRUCK RELE DE ALTA	
KM1	CONTATTORI COMPRESSORE COMPRESSOR CONTACTORS CONTACTEUR COMPRESSEUR SCHUTZ VENDICHTER CONTACTOR DEL VENTILADOR	
KM3	CONTTATORE UMIDIFICATORE HUMIDIFIER CONT. CONT. HUMIDIFICATEUR BEFEUCHTER VERSORGUNG CONT. HUMIDIFICADOR	
KM4	CONTATTORE MOTOVENTILATORE FAN MOTOR CONTACTOR CONTACTEUR VENTILATEUR VENTILATOR SCHUETZ CONTACTOR DEL MOTOVENTILADOR	
KM5 KM6	RISCALDAMENTO ELETTRICO EL. HEATERS CHAUFFAGE ELETTRIQUE ELETR. HAIZUNG RESISTENCIAS ELETRICAS	
C1 C2	COMPRESSORE COMPRESSOR COMPRESSEUR KOMPRESSOR COMPRESOR	
TR	TRASFORMATORE TRANSFORMER TRANSFORMATEUR TRANSFORMATOR TRANSFORMADOR	
QS	INTERRUTTORE GENERALE MAIN SWITCH INTERRUPTEUR GENERAL HAUPTSCHALTER INTERRUPTOR GENERAL	
M1 M2 M3	MOTOVENTILATORE EVAPORANTE EVAP. FAN MOTOR MOTEUR VENTILATEUR DE EVAP. EVAP.-LUEFTER MOTOVENTILADOR EVAPORADORA	
CN1	COND. DI RIFASAMENTO POWER FACT. CORRECTION COND. CORRECT. COS. PHI KOND. KORR. COS. PHI COND. DE COMP. DE FASES	

SIGN.	Descriptions	Note
RSF	RELE' SEQUENZA FASE PHASE SEQUENCE CONTROL RELAY RELAIS DE CONTROLE DE PHASE D'ETAGE STEUERRELAIS FUER PHASENFOLGE RELE' CONTROL SECCUENCIA FASES	
SR1	SERRANDA DAMPER REGISTRE MOTORISIESTE COMPUERTA	
FS1	PRESSOSTATO FLUSSO ARIA AIR FLOW PRESSURE SWITCH PRESSOST. D'ENCRASSEMENT DE FILTRE DRUCKSCHALTER NIEDERDRUCK PRESOSTATO DE BAJA	
TP1 TP2	TERMOSTATO SICUREZZA RISCALDAMENTO HEATING SAFETY THERMOSTAT THERMOSTAT DE SECURITE' CHAUFFAGE THERMOSTATE ELEKTROHEIZUNG THERMOSTATO DE SEGURIDAD DE LAS RESISTENCIAS	
P1	PRESIONE CONDENSAZIONE CONDENSING PRESSION SENSOR SONDE DU PRESSION DE CONDENSATION KONDENSATIONSDRUCK-FUEHLER SONDA PRESSION CONDENSACION	
SA	TEMPERATURA AMBIENTE INTERNO SHELTER INTERNAL AIR TEMPERATURE SENSOR SONDE TEMPERATURE D'AIR INTERIOR AUSSENER LUFTTEMP.-FILTER SONDA DE TEMPERATURA DE LA DESCARGA DE AIRE	
SM	TEMPERATURA ARIA IN MANDATA DISCHARGE AIR TEMPERATURE SONDE DE TEMPERATURE ZULUFTTEMPERATUR TEMP. DE LA DISCARGA DE AIRE	
SE	TEMPERATURA ARIA ESTERNA OUTDOOR AIR SENSOR SONDE D'AIR EXTERNE AUSSENLUFTUEHLER SONDA DE AIRE EXTERNA	
BP1	PRESSOSTATO DI BASSA LOW PRESSURE P-STAT PRESSOSTAT BASSE PRESSION DRUCKSCHALTER NIEDEDRUCK PRESOSTATO DE BAJA	
K1	REGOLATORE DI VELOCITA' SPEED CONTROLLER REGULATEUR DE VITESSE VENTILATOR/DREHZAHLEGLER REGULADOR VELOCIDAD	
FS2	PRESSOSTATO FILTRI SPORCHI CLOGGED FILTER PRESSURE SWITCH PRESSOSTAT D'ENCRASSEMENT DE FILTRE DRUCKSCHALTER, FILTERVERSCHMUTZUNG PRESOSTATO FILTROS SUCIOS	
R1 R2	RISCALDAMENTO ELETTRICO EL. HEATERS CHAUFFAGE ELETTRIQUE ELETR. HAIZUNG RESISTENCIAS ELETRICAS	

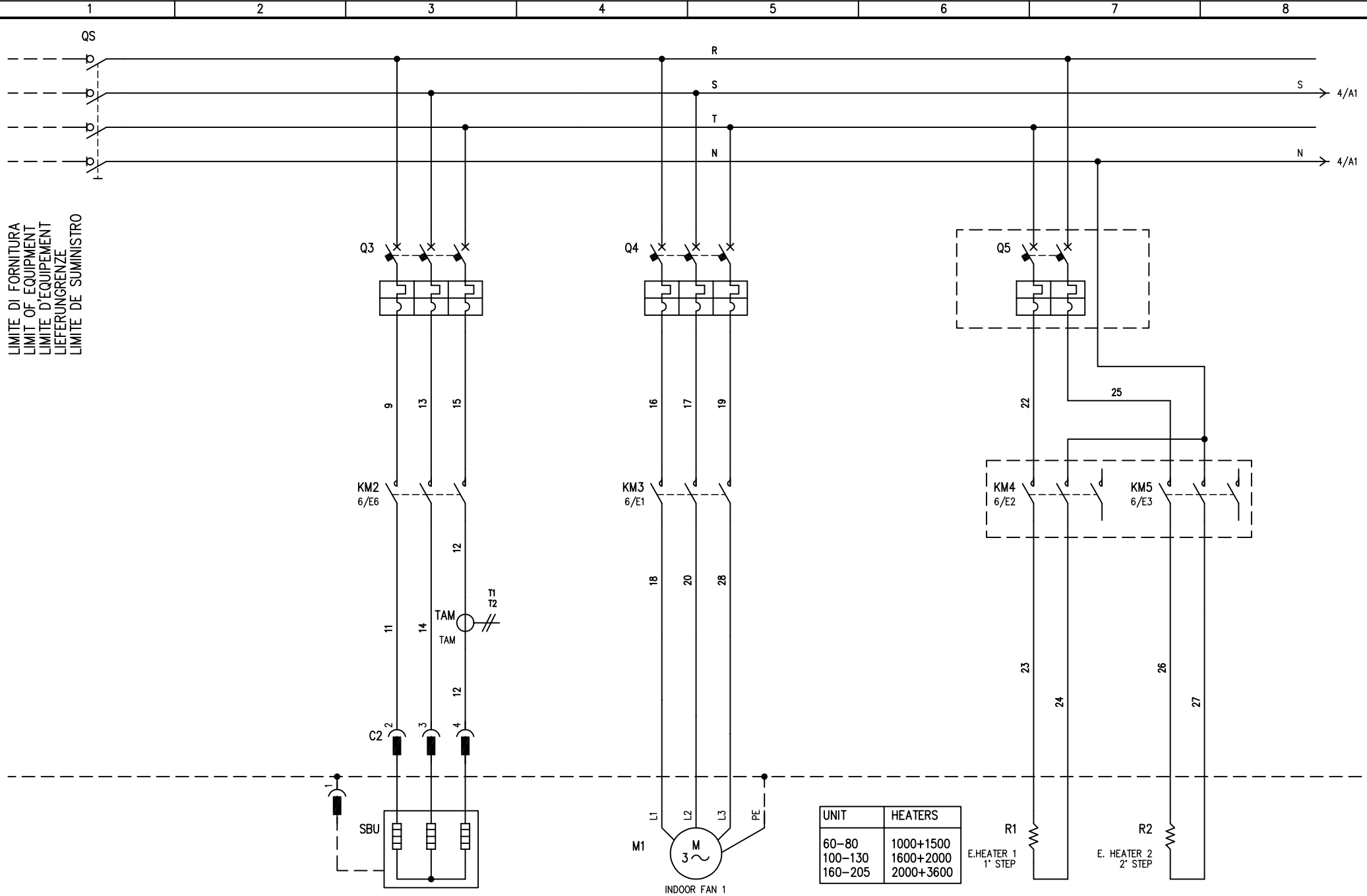
SIGN.	Descriptions	Note
Q1	INTERR. RSF SWITCH RSF INTERR. RSF AUTOMATISCHER RSF INTERR. RSF	
Q2	INTERR. COMPRESSORI SWITCH COMPRESSORS INTERR. COMP. AUTOMATISCHER KOMP. INTERR. COMP.	
Q4	INTERR. UMIDIFICATORE SWITCH HUMIDIFIER INTERR. HUMIDIFIC. AUTOMATISCHER BEFEUCHTER INTERR. HUMIDIF.	
Q5	INTERR. VENTILATORI SWITCH FANS INTERR. VENT. AUTOMATISCHER VENT. INTERR. VENT.	
Q6	INTERR. RISCALDAMENTO ELETTRICO SWITCH E. HEATERS INTERR. CHAUFAGE ELET. AUTOMATISCHER ELETR.HAIZUNG INTERR. RES.	
Q7	INTERR. AUSILIARI SWITCH AUX INTERR. AUS. AUTOMATISCHER AUX INTERR. AUS.	
RC1	RESISTENZE CARTER CRANCKCASE HEATERS RESISTANCE DE CARTER KUBELWANNENHEIZUNG RESISTENCIAS DE CARTER	
Y1 Y2	SOLENOIDI LIQUIDO FREON SOLENOID VALVE ELECTROVANNE FREON MAGNETVENTIL-KAELTEMITTEL ELECTROVALVULA FREON	
TP3 TP4 TP5	TERMICHE VENTILATORI THERMAL PROTECTIONS FANS TERMICHE VENTILATORI TERMICHE VENTILATORI TERMICHE VENTILATORI	
Y4	CARICO ACQUA UMID. HUMIDIFIER FEED VALVE ELECTROVANNE D'ALIM. DE HUMID. BEFEUCHTER VERSORGUNG VALVULA ALIM. HUMIDIF.	
Y5	SCARICO ACQUA UMID. HUMIDIFIER DRAIN VALVE ELECTR. DE DRAINAGE DE HUMID. BEFEUCHTER ENTFUEHLUNG VALVULA DESAGUE HUMID.	
SU	SONDA UMIDITA' HUMIDITY PROBE HYGRUMETRIE FUEHLER LUFTFEUCHTIGKEITSMESSUNG SONDE DE HUMEDAD	

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LIMITE DI FORNITURA  
 LIMIT OF EQUIPMENT  
 LIMITE D'EQUIPEMENT  
 LIEFERUNGRENZE  
 LIMITE DE SUMINISTRO

UNIT	HEATERS
60-80	1000+1500
100-130	1600+2000
160-205	2000+3600

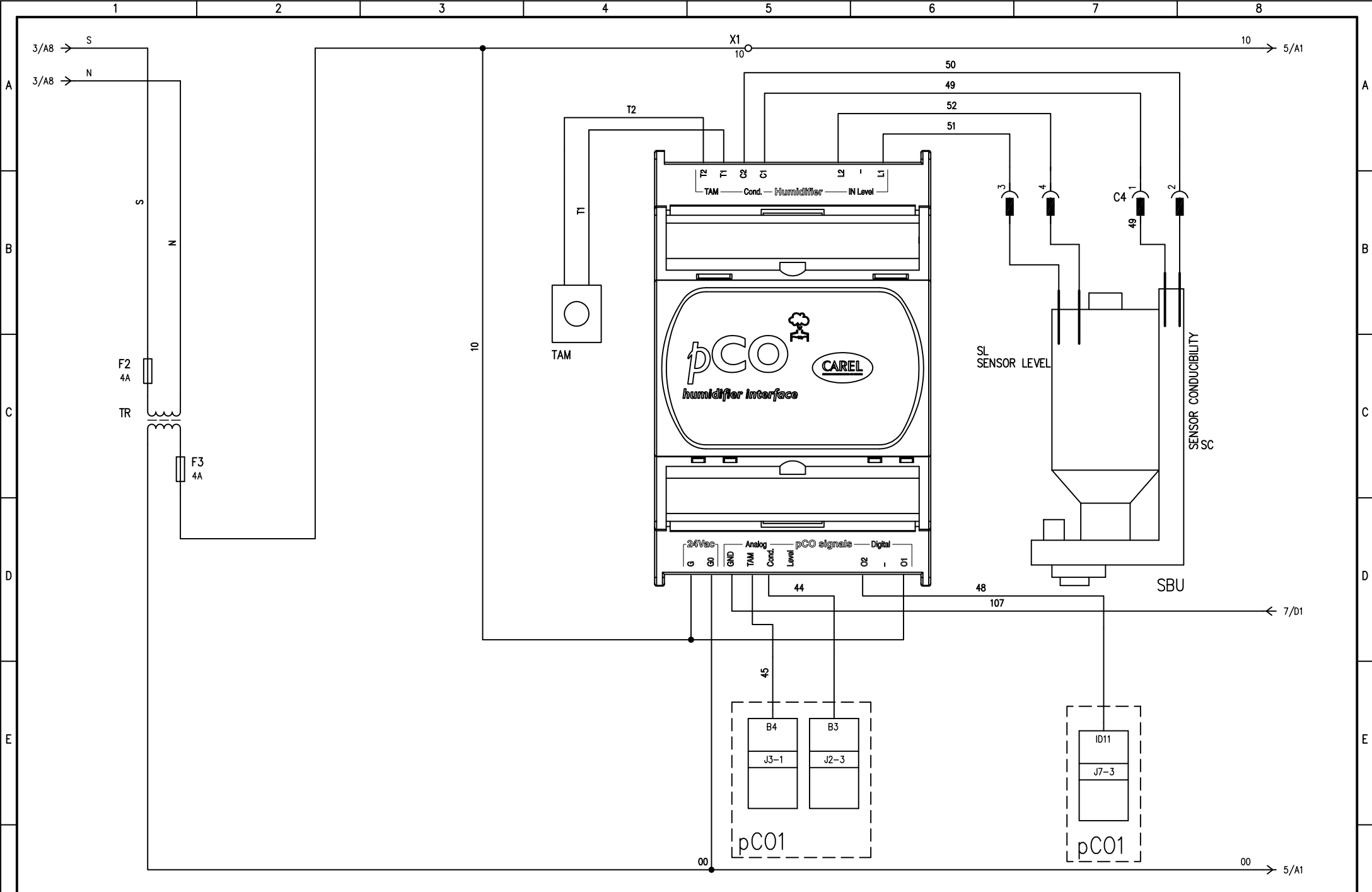
R1  
 E. HEATER 1  
 1' STEP

R2  
 E. HEATER 2  
 2' STEP

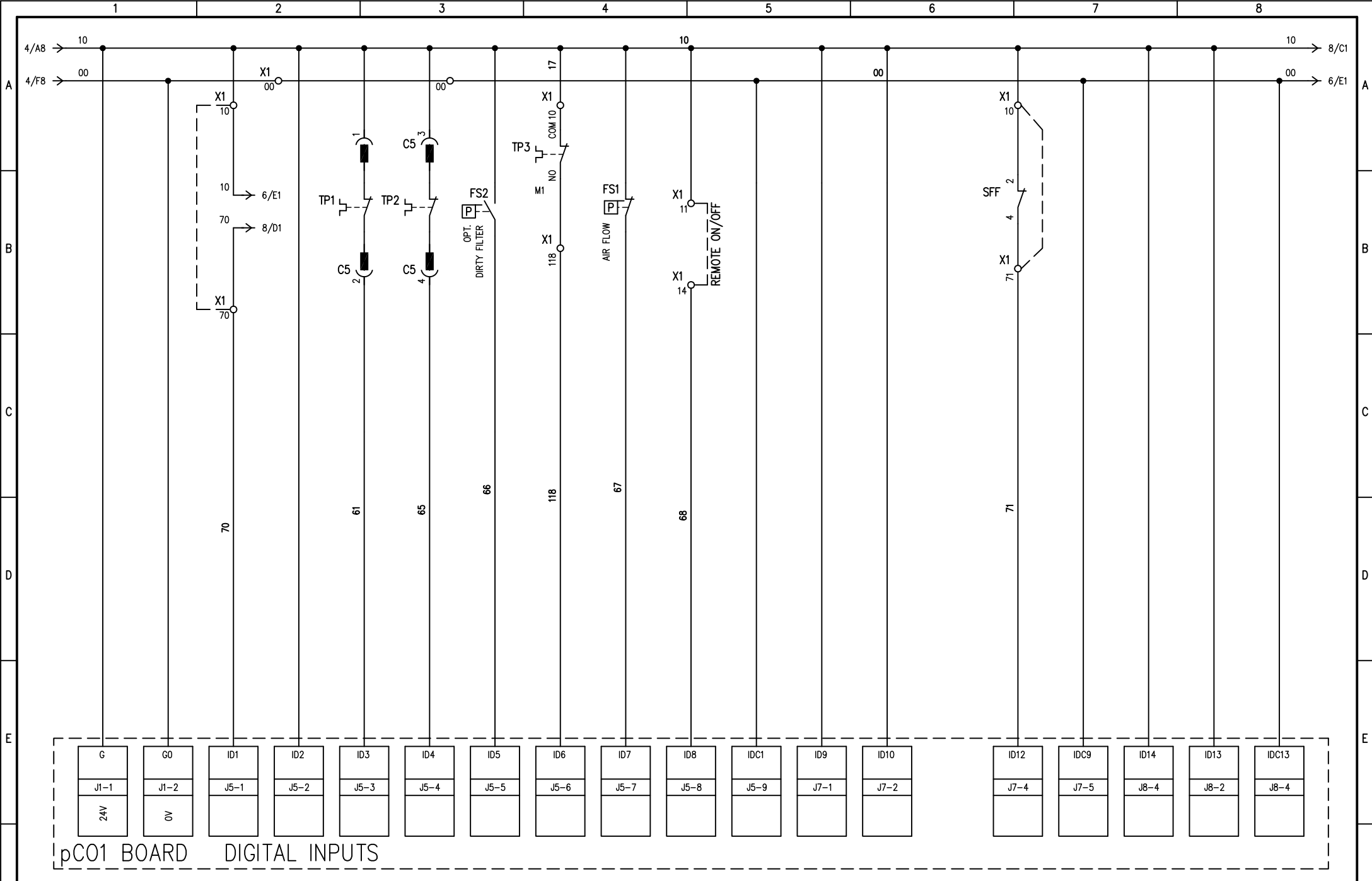


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ORIGIN:	

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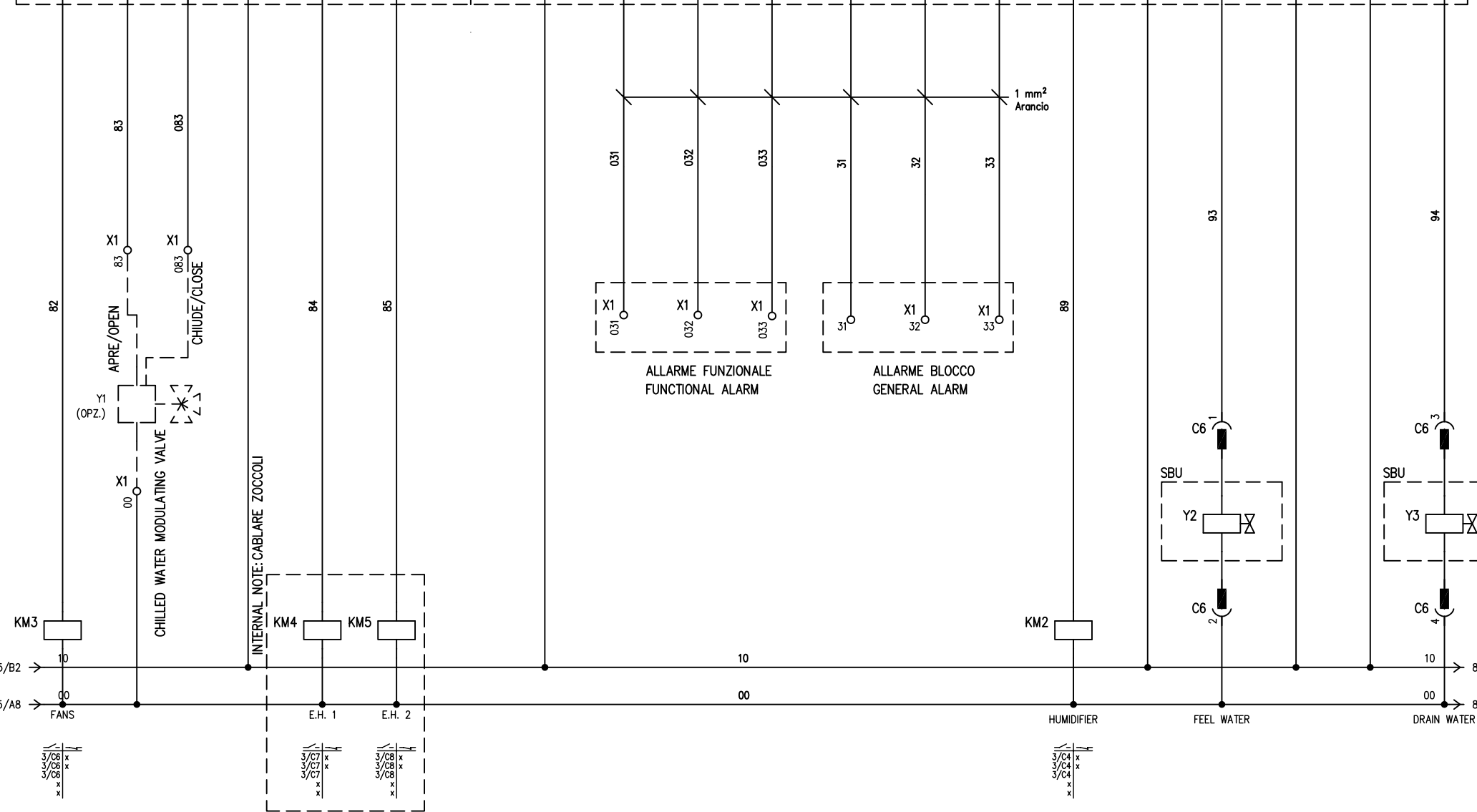
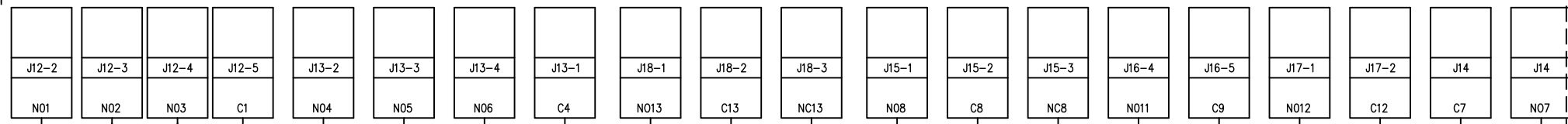
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				DRAW.	POLIDO										
				CHECK	POLIDO										
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.	REPLACE	REPLACE	ORIGIN:			HF620C0561	SHEET 4 OF 23			
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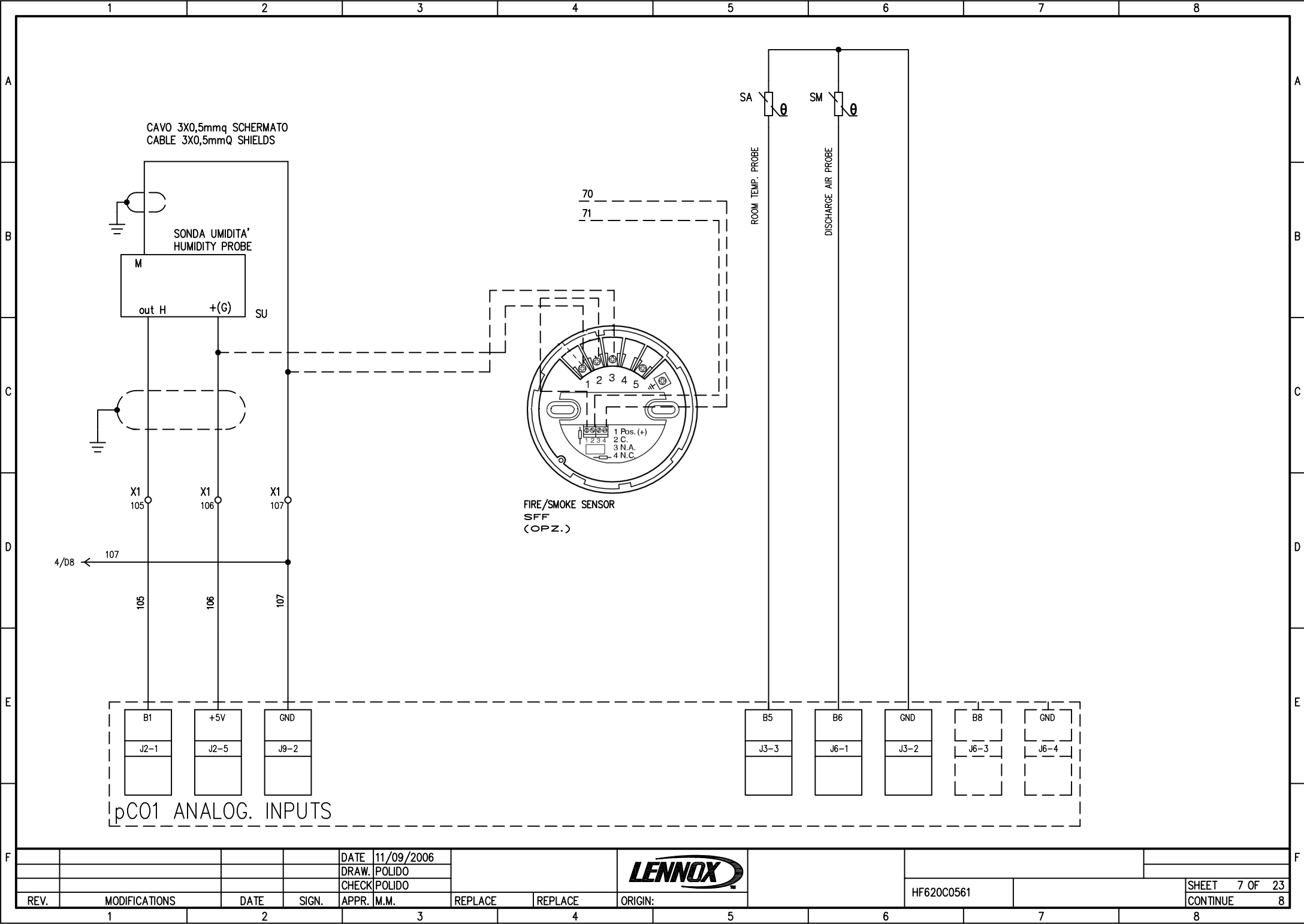
pCO1 BOARD DIGITAL INPUTS

				DATE	11/09/2006		<b>LENNOX</b>							
				DRAW.	POLIDO									
				CHECK	POLIDO									
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													CONTINUE 6	

pC01 DIGITAL OUTPUTS



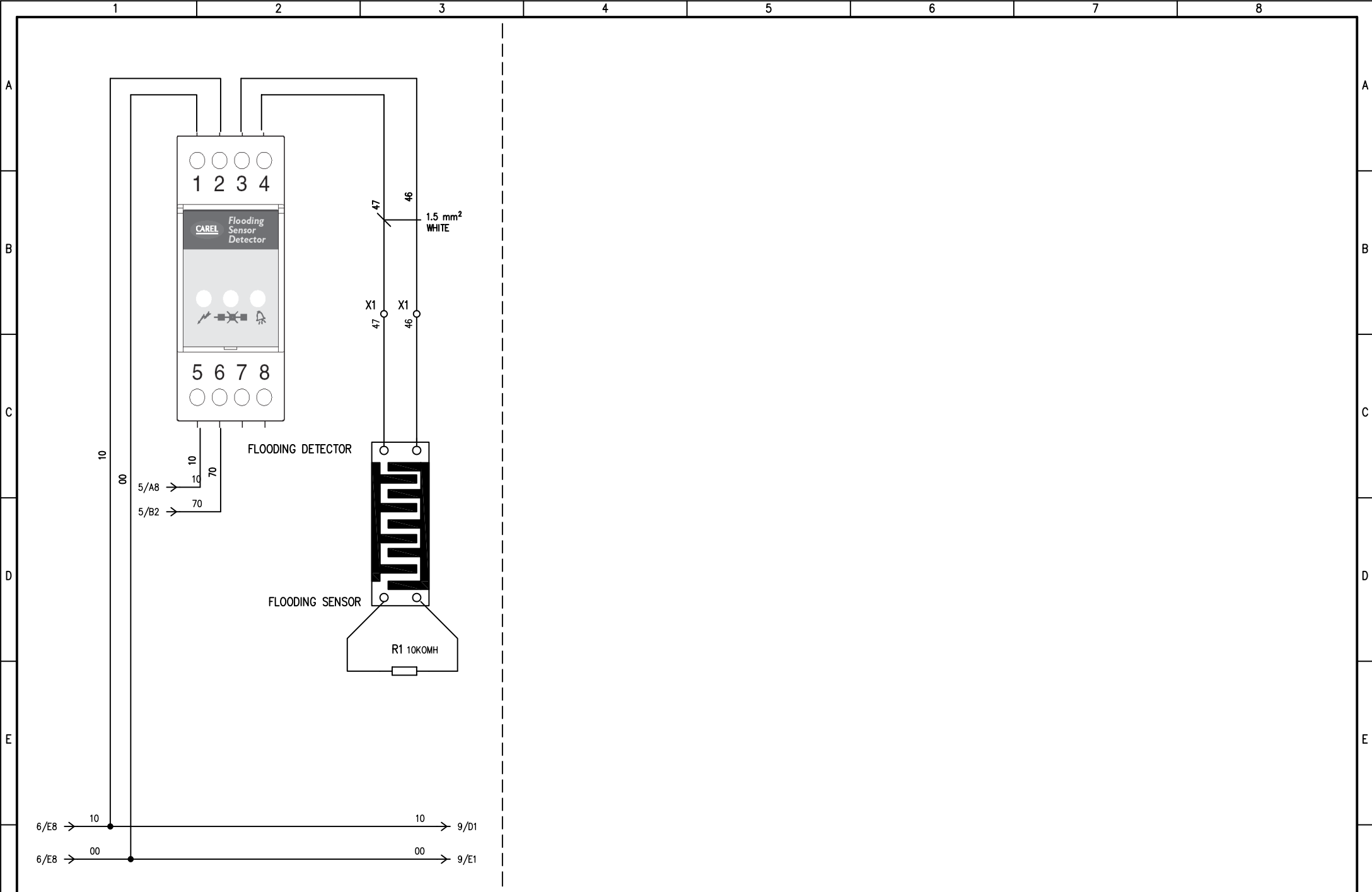
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REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE			REPLACE	ORIGIN:	CONTINUE	



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CHECK	POLIDO							
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.	REPLACE	REPLACE	ORIGIN:



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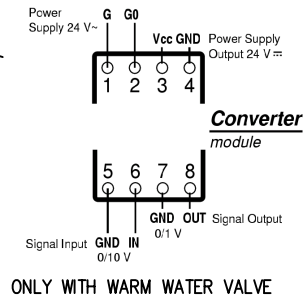
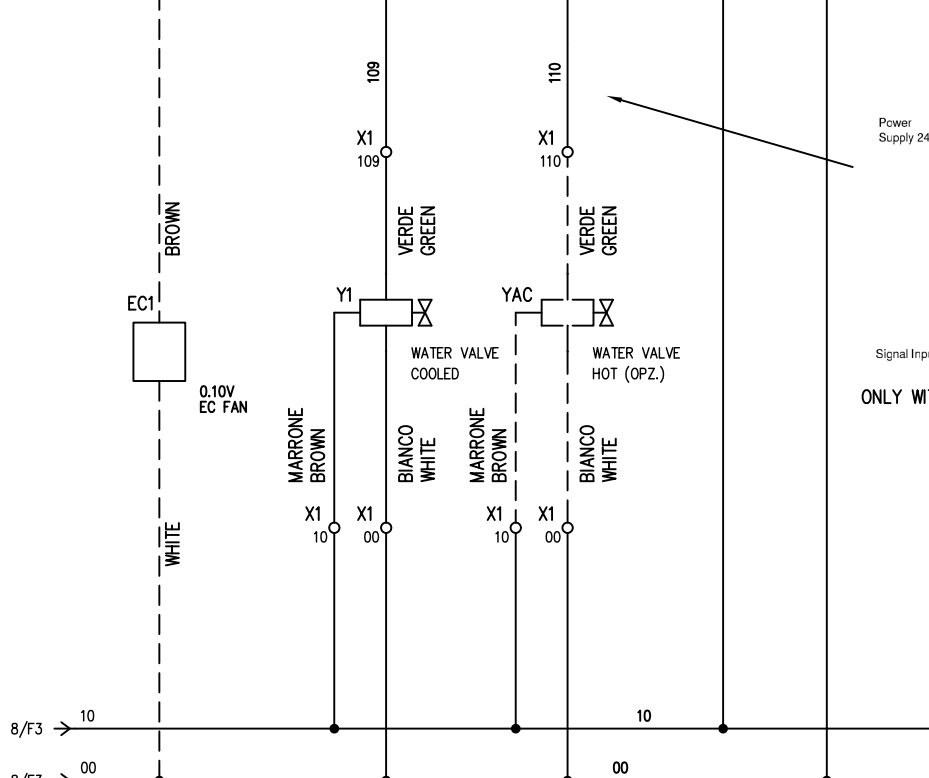
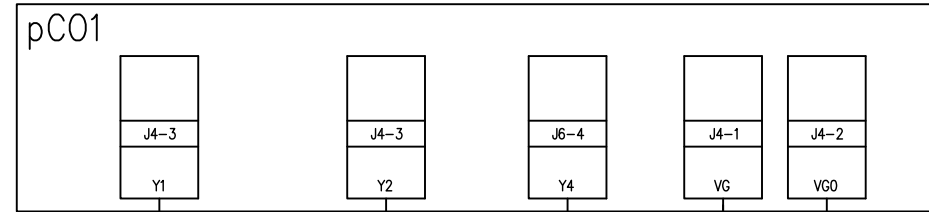
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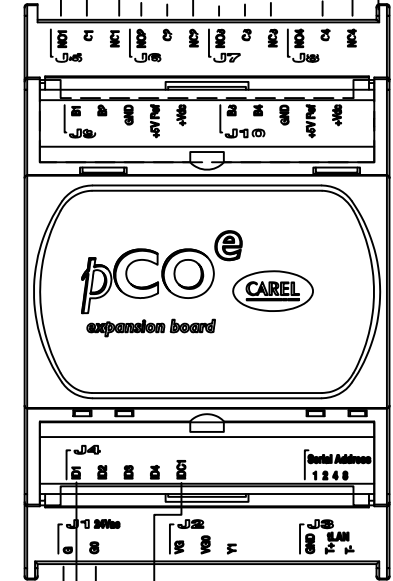
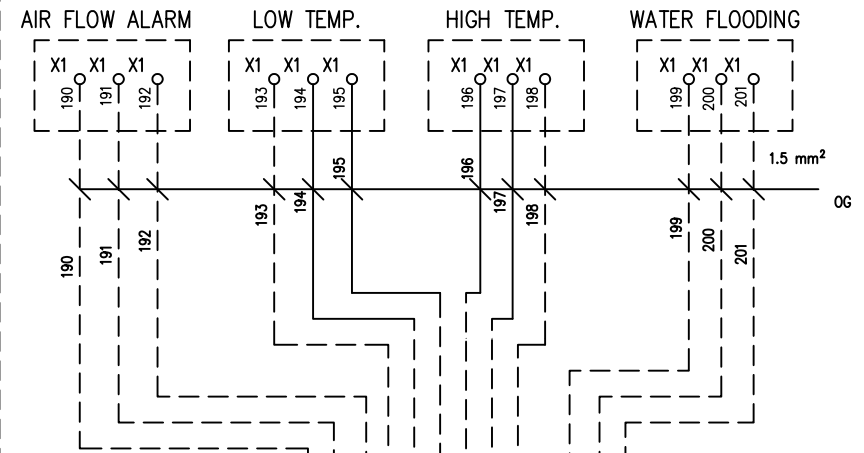


CONTROLLO VALVOLE 0-10V  
VALVES CONTROL 0-10V



VALVOLA MODULANTE ACQUA FREDDA (OPZ.)  
CHILLED WATER MODULATING VALVE (OPT.)  
VANNE DE REGULATION EAU GLASSE (OPT.)  
MEGERKALTWASSERVENTIL (ZUB.)  
VALVOLA DE 3 VÍAS AGUA REFRIGERADA (OPZ.)

VALVOLA ACQUA CALDA (OPZ.)  
HOT WATER VALVE (OPT.)  
VANNE DE REGUL. EAU CHAUDE (OPT.)  
MEGERWARMWASSERVENTIL (ZUB.)  
VALVILA AGUA CALIENTE (OPZ.)



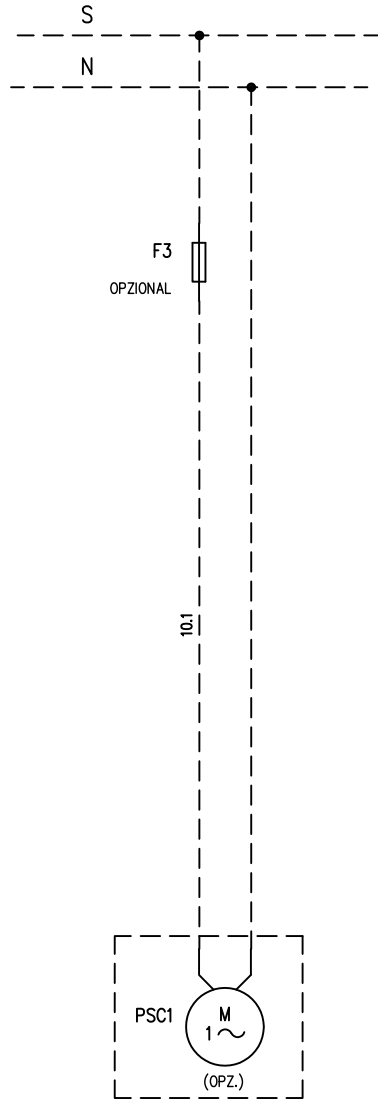
pCOE BOARD

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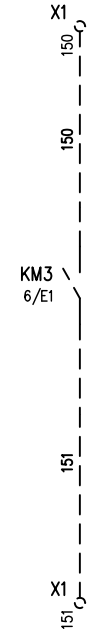


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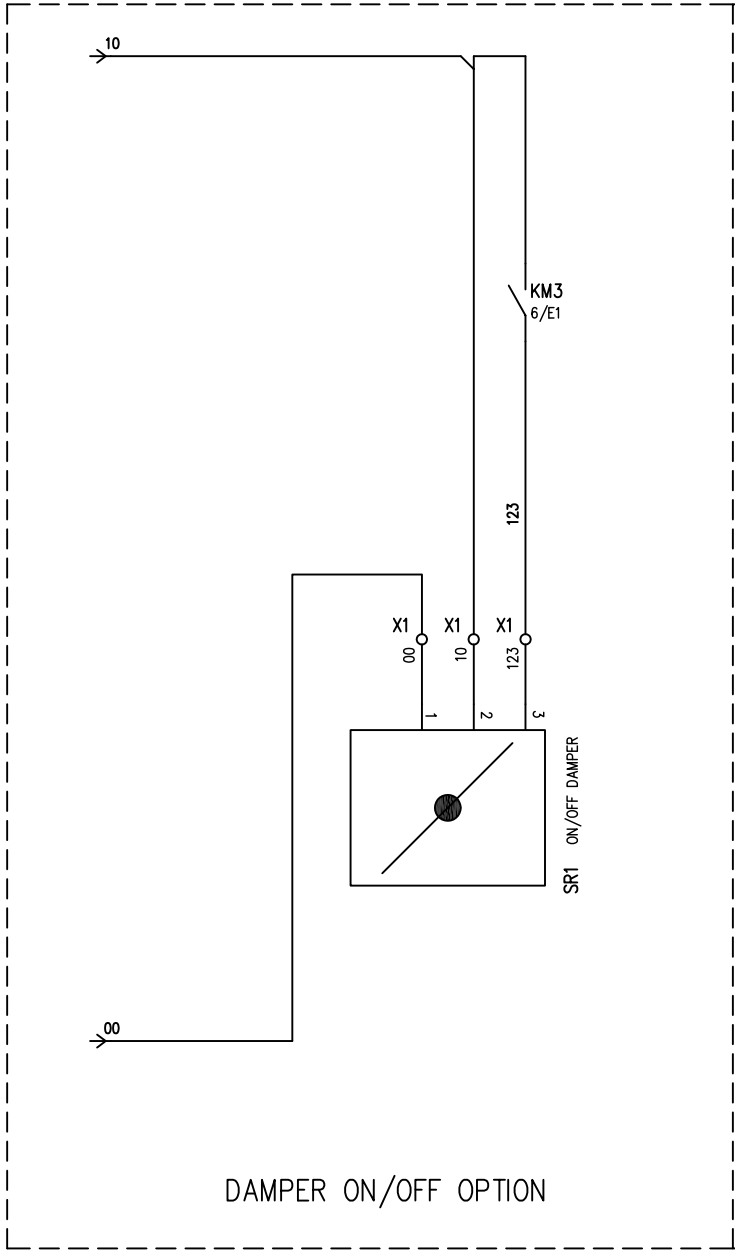
CONDENSATE DRAIN PUMP  
 POMPE A EAU CONDENSEUY  
 KONDENSATWASS PUMPE  
 BOMBA DESEGUE CONDEN.



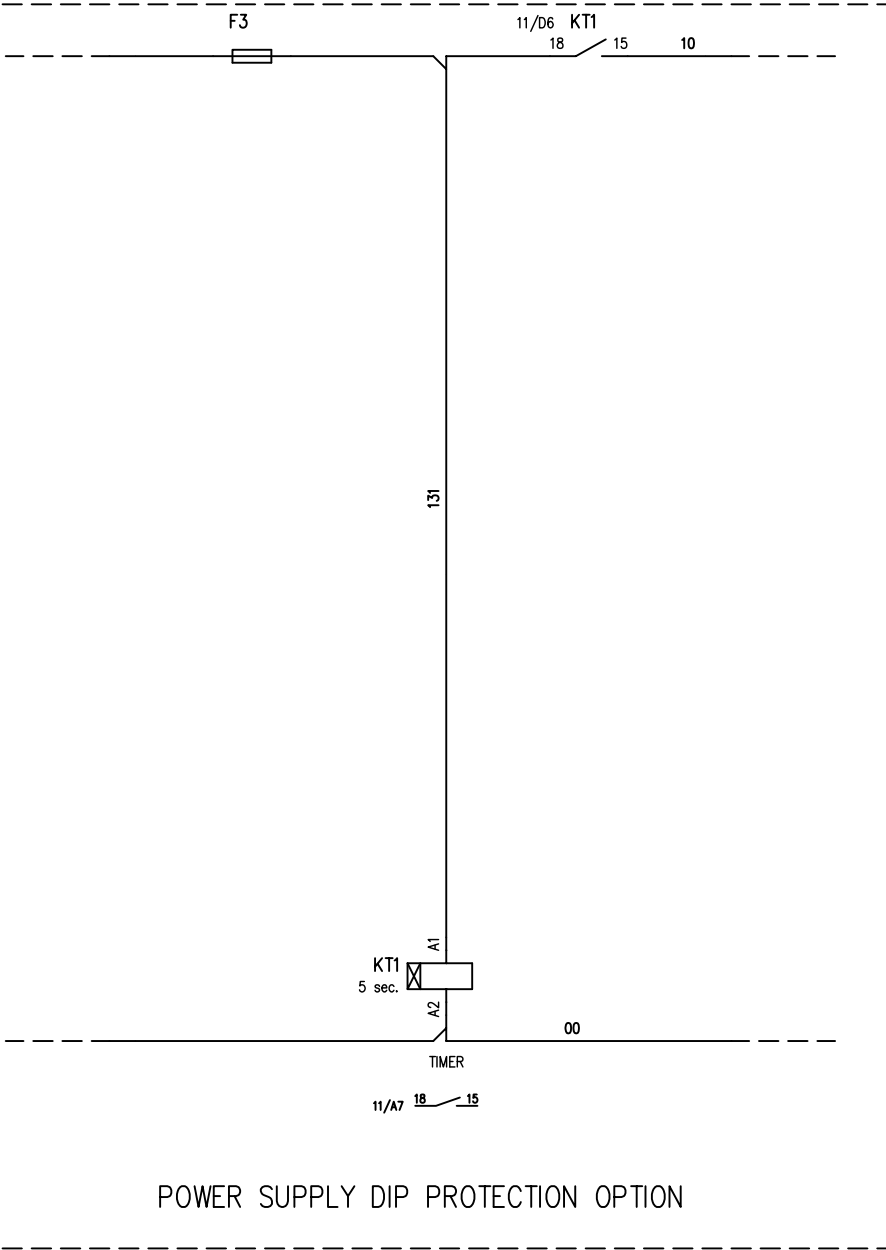
SEGNALAZIONE DELLO STATO DELL'UNITA' (OPZ.)  
 UNIT STATUS SIGNAL (OPT.)  
 ETAT DES SIGNAUX DE L'UNITE' (OPT.)  
 STATUSMELDEKONTAKT (ZUB.)  
 SENALIZACION DEL ESTADO DE LA UNIDAD (OPC.)



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1		2		3		4		5	6	7	8	CONTINUE 11



DAMPER ON/OFF OPTION



POWER SUPPLY DIP PROTECTION OPTION

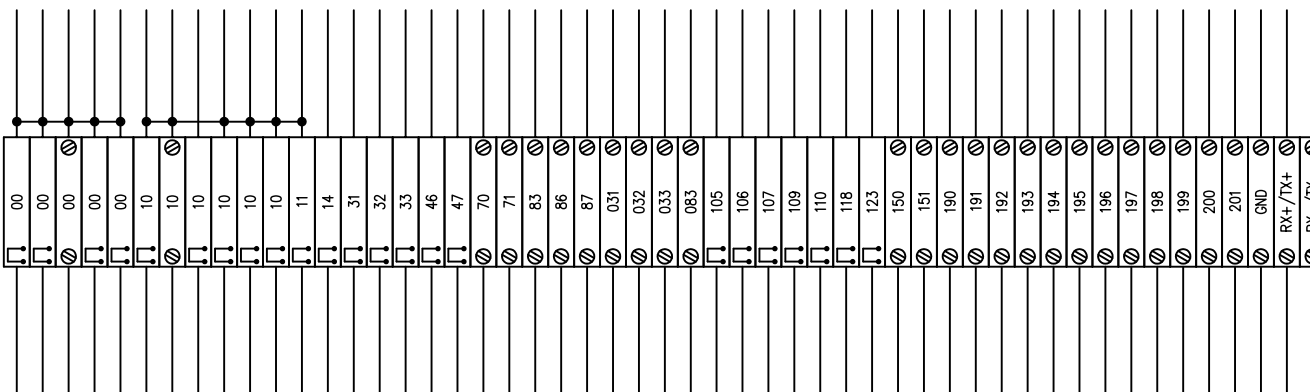
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TERMINAL STRIP  
 BORNIER  
 KLEMMLEISTE  
 KLEMMLEISTE

CONNETTORI



C2

Pin	Filo	Posizione
1		3/E4
2	11	3/E4
3	14	3/E4
4	12	3/E4

C4

Pin	Filo	Posizione
1	49	4/C4
2	50	4/C5
3	51	4/C5
4	52	4/C5

C5

Pin	Filo	Posizione
1	10	5/A3
2	61	5/B3
3	10	5/A3
4	65	5/B3

C6

Pin	Filo	Posizione
1	93	6/D7
2	00	6/E7
3	94	6/D8
4	00	6/E8

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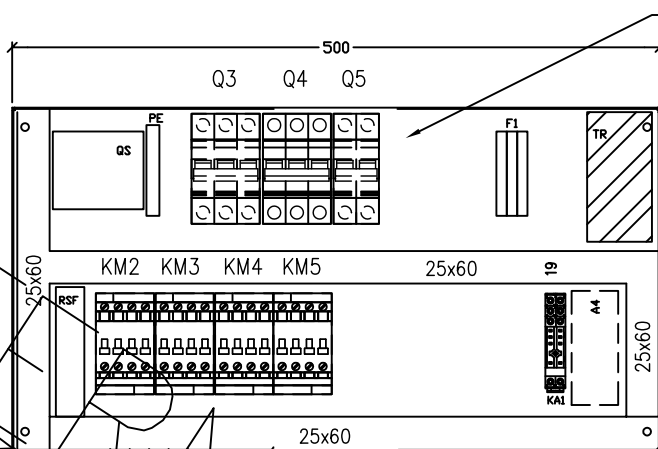
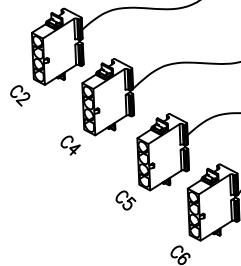


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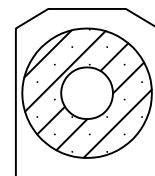
LAYOUT MOD.080/110

PIASTRA DI FONDO NS. COD. HF17000909

F1=USARE MORSETTI PORTAFUBILI PHOENIX UK5-HESI INTERBLOCATI



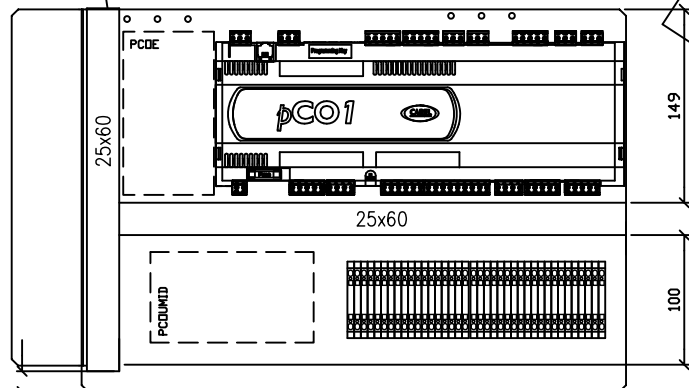
GUAINA SPIRALATA L=1500mm FORCINE



A CURA DEL QUADRISTA: FORNIRE IL TOROIDE SU SUPPORTO DI VS. FORNITURA

FORNIRE PRECABLATA FILI L=150mm

GUAINA SPIRALATA L=150mm



MORSETTI PHOENIX COD.ST1,5-TWIN 3031128 FISSARE SU GUIDA OMEGA CON FORI FATTI



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REPLACE REPLACE

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ALAZARE CON CAVALLOTTI

ALAZARE

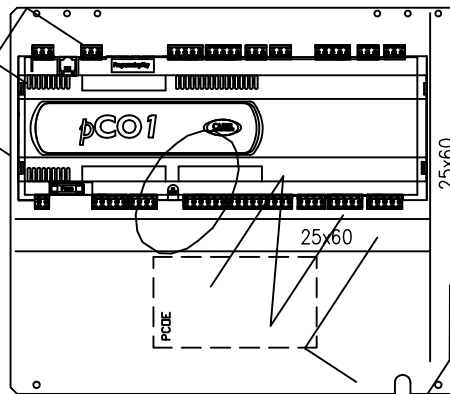
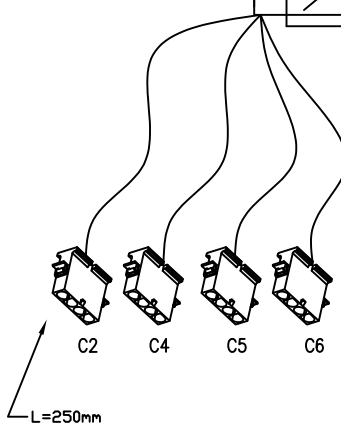
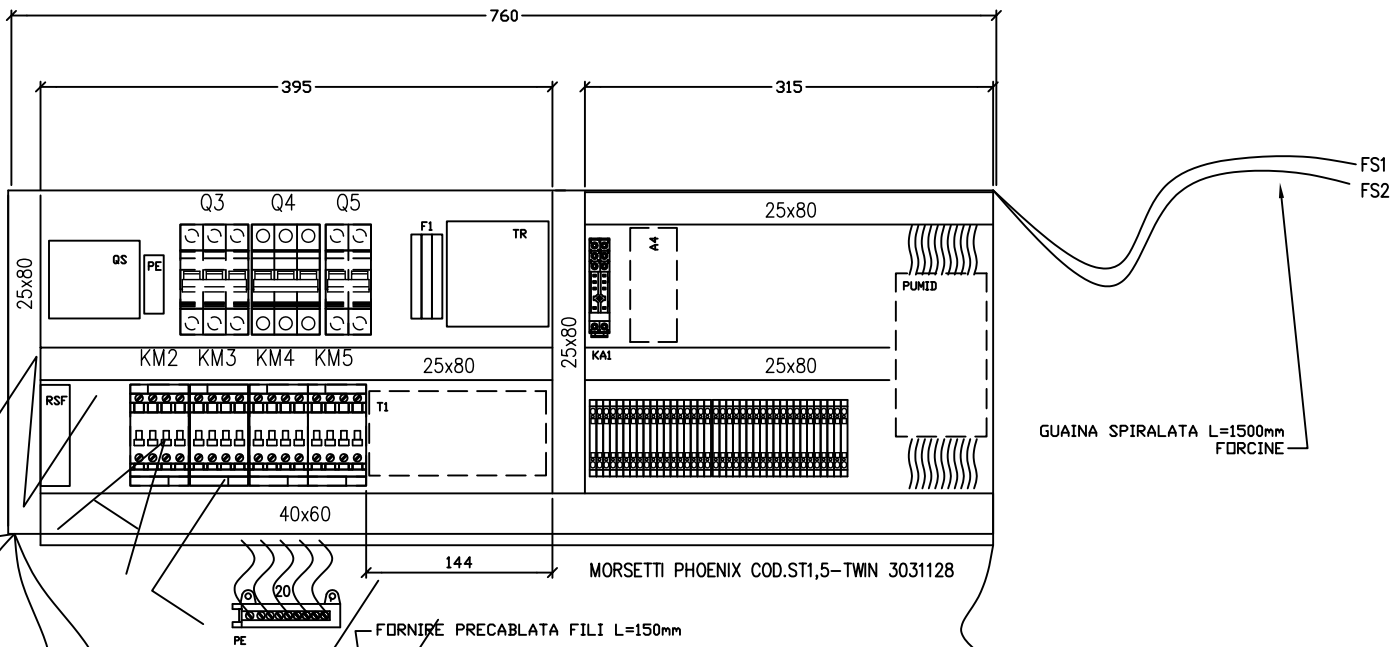
USI

ONLY

LAYOUT 140...230

PIASTRA DI FONDO NS. COD. HF17000756

F1=USARE MORSETTI PORTAFUBBI PHOENIX  
UK5-HESI  
INTERBLOCATI

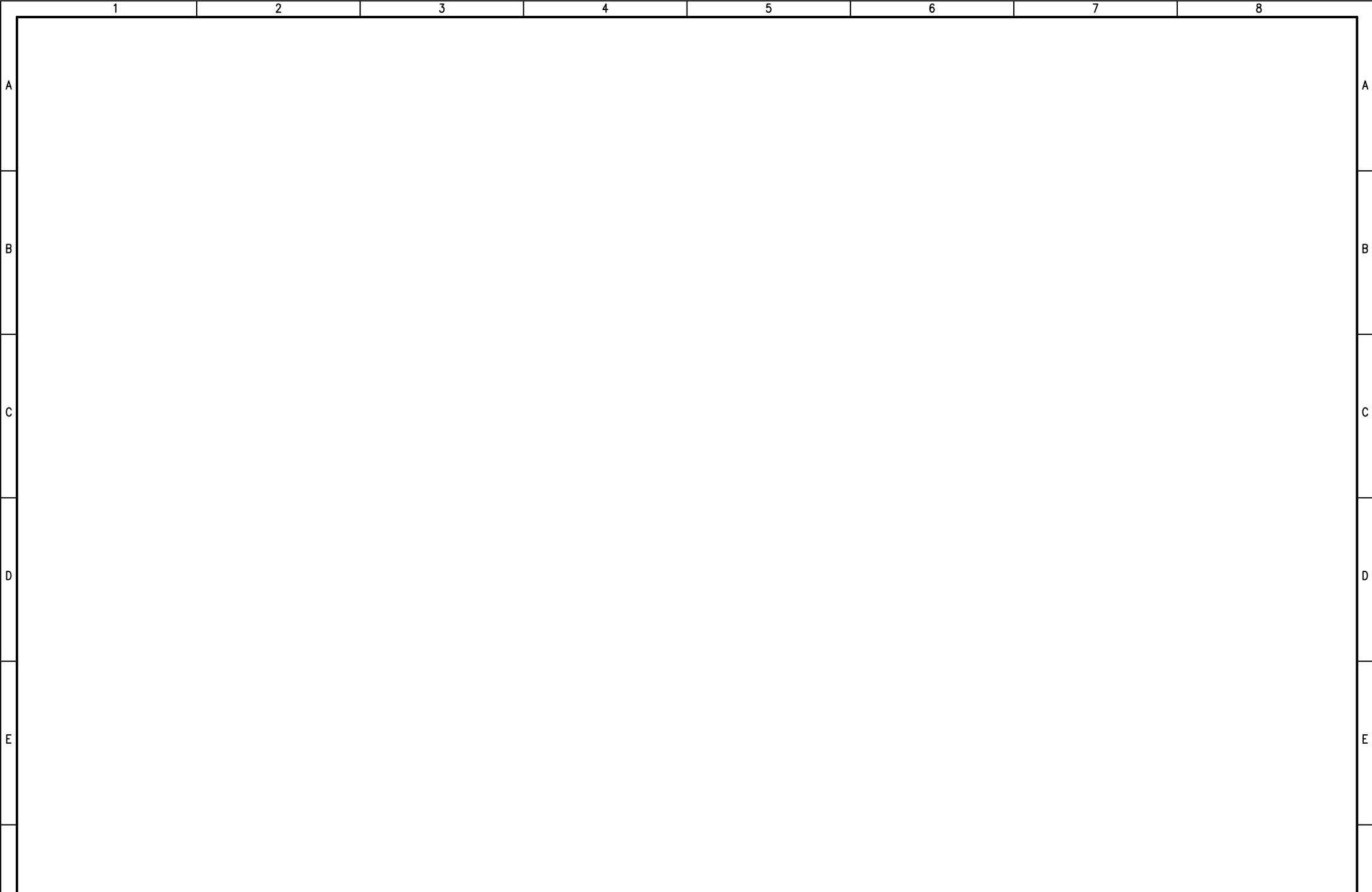


GUAINA SPIRALATA L=150mm

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A

A

B

B

C

C

D

D

E

E

F

F

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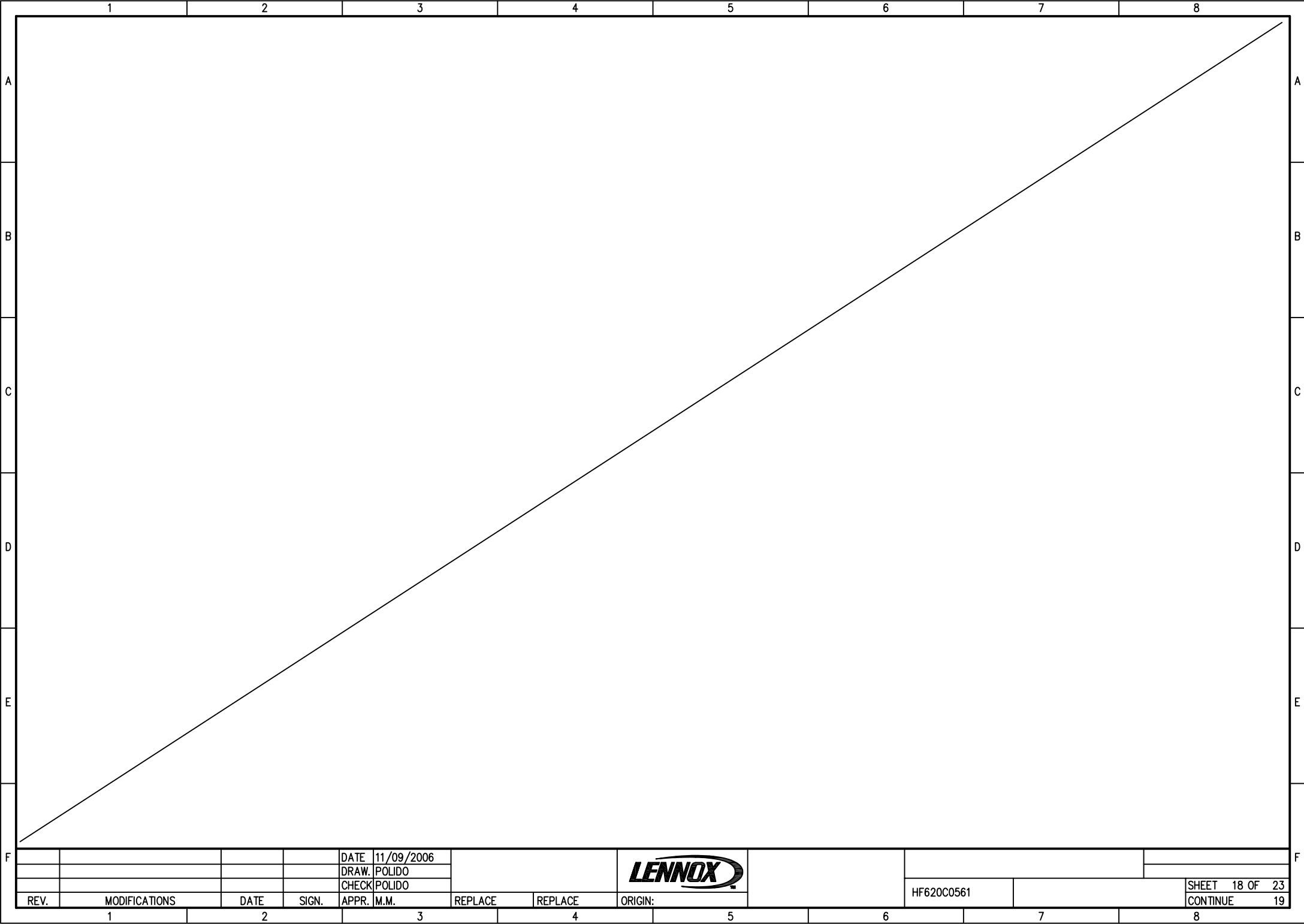
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7

8



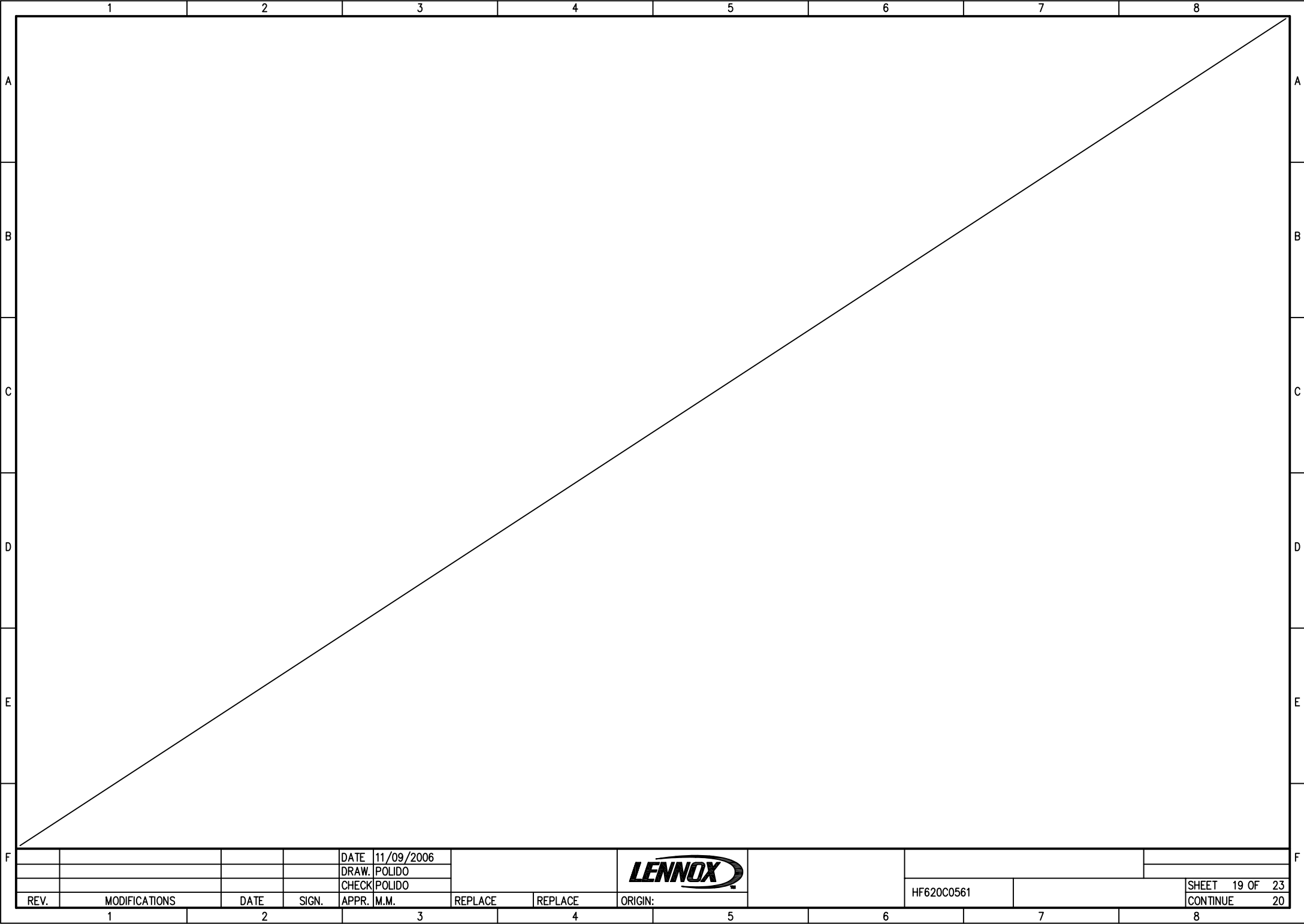




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A								
B								
C								
D								
E								
F								

				DATE	11/09/2006					
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REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.	REPLACE	REPLACE	ORIGIN:		
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1	2		3	4	5	6	7	8	
080-110	Ref-mark	Function	Technical data	Item code	Description	Amount	M.U.	Position	
A	AP	HIGH PRESSURE				1		4/C02	
	BP	LOW PRESSURE				1		5/A06	
	C1	COMPRESSOR				1		3/E02	
B	EV1					1		7/B05	
	EV2					1		7/B05	
	F1		4AF		FUSIBILE 5X20	1	PCE	3/D08	
	H1	HUMIDIFYER				1		3/E06	
C									
	KM2	HUMID.		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10	1	PCE	4/E06	
	KM3	EVAP. FANS		LS410-55/72614	TEL. AEG LS4.10 24V/DIL00M-10	1	PCE	4/E07	
D	KM4	E.H. 1 STEP		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10	1	PCE	6/B03	
	KM5	E.H. 2 STEP		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10	1	PCE	6/B03	
E									
F									
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1	2		3	4	5	6	7	8	
080-110	Ref-mark	Function	Technical data	Item code	Description	Amount	M.U.	Position	
A	M1	EVAP. FANS				1		3/E05	
	Q3	HUMID.		E93C06/242943	INT.AUT.Elfa E90 3P C 6A 6kA/PLS6-C6/3	1	PCE	3/B05	
	Q4	FANS		E93C06/242943	INT.AUT.Elfa E90 3P C 6A 6kA/PLS6-C6/3	1	PCE	3/B06	
B	Q5	E.HEATERS		E92C10/242876	INT.AUT.Elfa E90 2P C 20A 6kA/PLS6-C10/2	1	PCE	3/B07	
	QS		4X25	OT25E4		1		3/A01	
	R1	E. HEATERS				1		3/E04	
	RSF	PHASE SEQUENCE				1		3/C02	
C	SA	ROOM PROBE				1		6/B05	
	TR		100VA		CON FUS. A BORDO	1		3/C07	
D									
E									
F									

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1	2		3	4	5	6	7	8	
140...230	Ref-mark	Function	Technical data	Item code	Description	Amount	M.U.	Position	
A	AP	HIGH PRESSURE				1		4/C02	
	BP	LOW PRESSURE				1		5/A06	
	C1	COMPRESSOR				1		3/E02	
B	EV1					1		7/B05	
	EV2					1		7/B05	
	F1		4AF		FUSIBILE 5X20	1	PCE	3/D08	
	H1	HUMID.				1		3/E06	
C	KA1	DEHUMID		40528024		1		4/E02	
	KM2	HUMID.		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	4/E06	
	KM3	EVAP. FANS		LS410-55/72614	TEL. AEG LS4.10 24V/DIL00M-10 24V	1	PCE	4/E07	
D	KM4	E.H. 1 STEP		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	6/B03	
	KM5	E.H. 2 STEP		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	6/B03	
E									
F									
				DATE	11/09/2006				
				DRAW.	POLIDO				
				CHECK	POLIDO				
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.	REPLACE	REPLACE	ORIGIN:	
								HF620C0561	
								SHEET 22 OF 23	
								CONTINUE 23	



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1	2		3	4	5	6	7	8	
140...230	Ref-mark	Function	Technical data	Item code	Description	Amount	M.U.	Position	
A	M1/M2	EVAP. FANS				1		3/E05	
	Q3	HUMID.		E93C06/242943	INT.AUT.Elfa E90 3P C 06A 6kA/PLS6-C06/3	1	PCE	3/B05	
	Q4	FANS		E93C06/242943	INT.AUT.Elfa E90 3P C 6A 6kA/PLS6-C6/3	1	PCE	3/B06	
B	Q5	E. HEATERS		E92C20/242881	INT.AUT.Elfa E90 2P C 20A 6kA/PLS6-C20/2	1	PCE	3/B07	
	QS		4X45	OT45E4		1		3/A01	
	R1	E. HEATERS				1		3/E04	
	RSF	PHASE SEQUENCE				1		3/C02	
C	SA	ROOM PROBE				1		6/B05	
	TR		100VA		CON FUS. A BORDO	1		3/C07	
D									
E									
F									
				DATE 11/09/2006					
				DRAW. POLIDO					
				CHECK POLIDO					
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:	HF620C0561	SHEET 23 OF 23
1	2	3	4	5	6	7	8	CONTINUE	