



**CARATTERISTICHE ELETTRICHE
ELECTRIC CHARACTERISTIC**

SERIE	DHAU/DC060...190.....pC01
MODEL WITH PLUG FAN	
JAD/U060-190 400V+N	
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

C	ALL. GUAINA QUADRO-SPORTELLO	27/03/2008	C.N.	DATE	11/09/2006		HF620C0560	SHEET 1 OF 22		
D	CAMBIATO INT. Q2	03/07/2008	C.N.	DRAW.	P.M.					
E	REVISIONATO LAYOUT	07/02/2009	C.N.	CHECK	P.M.					
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.	REPLACE	REPLACE	ORIGIN:	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	CONTATTATORE 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 MOTORISIERTA 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 TERMOSTATO DE SEGURIDAD DE LAS RESISTENCIAS	
P1	PRESSIONE 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 AUSSERER LUFTEMP.-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 NIEDERDRUCK 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	

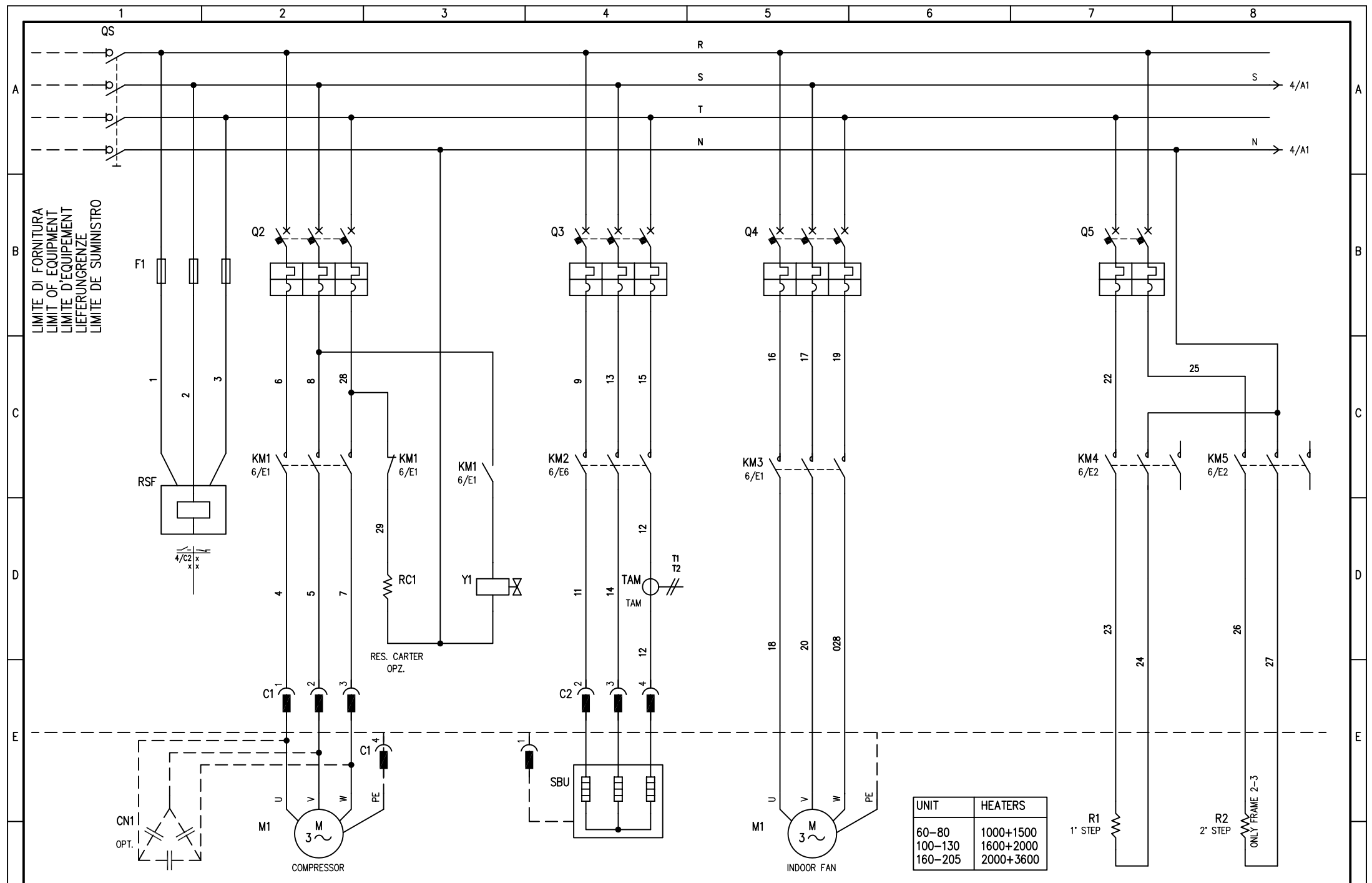
SIGN.	Descriptions	Note
Q1	INTERR. RSF SWITCH RSF INTERR. RSF AUTOMATISCHER RSF INTERR. RSF	
Q2	INTERR. COMPRESSORI SWITCH COMPRESSORS INTERR. COMP. AUTOMATISCHER KOMP. INTERR. COMP.	
Q4	INTERR. UMIDIFICATORE SWITCH HUMIDIFIER INTERR. HUMIDIFIC. AUTOMATISCHER BEFEUCHTER INTERR. HUMIDIF.	
Q5	INTERR. VENTILATORI 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 CRANKCASE 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 ENTUEHLUNG VALVULA DESAGUE HUMID.	
SU	SONDA UMIDITA' HUMIDITY PROBE HYGRUMETRIE FUEHLER LUFTFEUCHTIGKEITSMESSUNG SONDE DE HUMEDAD	

DATE	11/09/2006				
DRAW.	P.M.				
CHECK	P.M.				
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.



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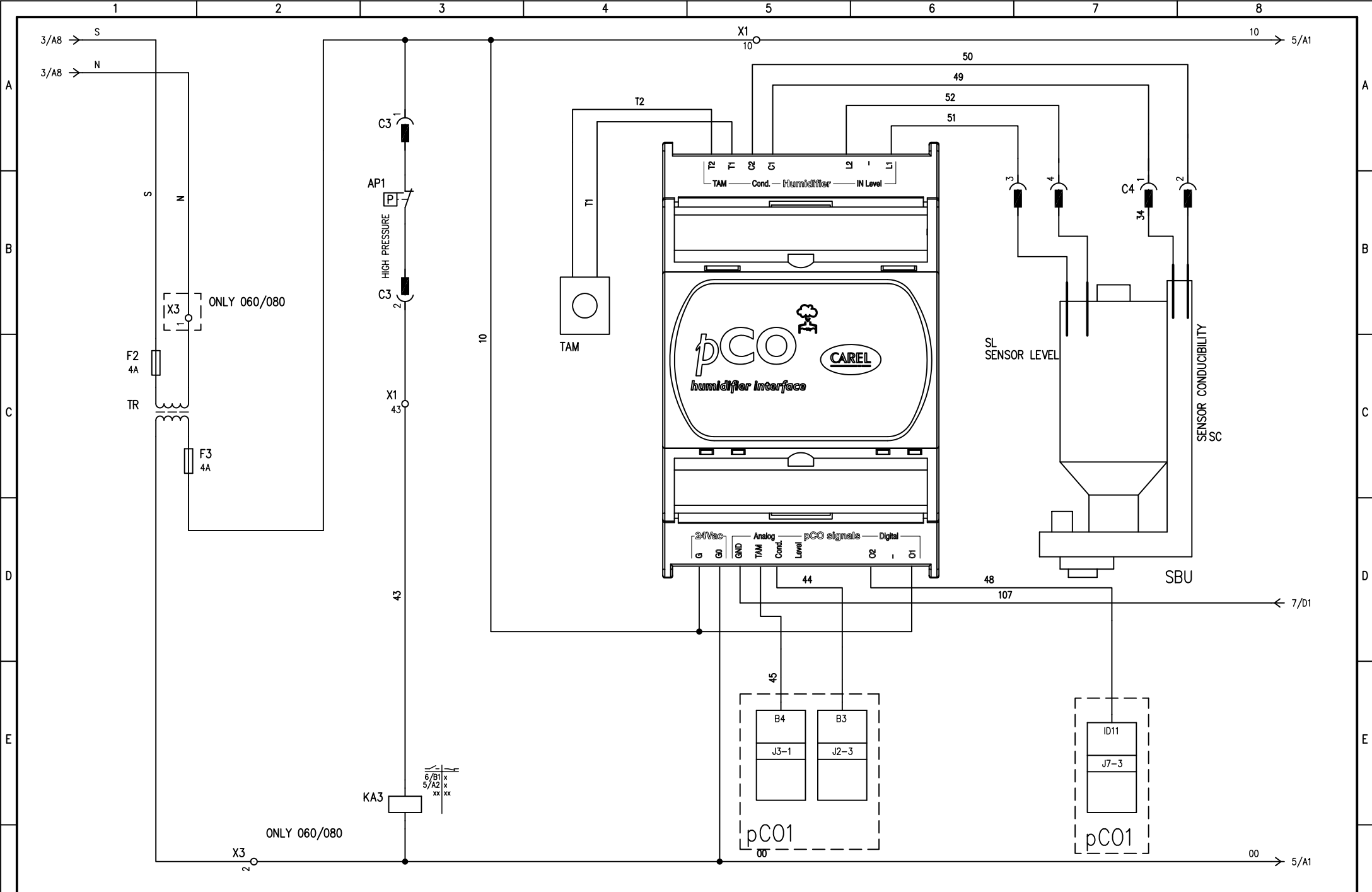
LIMITE DI FORNITURA
 LIMIT OF EQUIPMENT
 LIMITE D'EQUIPEMENT
 LIEFERUNGRENZE
 LIMITE DE SUMINISTRO



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

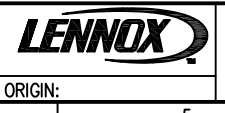
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REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:			CONTINUE 4	





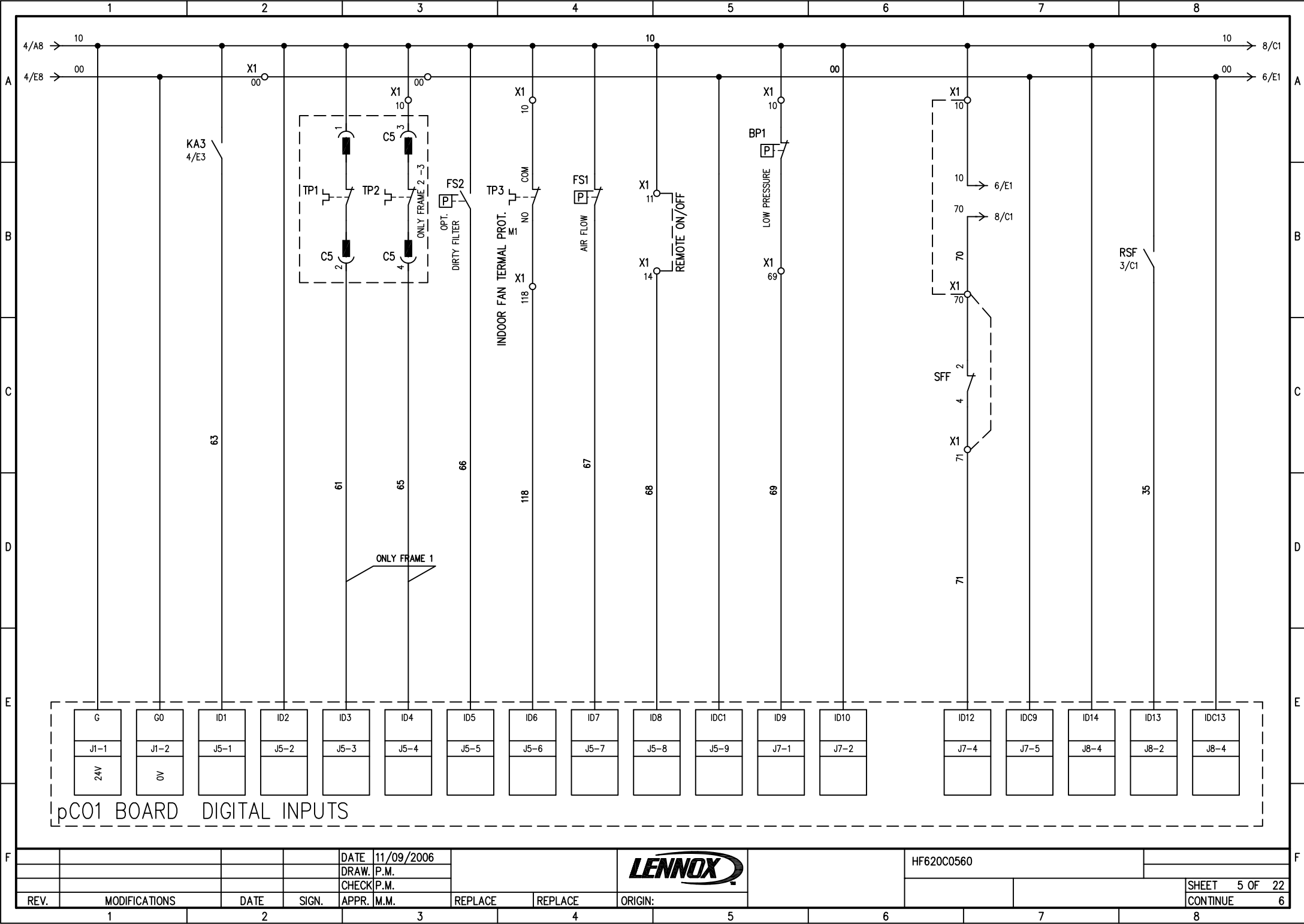
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DRAW.	P.M.
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REV.	MODIFICATIONS
DATE	SIGN.
APPR.	M.M.

REPLACE	REPLACE
ORIGIN:	



HF620C0560

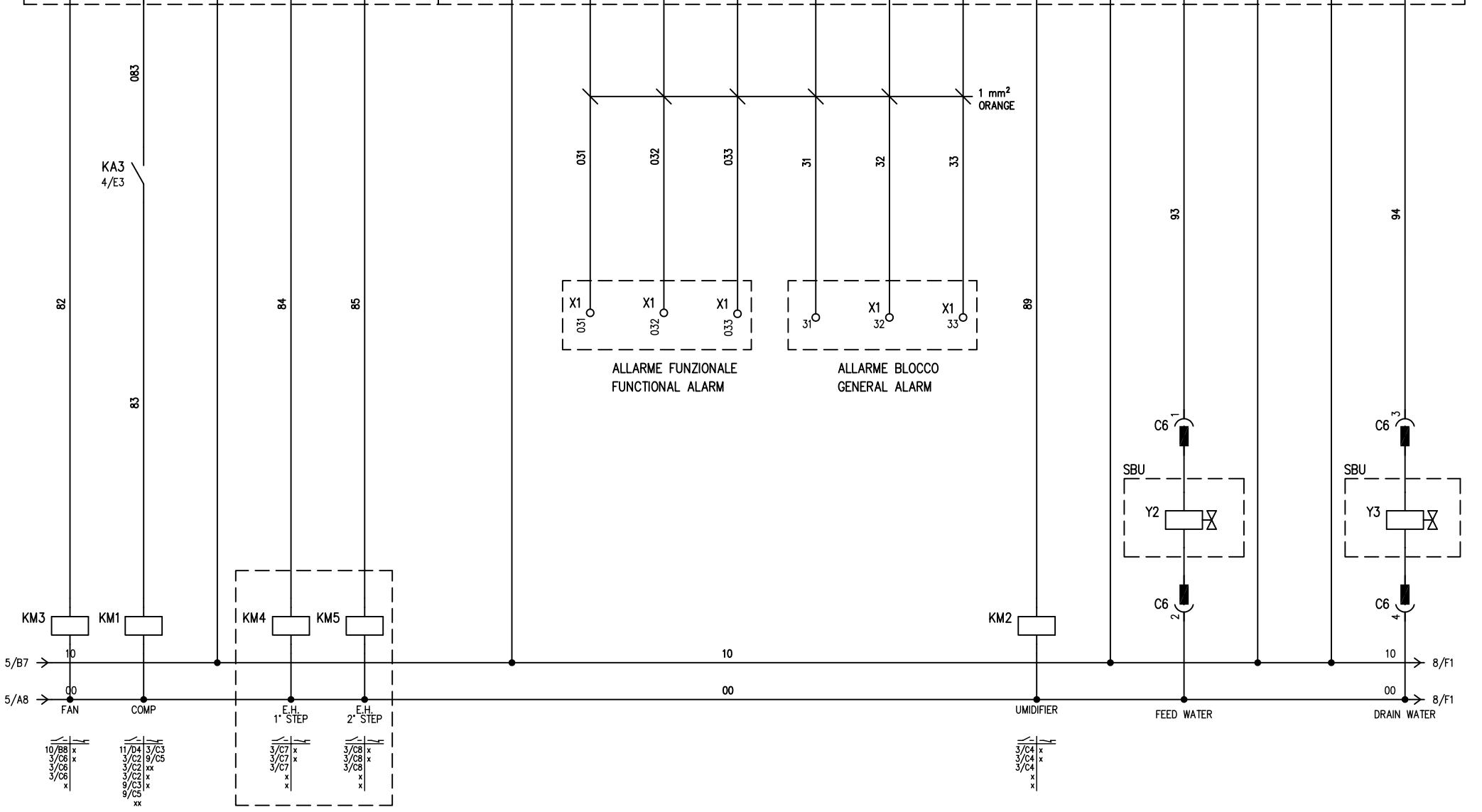
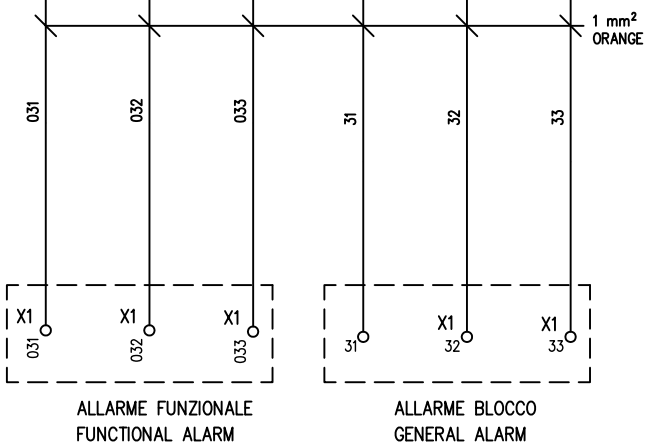
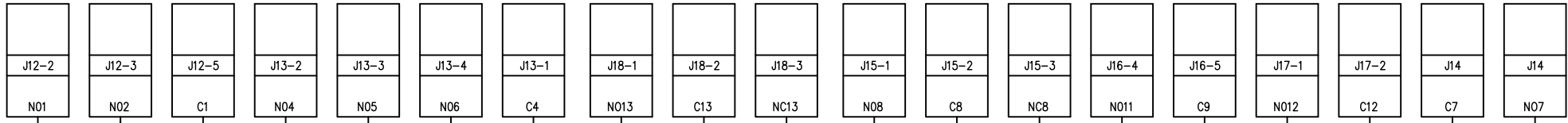
SHEET	4 OF 22
CONTINUE	5



pCO1 BOARD DIGITAL INPUTS

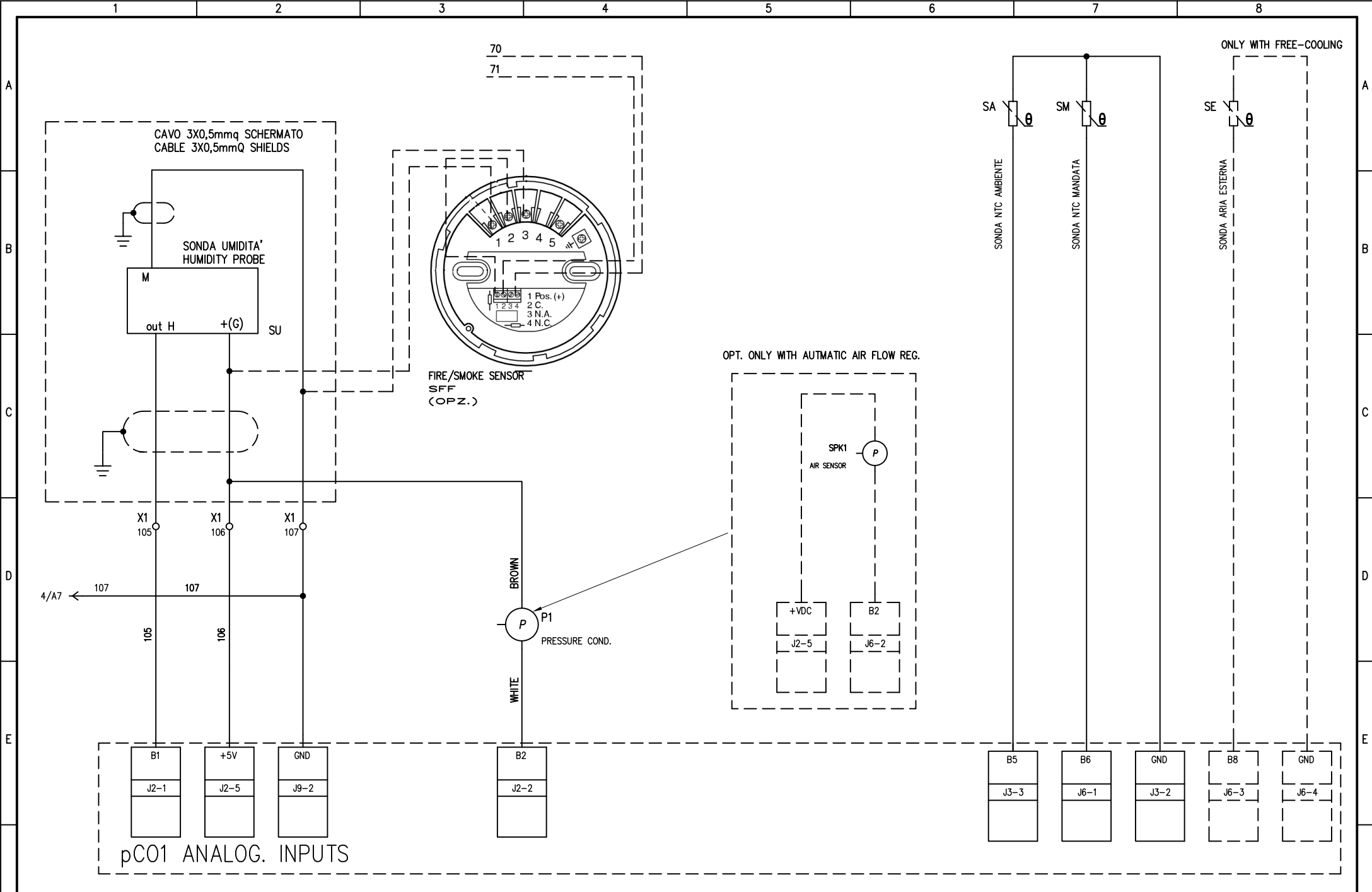
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J1-1	J1-2	J5-1	J5-2	J5-3	J5-4	J5-5	J5-6	J5-7	J5-8	J5-9	J7-1	J7-2	J7-4	J7-5	J8-4	J8-2	J8-4
24V	0V																

pC01 DIGITAL OUTPUTS



DATE 11/09/2006		DRAW. P.M.		CHECK P.M.		ORIGIN:		HF620C0560		SHEET 6 OF 22	
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:			CONTINUE 7	

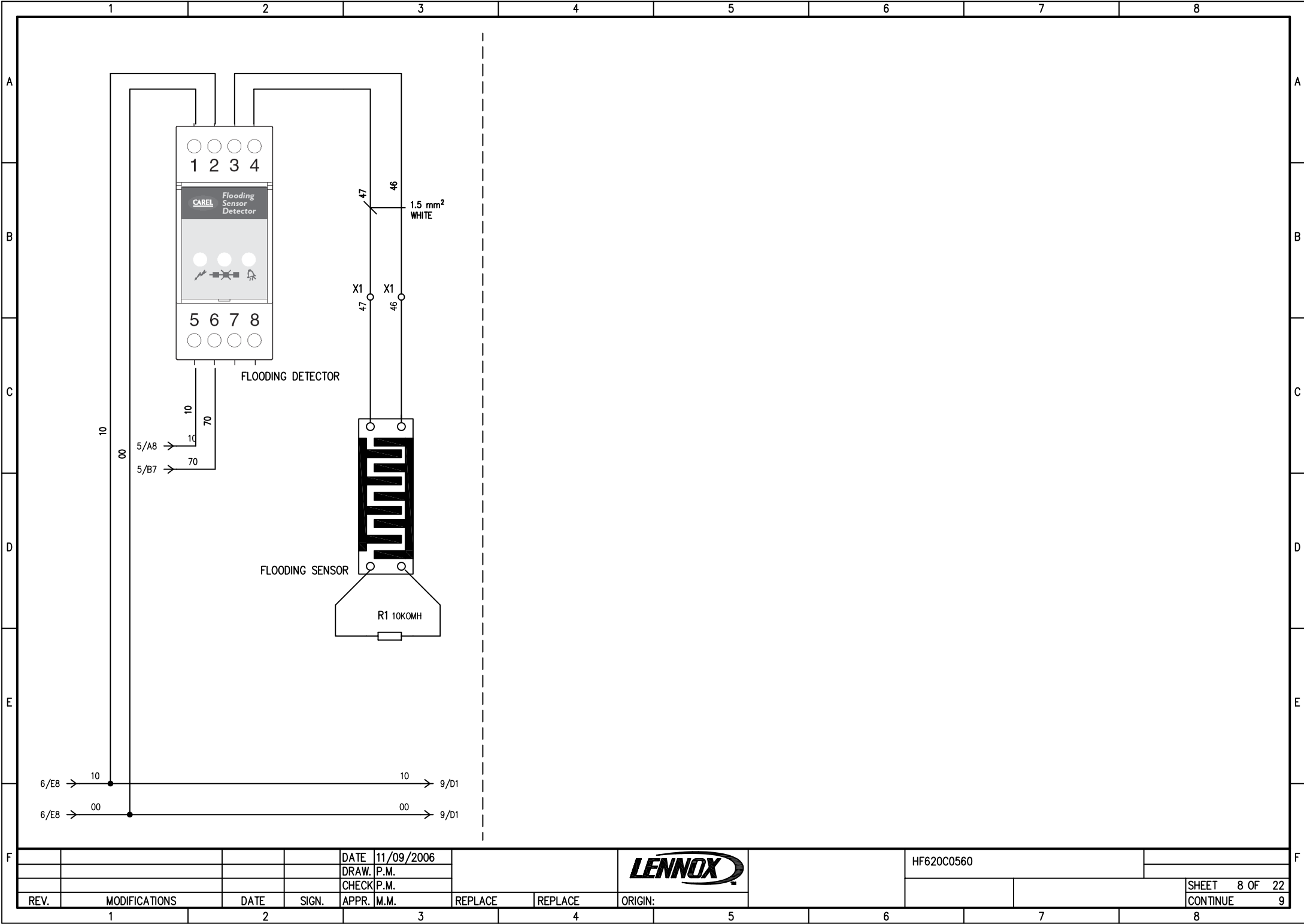




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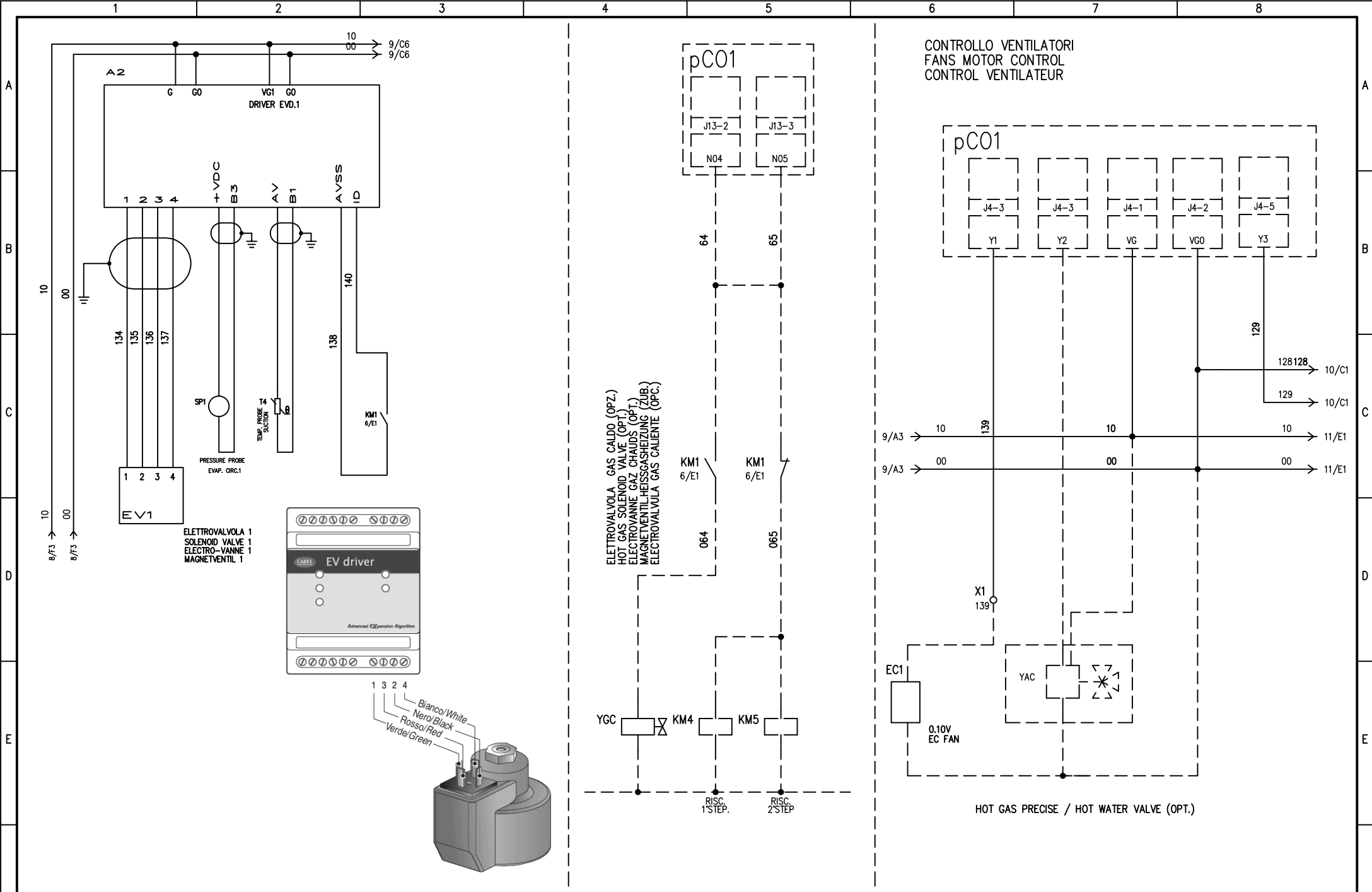
HF620C0560



DATE	11/09/2006
DRAW.	P.M.
CHECK	P.M.
REV.	MODIFICATIONS
DATE	SIGN.
APPR.	M.M.



HF620C0560



CONTROLLO VENTILATORI
FANS MOTOR CONTROL
CONTROL VENTILATEUR

ELETTROVALVOLA GAS CALDO (OPZ.)
HOT GAS SOLENOID VALVE (OPT.)
ELECTROVANNE GAZ CHAUDS (OPT.)
MAGNETVENTIL HEISSGASHEIZUNG (ZUB.)
ELECTROVALVOLA GAS CALIENTE (OPC.)

HOT GAS PRECISE / HOT WATER VALVE (OPT.)

DATE 11/09/2006

DRAW. P.M.

CHECK P.M.

APPR. M.M.

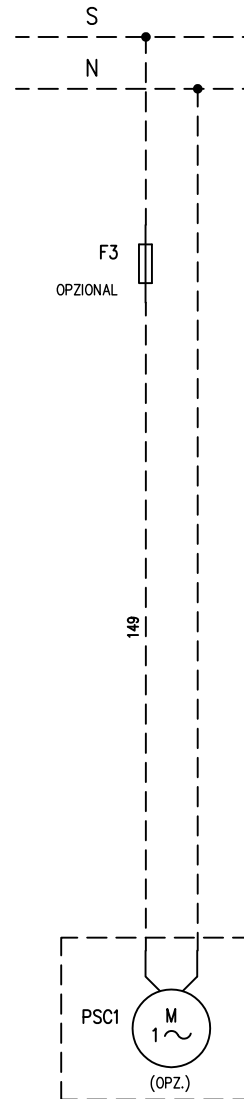
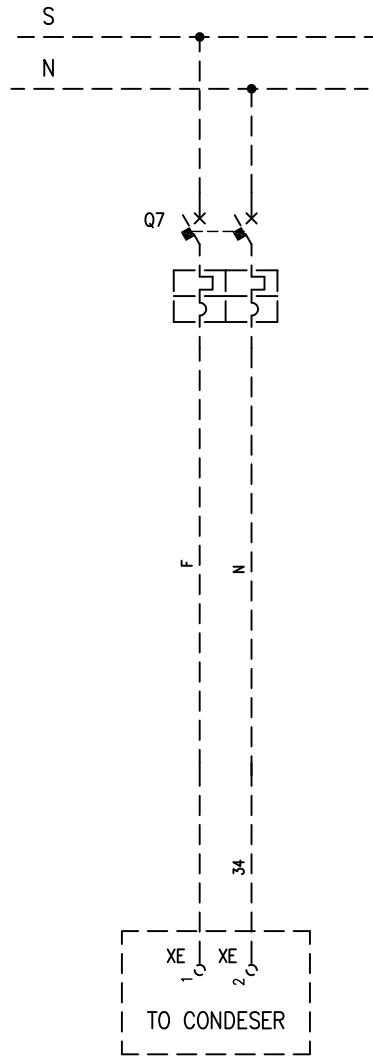
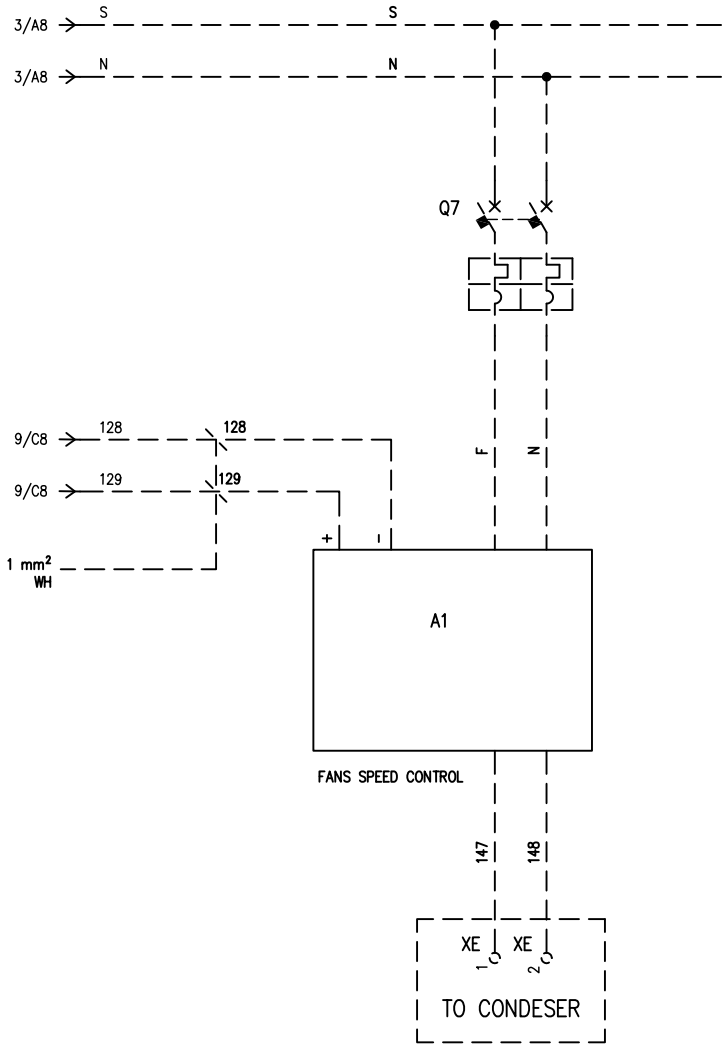


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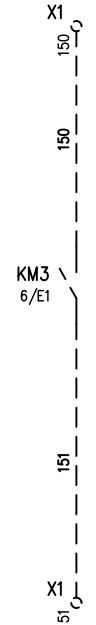
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1		2		3		4		5	6	7	8

C/CONDENSATION OPZ.

MCB OPZ.



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.)



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

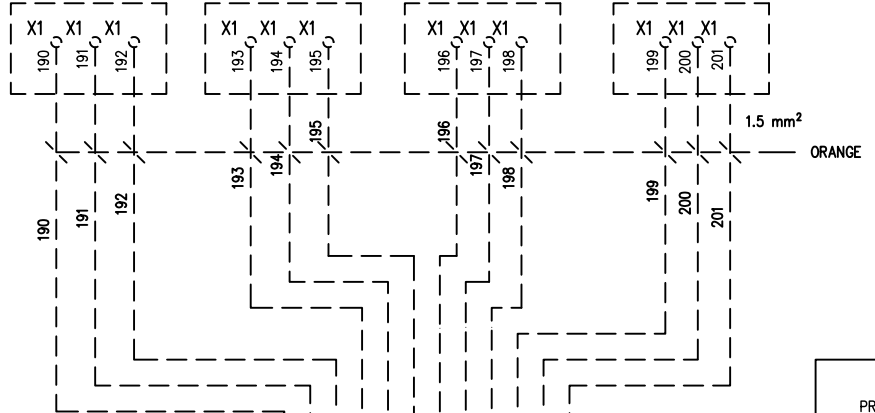
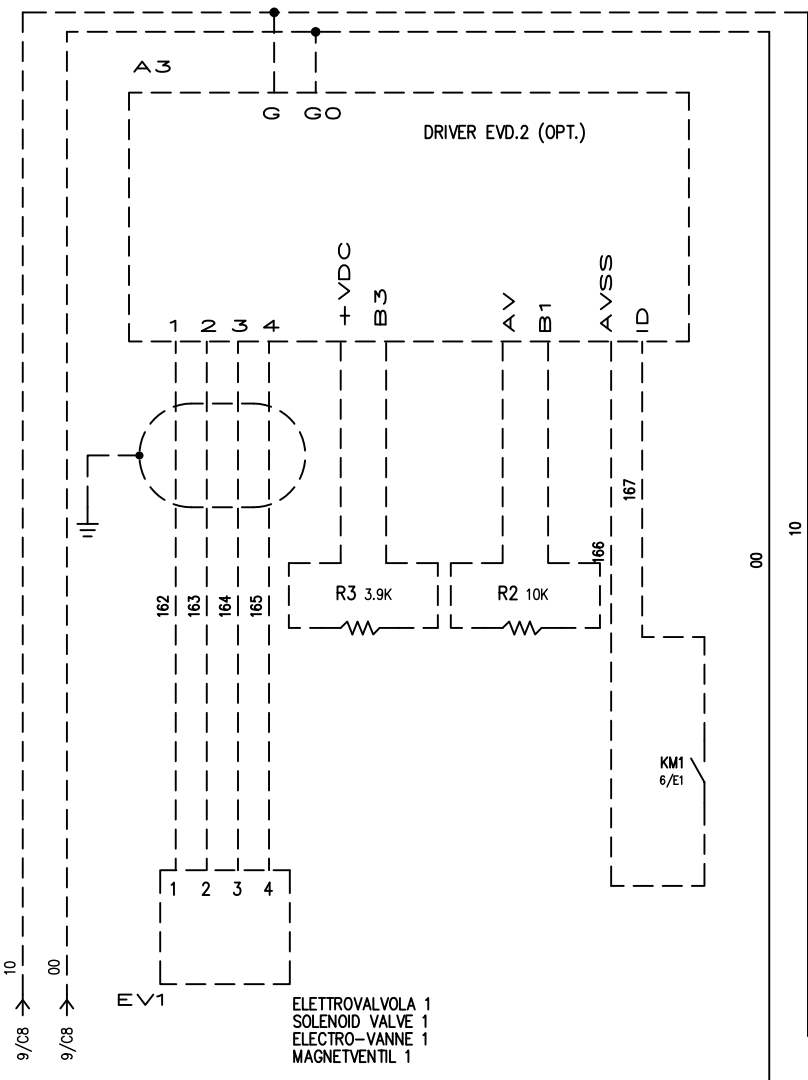
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REV.	MODIFICATIONS
DATE	SIGN.
APPR.	M.M.



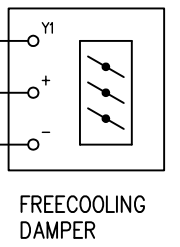
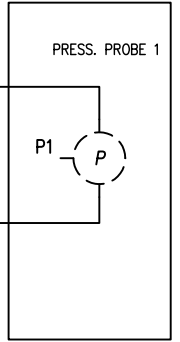
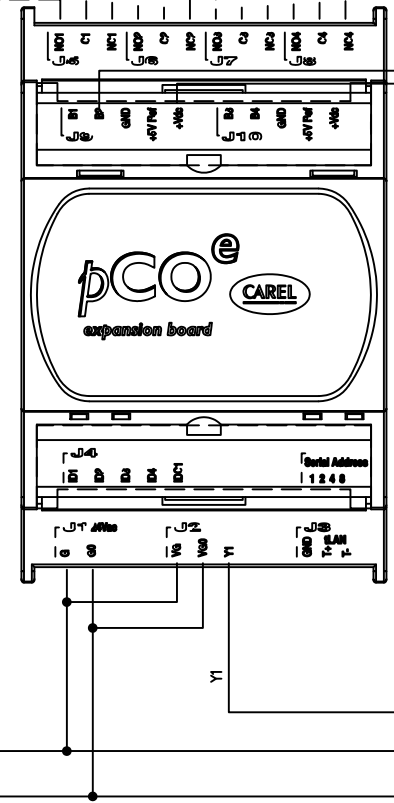
HF620C0560

ELETTRONIC MOD. VALVE FOR HOR GAS

AIR FLOW ALARM LOW TEMP. HIGH TEMP. WATER FLOODING



pCOE BOARD



ONLY WITH AIR FLOW SENSOR

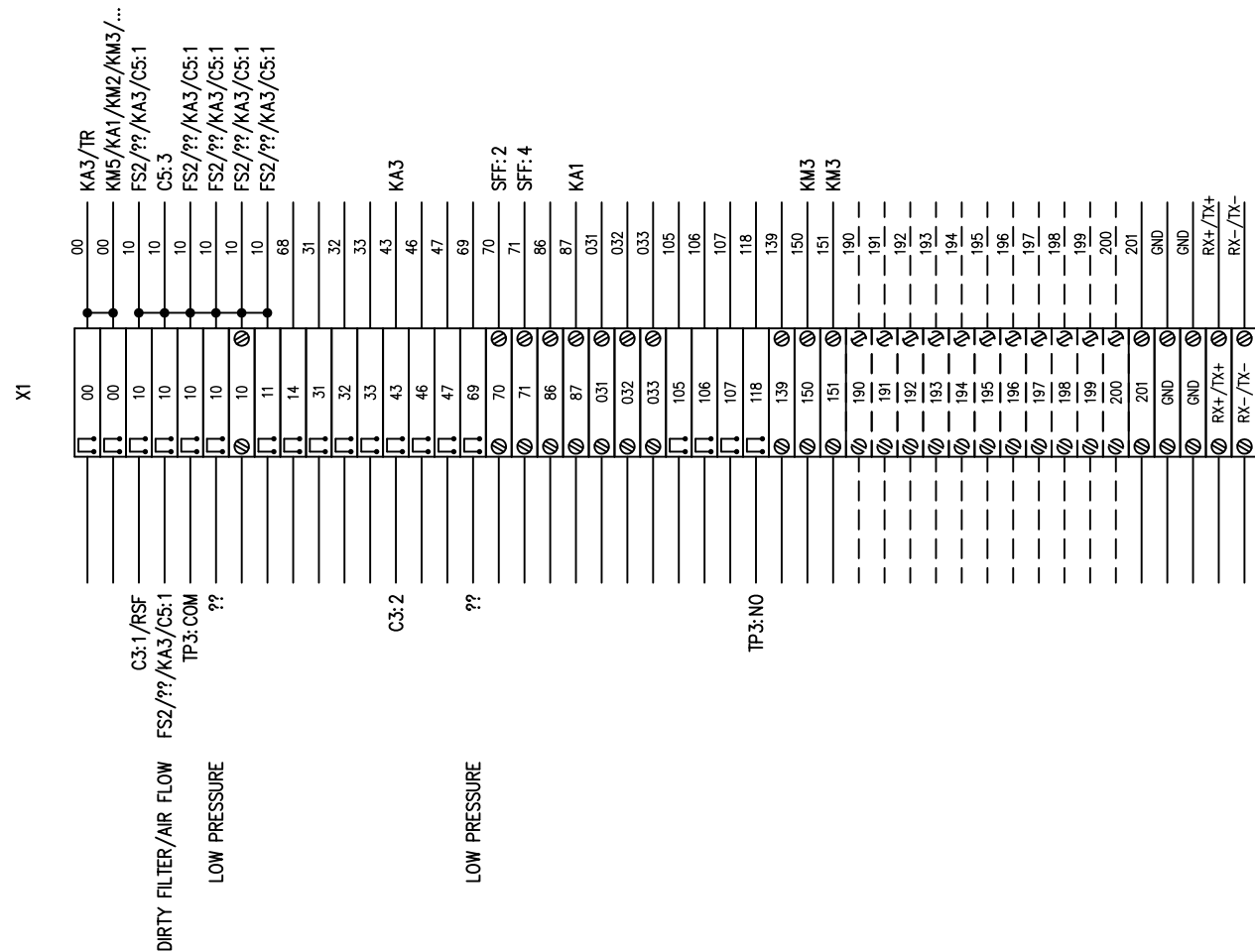
9/08 10
9/08 00

EV1
ELETTROVALVOLA 1
SOLENOID VALVE 1
ELECTRO-VANNE 1
MAGNETVENTIL 1

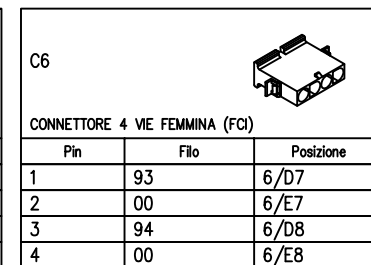
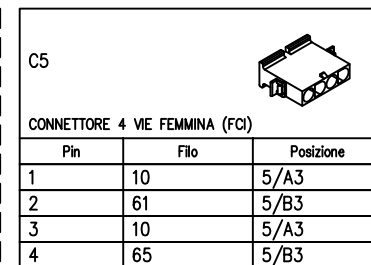
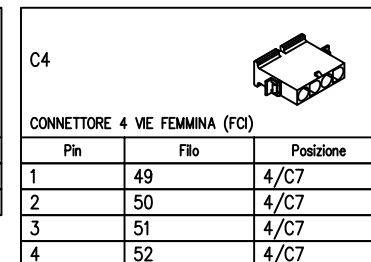
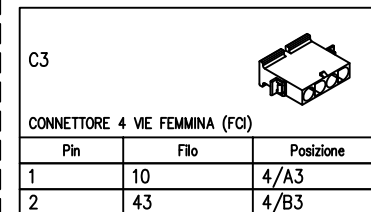
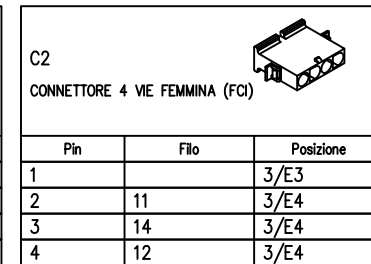
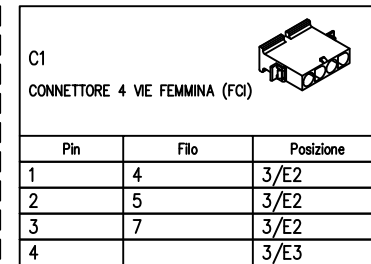
DATE 11/09/2006		DRAW. P.M.		CHECK P.M.		ORIGIN:		HF620C0560		SHEET 11 OF 22	
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:			CONTINUE 12	
1		2		3		4		5		6	



TERMINAL STRIP
BORNIER
KLEMMLEISTE
KLEMMLEISTE



CONNETTORI



DATE	11/09/2006
DRAW.	P.M.
CHECK	P.M.
REV.	MODIFICATIONS
DATE	SIGN.
APPR.	M.M.

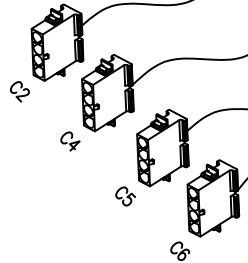


HF620C0560

LAYOUT MOD.060/080

PIASTRA DI FONDO NS. COD. HF17000909

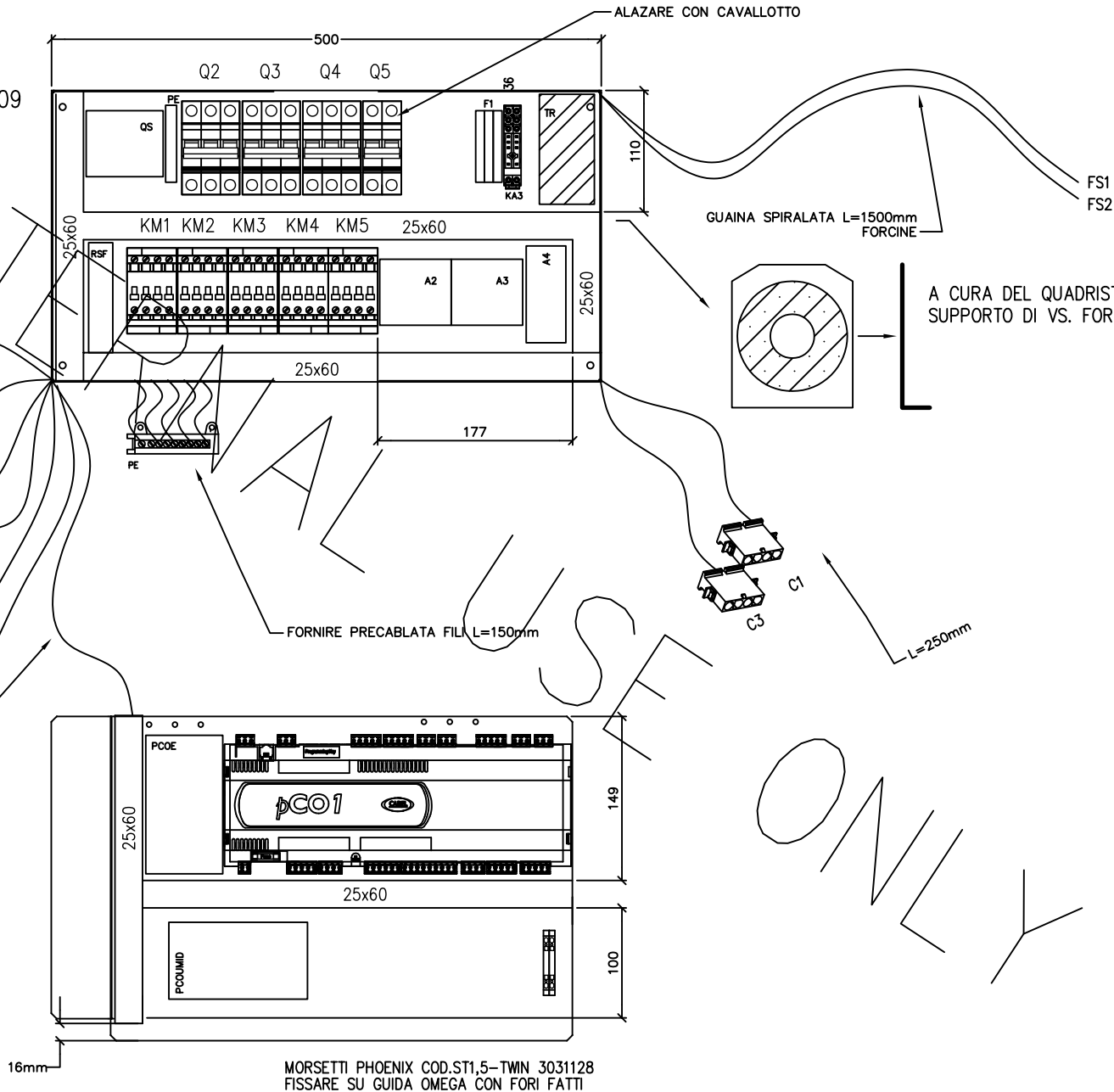
E1=USARE MORSETTI PORTAFUBILI PHOENIX UK5-HESI INTERBLOCATI



CAVO 3X1,5 NPI L=2000mm S-N

CAVO 2X0,5 NPI L=2000mm Y3-003

GUAINA SPIRALATA L=230mm



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

DATE 11/09/2006		DRAW. P.M.		CHECK P.M.		ORIGIN:		HF620C0560		SHEET 14 OF 22	
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:			CONTINUE 15	
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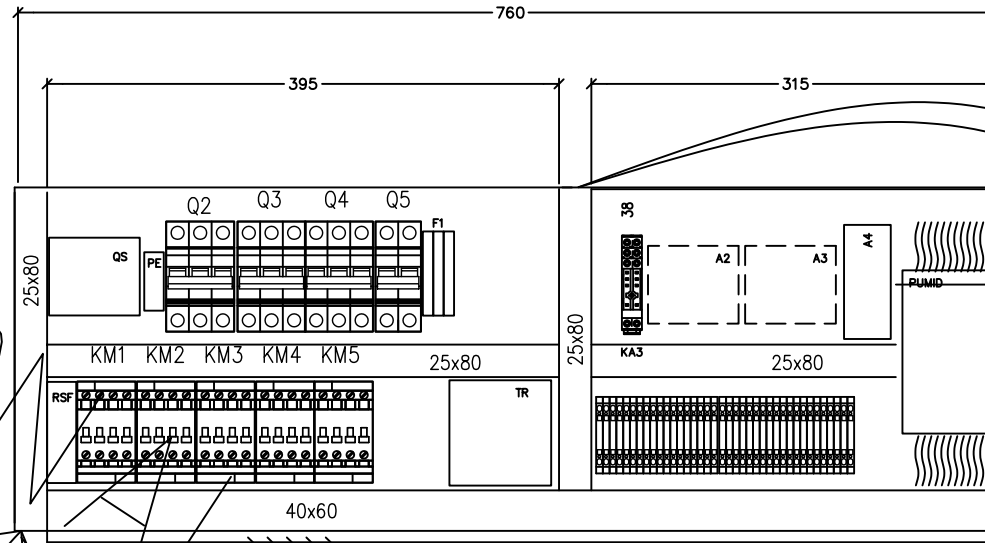


LAYOUT 100-110-130-160-190

PIASTRA DI FONDO NS. COD. HF17000756

F1=USARE MORSETTI PORTAFUBILI PHOENIX UK5-HESI INTERBLOCATI

FORNIRE I FILI ARANCONI DAL 190 AL 201 DI LUNGHEZZA 1300mm CON PUNTALINI DA UN SOLO LATO

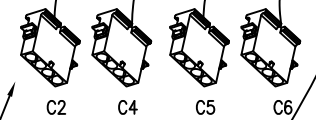


RIALZARE LA GUIDA DI 20mm PER FAR PASSARE I CAVI SOTTO

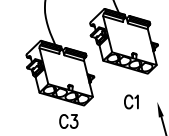
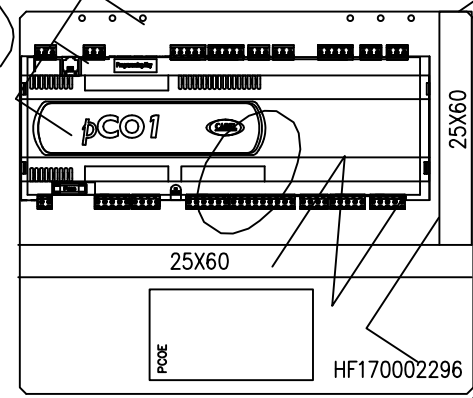
GUAINA SPIRALATA L=1800mm FORCINE

MORSETTI PHOENIX COD.ST1,5-TWIN 3031128 T1,T2 1mm ROSSO L=500mm GUAINA SPIRALATA L=230mm

FORNIRE PRECABLATA FILI L=150mm

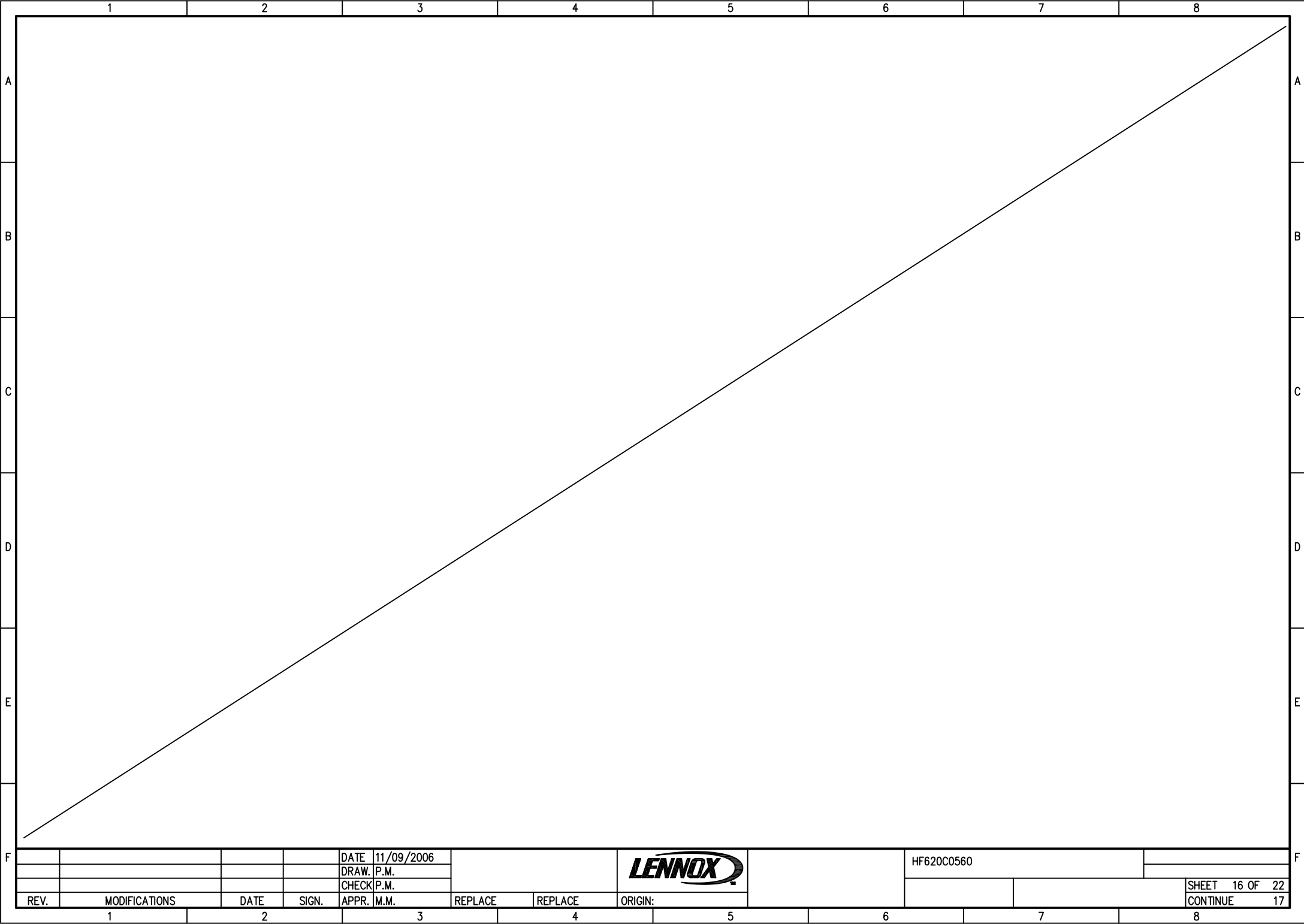


CAVO 3X1,5 NPI L=2000mm



DATE 11/09/2006		DRAW. P.M.		CHECK P.M.		ORIGIN:		HF620C0560		SHEET 15 OF 22	
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:			CONTINUE 16	
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1 2 3 4 5 6 7 8

A

A

B

B

C

C

D

D

E

E

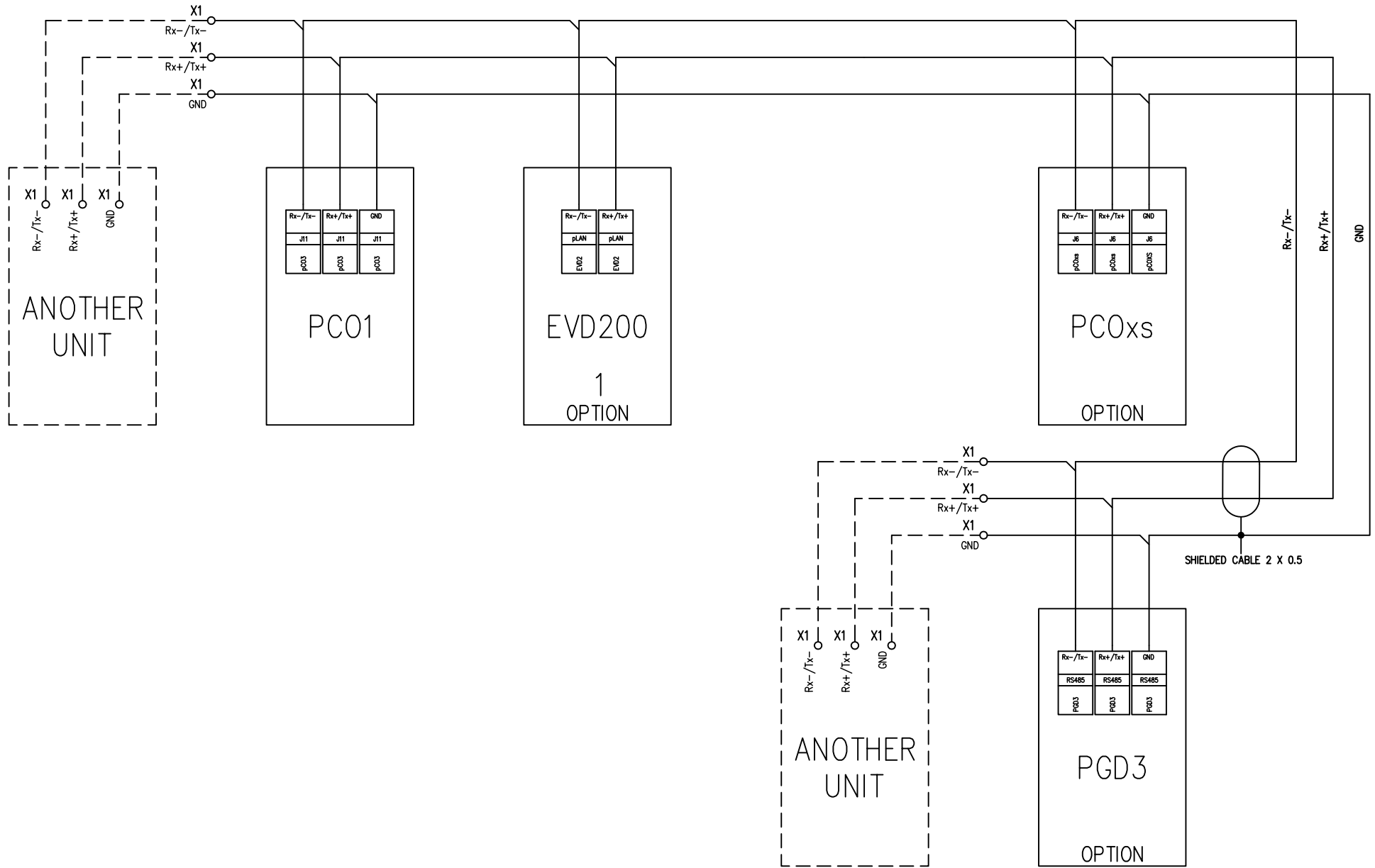
F

F

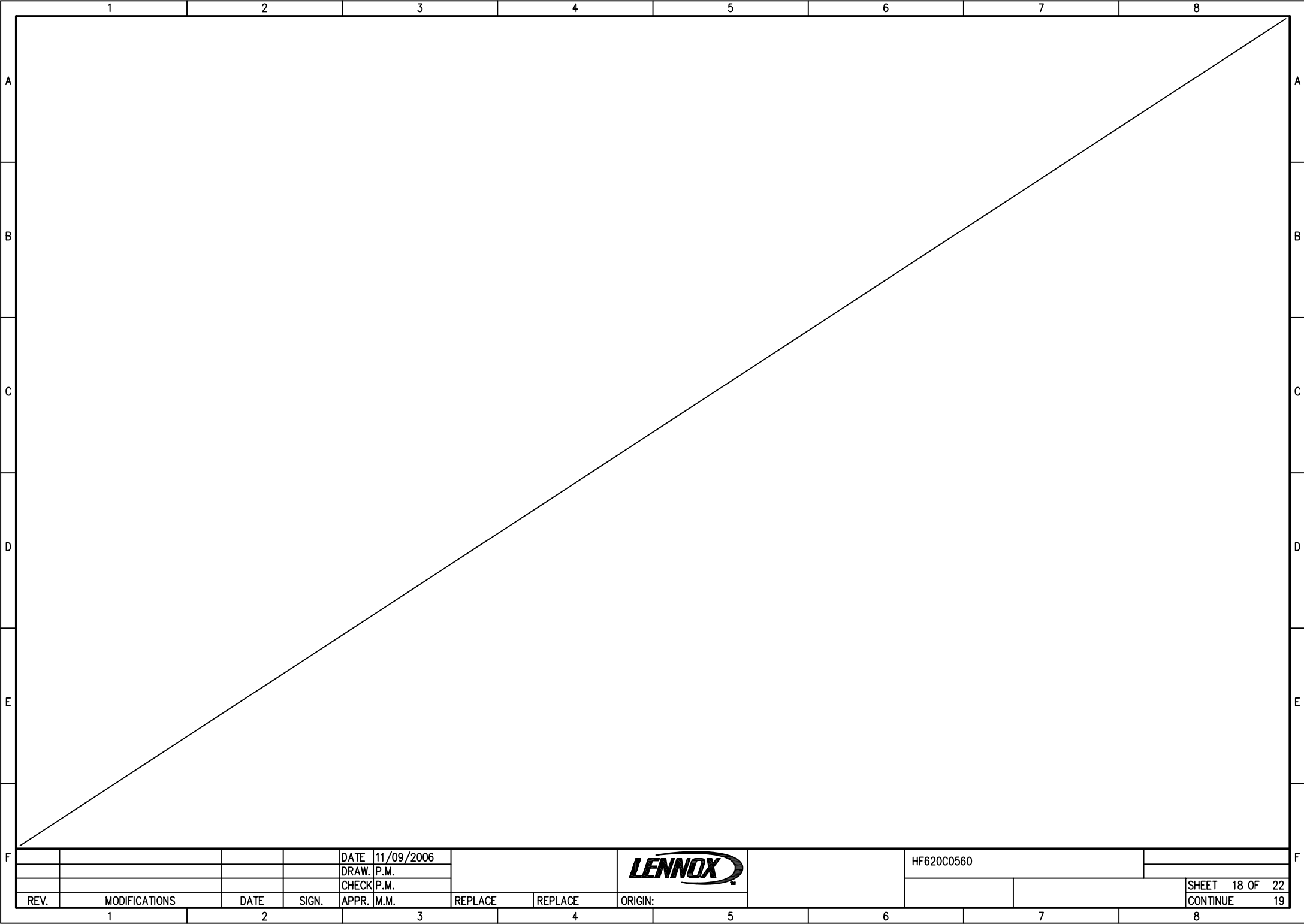
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																			CONTINUE 17

1 2 3 4 5 6 7 8

pLAN CONNECTION



				DATE	11/09/2006		LENNOX		HF620C0560					
				DRAW.	P.M.									
				CHECK	P.M.									
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.	REPLACE	REPLACE	ORIGIN:			SHEET 17 OF 22			
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	1	2	3	4	5	6	7	8
A								
B								
C								
D								
E								
F								


				DATE	11/09/2006								
				DRAW.	P.M.								
				CHECK	P.M.								
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.	REPLACE	REPLACE	ORIGIN:					SHEET 18 OF 22
													CONTINUE 19



HF620C0560


1	2		3	4	5	6	7	8	
060/080	Ref-mark	Function	Technical data	Item code	Description	Amount	M.U.	Position	
A	AP	ALTA PRESSIONE				1		4/C02	
	BP	BASSA PRESS.				1		5/A06	
	C1	COMPRESSORE				1		3/E02	
B	EV1					1		7/B05	
	EV2					1		7/B05	
	F1/2/3		4AF		FUSIBILE 5X20	1	PCE	3/D08	
	H1	UMIDIFICATORE				1		3/E06	
C									
	KA3	RELE' ALTA PRESSIONE	FINDER	40528024		1		4/E02	
	KM1	COMP.	MOELLER/AEG	LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10	1	PCE	4/E04	
D	KM2	UMIDIFICATORE	MOELLER/AEG	LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10	1	PCE	4/E06	
	KM3	VENT. EVAP.	MOELLER/AEG	LS710-55/4852	TEL. AEG LS7.10 24V/DIL00AM-10	1	PCE	4/E07	
	KM4	RISC. 1 STEP	MOELLER/AEG	LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10	1	PCE	6/B03	
	KM5	RISC. 2 STEP	MOELLER/AEG	LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10	1	PCE	6/B03	
E									
F									
				DATE	11/09/2006			HF620C0560	
				DRAW.	P.M.				
				CHECK	P.M.				
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.	REPLACE	REPLACE	ORIGIN:	
1		2		3		4		5	6
									7
									8
									SHEET 19 OF 22
									CONTINUE 20



1	2		3	4	5	6	7	8	
060-080	Ref-mark	Function	Technical data	Item code	Description	Amount	M.U.	Position	
A	M1	VENT. EVAP.				1		3/E05	
	Q2	COMPRESSORE	MOELLER/AEG	E93C16	INT.AUT.Elfa E90 3P C 16A 6kA /PLS6-C16/3	1	PCE	3/B04	
	Q3	UMID.	MOELLER/AEG	E93C06/242943	INT.AUT.Elfa E90 3P C 6A 6kA/PLS6-C6/3	1	PCE	3/B05	
B	Q4	VENT.	MOELLER/AEG	E93C06/242943	INT.AUT.Elfa E90 3P C 6A 6kA/PLS6-C6/3	1	PCE	3/B06	
	Q5	RISC.	MOELLER/AEG	E92C10/242876	INT.AUT.Elfa E90 3P C 16A 6kA/PLS6-C16/3	1	PCE	3/B07	
	QS		4X32	OT32E4		1		3/A01	
	R1	RISCALDAMENTO ELETTRIC.				1		3/E04	
C	RSF	RELE' SEQUENZA FASI				1		3/C02	
	SA	SONDA AMBIENTE				1		6/B05	
	TR		100VA		CON FUS. A BORDO	1		3/C07	
D									
E									
F									
				DATE 11/09/2006		HF620C0560			
				DRAW. P.M.					
				CHECK P.M.					
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:	SHEET 20 OF 22	
1	2	3	4	5	6	7	8	CONTINUE 21	

1	2		3	4	5	6	7	8	
100...190	Ref-mark	Function	Technical data	Item code	Description	Amount	M.U.	Position	
A	AP	ALTA PRESSIONE				1		4/C02	
	BP	BASSA PRESS.				1		5/A06	
	C1	COMPRESSORE				1		3/E02	
B	EV1					1		7/B05	
	EV2					1		7/B05	
	F1/2/3		4AF		FUSIBILE 5X20	1	PCE	3/D08	
	H1	UMIDIFICATORE				1		3/E06	
C									
	KA3	RELE' ALTA PRESSIONE		40528024		1		4/E02	
	KM1	COMP.	MOELLER/AEG	LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	4/E04	
D	KM2	UMIDIFICATORE	MOELLER/AEG	LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	4/E06	
	KM3	VENT. EVAP.	MOELLER/AEG	LS710-55/4852	TEL. AEG LS7.10 24V/DIL00AM-10 24V	1	PCE	4/E07	
	KM4	RISC. 1 STEP	MOELLER/AEG	LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	6/B03	
	KM5	RISC. 2 STEP	MOELLER/AEG	LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	6/B03	
E									
F									
				DATE	11/09/2006			HF620C0560	
				DRAW.	P.M.				
				CHECK	P.M.				
REV.	MODIFICATIONS	DATE	SIGN.	APPR.	M.M.	REPLACE	REPLACE	ORIGIN:	
1		2		3		4		5	6
									7
									8
									SHEET 21 OF 22
									CONTINUE 22



1	2		3	4	5	6	7	8	
100...190	Ref-mark	Function	Technical data	Item code	Description	Amount	M.U.	Position	
A	M1/M2	VENT. EVAP.				1		3/E05	
	Q2	COMPRESSORE	MOELLER/AEG	E93C16/242946	INT.AUT.Elfa E90 3P C 16A 6kA/PLS6-C16/3	1	PCE	3/B04	
	Q3	UMID.	MOELLER/AEG	E93C06/242943	INT.AUT.Elfa E90 3P C 06A 6kA/PLS6-C06/3	1	PCE	3/B05	
B	Q4	VENT.	MOELLER/AEG	E96C16/242949	INT.AUT.Elfa E90 3P C 16A 6kA/PLS6-C16/3	1	PCE	3/B06	
	Q5	RISC.	MOELLER/AEG	E92C20/242881	INT.AUT.Elfa E90 2P C 20A 6kA/PLS6-C20/2	1	PCE	3/B07	
	QS		4X45	OT45E4		1		3/A01	
	R1	RISCALDAMENTO ELETTRIC.				1		3/E04	
C	RSF	RELE' SEQUENZA FASI				1		3/C02	
	SA	SONDA AMBIENTE				1		6/B05	
	TR2		100VA		CON FUS. A BORDO	1		3/C07	
D									
E									
F									
				DATE 11/09/2006		HF620C0560			
				DRAW. P.M.					
				CHECK P.M.					
REV.	MODIFICATIONS	DATE	SIGN.	APPR. M.M.	REPLACE	REPLACE	ORIGIN:	SHEET 22 OF 22	
1	2	3	4	5	6	7	8	CONTINUE	