



**CARATTERISTICHE ELETTRICHE  
ELECTRIC CHARACTERISTIC**

Revisione	Oggetto	Data	Responsabile	Foglio
A	REVISIONE GENERALE	15/03/2005	POLIDO	1

SERIE	DHAD/UC 060...190-mAC
MODEL	DHAD/UC060...190 400V+N
ELECTRIC CHARACTERISTIC	

J-REF F

	P totale [kW]	OA I nominale [A]	FLA I massima [A]	LRA I spunto [A]
JREF 1-060	1.88	5.2	7.7	24
JREF 2-080	2.33	6.2	8.6	32
JREF 3-0100	2.99	9.3	12.6	40
JREF 4-0110	3.4	9.9	14.0	46
JREF 5-0130	3.97	11.0	17.0	50
JREF 6-0160	5.13	13.5	22.9	65.5
JREF 7-0190	5.78	14.2	24.5	74

J-REF F+U

	P totale [kW]	OA I nominale [A]	FLA I massima [A]	LRA I spunto [A]
JREF 1-060	4.13	8.4	10.9	24
JREF 2-080	4.58	9.4	11.8	32
JREF 3-0100	5.24	12.5	15.8	40
JREF 4-0110	5.65	13.1	17.2	46
JREF 5-0130	6.22	14.2	20.2	50
JREF 6-0160	7.38	16.7	26.1	65.5
JREF 7-0190	8.03	17.4	27.7	74

J-REF F+C

	P totale [kW]	OA I nominale [A]	FLA I massima [A]	LRA I spunto [A]
JREF 1-060	3.88	13.9	16.4	24
JREF 2-080	4.33	14.9	17.3	32
JREF 3-0100	6.99	26.7	30.0	40
JREF 4-0110	7.4	27.3	31.4	46
JREF 5-0130	7.97	28.4	34.4	50
JREF 6-0160	9.13	30.9	40.3	65.5
JREF 7-0190	9.78	31.6	41.9	74

J-REF F+C+U

	P totale [kW]	OA I nominale [A]	FLA I massima [A]	LRA I spunto [A]
JREF 1-060	6.13	17.1	19.6	24
JREF 2-080	6.58	18.1	20.5	32
JREF 3-0100	9.24	29.9	33.2	40
JREF 4-0110	9.65	30.5	34.6	46
JREF 5-0130	10.22	31.6	37.6	50
JREF 6-0160	11.38	34.1	43.5	65.5
JREF 7-0190	12.03	34.8	45.1	74

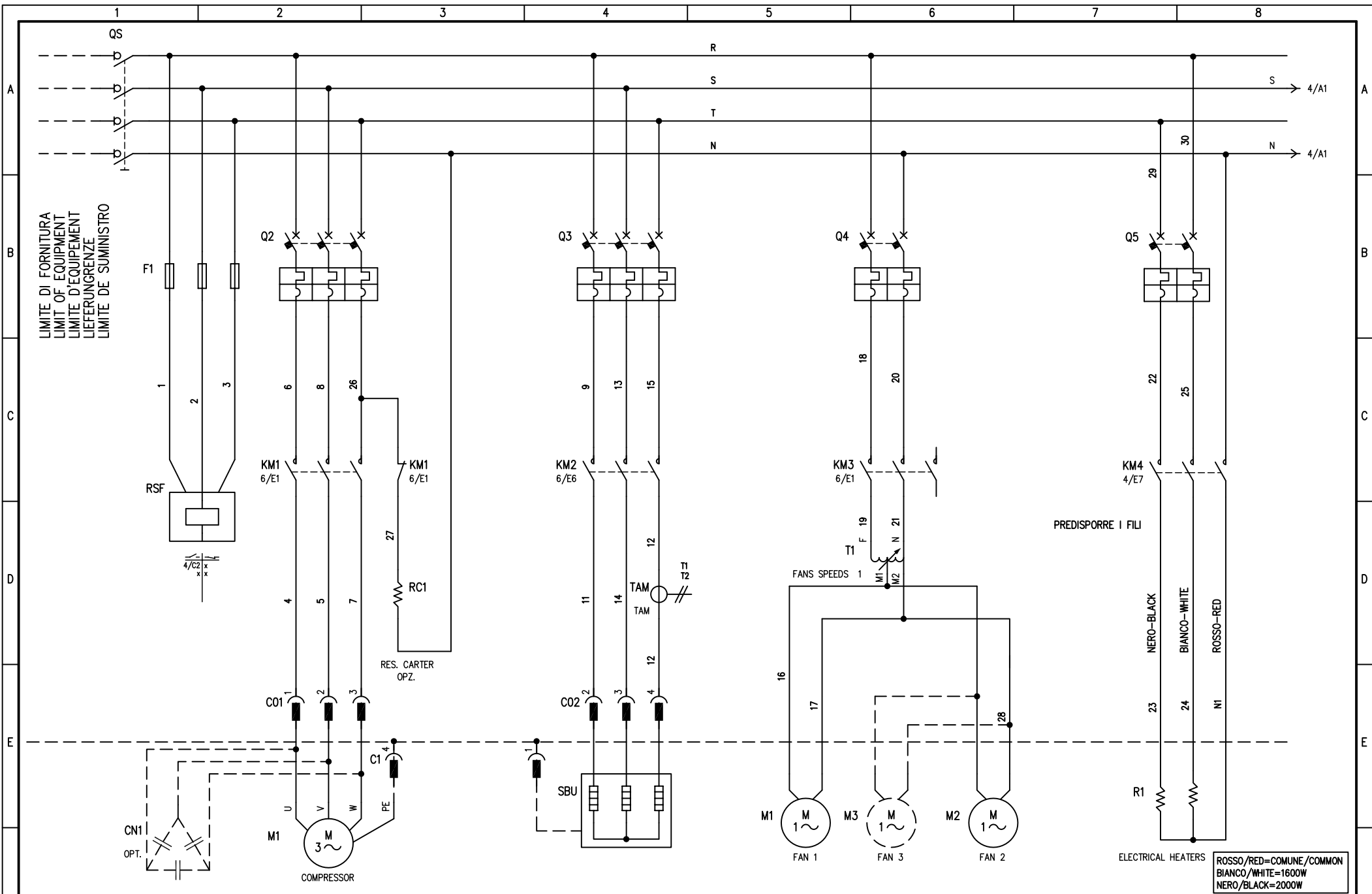
VERS.

"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

A	REVISIONE GENERALE	15/03/2005	POLIDO	DATE	25/07/2004		HF620C0221	
				SIGN.				
				CONT.				
REV.	MODIFIED	DATE	SIGN.	APPR.	SOST. IL:	SOST. DA:	ORIGINE:	SHEET 1 OF 23 CONTINUE 2

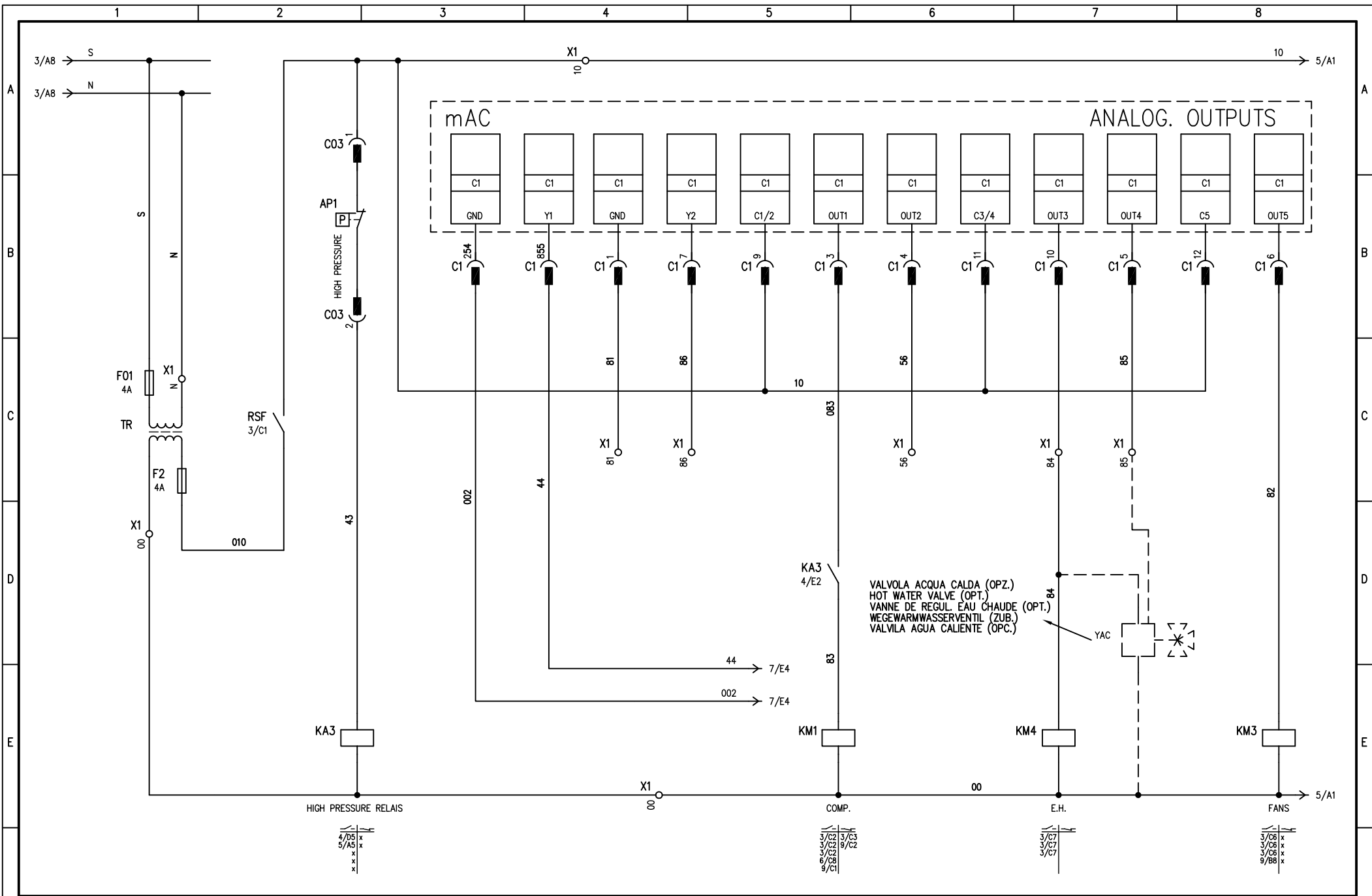
1	2		3		4		5		6		7		8			
A	SIGN.	Descriptions		Note				SIGN.	Descriptions		Note					
	B	AP1	PRESSOSTATO DI ALTA HIGH PRESSURE P-STAT PRESSOSTAT HAUTE PRESSION DRUCKSCHALTER, HOCHDRUCK PRESOSTATO DE ALTA						RSF	RELE' SEQUENZA FASE PHASE SEQUENCE CONTROL RELAY RELAIS DE CONTROLE DE PHASE D'ETAGE STEURRELAIS FUER PHASENFOLGE RELE' CONTROL SECCUENCIA FASES						
		KA3	RELE' ALTA HI-PRESSURE RELAIS RELAIS HAUTE PRESSION RELAIS HOCHDRUCK RELE DE ALTA						SR1	SERRANDA DAMPER REGISTRE MOTORISIERTE COMPUERTA						
		KM1	CONTATTORI COMPRESSORE COMPRESSOR CONTACTORS CONTACTEUR COMPRESSEUR SCHUTZ VENDICHTER CONTACTOR DEL VENTILADOR						FS1	PRESSOSTATO FLUSSO ARIA AIR FLOW PRESSURE SWITCH PRESSOST. D'ENCRASSEMENT DE FILTRE DRUCKSCHALTER NIEDERDRUCK PRESOSTATO DE BAJA						
		KM2	CONTATORE UMIDIFICATORE HUMIDIFIER CONT. CONT. HUMIDIFICATEUR BEFEUCHTER VERSORGUNG CONT. HUMIDIFICADOR						TP1 TP2	THERMOSTATO SICUREZZA RISCALDAMENTO HEATING SAFETY THERMOSTAT THERMOSTAT DE SECURITE' CHAUFFAGE THERMOSTATE ELEKTROHEIZUNG THERMOSTATO DE SEGURIDAD DE LAS RESISTENCIAS						
		KM3	CONTATORE MOTOVENTILATORE FAN MOTOR CONECTOR CONTACTEUR VENTILATEUR VENTILATOR SCHUETZ CONTACTOR DEL MOTOVENTILADOR						P1	PRESSIONE CONDENSANZIONE CONDENSING PRESSION SENSOR SONDE DU PRESSION DE CONDENSATION KONDENSATIONSDRUCK-FUEHLER SONDA PRESSION CONDENSACION						
		C	KM4	RISCALDAMENTO ELETTRICO EL. HEATERS CHAUFFAGE ELECTRIQUE ELETR. HAIZUNG RESISTENCIAS ELETRICAS						SA	TEMPERATURA AMBIENTE INTERNO SHELTER INTERNAL AIR TEMPERATURE SENSOR SONDE TEMPERATURE D'AIR EINTERIOR AUSSERER LUFTEMP.-FILTER SONDA DE TEMPERATURA DE LA DESCARGA DE AIRE					
			C1 C2	COMPRESSORE COMPRESSOR COMPRESSEUR KOMPRESSOR COMPRESOR						SM	TEMPERATURA ARIA IN MANDATA DISCHARGE AIR TEMPERATURE SONDE DE TEMPERATURE ZULUFTTEMPERATUR TEMP. DE LA DISCARGA DE AIRE					
			TR	TRASFORMATORE TRANSFORMER TRANSFORMATEUR TRANSFORMATOR TRANSFORMADOR						SE	TEMPERATURA ARIA ESTERNA OUTDOOR AIR SENSOR SONDE D'AIR EXTERNE AUSSENLUFTUEHLER SONDA DE AIRE EXTERNA					
		D	QS	INTERRUTTORE GENERALE MAIN SWITCH INTERRUPTEUR GENERAL HAUPTSCHALTER INTERRUPTOR GENERAL						BP1	PRESSOSTATO DI BASSA LOW PRESSURE P-STAT PRESSOSTAT BASSE PRESSION DRUCKSCHALTER NIEDERDRUCK PRESOSTATO DE BAJA					
M1 M2 M3			MOTOVENTILATORE EVAPORANTE EVAP. FAN MOTOR MOTEUR VENTILATEUR DE EVAP. EVAP.-LUEFTER MOTOVENTILADOR EVAPORADORA						K1	REGOLATORE DI VELOCITA' SPEED CONTROLLER REGULATEUR DE VITESSE VENTILATOR/DREHZAHGREGLER REGULADOR VELOCIDAD						
CN1	COND. DI RIFASAMENTO POWER FACT. CORRECTION COND. CORRECT. COS. PHI KOND. KORR. COS. PHI COND. DE COMP. DE FASES						FS2	PRESSOSTATO FILTRI SPORCHI CLOGGED FILTER PRESSURE SWITCH PRESSOSTAT D'ENCRASSEMENT DE FILTRE DRUCKSCHALTER. FILTERVERSCHMUTZUNG PRESSOSTATO FILTROS SUCIOS								
E								R1 R2	RISCALDAMENTO ELETTRICO EL. HEATERS CHAUFFAGE ELECTRIQUE ELETR. HAIZUNG RESISTENCIAS ELETRICAS							
F																
				DATE	25/07/2004											
				SIGN.												
				CONT.												
REV.	MODIFIED	DATE	SIGN.	APPR.		SOST. IL:	SOST. DA:	ORIGINE:								
1	2	3	4	5	6	7	8									
										HF620C0221						
												SHEET 2 OF 23				
												CONTINUE 3				



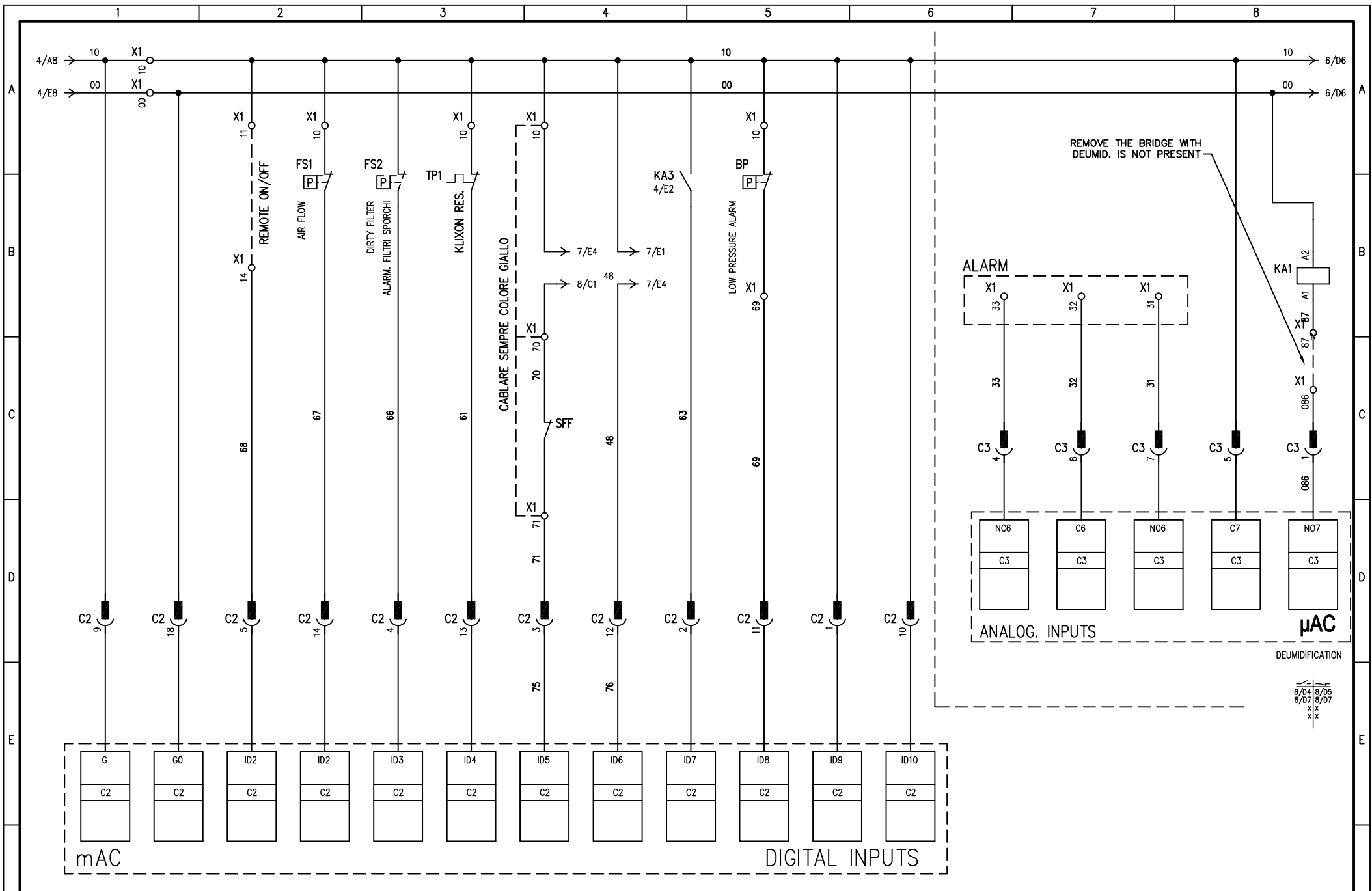


DATE 25/07/2004		SIGN.		CONT.		SOST. IL:		SOST. DA:		ORIGINE:		HF620C0221	
REV.	MODIFIED	DATE	SIGN.	APPR.								SHEET 3 OF 23	
												CONTINUE	4

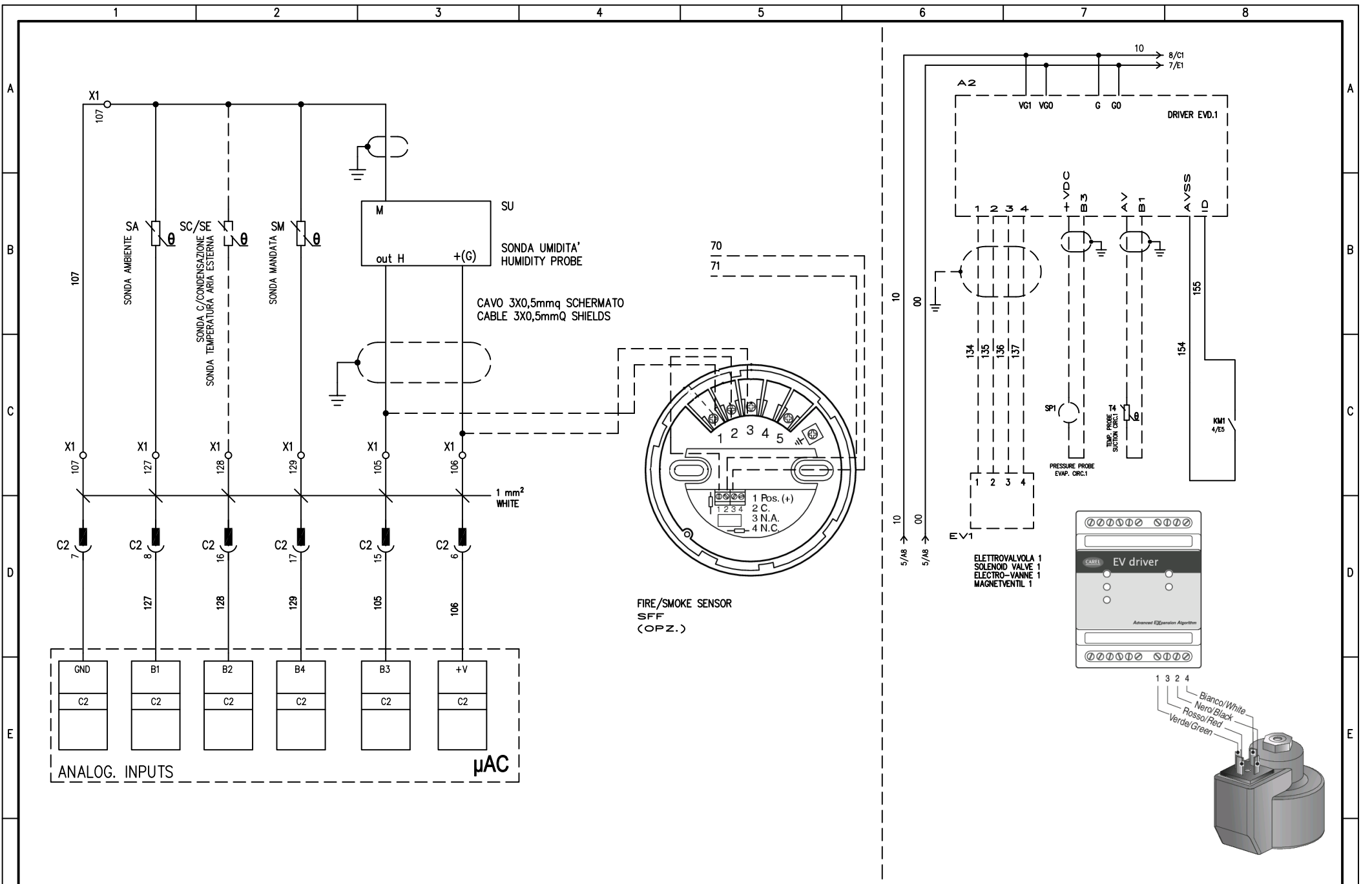


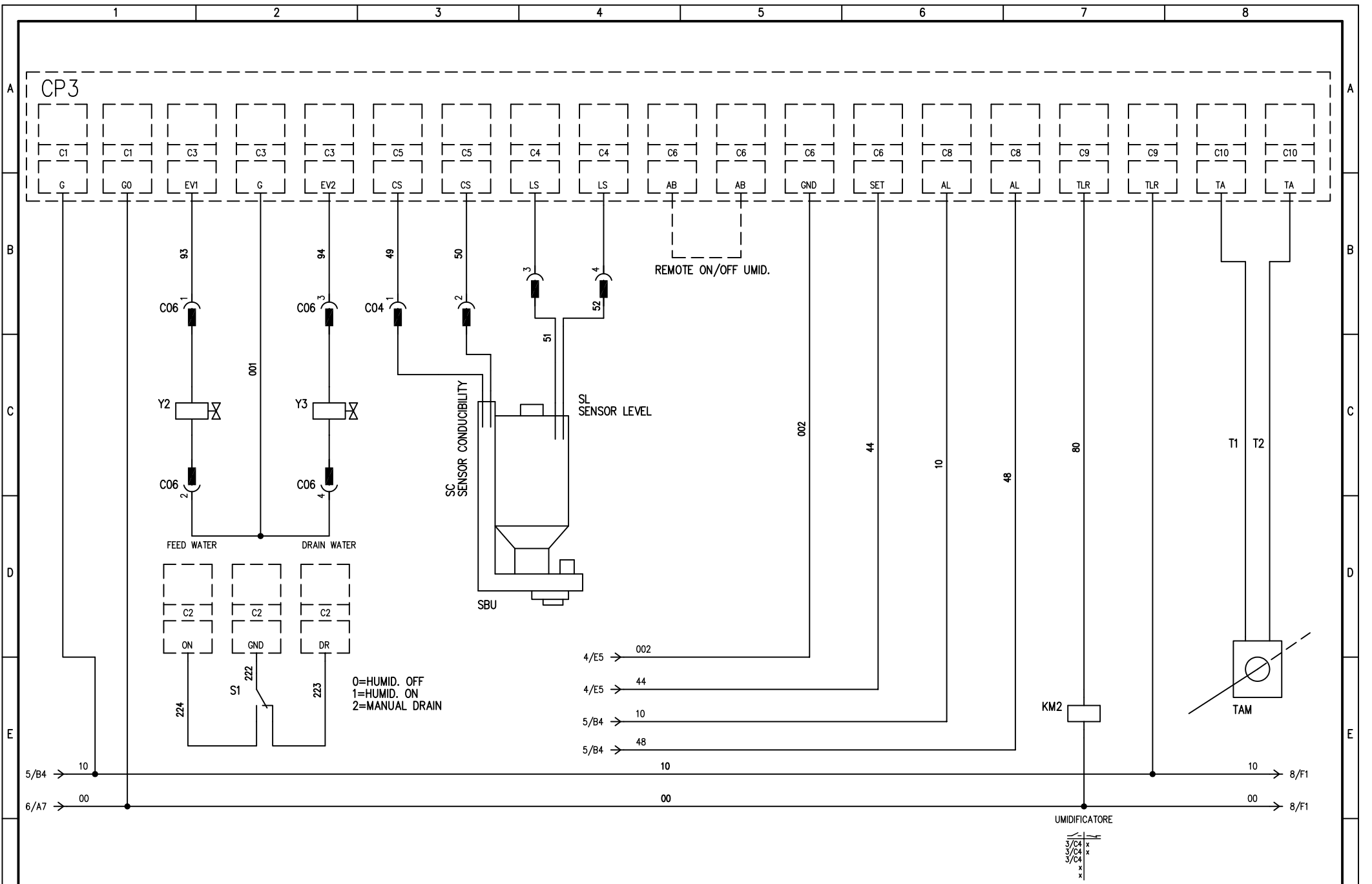


		DATE 25/07/2004				HF620C0221					
		SIGN.									
		CONT.									
REV.	MODIFIED	DATE	SIGN.	APPR.	SOST. IL:	SOST. DA:	ORIGINE:			SHEET 4 OF 23	
1		2		3		4	5	6	7	CONTINUE 5	



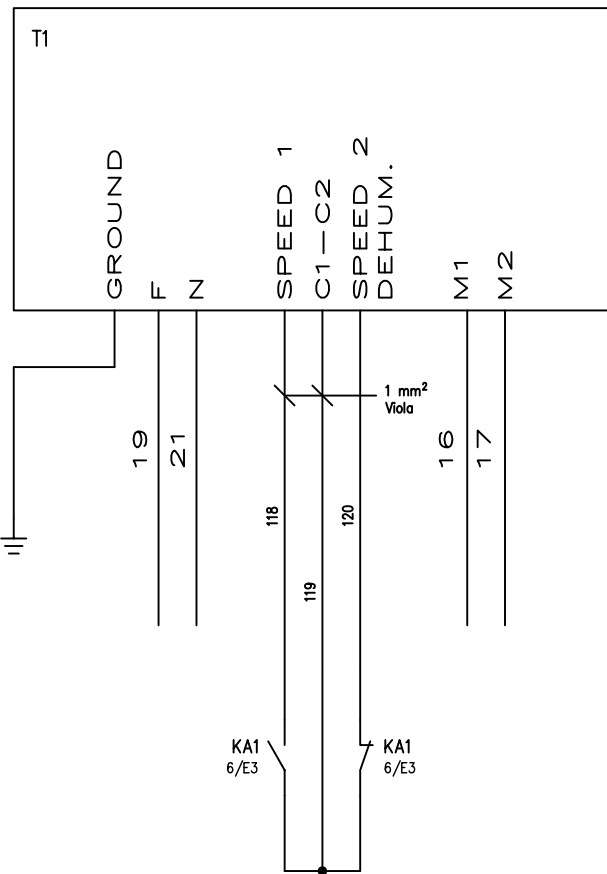
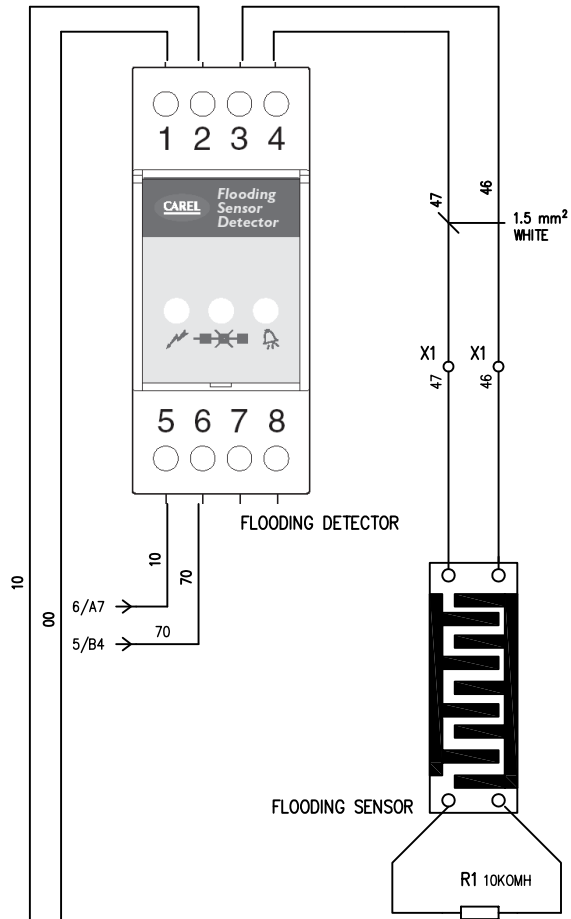
				DATE	25/07/2004				HF620C0221			
				SIGN.								
				CONT.								
REV.	MODIFIED	DATE	SIGN.	APPR.	SOST. IL:	SOST. DA:	ORIGINE:			SHEET 5 OF 23		
										CONTINUE 6		





		DATE 25/07/2004		<b>LENNOX</b>		HF620C0221					
		SIGN.									
		CONT.									
REV.	MODIFIED	DATE	SIGN.	APPR.	SOST. IL:	SOST. DA:	ORIGINE:				
1		2		3		4		5	6		
								SHEET 7 OF 23			
								CONTINUE 8			

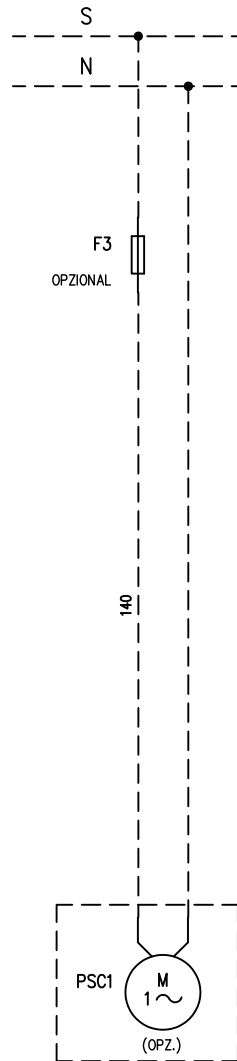
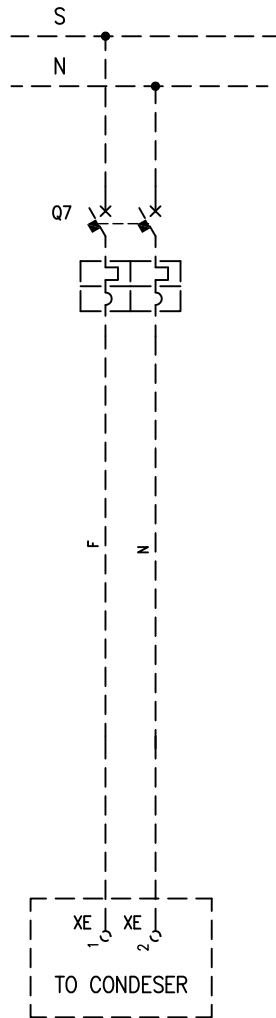
FANS SPEED CONTROL 1



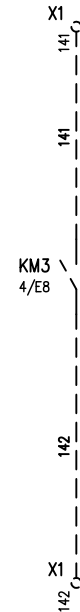
				DATE	25/07/2004					HF620C0221				
				SIGN.										SHEET 8 OF 23
REV.	MODIFIED	DATE	SIGN.	APPR.		SOST. IL:	SOST. DA:	ORIGINE:					CONTINUE	9
1		2		3		4		5	6	7	8			



MCB OPZ.



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



INTERNAL NOTE: INSTALLARE MORSETTI

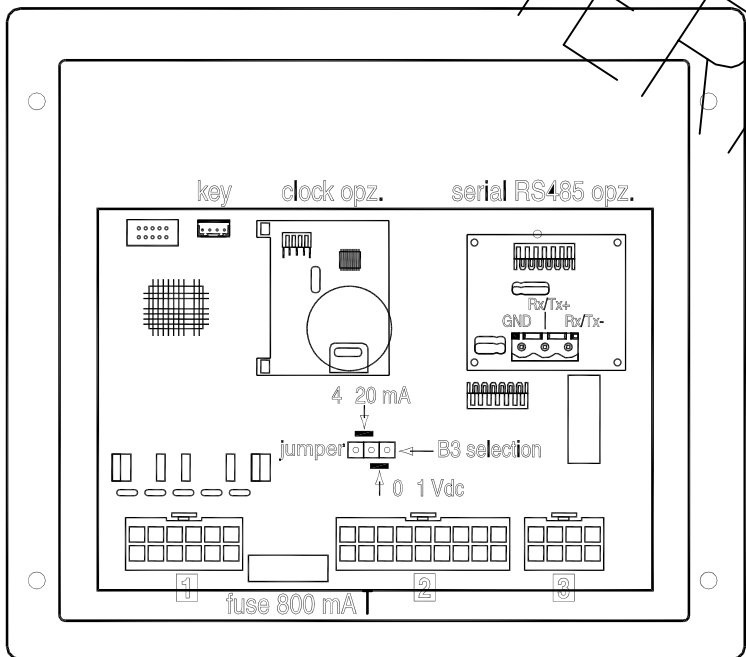
SEGNALAZIONE DELLO STATO DELL'UNITA' (OPZ.)  
 UNIT STATUS SIGNAL (OPT.)  
 ETAT DES SIGNAUX DE L'UNITE' (OPT.)  
 STATUSMELDEKONTAKT (ZUB.)  
 SENALIZACION DEL ESTADO DE LA UNIDAD (OPC.)

				DATE	25/07/2004				HF620C0221			
				SIGN.								
				CONT.								SHEET 9 OF 23
REV.	MODIFIED	DATE	SIGN.	APPR.	SOST. IL:	SOST. DA:	ORIGINE:					CONTINUE 10
1		2		3		4		5	6	7	8	



LAYOUT BOARD

CONNETTORI



C1

Pin	Filo	Posizione
1	81	4/B4
2	002	4/B3
3	083	4/B5
4	56	4/B6
5	85	4/B7
6	82	4/B8
7	86	4/B5
8	44	4/B4
9	10	4/B5
10	84	4/B7
11	10	4/B6
12	10	4/B8

C2

Pin	Filo	Posizione
1	10	5/D5
2	63	5/D5
3	71	5/D4
4	66	5/D3
5	68	5/D2
6	106	6/D3
7	107	6/D1
8	127	6/D1
9	10	5/D1
10	10	5/D6
11	69	5/D5
12	48	5/D4
13	61	5/D3
14	67	5/D2
15	105	6/D3
16	128	6/D2
17	129	6/D2
18	00	5/D1

C3

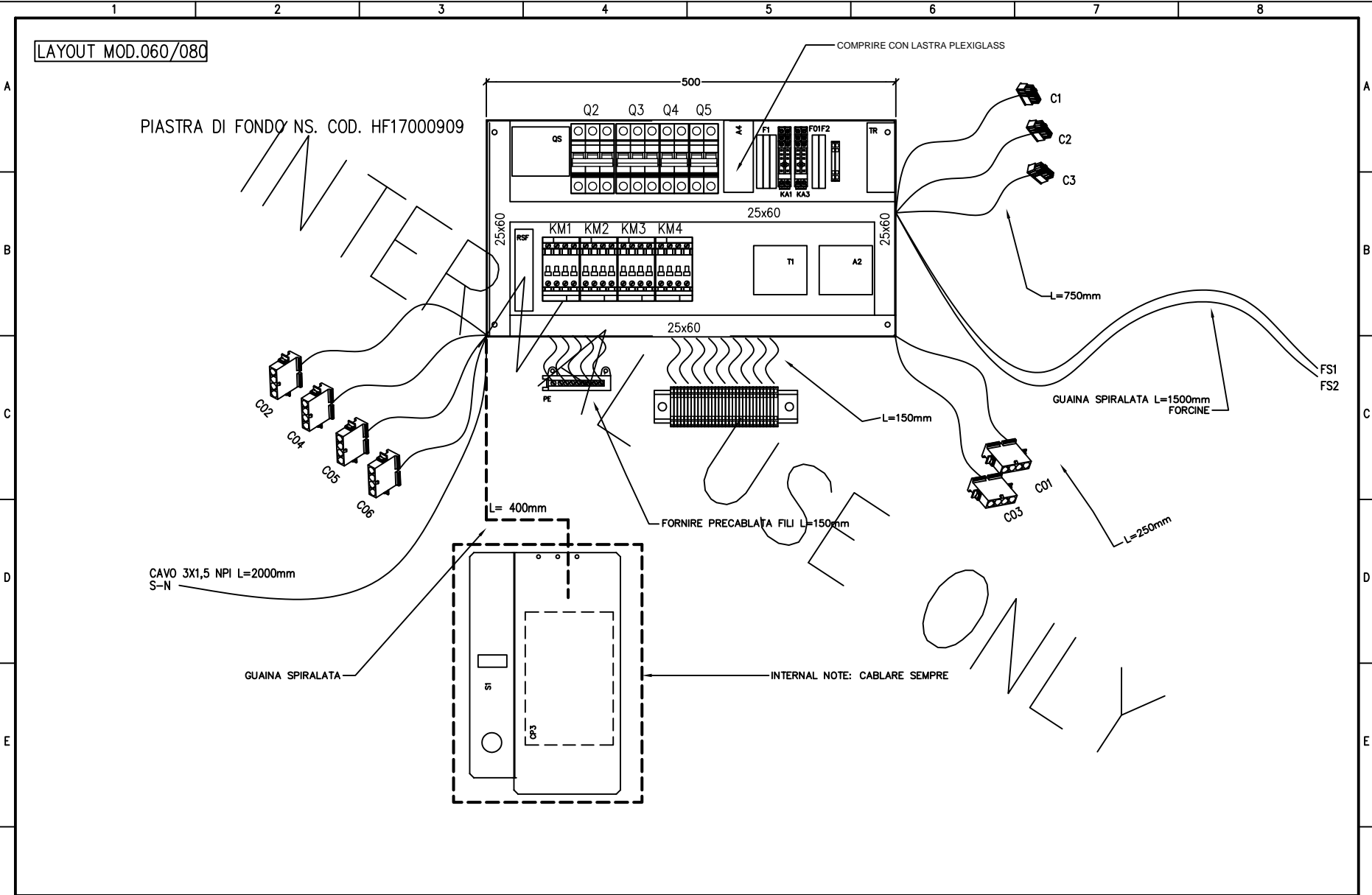
Pin	Filo	Posizione
1	086	5/C8
4	33	5/C6
5	10	5/C8
7	31	5/C7
8	32	5/C7

SALES ONLY

LAYOUT MOD.060/080

PIASTRA DI FONDO NS. COD. HF17000909

COMPRIRE CON LASTRA PLEXIGLASS



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

GUAINA SPIRALATA

L= 400mm

FORNIRE PRECABLATA FILI L=150mm

L=150mm

L=750mm

GUAINA SPIRALATA L=1500mm FORCINE

L=250mm

INTERNAL NOTE: CABLARE SEMPRE

				DATE	25/07/2004								
				SIGN.									
				CONT.									
REV.	MODIFIED	DATE	SIGN.	APPR.	SOST. IL:	SOST. DA:	ORIGINE:					SHEET 12 OF 23	
1		2		3	4	5	6	7	8			CONTINUE 13	

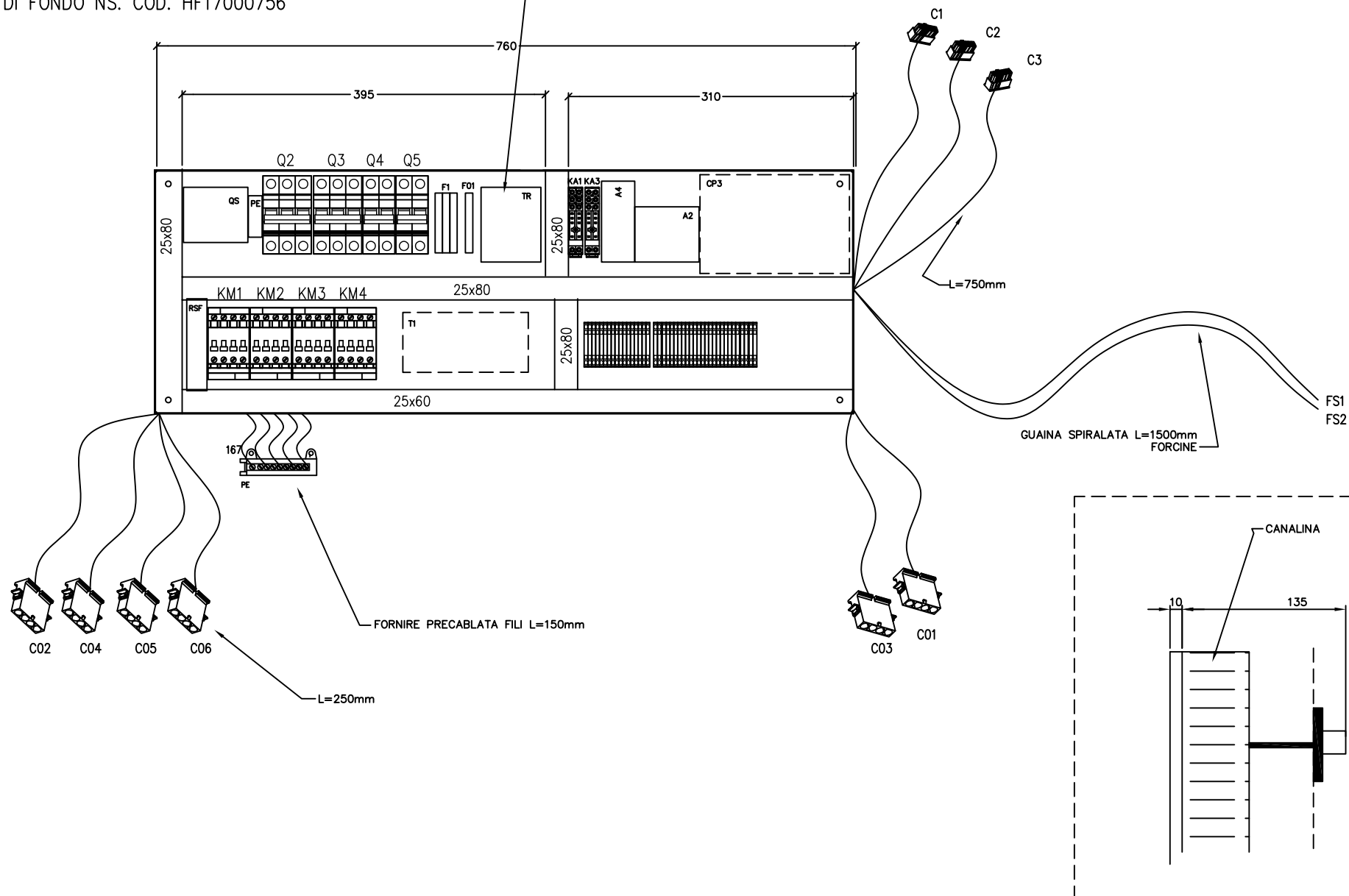


HF620C0221

LAYOUT 100-110-130

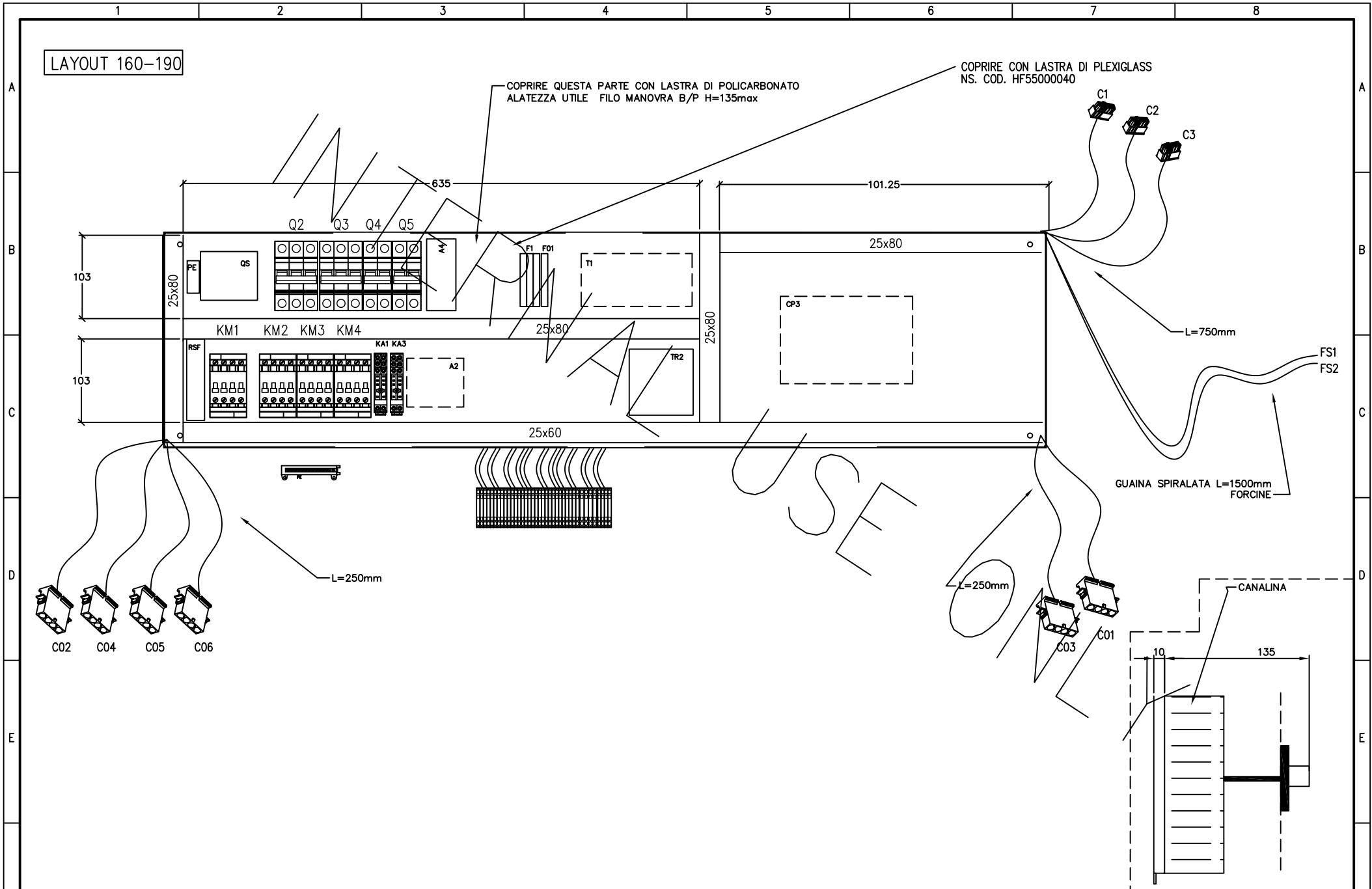
PIASTRA DI FONDO NS. COD. HF17000756

COPRIRE CON LASTRA DI PLEXIGLASS  
NS. COD. HF55000040



				DATE	25/07/2004				HF620C0221			
				SIGN.							SHEET 13 OF 23	
				CONT.							CONTINUE 14	
REV.	MODIFIED	DATE	SIGN.	APPR.	SOST. IL:	SOST. DA:	ORIGINE:					
1		2		3		4	5	6	7	8		

LAYOUT 160-190




				DATE	25/07/2004				HF620C0221			
				SIGN.							SHEET 14 OF 23	
				CONT.							CONTINUE 15	
REV.	MODIFIED	DATE	SIGN.	APPR.	SOST. IL:	SOST. DA:	ORIGINE:					
1		2		3		4	5	6	7	8		











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		
	FU1			4AF				FUSIBILE 5X20		1	PCE	3/D08		
	H1	UMIDIFICATORE								1		3/E06		
C	KA1	RELE' DEUM.				40528024				1		4/E02		
	KA3	RELE' ALTA PRESSIONE				40528024				1		4/E02		
	KM1	COMP.				LS410-55/72614		TELER.AEG LS4.10 24V/DIL00M-10		1	PCE	4/E04		
D	KM2	UMIDIFICATORE				LS410-55/72614		TELER.AEG LS4.10 24V/DIL00M-10		1	PCE	4/E06		
	KM3	VENT. EVAP.				LS410-55/72614		TEL. AEG LS4.10 24V/DIL00M-10		1	PCE	4/E07		
	KM4	RISC. 1 STEP				LS410-55/72614		TELER.AEG LS4.10 24V/DIL00M-10		1	PCE	6/B03		
E														
F														
				DATE	25/07/2004					HF620C0221				
				SIGN.										
				CONT.										
REV.	MODIFIED	DATE	SIGN.	APPR.	SOST. IL:	SOST. DA:	ORIGINE:					SHEET 18 OF 23		
												CONTINUE 19		



1	2	3	4	5	6	7	8	
100-110-130	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
	FU1		4AF		FUSIBILE 5X20	1	PCE	3/D08
	H1	UMIDIFICATORE				1		3/E06
C	KA1	RELE' DEUMIDIFICA		40528024		1		4/E02
	KA3	RELE' ALTA PRESSIONE		40528024		1		4/E02
	KM1	COMP.		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	4/E04
	KM2	UMIDIFICATORE		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	4/E06
D	KM3	VENT. EVAP.		LS410-55/72614	TEL. AEG LS4.10 24V/DIL00M-10 24V	1	PCE	4/E07
	KM4	RISC. 1 STEP		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	6/B03
E								
F			DATE	25/07/2004		HF620C0221		
			SIGN.					
			CONT.					
	REV.	MODIFIED	DATE	SIGN.	APPR.	SOST. IL:	SOST. DA:	ORIGINE:
	1	2	3	4	5	6	7	8
							SHEET 20 OF 23	23
							CONTINUE	21

1	2	3	4	5	6	7	8	
100-110-130	Ref-mark	Function	Technical data	Item code	Description	Amount	M.U.	Position
A	M1/M2	VENT. EVAP.				1		3/E05
	Q2	COMPRESSORE		E93C10/242945	INT.AUT.Elfa E90 3P C 10A 6kA/PLS6-C10/3	1	PCE	3/B04
	Q3	UMID.		E93C06/242943	INT.AUT.Elfa E90 3P C 06A 6kA/PLS6-C06/3	1	PCE	3/B05
B	Q4	VENT.		E92C10/242876	INT.AUT.Elfa E90 2P C 10A 6kA/PLS6-C10/2	1	PCE	3/B06
	Q5	RISC.		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								D
E								E
F								F
				DATE	25/07/2004			
				SIGN.				
				CONT.				
REV.	MODIFIED	DATE	SIGN.	APPR.	SOST. IL:	SOST. DA:	ORIGINE:	HF620C0221
1	2	3	4	5	6	7	8	SHEET 21 OF 23
							CONTINUE	22



1	2		3	4	5	6	7	8		
160/190	Ref-mark	Function	Technical data	Item code	Description	Amount	M.U.	Position		
A	AP	ALTA PRESSIONE				1		4/C02	A	
	BP	BASSA PRESS.				1		5/A06		
	C1	COMPRESSORE				1		3/E02		
B	EV1					1		7/B05	B	
	EV2					1		7/B05		
	FU1		4AF		FUSIBILE 5X20	1	PCE	3/D08		
	H1	UMIDIFICATORE				1		3/E06		
C	KA1	RELE' DEUM.		40528024		1		4/E02	C	
	KA3	RELE' ALTA PRESSIONE		40528024		1		4/E02		
	KM1	COMP.		LS1710-55/28581	TELER.AEG LS17.10 24V/DIL00BM-10 24V	1	PCE	4/E04		
D	KM2	UMIDIFICATORE		LS410-55/4852	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	4/E06	D	
	KM3	VENT. EVAP.		LS410-55/72614	TEL. AEG LS4.10 24V/DIL00M-10 24V	1	PCE	4/E07		
	KM4	RISC. 1 STEP		LS410-55/72614	TELER.AEG LS4.10 24V/DIL00M-10 24V	1	PCE	6/B03		
E										E
F			DATE	25/07/2004		HF620C0221				F
			SIGN.							
			CONT.							
REV.	MODIFIED	DATE	SIGN.	APPR.	SOST. IL:	SOST. DA:	ORIGINE:			SHEET 22 OF 23
1	2	3	4	5	6	7	8	CONTINUE 23		

1	2	3	4	5	6	7	8	
160/190	Ref-mark	Function	Technical data	Item code	Description	Amount	M.U.	Position
A	M1/M2	VENT. EVAP.				1		3/E05
	Q2	COMPRESSORE		E93C16/242949	INT.AUT.Elfa E90 3P C 16A 6kA/PLS6-C16/3	1	PCE	3/B04
	Q3	UMID.		E93C06/242943	INT.AUT.Elfa E90 3P C 06A 6kA/PLS6-C6/3	1	PCE	3/B05
B	Q4	VENT.		E92C10/242876	INT.AUT.Elfa E90 2P C 10A 6kA/PLS6-C10/2	1	PCE	3/B06
	Q5	RISC.		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								D
E								E
F								F
				DATE	25/07/2004			
				SIGN.				
				CONT.				
				APPR.				
REV.	MODIFIED	DATE	SIGN.	SOST. IL:	SOST. DA:	ORIGINE:		
1	2	3	4	5	6	7	8	
							HF620C0221	
								SHEET 23 OF 23
								CONTINUE

