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Part list

For safety critical components please contact Labgruppen for the right manufacturer							
Item number	Safety critical	Item name	Replaces	Designator	Service level		
Power Supply		See Restriction nr3 on how to find our item names			1	2	3
SMPS-A02-F11		Smpls-A02-F11 FCT	Replaces all SP140FXXX type F11 (See restriction nr1) because of deviations between 230V and 115V amps				X
SP100F-F01		Smpls 10kW Flyback Final Assembly Type 05	Replaces all SP100FXXX type F01 (see restrictions nr1 and nr2) because of compatibility problems with the MISXXX board and deviations between 115V and 230V amps				X
SP100F-F01		Smpls 10kW Flyback Final Assembly Type 51	Replaces all SP100FXXX type F51 (see restrictions nr1 and nr2) because of compatibility problems with the MISXXX board and deviations between 115V and 230V amps				X
TCET1102G		Ic Photocoupler Tcet1102g		U2,U3,U4			X
PWMF107a-F01		Pulse Width Modulator Flyback 1 Rev.07a Final Assembly Type 01		U1			X
BC549C		Transistor Bipolar Signal Bc549c		Q5,Q9			X
BC559C		Transistor Bipolar Signal Bc559c		Q7			X
BYM26E		Diode Power Switch Bym26e		D2, D5			X
47uHA		Inductor 47uH Axial					x
6n8250VMMK5		Capacitor Polyester 6n8 250V Mmk 5mm		C12			X
STTA3006PI		Diode Power Stta3006pi 600v Isolated Dop3i		D16, D17			X
5V6.4W2%		Diode Zener 5V6 .4W 2%		D12,D13,D23,D24,D26,D27			X
MPSA42		Transistor Bipolar Signal Mpsa42		Q8			X

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MPSA92		Transistor Bipolar Signal Mpsa92		Q10			X
BYT30PI1000		Diode Power Byt30pi1000 Isolated		D3			X
SGW25N120		Transistor Igbt Power Sgw25n120		q2			X
STTA1512PI		Diode Power Stta1512pi 1200v Isolated Dop3i		D6			X
1N4148		Diode Signal 1n4148		D21, D22			X
12V.4W5%		Diode Zener 12V .4W 5%		D25			X
400uHETD29ST		Inductor 400uH Etd29gsp		L1			
PN4392		Transistor Jfet Signal Pn4392		Q6			X
15V1.3W5%		Diode Zener 15V 1.3W 5%		D4			X
T2K5WF160VPM877A		Transformer 2K5W flyback 160V core Pm8770 type A	See restriction nr7 for new mounting instructions	K1			X
MPPM8770		Mounting Plate For Core Pm8770		K1			X
MRT204x80		Screw ISO 14583 Tx-20 M4x80 + ZPL		K1			X
M6MM4		Nut DIN 934 M4 + ZPL		K1			X
FBB4.1SV		Spring Washer DIN 127 B M4 + Conventec 7269		K1			X
2200u160V35x45		Capacitor Electrolytic 2200u 160V 35x45mm Snap In					x
2200u200V30x50		Capacitor electrolytic 2200u 200V 30x50mm snap					x
330K.6W1%		Resistor Metal Film 330k .6W 1%		R32, R41			x
CLCFPM877007		Clip For Coil Form Pm8770 rev.07					x

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Input and Output							
AICO414-F02-T		AICO414-F02-T FCT	Replaces AICO411a-F02 to AICO414a-F02				X
AICO412d-F02		AICO 4channel rev12vers.d Final Assembly type 02	Replaces AICO409c, AICO409d, AICO410d type F02. (See restriction nr4) because of compatibility problems with A25TDXXX board				X
AICO412e-F02		AICO 4channel rev12vers.e Final Assembly type 02	Replaces AICO409a-F02 and AICO409b-F02. (See restriction nr4) because of compatibility problems with A25TDXXX board				X
AICO412f-F02		AICO 4channel rev12vers.f Final Assembly type 02	Replaces AICO410e-F02. (See restriction nr4) because of compatibility problems with A25TDXXX board				X
LM317FP		Ic Voltage Regulator Lm317 Full Pack		U405			X
OCH4A-02Aa		Output Connector Horizontal 4 Channel TypeA rev.02 Vers Aa		P6, P4			x
PCSPCO1A5V		Relay Pcb Singel Pole Change Over 1a 5v		RE402			X
FPMSA		Front Panel Magnetic Shield Type A					X
74HCT4051D		Ic 2-input AND gate 74AHCT1G08 TSSOP-5		U410			X
HEF4094BT+-		Ic Comparator Lm393D SOIC-8		U414			X
NE8FA-H		Connector Ethercon 8+1pole Female+jack 90dg					X
2N7002		Transistor MOSFET 2N7002 SOT-23		Q3, Q5, Q103, Q105, Q205, Q203, Q303, Q305			X
BAW56		Diode Double BAW56 SOT-23		D3, D103, D203, D303			X
BC847C		Transistor Bipolar Signal BC847C SOT-23		Q1, Q101, Q201, Q301			X
BC857C		Transistor Bipolar Signal BC857C		Q2, Q102, Q202,			X

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		SOT-23		Q302,			
NE5532D		IC Operational Amplifier NE5532D SOIC-8		U5, U6, U105, U106, U205, U206, U305, U306			X
BZX84C24		BZX84C24		D406			X
TIP122FP		Transistor Bipolar Darlington Power Tip122 Fullpack		Q401			X
HEF4021BT+-		HEF4021BT+-					X
CASO2x41M200		Cable Assembly Socket 2x4pole 1m L200mm		P1			X
CASO2x41M150		Cable Assembly Socket 2x4pole 1m L150mm		P301			X
CASO2x41M310		Cable assembly socket 2x4pole 1M L310mm		P101, P201			X
CASO2x51M270		Cable Assembly Socket 2x5pole 1m L270mm		P403			X
CASO2x81M230		Cable Assembly Socket 2x8pole 1m L230mm		P407			X

Amp Board							
A25TD-17B-T		A25TD-17B-T FCT		Replaces A25TD13c-F02 up too A25TD16XXX-F02.			X
A25TD11a-F02		Amplifier 2k5w Class TD rev11.vers.a Final Assembly Type 02		This board is not replaceable, please contact Labgruppen for help on how to repair this product			X
A25TD09-F02		Amplifier 2k5kW classTD rev09 Final Assembly type 02		Replaces A25TD09-F02. See restriction nr4) because of compatibility problems with AICO4XXX board			X
NJW1302		Transistor Bipolar Power Pnp		Replacement only for A25TD14h-F02	Q1,		X


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		2sa1294				
NJW21193		Transistor Bipolar Power NJW1193 TO-3	Replacement only for A25TD14h-F02	Q2, Q3		
STY60NK30Z		Transistor Mos Power Sty60nk30z		Q5, Q6		X
NJW21194		Transistor Bipolar Power NJW21194 TO-3	Replacement only for A25TD14h-F02	Q8, Q9		X
NJW3281		Transistor Bipolar Power NJW3281 TO-3	Replacement only for A25TD14h-F02	Q10		X
STTH1506DPI		Diode Power Stth1506dpi		D1, D2		X
2SC3263		Transistor Bipolar Power Npn 2sc3263		Q8, Q9, Q10		X
2SA1294		Transistor Bipolar Power Pnp 2sa1294		Q1, Q2, Q3		X
PWMNATD-F01		Pwm Negative Side Amp. Class Td Final Assembly Type 01		U5		X
PWMPATD-F01		Pwm Positive Side Amp. Class Td Final Assembly Type 01		U6		X
MJE350I		Transistor Bipolar Signal Mje350 Insulated		Q11, Q21		X
MJE340I		Transistor Bipolar Signal Mje340 Insulated		Q12, Q23		X
15V1.3W5%		Diode Zener 15V 1.3W 5%		D3, D4		X
2SJ148		Transistor Mos Signal 2sj148		Q13, Q17		X
2SK982		Transistor Mos Signal 2sk982		Q14, Q18		X
BC549C		Transistor Bipolar Signal Bc549c		Q16, Q20, Q24, Q29, Q34, Q36, Q37, Q41, Q42		X
BC559C		Transistor Bipolar Signal Bc559c		Q15, Q19, Q25, Q30, Q35, Q38, Q39		X
HCPL2601		Ic Photocoupler Hcpl2601		U3, U4		X
82R.6W1%		Resistor Metal Film 82r .6W 1%		R48, R53		X
1N4004		Diode Power 1n4004		D7, D8, D9, D10		X

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Q6015L5		Triac Q6015I5		Q40			X
4K7.6W1%		Resistor Metal Film 4k7 .6W 1%		R81, R87			X
100K.6W1%		Resistor Metal Film 100k .6W 1%		R82, R86			X
39V.4W2%		Diode Zener 39V .4W 2%		D29, D30			X
3V3.4W5%		Diode Zener 3V3 .4W 5%		D14, D15			X
18K2W5%		Resistor Metal Film 18k 2W 5%		R93			X
T6A3250-5x20		Fuse slow blow 6,3A 250V 5x20mm		P1, P2			X





Mains input filter								For 115V amps
MIS13003-F02-T		MIS13003-F02-T FCT	Replaces all MISXXX type F02 (see restriction nr2) because of compatibility problems with the SP100FXXX and SP130FXXX board				X	See below
T15AH250-6.3x32		Fuse blow 15A 250 V 1500Ir 6,3x32mm		P7			X	see below
56R9W5%		Resistor Wire Wound 56r 9W 5% Type B		R2			X	See below
PCSPNO40A18V		PC SPNO 40A 18V		RE1			X	
PCSPCO10A12V		PC SPCO 10A 12V		RE2			X	

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Chassis						
RPCE		Rear Panel C-series Type E				X
RPCB		Rear Panel C-series Type B	Replacement for AICO411 type XXX and below			x
IFPA-PBLK		Interior front panel type A painted black				X
SPLA-PBLK		Ide left panel type A painted black				X
SPRA-PBLK		Side panel right type A painted black				X
BCB-PBLK		Bottom Cover Type B Painted Black	See Restriction nr9 on how to assemble Top and bottom cover			x
INAICO4		Insulation AICO4	See Restriction nr9 on how to assemble Top and bottom cover		X	
INAMA		Insulation Amplifier Module type A	See Restriction nr9 on how to assemble Top and bottom cover		X	
EFPA-CS		Exterior Front Panel Type A C-series				X
TCA-PBLK		Top Cover Type A Painted Black	See Restriction nr9 on how to assemble Top and bottom cover			X

115v						
Mains input filter						
MIS13003-F52-T		MIS13003-F52-T FCT	Replaces all MISXXX type F52 (see restriction nr2) because of compatibility problems with the SP100FXXX and SP130FXXX board			X
T30AH125-6.3x32		Fuse slow blow 30A		P7		X
22R9W5%		Resistor wire wound 22r 9w 5%		R2		X
PCSPNO40A18V		PC SPNO 40A 18V		RE1		X
PCSPCO10A12V		PC SPCO 10A 12V		RE2		X

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MLUS20A115V12AW G2m		Mains Lead Usa 20a Plug Type Nema 5-20p 3xawg12 2m Black					X
Miscellaneous							
KNBD12H3POS		KnobD12 H3 black push-on slot				X	
UI9Lx408a-F01		User interface 9ledx4ch rev08 vers a					X
F80x25-24HS		Fan 80x80x25mm 24vdc High Speed					X
RK1-1PC-6A15x21		Switch Rocker Single Pole Double Trough On-On PC 6a 15x21mm					X
PSMR02		Pcb Power Switch Manual Remote rev 02					X
DBPVC9.5		Distansbussning Pvc 9.5mm					X
MRTGF3x8FBBBRBS V		Skruvkomb. Mrt10 3x8 Gängformad/fbb3.1x6/brb3.2x6 Svartkrom.					X
DF97x87x6.5-20		Dustfilter 97x87x6.5mm 20ppi Filtren Firend (a) V-0 Hf1					X
INA25TD		Insulation A25td					X
SUI9Lx4A		Sticker User Interface 9led X 4 Type A					X
K-ICS		Kit Installation C-series					X
LBRPVC3.2x8x.8		Låsbricka Rund PVC 3.2x8x.8					X
PH2x81M		Pin Header 2x8pole 1module					X
SLABL03		Sticker Lab.gruppen Logotype rev.03					X
SPPD4x40		Spacer Pin Plastic D4x40					X
MLEU3x1.52mBLK		Mains Lead Eu Plug Type Cee7/vii 3x1.5mm2 2m Black					X
TBPI3P90F2MSR		Terminal Block Plug In 3p 90dg Female 2module +strain Relief					X
VR10KLIN21H		Potentiometer 10k Lin 21step Horizontal					X
B580x523x150LAB3		Box 580x523x150mm type 0427 Cardboard White Lab.gruppen 3			X		

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IBA		Interior Box type A 570x119x45mm			X		
OM-CS		Operation Manual for C series			X		
MLUS20A3x12AWG2 m		Mains Lead Usa 20a Plug Type Nema 6-20p 3xawg12 2m Black					x
PEPPCA		Packing EPP Corner type A			X		
SCAFCCMBGD		Sticker Caution Approvals FCC Must Be Grounded Type D	See Restriction nr9 on how to assemble Top and bottom cover				X
POT4B04b-F01		Potentiometer Board 4ch Type B rev.04b Final Assembly Type01					X
SMSC28-4		Sticker For Mains Switch C28-4				X	
STBPC4P9011		Screw For Terminal Block Pcb 4pole 90dg 11mm			X		