



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 <a href="#">nr3</a> on how to find our item names			1	2	3
SMPS-A12-F01		Smpps-A12-F01 fully tested	Replaces all SP130FXXX type F01 (See restriction <a href="#">nr1</a> ) because of deviations between 115V and 230V amps				X
SMPS-A12-F01		Smpps 14kW flyback Rev01,vers.f, Final Assembly type 01	Replaces all SP140FXXX all type F01 (See restriction <a href="#">nr1</a> ) because of deviations between 115V and 230V amps				X
T10KWF160VPM8770		transformer 10kW flyback 160v core pm 8770	<a href="#">See restriction nr7 for new mounting instructions</a>	K1			X
TCET1102G		Ic Photocoupler Tcet1102g		U2,U3,U4			X
PWMF107a-F01		Pulse Width Modulator Flyback 1 Rev.07a Final Assembly Type 01		U1			X
FPMSA		Front Panel Magnetic Shield Type A					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
MPSA92		Transistor Bipolar Signal Mpsa92		Q10			X
BYT30PI1000		Diode Power Byt30pi1000 Isolated		D3			X
SGW25N120		Transistor Igbt Power Sgw25n120		Q2			X

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## Part list

15V1.3W5%	Diode Zener 15V 1.3W 5%	D4			X
12V.4W5%	Diode zener 12V.4w 5%	D19, D25			X
400uHETD29ST	Inductor 400uH Etd29gsp	L1			
STTA1512PI	Diode Power Stta1512pi 1200v Isolated Dop3i	D6			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
2200u200V30x50	Capacitor electrolytic 2200u 200V 30x50mm snap				x
CLCFPM877007	Clip For Coil Form Pm8770 rev.07				x

<b>INPUT and OUTPUT</b>					
AICO414-F07-T	AICO414-F07-T FCT	Replaces all AICO4XXX- type F07			X
LM317FP	Ic Voltage Regulator Lm317 Full Pack		U405		X
OCH4A-02Aa	Output Connector Horizontal 4 Channel TypeA rev.02 Vers Aa		P4, P6		X
PCSPCO1A5V	Relay Pcb Singel Pole Change Over 1a 5v		RE402		X
74HCT4051D	Ic 2-input AND gate 74AHCT1G08 TSSOP-5		U410		X
HEF4094BT+-	Ic Comparator Lm393D SOIC-8		U414		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
NE8FA-H	Connector Ethercon 8+1pole Female+jack 90dg				
BC847C	Transistor Bipolar Signal BC847C SOT-23		Q1, Q101, Q201, Q301		X

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## Part list

BC857C		Transistor Bipolar Signal BC857C SOT-23		Q2, Q102, Q202, Q302,			X
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
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
HEF4021BT+-		HEF4021BT+-					x

<b>Amp Board</b>							
A25TD-17E-T		A25TD-17E-T FCT	Replaces all A25TD16 type F05 and revisions below and A25TD-17EXXX				X
NJW1302		Transistor Bipolar Power Pnp 2sa1294	Replacement only for A25TD14h-F05	Q1			X
NJW21193		Transistor Bipolar Power NJW1193 TO-3	Replacement only for A25TD14h-F05	Q2, Q3, Q4			X
STY60NK30Z		Transistor Mos Power Sty60nk30z		Q5, Q6			X
NJW21194		Transistor Bipolar Power NJW21194 TO-3	Replacement only for A25TD14h-F05	Q7, Q8, Q9			X
NJW3281		Transistor Bipolar Power NJW3281 TO-3	Replacement only for A25TD14h-F05	Q10			X
2SC3263		Transistor Bipolar Power Npn 2sc3263		Q7, Q8, Q9, Q10			X





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## Part list

2SA1294		Transistor Bipolar Power Pnp 2sa1294	Q1,Q2, Q3, Q4		X
STTH1506DPI		Diode Power Stth1506dpi	D1, D2		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
Q6015L5		Triac Q6015l5	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
T15A250-5x20		Fuse slow blow 15A 250V 5x20mm	P1, P2		X

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## Part list






<b>Mains input filter</b>								<b>For 115V amps</b>
MIS13003-F04-T		MIS13003-F04-T FCT	Replaces all MISXXX type F04				X	See below
T30AH250-6.3x32		Fuse slow blow 30A 250 V 400A Ir 6,3x32mm		P7			X	See below
56R9W5%B		Resistor wire wound 56r		R2			X	See below
PCSPNO40A18V		PC SPNO 40A 18V		RE1			X	
PCSPCO10A12V		PC SPCO 10A 12V		RE2			X	

<b>Chassis</b>								
RPCE		Rear Panel C-series Type E					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	
RPCB		Rear Panel C-series Type B	Replace,emt for AICO411 type XXX and below				X	
BCB-PBLK		Bottom Cover Type B Painted Black	<a href="#">See Restriction nr9 on how to assemble Top and bottom cover</a>			X		
INAMA		Insulation Amplifier Module type A	<a href="#">See Restriction nr9 on how to assemble Top and bottom cover</a>			X		
FS440x8x6		Foam Sticker 440x8x6mm	<a href="#">See Restriction nr9 on how to assemble Top and bottom cover</a>			X		
INAICO4		Insulation AICO4	<a href="#">See Restriction nr9 on how to assemble Top and bottom cover</a>			X		
EFPA-CS		Exterior Front Panel Type A C-series					X	
TCA-PBLK		Top Cover Type A Painted Black	<a href="#">See Restriction nr9 on how to assemble Top and bottom cover</a>			x		

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Part list

LAB.GRUPPEN

115v							
Mains input filter							
MIS13003-F54-T		MIS13003-F54-T FCT	Replaces all MISXXX type F54				X
TBT4.5/6.3L31.5		Tube brass tinned 14,5/6,3 L31,5mm		P7			X
22R9W5% (5mm stand-off)		Resistor wire wound 22r		R2			X
PCSPNO40A18V		PC SPNO 40A 18V		RE1			X
PCSPCO10A12V		PC SPCO 10A 12V		RE2			X
MLUS30A3x12AWG2 m		Mains Lead Usa 30a Plug Type Nema L5-30p 3xawg12 2m Black					X

Miscellaneous							
KNBD12H3POS		KnobD12 H3 black push-on slot				X	
UI9Lx408a-F01		User interface 9ledx4ch rev08 vers a					X
F80x25-24HSC		Fan 80x80x25mm 24VDC high speed type C					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
INA25TD		Insulation A25td					X
SUI9Lx4A		Sticker User Interface 9led X 4 Type A					X
K-ICS		Kit Installation C-series					X
SMSC88-4		Sticker For Mains Switch C88-4				x	
LBRPVC3.2x8x.8		Låsbricka Rund PVC 3.2x8x.8					X
MLEU3x1.52mBLK		Mains Lead Eu Plug Type Cee7/vii 3x1.5mm2 2m Black					X
PH2x81M		Pin Header 2x8pole 1module					X

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## Part list

SLABL03		Sticker Lab.gruppen Logotype rev.03					X
MLEU3x1.52mBLK		Mains Lead Eu Plug Type Cee7/vii 3x1.5mm2 2m Black					x
SPPD4x40		Spacer Pin Plastic D4x40					X
TBPI3P90F2MSR		Terminal Block Plug In 3p 90dg Female 2module +strain Relief					X
VR10KLIN21H		Potentiometer 10k Lin 21step Horizontal					X
MRTGF3x8FBBBRBS V		Skruvkomb. Mrt10 3x8 Gångformad/fbb3.1x6/brb3.2x6 Svartkrom.					X
B580x523x150LAB3		Box 580x523x150mm type 0427 Cardboard White Lab.gruppen 3			X		
IBA		Interior Box type A 570x119x45mm			X		
OM-CS		Operation Manual for C series			X		
PEPPCA		Packing EPP Corner type A			X		
POT4B04b-F01		Potentiometer Board 4ch Type B rev.04b Final Assembly Type01					X
SCAFCCMBGD		Sticker Caution Approvals FCC Must Be Grounded Type D	<a href="#">See Restriction nr9 on how to assemble Top and bottom cover.</a>				X
SMSC88-4		Sticker For Mains Switch C88-4					X
STBPC4P9011		Screw For Terminal Block Pcb 4pole 90dg 11mm			X		