

# C20:8X

Part list

# LAB.GRUPPEN


**For safety critical components please contact Labgruppen for the right manufacturer**

| Item number               | Safety critical | Item name  | Replaces                                   | Designator         | Service level |   |   |
|---------------------------|-----------------|--|--|--------------------|---------------|---|---|
|                           |                 |  |  |                    | 1             | 2 | 3 |
| <b>Power Supply</b>       |                 | <b>See restriction <a href="#">nr3</a> on how to find our item names</b> |  |                    |               |   |   |
| SP20F-F01-T<br>(P34401-H) |                 | SMPS 2kW flyback fully tested Type 01                                    | Replaces all SP20FXXX (P34401)<br>type F01 |                    |               |   | x |
| LM393D                    |                 | Ic Comparator Lm393D SOIC-8  |  | IC7                |               |   | x |
| SUD50N02-06P              |                 | Transistor Mos Power SUD50N02-06P D-PAK                                  |  | Q5                 |               |   | x |
| FDH44N50                  |                 | Transistor Mos Power FDH44N50 TO-247                                     |  | Q18, Q19, Q4       |               |   | x |
| SS35                      |                 | SS35 Power Schottky Diode 3A 50V SMD                                     |  | D22, D23, D24, D25 |               |   | x |
| LM339D                    |                 | Ic Comparator LM339D SOIC-14   |  | IC1                |               |   | x |
| PMBFJ110                  |                 | PMBFJ110 N-channel silicon junction FET                                  |  | Q35                |               |   | x |
| FPMSB                     |                 | Front Panel Magnetic Shield Type B                                       |  |                    |               |   | x |

| <b>Amp board</b>            |                 |   |   |  |   |   |   |
|-----------------------------|-----------------|---|---|--|---|---|---|
| Item number                 | Safety critical | Item name                                       | Replaces  | Designator   | 1 | 2 | 3 |
| A104D07-F01-T<br>(P34001-F) |                 | A104D07-F01-T Tested for service                | Replaces all A104DXXX (P34001)<br>type F01                |  |   |   | x |
| IRFB4332                    |                 | Transistor Mos Power IRFB4332                   | Replaces all. Always replace both<br>in an broken channel | Q9, Q10, Q11, Q12, Q38,<br>Q27, Q67, Q68                       |   |   | x |
| L6385D                      |                 | High Voltage High and Low Side Driver<br>L6385D |   | IC11, IC16, IC17, IC30   |   |   | x |
| BSR14                       |                 | Transistor Bipolar BSR14 SOT23                  |   | Q3, Q4, Q13, Q14, Q29,<br>Q35, Q36, Q62                        |   |   | x |
| BAS216                      |                 | Diode BAS216 Fast SOD110                        |   | D55, D53, D54, D50, D51,<br>D49, D44, D27, D43, D5, D6,<br>D41 |   |   | x |
| BAS521                      |                 | Diode BAS521 Fast SOD523                        |   | D10, D59, D26, D30, D21,<br>D29,                               |   |   | x |

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|---------------|---|---|--|---|--|--|---|
| FMMT720       |   | Transistor Bipolar FMMT720 SOT23                    |  | Q5, Q6, Q15, Q16, Q37,<br>Q57, Q58, Q64 |  |  | x |
| OPA2227       |   | IC Operational Amplifier OPA2227UA                  |  | IC13, IC22, IC9, IC10                   |  |  | x |
| L79L05ACUTR   |   | Ic Negative Voltage Regulator<br>L79L05ACUTR SOT-89 |  | IC3, IC8, IC25, IC27                    |  |  | x |
| T5A250-5x20   |  | Fuse Slow Blow 5a 250v 5x20mm                       |  | F1, F2, F3, F4, F5, F6, F7,<br>F8       |  |  | x |
| 6p850VC0G0805 |   | Capacitor 6.8p 50V C0G Surface mounted<br>0805      |  |   |  |  | x |

|                         |  |  |                                 |   |  |  |   |
|-------------------------|--|--|---------------------------------|---|--|--|---|
| <b>Input and output</b> |  |  |                                 |   |  |  |   |
| AICO4B10-F02-<br>208-T  |  | AICO4B10-F02-208-T FCT                                 | Replaces all AICO4BXXX type F01 |   |  |  | x |
| PCSPCO1A5V              |  | Relay Pcb Singel Pole Change Over 1a 5v                |                                 | Re401, Re402                                  |  |  | x |
| 74HCT4051D              |  | IC 74HCT4051D  |                                 | U405,   |  |  | x |
| HEF4794BT_SO16          |  | Ic shift register HEF4794BT SO16                       |                                 | U412  |  |  | x |
| 2N7002                  |  | Transistor MOSFET 2N7002 SOT-23                        |                                 | Q5, Q3, Q103, Q105 ,Q203,<br>Q205,Q303. Q305, |  |  | x |
| BAV70                   |  | Diode Double Bav70 SOT-23                              |                                 | D2, D102, D202, D302                          |  |  | 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 SOT-23                |                                 | Q2, Q102, Q202, Q302                          |  |  | x |
| NE5532D                 |  | IC Operational Amplifier NE5532D SOIC-8                |                                 | U5, U105, U205, U305, U6,<br>U106, U206, U306 |  |  | x |
| BZX84C24                |  | BZX84C24   |                                 | D401  |  |  | x |
| TIP122FP                |  | Transistor Bipolar Darlington Power<br>Tip122 Fullpack |                                 | Q404  |  |  | x |
| IRFR9110                |  | Transistor Mos Power IRFR9110 D-PAK                    |                                 | Q401  |  |  | x |
| LM317FP                 |  | Ic Voltage Regulator Lm317 Full Pack                   |                                 | U403  |  |  | x |

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|-------------------------|--|---|------------------------------------|--|--|--|---|
| 20V3.25W5%              |  | Diode Zener 20V 3.25W 5%                  |                                    | D422, D423                                 |  |  | x |
| <b>Input and output</b> |  |   |                                    |  |  |  |   |
| AICO4BEXT09-F02-T       |  | AICO4BEXT09-F02-T FCT                     | Replaces all AICO4BEXTXXX type F01 |  |  |  | x |
| 74HCT4051D              |  | IC 74HCT4051D                             |                                    | U402                                       |  |  | x |
| HEF4794BT_SO16          |  | Ic shift register HEF4794BT SO16          |                                    | U405                                       |  |  | x |
| PCSPCO1A5V              |  | Relay Pcb Singel Pole Change Over 1a 5v   |                                    | RE401, RE402                               |  |  | x |
| 2N7002                  |  | Transistor MOSFET 2N7002 SOT-23           |                                    | Q5, Q105, Q205, Q305, Q3, Q103, Q203, Q303 |  |  | x |
| BAV70                   |  | Diode Double Bav70 SOT-23                 |                                    | D2, D102, D202, D302                       |  |  | 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 SOT-23   |                                    | Q2, Q102, Q202, Q302                       |  |  | x |
| NE5532D                 |  | IC Operational Amplifier NE5532D SOIC-8   |                                    | U5, U105, U205, U305, U6, U106, U206, U306 |  |  | x |
| <b>chassis</b>          |  |   |                                    |  |  |  |   |
| RPCD                    |  | Rear Panel C-series Type D                |                                    |  |  |  | x |
| IFPB-PBLK               |  | Interior Front Panel Type B Painted Black |                                    |  |  |  | x |
| SPLA-PBLK               |  | Side Panel Left Type A Painted Black      |                                    |  |  |  | x |
| EFPB-CS                 |  | Exterior Front Panel Type B C-series      |                                    |  |  |  | x |
| SPRA-PBLK               |  | Side Panel Right Type A Painted Black     |                                    |  |  |  | x |
| TCA-PBLK                |  | Top Cover Type A Painted Black            |                                    |  |  |  | x |

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|----------------------|---|--|--|--|--|---|---|
| <b>Miscellaneous</b> |   |  |  |  |  |   |   |
| F80x25-24HS          |   | Fan 80x80x25mm 24vdc High Speed                                |  |  |  |   | x |
| SUI7Lx8              |   | Sticker User Interface 7led x 8                                |  |  |  | X |   |
| K-ICXS8CH            |   | Kit Installation CX series 8ch                                 |  |  |  |   | x |
| P34OVPA-ST01         |   | P34 Over Voltage Protection A,<br>Surfacemounted Top type 01   |  |  |  |   | x |
| F80x25-24HS          |   | Fan 80x80x25mm 24vdc High Speed                                |  |  |  |   | X |
| MH2x81ML             |   | Mounting Header 2x8pole 1module<br>Locking                     |  |  |  |   | X |
| MLUS5-15-C13         |  | Mains Lead Grounded Us Plug Nema 5-15<br>+ Connector C13       |  |  |  |   | X |
| B580x523x150LAB3     |   | Box 580x523x150mm type 0427<br>Cardboard White Lab.gruppen 3   |  |  |  | X |   |
| IBA                  |   | Interior Box type A 570x119x45mm                               |  |  |  | X |   |
| OM-CXS               |   | Operation Manual for C series X                                |  |  |  | X |   |
| SMSC20-8X            |   | Sticker For Mains Switch C20-8X                                |  |  |  |   | X |
| SCAFCCMBGC           |   | Sticker Caution Approvals FCC Must Be<br>Grounded Type C       |  |  |  |   | x |
| MLEUCEE7-C13         |   | Mains Lead Grounded Eu Plug Cee7/vii +<br>Connector C13        |  |  |  |   | X |
| DF115x87x6.5-20      |   | Dustfilter 115x87x6.5mm 20ppi Filtren<br>Firend (a) V-0 Hf1    |  |  |  |   | x |
| UI7Lx804a-F01        |   | User Interface 7ledx8ch rev.04vers.a<br>Final assembly Type 01 |  |  |  |   | x |
| POT804a-F01          |   | Potentiometer Board 8ch rev.04a Final<br>Assembly Type 01      |  |  |  |   | x |