

Manual AXA 2200

120 - 150 - 180 kVA

Functional Description of Electronic Part

E.2.1 Processor Module (Component A9)



- DC-DC conversion to internal supply voltages ± 5 , 12 and 17 VDC.
- Micro-controllers, performing I/O control, parameter monitoring and external communication by means of the display.
- Digital Signal Processors (DSP) performing regulation of output voltages, measurements of voltages, currents and calculations of RMS-values, meanvalues and power consumption.

E.2.2 Aux. Module (Component A5)



- Transient protection of the converter's internal power supply (supply of processor module and interface)
- Overcurrent protection of the converter's internal power supply
- Isolated AC-DC supply to the processor module.
- Isolated AC-AC supply to relay module.
- Interface / drivers for operation of output contactors and / or input breakers (MCCBs)
- Interface for fans.
- Isolated DC conversion (DC watchdog). Makes it possible for the processor module to monitor the DC voltage and to give warning signal / to shut down the converter.
- Storage of energy to supply the processor module with voltage during mains failure of duration up to 40 ms.