

Item No.: SO4204-7N

Course - Power electronics 1: Line-commutated power converters, 3-phase

Includes:

- 1 Experiment card with thyristors and diodes for assembling line-commutated converter circuits, featuring microprocessor control
- 1 Experiment card with resistive, inductive and capacitive loads
- CD-ROM with Labsoft browser and course software

Course contents:

- Introduction to the most important measurable variables in power electronics
- Introduction to the design and function of power semiconductors and their control
- Introduction to the design and function of single-phase and three-phase rectifiers
- Recording the operating characteristics of uncontrolled converter circuits: M1, M2, M3, B2, B6
- Recording the control and operating characteristics of half-controlled converter circuits: B2HZ, B2HA, B2HK, B6HA, B6HK
- Recording the control and operating characteristics of fully controlled converter circuits: M1C, M2C, M3C, B2C, B6C
- Recording the control and operating characteristics of single-phase and three-phase AC power controllers
- Measurement and analysis of power in converter circuits
- Analysis of variables using FFT
- Course duration 5 h approx.

