
Omnivise Electrical Solutions –Operation and Maintenance Compact Unit - SEE-SFCTHYRIPOL 6RV80, SINAMICS GL150 (K-ES-138)

Short Description

Testing and trouble shooting of a compact unit (Thyripol 6RV80/SINAMICS GL150)

Objectives

The participants learn to operate the static excitation system (SEE)/ startup frequency converter (SFC) and the tasks of the components, to recognize and delimit faults independently and to support the service technician of the manufacturer, respectively. Introduction to the trouble shooting.

Target Group

Service, maintenance and staff of excitation systems in a power plant

Content

- Basics of synchronous generators
- Introduction of the static excitation system and the start-up frequency converter
- SEE hardware overview: THYRIPOL -Control module, Power-Converter, AVR, 3WL circuit breaker,
- SIMATIC S7-300 series controller Open loop Controller
- SICROWBAR deexcitation/ Overvoltage protection
- AVR closed Loop Controller
- Manual mode: Excitation Current Regulator (ECR)
- Automatic mode: Automatic Voltage Regulator (AVR), $\cos\phi$ -, Q-Regulator, limiter, PSS
- Familiarize themselves with the available screens in the Touch Panel
- Operation, maintenance and trouble shooting
- Introduction of AC converter basics
- SFC hardware overview: CU320-2PN, PSA, VSM, AVT, Converter/ Inverter Bridges
- Dealing with the documentation of the THYRIPOL and the SINAMICS GL150
- Conducted trouble shooting of the THYRIPOL, with exercises at the power plant model

Prerequisites

Basic knowledge of electrical engineering

Note

- Number of participants: max. 6
- Language: English
- Duration: 3 days
- Location: Power Academy Erlangen / Virtual Classroom
- Date: upon consultation

Type

Classroom training

Duration

3 days

Language

en