



Power Angle Characteristics of Three Phase Alternator with infinite bus bars Testing System

Nvis 8024

Power Angle Characteristics of Three Phase Alternator System is a versatile product for electrical power system laboratory. The study of power generators is the part of most of the curriculum. When the synchronous motor operates in the steady state, the power-angle characteristic is the most important characteristic of the motor.

Nvis 8024 is equipped with advanced measurement system for AC parameters and DC parameters. The panel is also equipped with advanced digital synchroscope to perform the synchronization. Students can learn the basics as well as advanced experiments and safety conditions with precautions that are encountered while generating power with multiple generators.

Students can perform experiments like, behavior of generator, open circuit and short circuit characteristics, power angle characteristics of three phase alternator with infinite bus bar with a vast flexibility.

Technical specifications

- BS-10 & BTI – 30 terminals for connections.
- 1 phase auto transformer 2 Amp – 1no.
- Power factor meter – 1no.
- 3 point starter - 01 no.
- Synchronizing panel with required meters.
- Stroboscope digital type - 1no.
- Tachometer hand held type.
- Metering: 2ADC, 500VAC, 5AAC, 500VDC, 20ADC.
- Panel size 2ft (height) x 8 ft (width) x 200mm (depth).
- DC shunt motor coupled to 3 phase alternator.
- The motor and alternator are coupled with flexible coupling and fitted on MS channel suitable frame with mechanical load arrangement at alternator side.
- Motor: 5 HP-220 Volt DC – 1500 RPM.
- Alternator: 3 KVA- 3 Ph, 6 wire and separately excited field winding.