

SYNCHRONIZATION OF 3 PH. ALTERNATORS STUDY KIT

WBUT: B.Tech. -ELECTRIAL MACHINES-II LABORATORY- EE-591

11. Parallel operation of 3 phase Synchronous generators.

FOR POLYTECHNIC:- ELECTRICAL MACHINE LAB (GROUP-B)

5. Synchronisation of 3-phase alternator by:

a. Three lamp method, & b. Synchroscope method.



This is one of the unique training kit specially for B. tech & Diploma students. There are 3 processes of synchronizations in-built i.e. 1) 1 DARK 2 BRIGHT LAMP METHOD, 2) SYNCHROSCOPE METHOD & 3) OSCILLOSCOPE METHOD [except the auto relay method. This can be incorporated if required.] Two identical, separate AC alternator source with separate panels & 1 main synchronization panel is provided in this set. Front space is kept wide for group study purpose, even single person can control the full panel from 1 place. All digital meters & 2 TRMS Multifunctional Digital Meters are used for better accuracy. Sufficient protection is also provided within the panels & protected armature circuit is also installed (No armature current will flow without field supply). All DC supply are isolated and separated and are VARIAC controlled. 2 HP DC motor, coupled with 1KVA 3PH Alternator is used within the machine. Panel type RPM meters with fixed proxy sensors are provided. Total length of three panels is 10 FEET. Pl. feel free to call us any time for more details.

MFD. BY:-

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