

GENERATION TRAINER (PROTECTION SCHEME OF ALTERNATOR)



OBJECT

To understand the protection schemes of an alternator.

The following types of protections should be studied and performed:-

- Over load protection.
- Excitation failure protection
- Prime mover failure protection
- Earth fault protection
- Unbalanced load protection
- Under/Over voltage protection

SPECIFICATION

MG Set: DC Shunt/Compound Motor couple with three phase alternator.

Туре	:	Three phase salient pole, screen protected, horizontal foot mounted,
~ ··		fan cooled.
Capacity	:	1 to 10 KVA
Winding	:	Three phase lap wound
R.P.M	:	1500
Volts	:	440 <u>+</u> 5%
Insulation	:	Class 'B'
Connections	:	All the terminals of armature and field shall be brought over to bakelite sheet, fixed to C.I. terminal box, fitted on top of Alternator.
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All the rotor of our machines are dynamically balanced on Microprocessor based balancing machine.

Note: The specifications/layout drawings of control panel and MG Set are suggestive only and can be modified as per latest design consideration and can be tailor-made as per customers specifications.

PREMIER TRADING COROPORATION

(ISO 9001:2015 & RoHS Compliant)

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