



MANUAL CONTROL AND SWITCHGEAR CUBICLE

CONSTRUCTION

A sheet steel cubicle, protection degree IP34.

Digital control, monitoring and measuring components are on a door of the cubicle and other components on a mounting plate inside the cubicle.

EQUIPMENT

Control equipment:

- Start
- Stop
- Emergency stop
- ON and OFF control of generator main breaker

Monitoring equipment:

Automatic alarm and shutdown for following parameters:

- lubrication oil pressure low
- coolant temperature high
- generator overcurrent

Indicators:

- generator main breaker ON
- charging alternator not charging

Measuring equipment:

- Generator voltage
- Generator current
- Generator frequency
- Run hours
- Oil pressure
- Coolant temperature

Power equipment:

- 3-pole main breaker for generator
- 3-pole short-circuit protection for generator
- 3-pole over-current protection for generator
- 3 current transformers

OPERATION

The diesel generating set is started and after voltage has risen the generator main breaker is closed, then the diesel generating set starts to supply consumers. The protection system acts automatically during operation releasing the generator main breaker and stopping the diesel generating set in case any of the monitored parameters gets alarm.

PRINCIPAL DIAGRAM

