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Your ref : 40 House – SGC project
Our ref : IQ-09-333

5. **AUXILIARY VOLTAGES**

Auxiliary voltages		
for HV circuit-breaker charging motor	V dc	110
for HV circuit-breaker closing / opening release	V dc	110
for HV circuit-breaker undervoltage opening release	V dc	110
for protection relays	V dc	110
for anti-condensation resistances	V ac	220

6. **EARTHING SYSTEM**

Our proposal applies to an earthing system of the type : **To be confirm**

- unearthed network

7. **GENERAL DESCRIPTION OF FLUAIR 400 PANELS**

The FLUAIR range is also described in the following technical leaflets:

- ◆ Fluir 400 switchgear 36 to 40,5 kV AMTED399053EN

7.1. **FLUAIR panel description**

Fluir panels are of the indoor design housed in metal enclosures of the metalclad type as defined in the IEC 298.

Each panel is composed of four compartments, fully segregated by steel partitions :

- circuit-breaker compartment, this compartment is closed by a door,
- cable connection compartment,
- busbar compartment,
- low voltage compartment.

The segregation of compartments is achieved through the use of earthed steel partitions, insulating bushings, and sliding metallic shutters. The shutters can be fitted with padlocks and can be operated independently.

7.2. **SF type circuit breakers**

The circuit-breakers use SF₆ as insulating and interrupting medium, and are of the sealed pressure system type in accordance with the IEC definition, i.e. no need for SF₆ refilling throughout the life of the unit, predicted as being 30 years.

It is equipped with an electrical stored energy operating mechanism, opening and closing mechanisms and auxiliary contacts for position indication.

The circuit-breaker is mounted on a roller frame and can be positioned as follows :

- connected (service position) in the switchgear compartment,
- disconnected (test position) in the switchgear compartment,
- in the withdrawn position ("extracted").

7.3. **Busbars and connections**

The busbar supports are made of epoxy resin and also serve as disconnecting contact chambers.