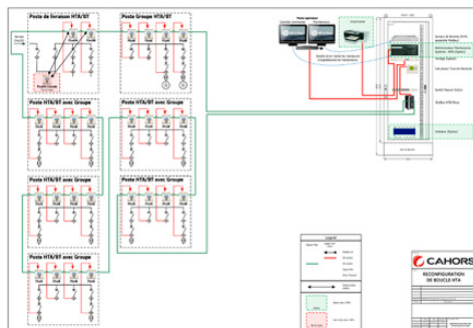


MV LOOP AUTOMATION SOLUTION - IVISION RB



Automatic management and operating system for a structured open loop network with a strict service continuity constraint.

Main characteristics

As part of a structured open loop MV distribution network, the IVISION RB 2.0 system automatically insulated a fault occurring on a section and reconfigures the loop in order to re-establish power as quickly as possible.

This loop reconfigurer uses the following principles:

- Fault passage indicator and location
- Opening of the faulty branch of the loop
- Fault isolation
- Resupply of power to the healthy section

The IVISION RB 2.0 automatic loop reconfiguration system includes:

- Motorised units (disconnecters, switches) at the start of a loop (supply substation) and satellite substations with or without a group
- Protection relay for phase and zero sequence MV units (different adjustment thresholds depending on the status of the loop)
- A monitoring set in one of the network substations or in a service room that can be accessed by the operators
- Selectivity studies ensuring the proper operation/adjustments of protections

Advantages

- Limited losses due to considerably reduced breaking time
- Speed and performance with reconfiguration time of < 500 ms
- Modular and scalable system using the IEC61850 protocol
- Scalability with a decentralised solution
- Cost-effective, no redundancy of FO, HSR technology
- Robust and reliable automation technologies proposed
- Productivity with a single point of acceptance (monitoring + HVA)

Uses

- Service continuity at sensitive sites
- Healthcare establishments
- Household waste and water treatment
- Military bases
- Museums and universities
- Transport infrastructures
- Data centres, Tunnels

