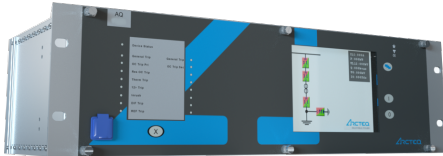


AQ-B398 Busbar protection IED



AQ-B398 busbar protection IED comes in two versions, either as a centralized busbar protection unit or as main unit for distributed busbar protection applications. In a distributed busbar protection applications the unit communicates with bay units using IEC 61850/9 intercommunication standard. The bay unit can be any of AQ 300 IEDs with incorporated busbar protection bay unit functionality. The total trip time of less than 20ms for busbar faults is provided.

Highlights

- Centralized busbar protection
 - Max 6 bays and 2 busbar sections in 3phase configuration
 - Max 24 bays and 8 busbar sections in 1phase configuration
- Distributed busbar protection
 - Max 24 bays
 - synchronizing signal with 1 ms time intervals in distributed configuration

Technical Data

PROTECTION

Busbar differential protection main unit (87B)

Circuit Breaker Failure Protection 50BF

I/O

Current inputs: Max 8

Voltage inputs: Max 52

Digital inputs: Max 156

Digital outputs: Max 104

Fast trip outputs: 52

MONITORING AND CONTROL FUNCTIONS

Circuit breaker control

Disconnecter control

Synchrocheck (25)

Dead line detection function

Voltage transformer supervision function (60)

CT supervision

Trip circuit supervision (option)

MEASURING & MONITORING

Event recording

Non-volatile disturbance records: 100

Non-volatile event records: 10000

COMMUNICATION

RJ 45 Ethernet 100Mb (front standard)

RJ 45 Ethernet 100Mb (rear standard)

RS422/RS485/RS232 interfaces (option)

Plastic or glass fiber interfaces (option)

COMMUNICATION PROTOCOLS

IEC 61850

IEC 60870-5-101,103,104

Modbus RTU and Modbus TCP/IP

DNP 3.0 and DNP 3.0 over TCP/IP

SPAbus

Application Drawing

