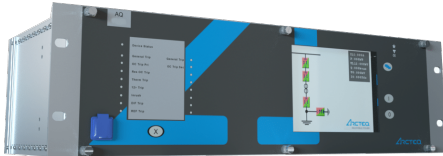


AQ-B398 Busbar protection IED



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

Highlights

- Centralized busbar protection
 - A maximum of six (6) bays and two (2) busbar sections in a three-phase configuration
 - A maximum of 24 bays and eight (8) busbar sections in a single-phase configuration
- Distributed busbar protection
 - A maximum of 24 bays
 - A synchronizing signal with 1 ms time intervals in a distributed configuration

Technical Data

PROTECTION

Circuit breaker failure protection (CBFP; 50BF/52BF)

AQ-2000Q

Distributed busbar protection (sub-unit) (optional)

MEASURING AND MONITORING

Number of supervised trip contacts: 8

Current (IL1, IL2, IL3, I0)

Voltage (U1, U2, U3, U12, U23, U31, U0) and frequency

Power (P, Q, S, pf) and Energy (E+, E-, Eq+, Eq-)

Event recorder (max. 10 000 permanent event records)

Circuit breaker wear monitoring

HARDWARE

CPU module (MM/ST + RJ-45)

Power supply module (PS + fault relay)

Voltage measurement module

Current measurement module (2 instances)

Number of empty slots: 6

COMMUNICATION

RJ-45 100 Mbps Ethernet + MM/ST fiber optic Ethernet

IEC 61850 (optional)

IEC 60870-5-101/104/103

Modbus/RTU and Modbus/TCP

DNP3.0

Application Drawing

