

# AQ-50-XXXX1 for one feeder bay

## Description

The AQ-50-XXXX1 fault detection device for one (1) feeder leaves no fault in distribution networks unnoticed. It has a superior capability to detect even the most challenging faults, such as high-impedance and intermittent earth faults with a fault current as low as 0.5 A; this allows it to deliver a fault detection accuracy you can rely on.



The AQ-50 fault detection is based only on phase current measurements. This saves space and significantly reduces costs as there is no need for separate voltage measurements. All this makes AQ-50 devices easy to fit in both new and retrofit installations. The AQ-50 devices are applicable to any type of cable or overhead line distribution network whether they are compensated, isolated, or directly earthed.

### Features:

- Fault indication for one (1) feeder.
- 16 binary inputs.
- 8 binary outputs.
- 3 phase current inputs (1 A).
- Built-in web interface.
- 24...48 V DC power supply.
- Options:
  - PLC functionality as IEC 60870-5-101 Master.
  - Advanced automation functions (FLISR).

*Read more about **our fault detection technology**. Additionally, learn more about how our **accessories** and **software tools** work for your application!*

## Technical data

### FAULT INDICATION AND PROTECTION FUNCTIONS

Overcurrent detection (2 stages)  
Earth fault detection (directional)  
Earth fault detection (non-directional)  
Phase break detection  
Disturbance recorder  
Fully automated fault location, isolation, and service restoration (FLISR) (optional)  
PLC functionality (optional)

### MEASUREMENTS

Phase currents  
Residual current  
Temperature  
Fault current  
Maximum load current  
Current average of 15 minutes

### HARDWARE

16 binary inputs  
8 binary outputs  
3 current inputs  
24...48 V DC power supply  
RJ-45 Ethernet (10/100Base)  
RS-485 serial port  
USB, type B

## COMMUNICATION

### Communication ports

RJ-45 Ethernet (100 MB)

RS-485

### Communication protocols

IEC 60870-5-101

IEC 60870-5-104

IEC 60870-5-101 Master (optional)

## SOFTWARE AND ACCESSORIES

**Software for AQ-50**

**Accessories for AQ-50**

# Application Drawing

