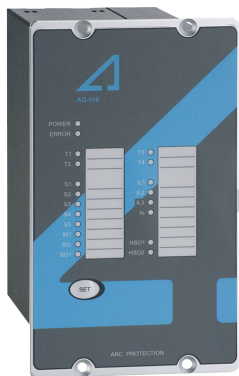


AQ-110P Arc point sensor unit with overcurrent



AQ 110 is a sophisticated micro-processor based arc flash protection unit with combined current and arc sensing. Combined current and arc sensing provides an integrated dual trip criteria. It is designed to minimize the damage caused by an arcing fault (arc flash) by tripping the circuit breaker sourcing the fault current. The AQ 110 complete system self-supervision function provides the highest level of dependability by continuously monitoring all internal system functions along with external connections.

Technical Data

PROTECTION

50ARC Overcurrent

50NARC Earthfault

Light L>

Light and Pressure L>/P>

Circuit Breaker Failure Protection 50BF

Trip time using mechanical trip relays

Reset time (arc light stage)

Protection operational after power up

I/O

Number: 3 NO + 1 NC or 4 NO

Rated voltage: 250V ac/dc

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Continuous carry 5A

Make and carry for 0.5s: 30A

Make and carry for 3s: 16A

Breaking capacity DC, when time constant L/R=40ms: 40W; 0.36A at 110 Vdc

Contact material: AgNi 90/10

Rated voltage: +24V dc

Rated current: 20mA (max)

Number of outputs: 1

Binary linputs BI1, BI2

Threshold Voltage voltage : 24 or 110 or 220Vdc

Rated Voltage: 250 V

Rated current: 3 mA

Number of inputs: 2

Power supply

Us: 80...265Vac/dc (option 18...72Vdc)

Maximum interruption: 100ms

Maximum power consumption: 5W

Standby current: 90mA

HMI

Indication LEDs: 20

Multifunction push button

Autoconfiguration

Indication reset

System check

SELF SUPERVISION

Sensors and wiring

Binary I/O

Trip coil

Power supply

Internal voltages

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Settings

CT connections

SYSTEM CONNECTIVITY

AQ 1000 Quenching device

AQ 2000 Quenching device

AQ 200 series

AQ 300 series

AQ 100 series

See AQ SAS manual

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Application Drawing

