SIEMENS

www.siemens.com

Product Announcement 7SR23 DAD

High Impedance Protection Relay

Description

The 7SR DAD provides comprehensive, configurable high impedance protections with enhanced functionality and performance. Relay functionality is accessed via a familiar user friendly interface.

Housed in 4U high, size E6 or E8 cases, these relays provide protection, control, monitoring, instrumentation and metering with integrated input and output logic, data logging & fault reports. Communication access to relay functionality is via a front USB port for local PC connection or rear electrical RS485 port for remote connection. Additional rear port options are available.

Highlights
Configurable protections providing the following operate modes:
- 3 Pole Diff + EF
- 3 Pole Diff + REF
- REF1 + REF2

Simplified specification and engineering - optional component box incorporating stabilsing and voltage limiting resistors.

1A/5A current inputs.

Optional IEC61850 protocol supports relay-to-relay communications through Ethernet with GOOSE messaging.

Function Overview

Protection

50G	Instantaneous/DTL Earth Fault
87REF	High Impedance REF
87/50	Phase segregated Differential Protection
CT50	CT Supervision

User Programmable Logic

User Interface

- 20 character x 4 line backlit LCD
- Menu navigation keys
- 3 fixed LEDs
- 8 or 16 Programmable Tri-colour LEDs (Option)

Monitoring & Data Functions

Standard Monitoring Functionality
- Primary and secondary differential currents
- Binary Input/Output status
- Trip circuit healthy/failure
- Time and date, Time synchronizing commands
- Fault, Event and Waveform records

Data Communications

Standard Communications Ports
Communication access to relay functionality is via a front USB port for local PC connection or rear

electrical RS485 port for remote connection

Optional Communications Ports
2 rear ST fibre optic ports (2 x Tx/Rx) + IRIG-B port
1 rear RS485 + IRIG-B port
1 rear RS232 + IRIG-B port
2 rear electrical Ethernet RJ45
2 rear optical Ethernet duplex

Protocols
IEC60870-5-103, Modbus RTU, DNP 3.0 and optional IEC61850 protocols – User selectable with programmable data points