



ENERGY AUTOMATION PRODUCTS

Overcurrent protection

Reyrolle 7SR10

[siemens.com/reyrolle](https://www.siemens.com/reyrolle)

The Reyrolle 7SR10 Argus overcurrent and earth fault relay is a numerical overcurrent protection relay intended as a simple protection solution for distribution and industrial applications. It offers feeder overcurrent protection, acts as backup protection, is suitable for compact substations, and provides protection against harmonic injection into the grid by non-conventional energy sources, with a focus on renewable energy sources for both medium voltage and low voltage industry applications.

Highlights



Self monitoring



Circuit breaker trip and maintenance counter



The last 100 fault records are displayed on the relay fascia



User programmable logic aided by 8 virtual inputs /outputs



Your benefits

- Enhanced Protection – robust overcurrent and earth fault protection to prevent equipment damage
- Flexibility – with its versatile configuration options, it matches diverse electrical system specifications
- System Stability – it ensures uninterrupted medium-voltage power distribution stability
- Efficiency – Configurability and communication enhance energy management, cutting costs
- Easy Integration – seamless inclusion within automation systems via digital protocol compatibility

Main Function	Feeder protection for distribution and industrial networks
Inputs and Outputs	<ul style="list-style-type: none"> • 4CT 3 Binary Inputs / 3 Binary outputs 10 LED's • 4CT 6 Binary Inputs / 6 Binary Outputs 10 LED's • 4CT 9 Binary Inputs / 6 Binary Outputs 10 LED's • 4CT / 3VT 9 Binary Inputs / 6 Binary Outputs 10 LED's
Communication	Front USB, Rear RS485 port (optional) for remote connection
Protocols	IEC 60870-5-103, DNP3.0 or Modbus RTU
Housing	Size 4, 4U high - non draw-out case

Protection Functions

- 27/59 Under/Over Voltage
- 32 Directional Power
- 32S Directional Sensitive Power
- 37/37G/37SEF Undercurrent Phase/Measured/ Sensitive E/F
- 46BC Broken Conductor/Load Unbalance
- 46NPS Negative Phase Sequence Overcurrent
- 47NPS Negative Phase Sequence Overvoltage
- 49 Thermal Overload
- 50 Instantaneous Overcurrent
- 50BF Circuit Breaker Fail
- 50G/N/SEF Instantaneous Earth Fault
- 51 Time Delayed Overcurrent
- 51c Cold Load
- 51G/N/SEF Time Delayed Measured/Derived/ Sensitive EF
- 51V Voltage Controlled Overcurrent
- 55 Power Factor
- 59N Neutral Voltage Displacement
- 64H High Impedance REF
- 67/50 Directional Instantaneous Overcurrent
- 67/50G/N/SEF Directional Instantaneous Earth Fault
- 67/51 Directional Time Delayed Overcurrent
- 67/51G/N/SEF Directional Time Delayed Earth Fault
- 81 Under/Over Frequency
- 81HBL2 Inrush Detector

Technical Features

- Circuit breaker open and close fascia push button
- View and edit protection settings on the fascia
- 9 users programmable LEDs
- Cold load protection
- Two setting groups for Non-directional
- Four Setting groups for Directional
- Password protection - 2 levels
- Waveform recorder stores 15 records (1 s duration)
- 20 character x 4 line backlit LCD

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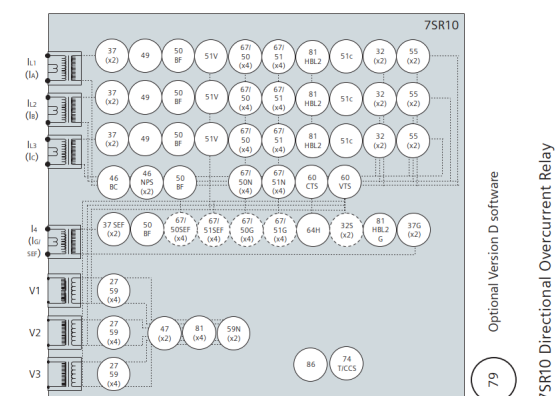
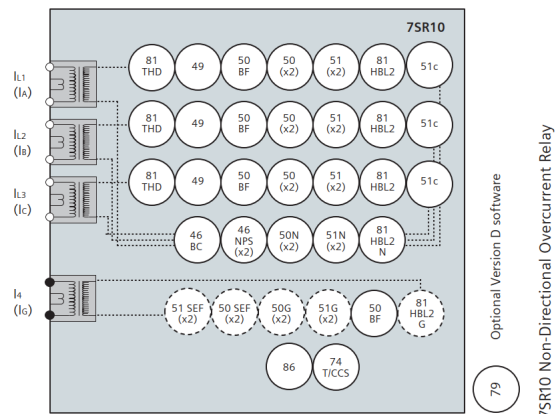
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Supervision Functions

- 60CTS CT Supervision
- 60VTS VT Supervision
- 74T/CCS Trip and Close Circuit Supervision
- 81THD Total Harmonic Distortion Supervision

Control Functions

- 86 Lockout
- CB Control (Trip / Close)
- 79 Optional Auto Reclose



[Configuration software - Reydisp Evolution](#)

[Virtual Relay Tool](#)

[Webinar series - Reyrolle essentials](#)

[Catalog Reyrolle 7SR10](#)

[Online shop - Industry Mall](#)