



ENERGY AUTOMATION PRODUCTS

Overcurrent Protection Reyrolle 7SR11 & 7SR12 Argus

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

The 7SR11 and 7SR12 Argus feeder protection devices provide overcurrent and earth fault protection with the 7SR12 also offering voltage elements for directional control and a suite of supporting voltage functions. In addition to the extensive protection function package our cost effective relays provide control, integrated input and output logic, monitoring, instrumentation and fault reports.



Highlights



User configurable overcurrent curves provide enhanced grading of the protection system



Optional Ethernet Optical or Electrical interface for IEC 61850, compatible with Editions 1 & 2



Comprehensive function package with optional Auto reclose



Ethernet Redundancy protocols PRP and HSR supported

Your benefits

- Comprehensive Protection Functions – Offers a variety of protection functions that can be customized to specific system requirements
- Enhanced System Safety and Reliability – Detects and isolates faults promptly to maintain system safety and reduce the risk of prolonged outages
- Integration and User-Friendliness – Local interface designed to ensure consistency across products and provide a user friendly access to the menu structure

Main Function	Feeder protection for distribution and industrial networks
Inputs and Outputs	1 or 4 Current Transformers with 1A and 5A Inputs, 3 Voltage Transformers, 3 or 6 Binary Inputs and 5 or 8 Binary Outputs
Communication	Front USB, Rear RS485, Rear option for two electrical or two optical Ethernet
Housing	Size E4 or E6 (with Ethernet option)

Protection Functions

- 37 Undercurrent
- 46BC Broken Conductor / Load Unbalance
- 46NPS Negative Phase Sequence Overcurrent
- 49 Thermal Overload
- 50 Instantaneous Overcurrent
- 50G/N/SEF Instantaneous Earth Fault
- 50AFD Arc Flash Detection (6 zones)
- 50BF Circuit Breaker Fail
- 51 Time Delayed Overcurrent
- 51G/N/SEF Time Delayed Measured/Derived/Sensitive EF
- 64H High Impedance REF
- 27/59 Under/Over Voltage
- 47 Negative Phase Sequence Voltage
- 51V Voltage Controlled Overcurrent
- 59N Neutral Voltage Displacement
- 67/50 Directional Instantaneous Overcurrent
- 67/50/G/N/SEF Directional Instantaneous Earth Fault
- 67/51 Directional Time Delayed Overcurrent
- 67/51G/N/SEF Directional Time Delayed Earth Fault
- 32 Directional Power
- 32S Directional Sensitive Power
- 55 Power Factor
- 81HBL2 Inrush Detector
- 81 Under/Over Frequency
- Line Check/Switch onto Fault

Supervision Functions

- 60CTS CT Supervision
- 74T/CCS Trip & Close Circuit Supervision
- 60VTS Supervision

Control Functions

- 79 Auto Reclose
- 86 Lockout
- CB Control
- 51C Cold Load

Applications

- Single CT option for Restricted Earth Fault applications
- Sensitive earth fault input available
- Measured and calculated/derived earth fault Protection elements to provide a flexible solution when both earth fault and Restricted Earth Fault are required
- Detection of earth faults in all networks including isolated and compensated networks
- High speed overcurrent elements for use with arc detectors to provide a high speed fault detection and tripping
- Directional power and directional sensitive power

Monitoring functions

- Primary/Secondary Current Phases and Earth
- Primary/Secondary Line and Phase Voltages
- Apparent Power and Power Factor
- Real and Reactive Power
- W Hr & VAr Hr Forward and Reverse
- Positive Phase Sequence (PPS) Voltage & Current
- Negative Phase Sequence (NPS) Voltage & Current
- Zero Phase Sequence (ZPS) Voltage
- Frequency
- Direction
- Binary Input/Output status
- Trip circuit healthy/failure
- Fault records
- Event records
- Circuit breaker data

[➤ Configuration software - Reydisp Evolution](#)

[➤ Virtual Relay Tool](#)

[➤ Webinar series - Reyrolle essentials](#)

[➤ Catalog Reyrolle 7SR11 and 7SR12 Argus](#)

[➤ Online shop - Industry Mall](#)

Siemens AG

Smart Infrastructure
Electrification & Automation
Mozartstrasse 31c,
91052 Erlangen, Germany

Siemens Industry Inc.
3617 Parkway Lane
Peachtree Corners, GA 30092
United States

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