

# SIEMENS

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## Reyrolle 7SR18 Solkor

Line differential protection

[siemens.com/reyrolle](http://siemens.com/reyrolle)

### Description

The 7SR18 Solkor is a two ended line differential protection relay for overhead line and underground cable circuit applications as well as shorter circuits such as interconnectors. The relays primary differential protection function is supported by a comprehensive range of features to ensure a high level of stability with fast clearance of in zone faults.

Main Function	Line differential protection for distribution and industrial feeders upto 40km
Inputs and Outputs	4 Current Transformers with 1A and 5A Inputs, 3 Voltage Transformers, 3 or 6 Binary Inputs and 5 or 8 Binary Outputs
Communication	Signalling channel – Fibre Optic 2km or 40km
Data comms	Front USB, Rear RS485, Rear option for Two Electrical or Two Optical Ethernet
Housing	Size E6, 4U high - withdrawable design

### Benefits

- Compact cost effective solution
- Signalling channel supervision
- Multiple user selectable communication protocols
- Local interface designed to ensure consistency across products and provide a user friendly access to the menu structure
- Protection settings can be viewed and edited from the fascia
- Optional Ethernet Optical or Electrical interface for IEC61850 compatible with IEC61850 Editions 1 & 2
- Redundancy protocols PRP and HSR supported.
- User configurable alarms and indications provided on LCD and 9 coloured LEDs



### Applications

- Line protection with phase segregated protection and indication
- Two ended differential with 30ms operation for distribution networks
- Integrated back up overcurrent
- Integrated overcurrent guard function
- Intertripping for both internal and external initiations

# Protecting your electrical assets... today and tomorrow

## Protection functions

- 87L 3-phase, phase segregated current differential protection
- 50 Instantaneous Phase Overcurrent
- 50G/N Instantaneous Earth fault
- 51 Time Delayed Phase Overcurrent
- 51G/N Time Delayed Earth fault
- 37 Undercurrent
- 46NPS Negative Phase Overcurrent
- 49 Thermal Overload
- 50 LC/540G LC Line Check (SOTF)
- 67/50 Directional Instantaneous Overcurrent
- 67/50G/N Directional Instantaneous Earth Fault
- 67/51 Directional Time Delayed Overcurrent
- 67/51G/N Directional Time Delayed Earth Fault

## Supervision Functions

- Protection signalling communication supervision
- 50BF Circuit breaker fail
- 60 CTS CT Supervision
- 60VTS VT Supervision
- 81HBL2 Second Harmonic Block
- TCS/CCS Trip and Close circuit supervision

## Control Functions

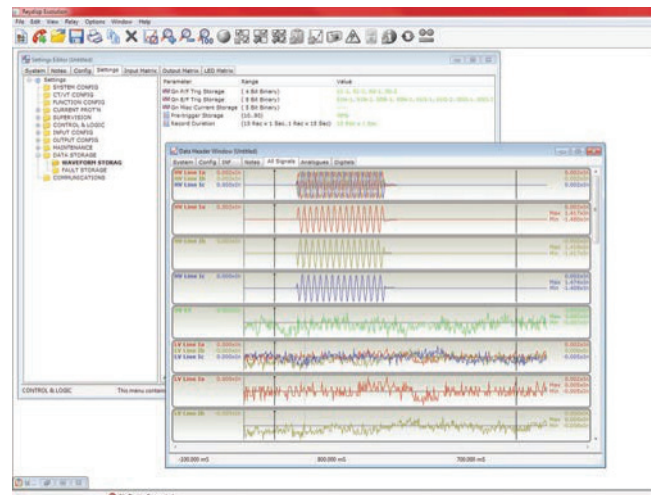
- 85 Intertripping
- 79 Autoreclose
- Plant control

## Monitoring Functions

- Local and Remote end current meters
- Primary/secondary analogue values
- Protection signalling status
- Historical demand record
- Data logging

## Reydisp software

- Our user friendly PC software tool ensures a smooth installation providing an efficient and intuitive interface to the relay.



Siemens Protection  
Devices Limited

North Farm Road  
Hebburn  
Tyne & Wear  
NE31 1TZ  
United Kingdom

For enquires please contact our  
Customer Support Center

Phone: +49 180/524 8437 (24hrs)  
Fax: +49 180/524 24 71  
E-mail: [support.ic@siemens.com](mailto:support.ic@siemens.com)  
[www.siemens.com/protection](http://www.siemens.com/protection)

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