



ENERGY AUTOMATION PRODUCTS

7SR157

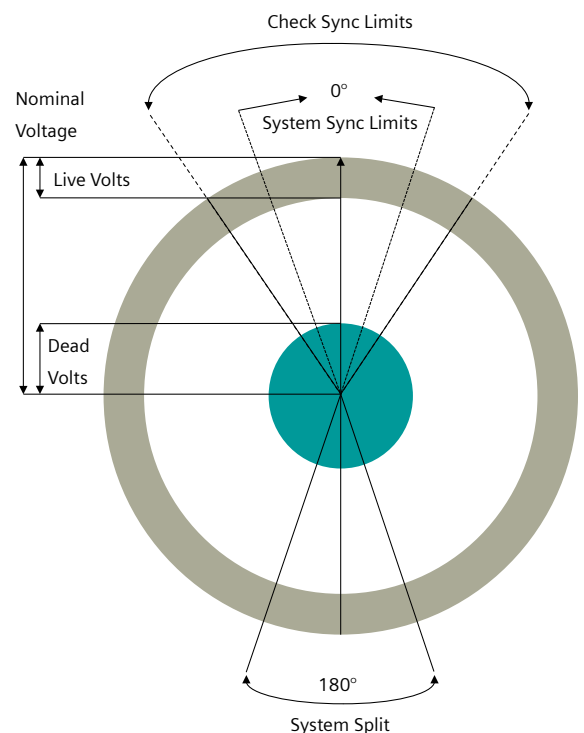
Check synchronising

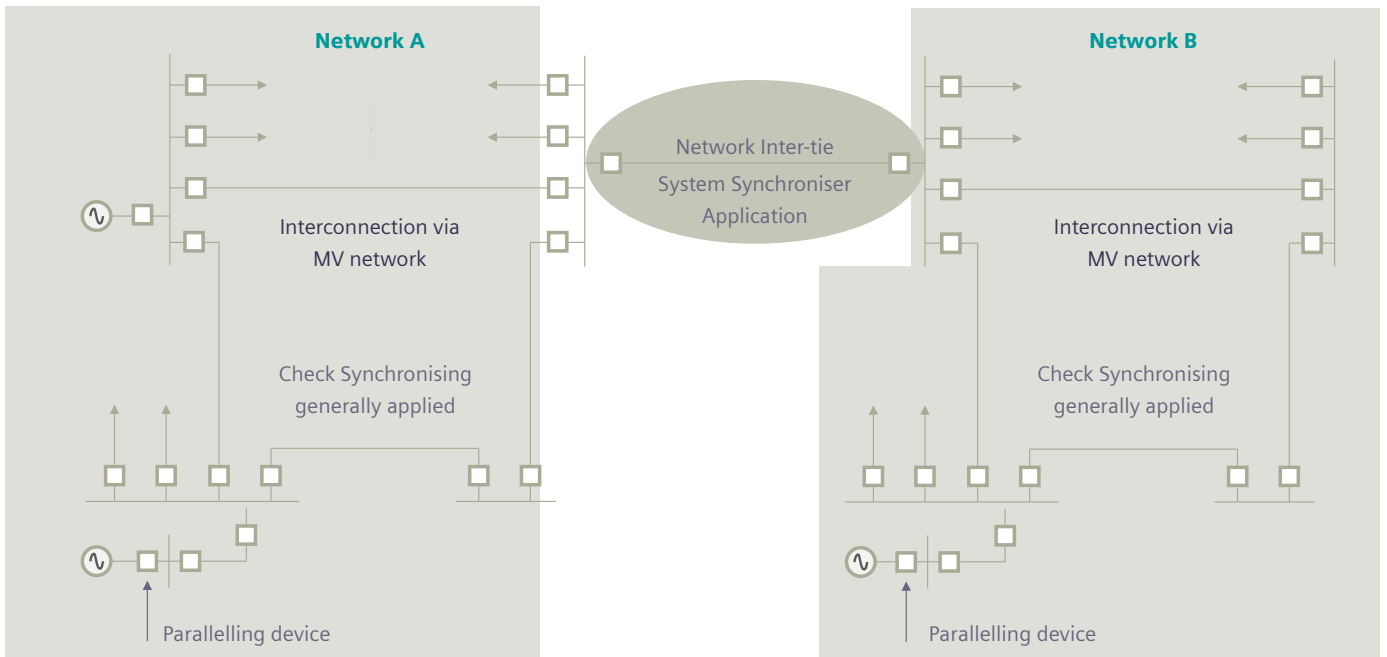
[siemens.com/reyrolle](https://www.siemens.com/reyrolle)

The Reyrolle 7SR157 Argus is a combined check and system synchronising relay designed to carry out controlled closing of a circuit breaker using measurements of the line and bus voltages. Check or system synchronising is required whenever two parts of a power system network, each containing generation, have to be connected or re-connected together. To avoid shock loading and possible damage to primary electrical plant, the voltage, frequency and phase angle difference between the two systems should be within acceptable limits relative to one another.

Highlights

- Independent check, system synchronising and close on zero settings
- Adjustable slip frequency, phase angle, voltage blocking and differential voltage blocking
- Split system detection
- Configurable dead/live bus and dead/live line voltage settings, (2 State and 3 State)
- Integrated manual close guard feature
- Synchronising bypass logic is provided to connect a dead line or bus to a live line or bus





Key Functions

25 Monitoring

- Undervoltage Detector
- Differential Voltage Detector
- Voltage Levels (Live and Dead status)

25 Control

- System Split Detector
- Voltage Trim (Magnitude and Phase)
- Check Synchronising
- Check Synchronising Close Guard
- System Synchronising
- Close On Zero (COZ) Synchronising
- System Split Lockout
- Synchronising Bypass

Close Circuit Supervision 74CCS

VT Fail Supervision 60VT

- Demand

User Interface

- Programmable from fascia
- User-definable logic: via Quicklogic equations and via graphical design tool
- 4 Setting groups
- 6 User alarms on LCD

Monitoring and Data Functions

- Measured values
- 1000 Event records
- 10 Fault records
- 10 Disturbance waveform records

Hardware

- 2 Voltage Inputs
- 3 or 6 Binary Inputs
- 5 or 8 Binary Outputs
- 9 user-configurable tri-coloured LED's
- 4 Line x 20 characters LCD Display

Communications

- Front USB port for relay interrogation
- System/service RS485 port on rear
- IEC 60870-5-103
- DNP 3.0
- MODBUS RTU
- IEC 61850

[➔ Configuration software - Reydisp Evolution](#)

[➔ Webinar series - Reyrolle essentials](#)

[➔ Catalog Reyrolle 7SR157 Argus](#)

[➔ Online shop - Industry Mall](#)

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