

ENEAS Recloser Control

Control package for the SIPROTEC 7SC80

ENEAS (Efficient Network and Energy Automation Systems) provides an economical and versatile control package for the SIPROTEC 7SC80.

The ENEAS recloser control package is available in a steel-colored and rugged housing design that offers added space for additional accessories and adaption kits of different reclosers. The cabinet also contains an auxiliary power supply, a battery-backed UPS unit, fuses and a general purpose outlet to power a laptop.

The SIPROTEC 7SC80 distribution network protection device is used to protect and automate feeders in solid or low-resistance grounded, isolated or compensated medium-voltage distribution networks.

Protection functions are flexibly configurable, allowing users to create up to 20 additional functions specifically for their needs. Primary switching devices such as grounding, isolating and transfer switches can also be monitored.

The control package for the SIPROTEC 7SC80 can be tailored to suit any recloser application – from highly sophisticated protection functions for maximum selectivity to monitoring, remote control and advanced self-healing for over headline networks.

As a self-healing solution, it ensures effective fault detection and fast reaction to specific events within the distribution network. It can be implemented directly at the feeder level using the decentralized ENEAS recloser control package with the SIPROTEC 7SC80.

The system is designed to work with independent automated devices. The self-healing logic resides in individual SIPROTEC 7SC80 feeder automation controllers located at the feeder level. The system operates autonomously without a master controller. Each feeder section can be equipped with a SIPROTEC 7SC80, and even smaller parts of the network can be significantly improved with automation.



Benefits at a glance:

- Cost-effective and future-proof solution for new or retrofit configurations
- Flexible communication options, e.g. for radio transmission used specifically in feeder automation
- Data transmission over distances of up to 24 km with a single-mode cable and up to 4 km with a multi-mode cable
- Advanced self-healing solution, automatic and rapid fault analysis, fault location and restoration of power supply, easy to configure and maintain with dedicated tool landscapes like FASE (Feeder Automation Sequence Editor)

Recloser controller specifications

- SIPROTEC 7SC80
- 4 current transformers, 1 or 4 voltage transformers
- 12 binary inputs, 8 binary outputs, 1 life contact
- Integrated GPS module for time synchronization
- 8 parameter groups, including recloser curves
- Conventional auto recloser lockout functions
- Triple-single operation

Human machine interface

- Large display with 14 function and arrow keys
- Web-based HMI
- 32 LED and 9 freely programmable function keys

Communication ports and protocols

- Electrical and optical Ethernet
- IEC 61850 Edition 1 and 2
- DNP3 TCP, IEC 60870-5-104, Profinet
- Ethernet redundancy protocols RSTP, PRP and HSR
- USB front interface for DIGSI 4

Monitoring functions

- Measured and metered values U, I, f, Wp, Wq β
- Circuit breaker wear, fuse, trip circuit monitoring
- 8 fault records
- Provides remote and local battery testing



Power supply/battery charger

- Power supply: 115 or 240 Vac, 50/60 Hz
- Charger: 50 W, regulated 48 Vdc
- Battery: 12 amp hour sealed lead acid
- Expected batteries carry over: 32 hours

Enclosure

- Material: steel, painted with RAL 7035, IP66
- Dimensions: 600 × 600 × 350 (W × H × D)
- Heater: Optional regulated enclosure heater
- Connectors: Siemens Vacuum Recloser 3AD
- Adaptors: optional adaptor kits for G&W Viper, Cooper VWVE, Cooper Kyle

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