

SIPROTEC 7SA522

The SIPROTEC 7SA522 relay provides full-scheme distance protection and incorporates all functions usually required for the protection of a power line. The relay is designed to provide fast and selective fault clearance on transmission and subtransmission cables and overhead lines with or without series capacitor compensation. The power system star point can be solid or resistance grounded (earthed), resonant-earthed via Peterson coil or isolated. The SIPROTEC 7SA522 is suitable for single-pole and three-pole tripping applications with and without tele (pilot) protection schemes.

Industry Mall

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Features & functions

Distance protection for transmission lines SIPROTEC 7SA522

Features

The SIPROTEC 7SA522 incorporates several protective functions usually required for transmission line protection.

- High-speed tripping time
- Suitable for cables and overhead lines with or without series capacitor compensation
- Self-setting power swing detection for power swing frequencies up to 7 Hz

Digital relay-to-relay communication for two and three terminal topologies

- Adaptive auto-reclosure (ADT)

Hardware

- Binary inputs: 8 to 24
- Binary outputs : 16 to 44
- High-speed trip outputs: 5/10 (optional)
- Text display
- Surface-mounting or flush-mounting housing

Communication interfaces

- System port
 - IEC 61850
 - IEC 60870-5-103
 - PROFIBUS DP
 - DNP 3
- Service port
 - DIGSI 4
 - Modem
- 2 serial protection data interface for teleprotection
- Front port
 - DIGSI 4
- Time synchronization via IRIG B, DCF 77 or system interface