SEL-787 Transformer Protection Relay

SEL Advances the State of the Art in Transformer Protection

- **Synchrophasors** detect system oscillations and potential instability.
- **Mirrored Bits® communications** is ideal for teleprotection and remote control applications.
- **Flexible communications** make control integration fast and easy.
- **Small form factor** speeds new installations and retrofits of electromechanical relays.
- **Commissioning Assistant** is the first transformer relaying software that recommends correction settings after identifying errors.

**Optimize the Life of Your Transformers by Monitoring Key Health Indicators**

- Cumulative Through-Fault Current Recording
- Measurement and Logic Input

**Flexible Communications**

- Single or Dual
- Copper or Fiber Ethernet Port
- Three or Four* Serial Ports

*Optional

**Use Commissioning Assistant to Easily Generate Differential Compensation Settings**

**Industry-Leading Quality, Reliability, and Customer Service**

- -40°C to +85°C

Making Electric Power Safer, More Reliable, and More Economical®
Functional Overview

Power supply options include 24–48 Vdc or 110–250 Vdc/110–240 Vac.

Positions for optional expansion cards.

Optional Modbus TCP, Telnet, FTP, IEC 61850, and DNP3 LAN/WAN.

Single or dual copper or fiber Ethernet port.

Two-winding CT inputs.

Feature Overview

SEL-787 Transformer Protection Relay

- Overvoltage
  - Phase
  - Ground
  - Neg. Seq.
  - Breaker Failure

- Undervoltage
  - Phase

- Overcurrent
  - Phase
  - Ground
  - Neg. Seq.
  - Breaker Failure

- Neutral Overcurrent
- Neutral Time-Overcurrent
- Restricted Earth Fault (REF)

- Temperature Alarm and Trip
- Current Differential

- Overvoltage
  - Phase
  - Ground
  - Mem. Seq.

- Undervoltage
  - Phase

- Overcurrent
  - Phase
  - Ground
  - Mem. Seq.

- Time-Overcurrent
  - Phase
  - Ground
  - Mem. Seq.

- Neutral Overcurrent
- Neutral Time-Overcurrent
- Restricted Earth Fault (REF)

- Voltage Input
- IRIG-B input.
- Fiber-optic serial port.
- Shown with optional RTD inputs.
- Optional neutral CT input (REF).
- Optional voltage input.

Ordering Options

- CPU Board
  - Single or dual copper or fiber Ethernet port
  - EIA-232 or EIA-485 rear port
  - IRIG-B input

- Optional Expansion Cards
  - 3 digital inputs/4 digital outputs/4–20 mA analog output
  - 4 digital inputs/4 digital outputs (electromechanical)
  - 4 analog inputs/4 analog outputs (fast, high-current interrupting)
  - 8 digital inputs
  - 10 RTD inputs
  - Neutral ac current input
  - Neutral ac current input/three-phase ac voltage (300 Vac) input

- Conformal Coating