| Applications | SEL-451 | SEL-351 | SEL-351A | SEL-351S | SEL-851 | SEL-751 | SEL-751A | SEL-501/501-2 | SEL-551/551C |
|---|---|---|---|---|---|---|---|---|---|
| Distribution Feeder Protection | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| Breaker Failure Protection | ■ | ■ | *ƒ* | ■ | ■ | ■ | ■ | + | *ƒ* |
| Generator Intertie Protection | ■ | ■ | ■ | ■ | | + | + | | |
| Synchronism Check | ■ | ■ | ■ | ■ | | + | + | | |
| Underfrequency Load Shedding | *ƒ* | ■ | ■ | ■ | ■ | ■ | ■ | | |
| Undervoltage Load Shedding | *ƒ* | ■ | ■ | ■ | + | + | + | | |
| **Protection** | | | | | | | | | |
| 27/59 Under-/Overvoltage | ■ | ■ | ■ | ■ | + | + | + | | |
| 32 Directional Power Elements | ■ | + | | + | + | + | + | | |
| 49 IEC Line/Cable Thermal Overload | *ƒ* | | | | | ■ | | | |
| 50 (P,N,G,Q) Overcurrent Element (Phase, Neutral, Ground, Negative Sequence) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 51 (P,N,G,Q) Time Overcurrent Element (Phase, Neutral, Ground, Negative Sequence) | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ | ■ |
| 67 (P,N,Q) Directional Overcurrent (Phase, Neutral, Negative Sequence) | ■ | ■ | ■ | ■ | | + | | | |
| 78VS Vector Shift | | | | | | + | | | |
| 81 Over-/Underfrequency | ■ | ■ | ■ | ■ | + | ■ | + | | |
| Separate Neutral Overcurrent | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ |
| Load Encroachment Supervision | ■ | ■ | ■ | ■ | | ■ | | | |
| Low-Energy Analog (LEA) Voltage Inputs | + | | | | | + | | | |
| Directional Sensitive Earth Fault Protection | | + | + | + | | + | | | |
| Pilot Protection Logic | ■ | ■ | | ■ | | | | | |
| Rate-of-Change of Frequency (df/dt) | ■ | ■ | ■ | ■ | | + | + | | |
| Harmonic Blocking | ■ | ■ | + | ■ | ■ | ■ | | | |
| Arc Sense™ Technology (AST) High-Impedance Fault Detection | + | | | | | + | | | |
| Arc-Flash Detection | | | | | + | + | + | | |
| Phantom Phase Voltage | | ■ | ■ | ■ | | | | | |
| Current/Voltage Channels | 6/6 | 4/4 | 4/4 | 4/4 | 4/3 | 4/3<br>4/5+ | 4/0<br>4/5+ | 6/0 | 4/0 |
| Complete Two-Breaker Control | ■ | | | | | | | ■ | |

| Instrumentation and Control | SEL-451 | SEL-351 | SEL-351A | SEL-351S | SEL-851 | SEL-751 | SEL-751A | SEL-501/501-2 | SEL-551/551C |
|---|---|---|---|---|---|---|---|---|---|
| 79 Automatic Reclosing | ■ | ■ | ■ | ■ | ■ | + | + | | ■ |
| Fault Locating | ■ | ■ | ■ | ■ | | + | | | |
| SELOGIC® Control Equations With Remote Control Switches | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ |
| SELOGIC Counters | ■ | | | | ■ | ■ | ■ | | |
| Voltage Check on Closing | ■ | ■ | ■ | ■ | | + | + | | |
| SELOGIC Nonvolatile Latch | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | + |
| Nonvolatile Local Control Switches | ■ | ■ | + | ■ | | ■ | ■ | | ■ |
| Substation Battery Monitor | ■ | ■ | ■ | ■ | | + | + | | |
| Breaker/Recloser Wear Monitor | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | |
| Trip Coil Monitor | *ƒ* | *ƒ* | *ƒ* | *ƒ* | | *ƒ* | *ƒ* | | *ƒ* |
| Voltage Sag, Swell, and Interruption (VSSI) | ■ | + | | + | | | | | |
| Load/Signal Profile Recorder | ■ | + | | + | ■ | ■ | ■ | | |
| Sequential Events Recorder | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | ■ |
| Software-Invertible Polarities | ■ | | | | | | | | |
| IEC 60255-Compliant Thermal Model | ■ | | | | | | | | |
| DNP3 Level 2 Outstation | ■ | ■ | ■ | ■ | + | + | + | | |
| Parallel Redundancy Protocol (PRP) | + | ■ | ■ | ■ | | + | | | |
| IEEE 1588 Precision Time Protocol Version 2 (PTPv2) | + | | | | | + | | | |
| Time-Domain Link (TiDL®) Technology | + | | | | | | | | |
| IEEE C37.118 Synchrophasors | ■ | ■ | ■ | ■ | | ■ | ■ | | |
| Bay Control | ■ | | | | | + | | | |
| Ethernet | + | ■ | ■ | ■ | + | + | + | | |
| EtherNet/IP | | | | | | + | | | |
| IEC 61850 | + | + | + | + | + | + | + | | |
| IEC 61850 Edition 2 | + | | | | + | + | | | |
| IEC 61850-9-2 Sampled Values Technology | + | | | | | | | | |
| Simple Network Time Protocol (SNTP) | ■ | ■ | ■ | ■ | + | + | + | | |
| Harmonic Metering | | ■ | ■ | ■ | ■ | | | | |
| RMS Metering | ■ | ■ | ■ | ■ | ■ | ■ | ■ | | |

■ Standard feature + Model option *ƒ* May be created using settings