

SEL-787 and SEL-787-2/-3/-4 Comparison

selinc.com/products/comparisons/787-787-2-compare

■ Standard feature + Model option

Features	SEL-787	SEL-787-2/-3/-4
Display/Front Panel		
5" Color Touchscreen Display, 800 × 480 Resolution		+
8 Front-Panel Pushbuttons, Customizable		■
Supported Languages		+ (Spanish)
CT/PT Inputs		
Differential Current	6	Up to 12
VS/VBAT Channel	0	Up to 1
Differential and Restricted Earth Fault (REF) Elements		
Differential Protection Windings (Standard)	2	2, 3, or 4
Differential Protection Windings (Winding 3 Configured for REF)		Up to 3
REF Elements (Winding 3 Configured for REF)		Up to 2
Protection Elements		
24 Overexcitation (Volts/Hertz)	+	■ (-2E/-3E/-3S)
25 Synchronism Check		■ (-3S)
27I Inverse-Time Undervoltage (Phase, Phase-to-Phase, Sequential, Vsync)		■ (-2E/-3E/-3S)
27P Undervoltage (Phase) With Inverse Characteristic	+	■ (-2E/-3E/-3S)
27PP Phase-to-Phase Undervoltage		■ (-2E/-3E/-3S)
27S VS Channel Undervoltage		■ (-3S)
32 Directional Power	+	■ (-2E/-3E/-3S)
50N Neutral Overcurrent	+	■ (-2I/-2E/-3E)
51N Neutral Time Overcurrent	+	■ (-2I/-2E/-3E)
51PC Combined Winding Phase Time Overcurrent		■ (-3E, -3S, -4X)
51GC Combined Winding Ground Time Overcurrent		■ (-3E, -3S, -4X)
59 (P,G,Q) Overvoltage (Phase, Ground, Neg. Seq.)	+	■ (-2E/-3E/-3S)
59PP Phase-to-Phase Overvoltage		■ (-2E/-3E/-3S)
59I Inverse-Time Overvoltage (Phase, Phase-to-Phase, Sequential, Vsync)		■ (-2E/-3E/-3S)
59S VS Channel Overvoltage		■ (-3S)
60LOP Loss of Potential		■ (-2E/-3E/-3S)
81 (O,U) Over-/Underfrequency	+	■ (-2E/-3E/-3S)

Common features are not listed in this comparison. For more information, visit the product pages.

SEL-787 and SEL-787-2/-3/-4 Comparison, Continued

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Features	SEL-787	SEL-787-2/-3/-4
Instrumentation and Control		
Windings Protected	2	2, 3, or 4
14 Digital Inputs Card Support		+
DFR Event Reports	15 or 64 cycles	15, 64, or 180 cycles
Data Acquisition	16 samples/cycle	32 samples/cycle
Frequency Tracking	20–70 Hz	15–70 Hz
Incoming GOOSE Message Support	16	64
RTU Remote Terminal Unit	+	■
PMU Synchronized Phasor Measurement	Up to 10 messages/second	Up to 60 messages/second at 60 Hz
Multiposition Disconnect Switches		■
Control Disconnect Switches From Bay Diagram		■
Firmware Downloads Via Ethernet		+
WEB Web Server		+
Substation Battery Monitor		+
Communications Protocols		
IEC 61850 Edition 2		+
IEC 60870-5-103 Protocol		+
EtherNet/IP		+
Parallel Redundancy Protocol (PRP)		+
IEEE 1588 Precision Time Protocol (PTP)		+

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