Distribution Feeder Protection Features

selinc.com/products/comparisons/feeder-protection

■ Standard feature + Model option

ƒ This function can be programmed using logic

Features	SEL-451	SEL-351	SEL-351A	SEL-351S	SEL-851	SEL-751	SEL-751A	SEL-501 SEL-501-2	SEL-551 SEL-551C
Distribution Protection—Applications									
Distribution Feeder Protection	■	■	■	■	■	■	■	■	■
BF Breaker Failure Protection	■	■	*ƒ*	■	■	■	■	+	*ƒ*
Generator Intertie Protection	■	■	■	■		+	+		
25 Synchronism Check	■	■	■	■		+	+		
Underfrequency Load Shedding		■	■	■	+	■	■		
Undervoltage Load Shedding		■	■	■	+	+	+		
Protection									
27/59 Under-/Overvoltage	■	■	■	■	+	+	+		
32 Directional Power Elements	*ƒ*	+		+	+	+	+		
49 IEC Line/Cable Thermal Overload	*ƒ*					■			
50 (P,N,G,Q) Overcurrent Element (Phase, Neutral, Ground, Neg. Seq.)	■	■	■	■	■	■	■	■	■
51 (P,N,G,Q) Time-Overcurrent Element (Phase, Neutral, Ground, Neg. Seq.)	■	■	■	■	■	■	■	■	■
67 (P,N,Q) Directional Overcurrent (Phase, Neutral, Neg. Seq.)	■	■	■	■		+			
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	■	■		■					
81R User Rate-of-Change-of-Frequency (df/dt)	*ƒ*	■	■	■		+	+		
81RF Fast Rate-of-Change-of-Frequency	*ƒ*					+	+		
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	4/0 Standard 4/3 Optional	4/3 Standard 4/5 Optional	4/0 Standard 4/5 Optional	6/0	4/0
Complete Two-Breaker Control	■							■	

Distribution Feeder Protection Features, Continued

selinc.com/products/comparisons/feeder-protection

■ Standard feature + Model option

ƒ This function can be programmed using logic

Features	SEL-451	SEL-351	SEL-351A	SEL-351S	SEL-851	SEL-751	SEL-751A	SEL-501 SEL-501-2	SEL-551 SEL-551C
Instrumentation and Control									
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						+			
Built-In Web Server	■				■	■			
IEC 61850	+	+	+	+	+	+	+		
IEC 61850 Edition 2	+				+	+			
IEC 61850-9-2 Sampled Values Technology	+								
Firmware Option With Mirrored Bits Communications Available	■	■		■	■	■	■		
Simple Network Time Protocol (SNTP)	■	■	■	■	■	+	+		
Harmonic Metering		■	■	■	■				
RMS Metering	■	■	■	■	■	■	■		