

# Bus Protection

Applications	SEL-387	SEL-487B	SEL-487E	SEL-587Z
Breaker Failure Protection	<i>f</i>	■	■	<i>f</i>
Bus Differential	<i>f</i>	■	■	■
Transformer and Machine Current Differential	■		■	
High-Impedance Bus Differential				■
Low-Impedance Bus Differential	■	■	■	
Three-Phase Current Inputs	4	7/10/21 <sup>†</sup>	5	Common
Three-Phase Voltage Inputs		1	2	

## Protection

27/59 Under-/Overvoltage		■	■	
46 Current Unbalance		<i>f</i>	■	
47 Voltage Unbalance			<i>f</i>	
50 (N,G) Overcurrent (Neutral, Ground)	■		■	■
50P Phase Overcurrent	■	■	■	■
50Q Negative-Sequence Overcurrent	■		■	■
51 (N,G) Time Overcurrent (Neutral, Ground)	■		■	■
51P Phase Time Overcurrent	■	■	■	■
51Q Negative-Sequence Time Overcurrent	■		■	■
87 Current Differential	■	■	■	
87Z High-Impedance Differential				■
Single-Pole Trip/Close		■		
Three-Phase Differential Bus Zones	1	2/3/6 <sup>†</sup>	1	1
Check Zones		3		

Instrumentation and Control	SEL-387	SEL-487B	SEL-487E	SEL-587Z
79 Automatic Reclosing		<i>f</i>	<i>f</i>	
Dynamic Zone Selection		■		
SELogic® Control Equations	■	■	■	■
Nonvolatile Latch Control Switches	■	■	■	
SELogic Remote/Local Control Switches	■	■	■	■
Display Points	■	■	■	■
Multiple Settings Groups	■	■	■	
Substation Battery Monitor	■	■	■	
Breaker Wear Monitor	■		■	
Event Report (Multicycle Data)	■	■	■	■
Sequential Events Recorder	■	■	■	■
Instantaneous Meter	■	■	■	■
Demand Meter	■		■	■
Through-Fault Monitor	■		■	
Software-Invertible Polarities			■	
IEC 60255-Compliant Thermal Model			■	
IEEE C37.118 Synchrophasors			■	
Synchrophasor Real-Time Control			■	
IEC 61850		+	+	
IEC 61850-9-2 Sampled Values Technology		+	+	
Built-In Web Server		■	■	
Simple Network Time Protocol (SNTP)		■	■	
MIRRORED BITS® Communications		■	■	
Parallel Redundancy Protocol (PRP)		■	■	
IEEE 1588 Precision Time Protocol Version 2 (PTPv2)		+	+	
Time-Domain Link (TIDL®) Technology		+	+	
<b>Miscellaneous Features</b>				
Connectorized® (Quick Disconnect) Available	+	+	+	

■ Standard feature    + Model option    <sup>†</sup>1/2/3 relay application

*f* May be created using settings