GENERATOR AND MOTOR PROTECTION FEATURES

GENERATOR AND MOTOR PROTECTION	SEL-300G	SEL-700G	SEL-700GT	SEL-700GW	SEL-2664S	SEL-710, SEL-710-5	SEL-749M	SEL-849
APPLICATIONS								
Generator Protection	•	•	+		•			
Induction Motor Protection						•	•	•
Synchronous Motor Protection						+		
Feeder Protection				•				•
Breaker Failure Protection	ƒ	•	•			•	ƒ	•
Equipment Thermal Monitoring	+	+	+	+		+	+	•
Generator Intertie Protection			•					
Synchronism Check	+	+	•					
Integrated Synchronizer		+	+					
PROTECTION								
21P Phase Mho or Compensator Distance	•	+						
24 Overexcitation (Volts/Hertz)	•	•	•					
27/59 Under-/Overvoltage	•	•	•		•	•	+	+
32/37 Directional/Underpower Elements	•	•	•			+	+	+
40 Loss-of-Field	•	•	+			+		
46 Current Unbalance	•	•	+			•	•	•
47 Phase Reversal						•	•	•
49 Thermal		•	+			•	•	•
50 (P,N,G) Overcurrent (Phase, Neutral, Ground)	•	•	•	•		•	•	•
50Q Negative-Sequence Overcurrent	•	•	•	•		•		•
51 (N,G) Time-Overcurrent (Neutral, Ground)	•	•	•	•		•		•
51 (P,Q) Time-Overcurrent (Phase, Neg. Seq.)			•	•		•		•
55 Power Factor	ƒ	ƒ	ƒ			•	+	+
60 Loss-of-Potential	•	•	•			+	ƒ	+
64G 100 Percent Stator Ground	•	+						
64F Field Ground	•	•	+					
64S Injection-Based 100 Percent Stator Ground					•			
67 (N,G) Directional Overcurrent (Neutral, Ground)		•	•					
78 Out-of-Step	•	•				+		
81 Over-/Underfrequency	•	•	•			•	•	+
87 Current Differential	+	+				+		
87G Restricted Earth Fault		•	+					
Arc-Flash Detection						+		•
Separate Neutral Overcurrent	•	•	+			•	•	•
Broken Rotor Bar Detection						+		
INSTRUMENTATION AND CONTROL								
Multiple Settings Groups	•	•	•	•	•	•		
Breaker Wear Monitor	•	•	•	•		•		
Demand Meter	•	•	•	•		•		•
Load Profile Report		•	•	•		•		•
RTD (Resistance Temperature Detector) Inputs	+	+	+	+		+	+	
Ethernet		+	+	+	•	+		•
IEC 61850		+	+	+	•	+		+
DNP3 LAN/WAN		+	+	+	•	+		
Simple Network Time Protocol (SNTP)		•	•	•		•		•
Modbus® TCP		•	•	•	•	•		•
Modbus RTU Outstation	+	•	•	•		•	•	•
Synchrophasors With IEEE C37.118 Protocol		•	•	•		•		
Mirrored Bits® Communications		•	•	•	•	•		
DeviceNet™		+	+	+		+	+	

• Standard Feature + Model Option ƒ This function may be created using settings