## SEL-700G-0, -1, -T, -W Generator and Inertie Protection Relay

## **Standard Features**

## Protection

- Thermal Elements
- Overcurrent
- Breaker Monitoring
- Breaker Failure

## Hardware

- 2 Digital Inputs (DI)
  - Slot A
- 3 Digital Outputs (DO)
  - Slot A
- Multimode Fiber ST (Port 2)
  - Slot B
- IRIG-B Time Code Input
  - Slot B

## Human Machine Interface (HMI)

- Display
- 8 Programmable Pushbuttons With Two Tri-Color LEDs each
- 8 Target Tri-Color LEDs (6 Programmable)

- Operator Control Interface
- EIA-232 Port (Port F)
- Multi-language support

## Protocols

- Modbus RTU
- SEL ASCII and Compressed ASCII
- SEL Fast Meter, Fast Operate, Fast SER
- SEL Fast Message
- Ymodem File Transfer
- SEL MIRRORED BITS Communications
- Event Messenger

### Other

- Instruction Manual CD
- ACSELERATOR QuickSet SEL-5030 Software
- User Configurable Labels

Note: SEL-700G relays manufactured with firmware R200 or above have eight pushbuttons. All relays manufactured with prior firmware versions have only four pushbuttons.

Part Number:	0	7	0	0	G									
Model Options														
700G0, Basic Generator Protection with						0								
87N, REF, 49T, 50/51G, 51V/C, 46, BF, 27/59, 24, 64F, 67G/N, 32, 40, 60LOP, 81/81R														
700G0+, Basic Generator Protection plus Gen 25, 64G, 21, 78, 78VS, Auto Synchronizer						0								
700G1, Basic Generator Protection plus 87, 21, 78, 78VS						1								
700G1+, Basic Generator Protection plus 87, Gen 25, 64G, 21, 78, 78VS, Auto Synchronizer						1								
700GT, Intertie Protection with 50/51, BF, 67P/Q/G, Tie 25, 27/59, 32, 60LOP, 81/81R						Т								
700GT+, Intertie and Basic Generator Protection plus Auto Synchronizer						Т								
700GW, Wind Generator Protection with Dual feeder 50/51, BF, 64F						W								
User Interface   Front Panel														
English   2x16 LCD With 8 Pushbuttons												0		
English   5 in Color Touchscreen With 8 Pushbuttons												Α		
Spanish   2x16 LCD With 8 Pushbuttons												1		
Spanish   5 in Color Touchscreen With 8 Pushbuttons												В		

Slot A Power Supply Voltage | Slot A Digital Input Voltage

1 A
1 B
1 C
1 D
1 G
1 H
2 A
2 B
2 C
2 D
2 G
2 H

Slot B Ethernet (Port 1) | Rear Serial Port (Port 3)
o EIA-485 available only with No Ethernet or Single 10/100BASE-T Ethernet options in slot B

None   EIA-232	0
None   EIA-485	1
Single 10/100BASE-T   EIA-232	2
Single 10/100BASE-T   EIA-485	3
Single 100BASE-FX MM LC   EIA-232	4
Dual 10/100BASE-T   EIA-232	6
Dual 100BASE-FX MM LC   EIA-232	8

# **IEC 61850 Protocol | DNP3 Protocol | IEC 60870-5-103 Protocol | EtherNet/IP Protocol** o IEC 61850 and EtherNet/IP available only for models with Ethernet options in Slot B

None	0
IEC 61850 Protocol	1
DNP3 Protocol	2
IEC 61850 Protocol   DNP3 Protocol	3
IEC 60870-5-103 Protocol	4
IEC 61850 Protocol   IEC 60870-5-103 Protocol	5
DNP3 Protocol   IEC 60870-5-103 Protocol	6
IEC 61850 Protocol   DNP3 Protocol   IEC 60870-5-103 Protocol	7
EtherNet/IP Protocol	8
IEC 61850 Protocol   EtherNet/IP Protocol	9
DNP3 Protocol   EtherNet/IP Protocol	Α
IEC 60870-5-103 Protocol   EtherNet/IP Protocol	В
IEC 61850 Protocol   DNP3 Protocol   EtherNet/IP Protocol	С
IEC 61850 Protocol   IEC 60870-5-103 Protocol   EtherNet/IP Protocol	D
DNP3 Protocol   IEC 60870-5-103 Protocol   EtherNet/IP Protocol	E
IEC 61850 Protocol   DNP3 Protocol   IEC 60870-5-103 Protocol   EtherNet/IP Protocol	F

Slot C | Slot C Digital Input Voltage o Only one (1) 3 DI / 4 DO / 1 AO card per chassis o Only one (1) 4 AI / 4 AO card per chassis

o Only one (1) 4 AI / 4 AO card per chassis		
Empty	0 X	
Serial Communications (EIA-232/485)	A 0	
3 DI / 4 DO / 1 AO (4-20 mA Range)   125 Vdc/Vac	ВА	
3 DI / 4 DO / 1 AO (4-20 mA Range)   24 Vdc/Vac	ВВВ	
3 DI / 4 DO / 1 AO (4-20 mA Range)   48 Vdc/Vac	ВС	
3 DI / 4 DO / 1 AO (4-20 mA Range)   110 Vdc/Vac	B D	
3 DI / 4 DO / 1 AO (4-20 mA Range)   220 Vdc/Vac	B G	
3 DI / 4 DO / 1 AO (4-20 mA Range)   250 Vdc/Vac	ВН	
4 DI / 4 DO Electromechanical   125 Vdc/Vac	1 A	
4 DI / 4 DO Electromechanical   24 Vdc/Vac	1 B	
4 DI / 4 DO Electromechanical   48 Vdc/Vac	1 C	
4 DI / 4 DO Electromechanical   110 Vdc/Vac	1 D	
4 DI / 4 DO Electromechanical   220 Vdc/Vac	1 G	
4 DI / 4 DO Electromechanical   250 Vdc/Vac	1 H	
4 DI / 4 DO Fast High Current Hybrid   125 Vdc/Vac	CA	
4 DI / 4 DO Fast High Current Hybrid   24 Vdc/Vac	CB	
4 DI / 4 DO Fast High Current Hybrid   48 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid	C C	
110 Vdc/Vac  4 DI / 4 DO Fast High Current Hybrid	C D	
220 Vdc/Vac  4 DI / 4 DO Fast High Current Hybrid	CG	
250 Vdc/Vac  4 DI / 3 DO Electromechanical	CH	
(2 Form C, 1 Form B)   125 Vdc/Vac 4 DI / 3 DO Electromechanical	D A	
(2 Form C, 1 Form B)   24 Vdc/Vac 4 DI / 3 DO Electromechanical	D B	
(2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 3 DO Electromechanical	D C	
(2 Form C, 1 Form B)   110 Vdc/Vac 4 DI / 3 DO Electromechanical	D D G	
(2 Form C, 1 Form B)   220 Vdc/Vac 4 DI / 3 DO Electromechanical	DH	
(2 Form C, 1 Form B)   250 Vdc/Vac 8 DO Electromechanical (Form A)		
8 DI   125 Vdc/Vac	2 X	
8 DI   24 Vdc/Vac	3 A 3 B	
8 DI   48 Vdc/Vac	3 C	
8 DI   110 Vdc/Vac	3 D	
8 DI   220 Vdc/Vac	3 G	
8 DI   250 Vdc/Vac	3 H	
14 DI   125 Vdc/Vac	4 A	

14 DI   24 Vdc/Vac	4 B
14 DI   48 Vdc/Vac	4 C
14 DI   110 Vdc/Vac	4 D
14 DI   220 Vdc/Vac	4 G
14 DI   250 Vdc/Vac	4 H
4 AI / 4 AO (±20 mA or ±10 V Range)	6 X

Slot D | Slot D Digital Input Voltage o Only one (1) 3 DI / 4 DO / 1 AO card per chassis o Only one (1) 4 AI / 4 AO card per chassis

o only one (1) 4 A1 / 4 AO card per chass	ло	
Empty		0 X
3 DI / 4 DO / 1 AO (4-20 mA Range)   125 Vdc/Vac		BA
3 DI / 4 DO / 1 AO (4-20 mA Range)   24 Vdc/Vac		ВВ
3 DI / 4 DO / 1 AO (4-20 mA Range)   48	3	B C
Vdc/Vac		
3 DI / 4 DO / 1 AO (4-20 mA Range)   110 Vdc/Vac		BD
3 DI / 4 DO / 1 AO (4-20 mA Range)   220 Vdc/Vac		BG
3 DI / 4 DO / 1 AO (4-20 mA Range)   250 Vdc/Vac		BH
4 DI / 4 DO Electromechanical   125 Vdc/Vac		1 A
4 DI / 4 DO Electromechanical   24 Vdc/Vac		1 B
4 DI / 4 DO Electromechanical		1 C
48 Vdc/Vac		
4 DI / 4 DO Electromechanical   110 Vdc/Vac		1 D
4 DI / 4 DO Electromechanical   220 Vdc/Vac		1 G
4 DI / 4 DO Electromechanical   250 Vdc/Vac		1 H
4 DI / 4 DO Fast High Current Hybrid   125 Vdc/Vac		CA
4 DI / 4 DO Fast High Current Hybrid   24 Vdc/Vac		CB
4 DI / 4 DO Fast High Current Hybrid   48 Vdc/Vac		CC
4 DI / 4 DO Fast High Current Hybrid   110 Vdc/Vac		CD
4 DI / 4 DO Fast High Current Hybrid   220 Vdc/Vac		CG
4 DI / 4 DO Fast High Current Hybrid   250 Vdc/Vac		СН
4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   125 Vdc/Vac		DA
4 DI / 3 DO Electromechanical		D B
(2 Form C, 1 Form B)   24 Vdc/Vac		
4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac		D C
4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   110 Vdc/Vac		DDD
4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   220 Vdc/Vac		DG
4 DI / 3 DO Electromechanical		DH
(2 Form C, 1 Form B)   250 Vdc/Vac		
8 DO Electromechanical (Form A)		2 X
8 DI   125 Vdc/Vac		3 A
8 DI   24 Vdc/Vac		3 B

8 DI   48 Vdc/Vac				3	C
8 DI   110 Vdc/Vac				3	D
8 DI   220 Vdc/Vac				3	G
8 DI   250 Vdc/Vac				3	H
14 DI   125 Vdc/Vac			4	4	A
14 DI   24 Vdc/Vac				4	В
14 DI   48 Vdc/Vac			-	4	C
14 DI   110 Vdc/Vac			-	4	D
14 DI   220 Vdc/Vac				4	G
14 DI   250 Vdc/Vac			4	4	H
4 AI / 4 AO (±20 mA or ±10 V Range)				6	X
10 RTD Inputs				9	X

Slot E | Slot E Digital Input Voltage
o Only one (1) 3 DI / 4 DO / 1 AO card per chassis
o Only one (1) 4 AI / 4 AO card per chassis

Empty	o Only one (1) 4 Al / 4 AO card per chass	IS		
125 Vdc/Vac	Empty		0	0 X
Vdc/Vac			0	BA
3 D1 / 4 D0 / 1 A0 (4-20 mA Range)   48			0	ВВВ
3 DI / 4 DO / 1 AO (4-20 mA Range)   10	3 DI / 4 DO / 1 AO (4-20 mA Range)   48		0	BC
3 DI / 4 DO / 1 AO (4-20 mA Range)   0	3 DI / 4 DO / 1 AO (4-20 mA Range)		0	BD
250 Vdc/Vac 4 DI / 4 DO Electromechanical   0 1 A   1   A   1   1   25 Vdc/Vac 4 DI / 4 DO Electromechanical   0 1 B   0   1 B   0   1   A   1   D   1   D   D   D   D   D   D   D	3 DI / 4 DO / 1 AO (4-20 mA Range)		0	BG
125 Vdc/Vac	, , ,		0	ВН
24 Vdc/Vac 4 DI / 4 DO Electromechanical   48 Vdc/Vac 4 DI / 4 DO Electromechanical   110 Vdc/Vac 4 DI / 4 DO Electromechanical   120 Vdc/Vac 4 DI / 4 DO Electromechanical   220 Vdc/Vac 4 DI / 4 DO Electromechanical   250 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   125 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   125 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   124 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   18 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   19 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   10 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   10 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   10 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   10 C D 10 D 11 H 125 Vdc/Vac 4 DI / 5 DO Fast High Current Hybrid   10 C C C 10 D 11 D 11 D 125 Vdc/Vac 4 DI / 5 DO Fast High Current Hybrid   10 C D 10 D 11 D 11 D 125 Vdc/Vac 4 DI / 5 DO Electromechanical (2 Form C, 1 Form B)   24 Vdc/Vac 4 DI / 5 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 5 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 5 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 5 DO Electromechanical	· ·		0	1 A
48 Vdc/Vac 4 DI / 4 DO Electromechanical   110 Vdc/Vac 4 DI / 4 DO Electromechanical   220 Vdc/Vac 4 DI / 4 DO Electromechanical   250 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   125 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   24 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   24 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   4 DI / 4 DO Fast High Current Hybrid   8 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   110 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   110 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   250 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   250 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   125 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   24 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   24 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 3 DO Electromechanical	The state of the s		0	1 B
110 Vdc/Vac 4 DI / 4 DO Electromechanical   220 Vdc/Vac 4 DI / 4 DO Electromechanical   250 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   125 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   125 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   24 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   48 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   48 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   110 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   120 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   220 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   250 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   125 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   24 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   24 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   24 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   18 Vdc/Vac 4 DI / 3 DO Electromechanical	· ·		0	1 C
220 Vdc/Vac 4 DI / 4 DO Electromechanical   250 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   125 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   24 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   0 C B 250 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   0 C C C 4 DI / 4 DO Fast High Current Hybrid   0 C C C 4 DI / 4 DO Fast High Current Hybrid   0 C C C 4 DI / 4 DO Fast High Current Hybrid   0 C C C 4 DI / 4 DO Fast High Current Hybrid   0 C C C 4 DI / 4 DO Fast High Current Hybrid   0 C C C 4 DI / 4 DO Fast High Current Hybrid   0 C C C 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   125 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   24 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 3 DO Electromechanical	· · · · · · · · · · · · · · · · · · ·		0	1 D
250 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   125 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   24 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   26 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   27 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   28 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   29 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   20 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   250 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   125 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   24 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 3 DO Electromechanical			0	1 G
125 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   24 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   48 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   110 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   110 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   220 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   220 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   250 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   125 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   24 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 3 DO Electromechanical			0	1 H
24 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   48 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   110 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   220 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   250 Vdc/Vac 4 DI / 4 DO Fast High Current Hybrid   250 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   125 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   24 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 3 DO Electromechanical			0	CA
4 DI / 4 DO Fast High Current Hybrid   110 Vdc/Vac			0	CB
110 Vdc/Vac  4 DI / 4 DO Fast High Current Hybrid   220 Vdc/Vac  4 DI / 4 DO Fast High Current Hybrid   0			0	CC
220 Vdc/Vac  4 DI / 4 DO Fast High Current Hybrid   0			0	CD
250 Vdc/Vac  4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   125 Vdc/Vac  4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   24 Vdc/Vac  4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   24 Vdc/Vac  4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac  4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac			0	CG
(2 Form C, 1 Form B)   125 Vdc/Vac  4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   24 Vdc/Vac  4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac  4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac  4 DI / 3 DO Electromechanical  0 D D			0	СН
(2 Form C, 1 Form B)   24 Vdc/Vac  4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   48 Vdc/Vac  4 DI / 3 DO Electromechanical  0 D D			0	DA
(2 Form C, 1 Form B)   48 Vdc/Vac 4 DI / 3 DO Electromechanical  0 D D	· ·		0	DB
4 DI / 3 DO Electromechanical			0	DC
	4 DI / 3 DO Electromechanical		0	DD

4 DI / 3 DO Electromechanical (2 Form C, 1 Form B)   220 Vdc/Vac		0	D	G		
4 DI / 3 DO Electromechanical		0	D	Н		
(2 Form C, 1 Form B)   250 Vdc/Vac						
3-Phase Rogowski Coil or Low Power Current Transformer (RJ45 inputs), 3-		T	L	1		
Phase and Vsync Input LEA Voltage						
Sensor (RJ45 inputs)(SELECT 3 ACI / 4 AVI)						
3-Phase Rogowski Coil or Low Power		1	L	2		
Current Transformer (RJ45 inputs), 1- Neutral and Vsync Input LEA Voltage						
Sensor (RJ45 inputs)(SELECT 3 ACI / 2 AVI)						
3-Phase Rogowski Coil or Low Power Current Transformer (RJ45 inputs)			L	3		
(SELECT 3 ACI)						
o 700G1 and 700GW models only						
8 DO Electromechanical (Form A)		0	2			
8 DI   125 Vdc/Vac		0	3			
8 DI   24 Vdc/Vac		0	3	В		
8 DI   48 Vdc/Vac		0	3			
8 DI   110 Vdc/Vac		0	3	D		
8 DI   220 Vdc/Vac		0	3	G		
8 DI   250 Vdc/Vac		0	3	Н		
14 DI   125 Vdc/Vac		0	4	Α		
14 DI   24 Vdc/Vac		0	4	В		
14 DI   48 Vdc/Vac		0	4	С		
14 DI   110 Vdc/Vac		0	4	D		
14 DI   220 Vdc/Vac		0	4	G		
14 DI   250 Vdc/Vac		0	4	H		
4 AI / 4 AO		0	6	X		
(±20 mA or ±10 V Range) 3-Phase 1 Amp AC Current Input / 3-		T	7	1		
Phase AC Voltage (300 Vac) Input and		T	/	1		
Vsync Input (SELECT 3 ACI / 4 AVI) 3-Phase 5 Amp AC Current Input / 3-						
Phase AC Voltage (300 Vac) Input and		T	7	5		
Vsync Input (SELECT 3 ACI / 4 AVI)						
3-Phase 1 Amp AC Current Input / Vsync Input and Vn (300 Vac) Input		1   1	7	2		
(SELECT 3 ACI / 2 AVI)						
3-Phase 5 Amp AC Current Input / Vsync Input and Vn (300 Vac) Input		1	7	6		
(SELECT 3 ACI / 2 AVI)						
3-Phase 1 Amp AC Current Input (SELECT 3 ACIE)			7	3		
o 700G1 and 700GW models only						
3-Phase 5 Amp AC Current Input			7	7		
(SELECT 3 ACIE) o 700G1 and 700GW models only						
Vsync Input and Vn Input (300 Vac)		0	7	4		
(SELECT 2 AVI) 1-Neutral and Vsync Input LEA Voltage		0		4		
Sensor (RJ45 inputs)(SELECT 2 AVI)		U				
Slot Z Current and Voltage Input	s					
3-Phase 1 Amp AC Current Input / 1 Amp				8	1	
Neutral AC Current Input / 3-Phase AC Voltage (300 Vac) (SELECT 4 ACI / 3 AVI)						
o 700G0, 700G0+, 700G1, 700G1+, 700GT+						
models only						

3-Phase 5 Amp AC C Neutral AC Current I Voltage (300 Vac) (5												8	5		
	0G1, 700G1+, 700GT+														
	Current Input / 5 Amp											8	2		
Neutral AC Current 1															
	SELECT 4 ACI / 3 AVI) 0G1, 700G1+, 700GT+														
	Current Input / 1 Amp											8	6		
Neutral AC Current 1	•														
o 700G0, 700G0+, 70 models only	SELECT 4 ACI / 3 AVI) 0G1, 700G1+, 700GT+														
3-Phase 1 Amp AC (	Current Input				W							8	3		
(SELECT 3 ACIZ)															
3-Phase 5 Amp AC ( (SELECT 3 ACIZ)	·				W							8	7		
1 Amp 1-Neutral AC (SELECT 1 ACI)	Current Input											8	4		
o 700GT model only															
5 Amp 1-Neutral AC	Current Input											8	0		
(SELECT 1 ACI)	za.rone znpac											0	8		
o 700GT model only															
	Rogowski Coil or Low											L	1		
	former (RJ45 inputs),														
3-Phase LEA Voltage															
inputs)(SELECT 4 AC															
· · ·	0G1, 700G1+, 700GT+														
models only 3-Phase Rogowski C	oil or Low Dower														
Current Transformer					W							L	3		
(SELECT 3 ACI)	(1045 lilputs)														
1-Neutral Rogowski	Coil or Low Power												1		
Current Transformer												L	4		
(SELECT 1 ACI)	(														
o 700GT model only															
Conformal Coat															
None															0
Conformally Coated	Circuit Boards*														1
_															
Accessories															
Literature	B : 1 1 7														
	Printed Instruction	РМ													
			7 0 0	) G -	0 1										
	Manual Configurable Label		7 0 0	) G -	0 1										
	Configurable Label		7 0 0	) G -	0 1										
	Configurable Label Kit for SEL-710-5,		7 0 0	) G -	0 1										
	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787-				0 1										
	Configurable Label Kit for SEL-710-5,	9 2 6			0 1										
	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL-				0 1										
	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2				0 1										
	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)*				0 1										
	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)* Configurable Label				0 1										
	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)* Configurable Label Kit for SEL-710-5,				01										
	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)* Configurable Label Kit for SEL-710-5, SEL-751, SEL-787-				01										
	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)* Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL-	926	5 0 1	36	0 1										
	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)* Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L,		5 0 1	36	0 1										
	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)* Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB	926	5 0 1	36	0 1										
	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)* Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (25	926	5 0 1	36	0 1										
SEI Cables	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)* Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB	926	5 0 1	36	0 1										
SEL Cables	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)* Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (25 Sheets)*	926	5 0 1	36	0 1										
SEL Cables	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)* Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (25 Sheets)* SEL-C222 Serial	926	5 0 1	36	0 1										
SEL Cables	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)* Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (25 Sheets)* SEL-C222 Serial Cable for Modem	926	501	36											
SEL Cables	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)* Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (25 Sheets)* SEL-C222 Serial	926	501	36	O 1	ntact	SEL I	REP or	CSR (	or or	derin	ıg info	rmat	ion.	
SEL Cables	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)* Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (25 Sheets)* SEL-C222 Serial Cable for Modem (RS-232, DTE-DCE,	926	501	36		ntact	SEL I	REP or	CSR (	or or	derin	g info	rmat	ion.	
SEL Cables	Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (2 Sheets)* Configurable Label Kit for SEL-710-5, SEL-751, SEL-787- 2, -3, -4, SEL- 700BT, SEL-787L, SEL-787Z and 8 PB SEL-700G (25 Sheets)* SEL-C222 Serial Cable for Modem (RS-232, DTE-DCE, DB9 M/DB25 M,	926	501	36		ntact	SEL I	REP or	CSR (	or on	derin	g info	rmat	ion.	

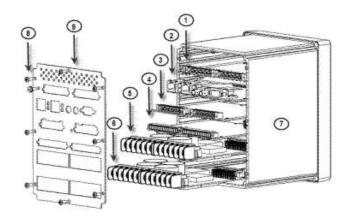
SEL-C227A Serial Cable for PC (RS- 232, DTE-DTE, DB9 M/DB25 F, Hardware Flow Control)*	Please see Online MOT or contact SEL REP or CSR for ordering information.
SEL-C234 Serial Cable (RS-232, DTE-DTE, DB9 M/DB9 F)*	Please see Online MOT or contact SEL REP or CSR for ordering information.
SEL-C272 Serial Cable (RS-232, DTE-DTE, DB9 M/DB9 M, Hardware Flow Control)*	Please see Online MOT or contact SEL REP or CSR for ordering information.
SEL-C273 Serial Cable (RS-232, DTE-DTE, DB9 M/DB9 M, IRIG-B)*	Please see Online MOT or contact SEL REP or CSR for ordering information.
SEL-C805 200 µm Multimode Fiber- Optic Cable (configurable length)*	Please see Online MOT or contact SEL REP or CSR for ordering information.
SEL-C807 62.5/200µm Multimode Fiber- Optic Cable (configurable length)*	Please see Online MOT or contact SEL REP or CSR for ordering information.
SEL-C808 62.5/125 µm Multimode Fiber-Optic Cable*	Please see Online MOT or contact SEL REP or CSR for ordering information.
SEL-CA605 CAT5e, Shielded Twisted Pair (STP) Ethernet Cable*	Please see Online MOT or contact SEL REP or CSR for ordering information.

## Additional Information

- Base unit includes slots A, B (EIA-232), Z, HMI, and Front EIA-232 Port.
- The protocols SNTP, IEEE 1588-2008 firmware-based PTP and Modbus TCP are included in the standard offering with Single Ethernet option.
- The protocols SNTP, IEEE 1588-2008 firmware-based PTP, PRP, Rapid Spanning Tree Protocol (RSTP), and Modbus TCP are included in the standard offering with Dual Ethernet option.
- DNP3 LAN/WAN are included with DNP3 and Ethernet options.
- Download acSELerator QuickSet SEL-5030 software for free at https://www.selinc.com/softwaresolutions/. acSELerator QuickSet on CD (503001WX4) is available upon request.
- The SEL-700G comes standard with a CD manual. One complimentary printed instruction manual is available upon request with each product purchased.
- A configuration kit is provided for the front panel configurable labels (packaged in the shipping box). For additional kits, order SEL part number 9260136 (2 Sheet Kit) or 9260137 (25 Sheet Kit).

  • For additional remote I/O capability, order SEL-2505 Remote I/O Module that is SEL-2812 compatible (ST option only).
- Order external AC powered RTD module SEL-2600A or external DC powered RTD module SEL-2600D using WI-5997 to interface remote external resistive temperature devices (RTD) or use internal RTD inputs option in Slot D.
- If 64F (Field Ground) Protection is desired, order Field Ground Module SEL-2664 (WI-5752) with SEL-C807 (WI-4132) Fiber-optic cable. Additionally, if using SEL-2664 on port 3 order SEL-2812Mx (WI-4600).
- The SEL-700G option cards are orderable separately for field installation. Use WI-5932 and contact your SEL representative to order option cards.
- For relay wire termination kits, please see Application Note AN2014-08 on the SEL website or contact SEL REP or CSR for ordering information.
- For SEL-700G Mounting Accessories including adapter plates, dust protectors, etc go to https://selinc.com/applications/mountingselector/.
- ACSELERATOR Bay Screen Builder SEL-5036 software is available with touchscreen models.
- All Digital Outputs are Form-A unless noted otherwise.

# Chassis Card Slot Configuration Example



- SELECT Power Supply Card with I/O (Slot A)
   SELECT Processor and Communications Card (Slot B)
- 3 SELECT I/O Expansion Card (Slot C)
- SELECT I/O Expansion Card (Slot D)
- SELECT I/O Expansion Card (Slot E)

- SELECT ACI/AVI Card (Slot Z)
- Device Case
- ® Rear Panel Mounting Screws
- @ Rear Panel

Making Electric Power Safer, More Reliable, and More Economical ®

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