SEL-400G-0,-1Generator Protection Relay

Standard With C37.118 2011 Synchrophasors, Standard Protocols⁽¹⁾, SEL Grid Configurator⁽²⁾, and Configurable Labels

Standard With Differential, Overcurrent, Voltage and Frequency Protection Standard Plus Autosynchronization Control Standard Plus Autosynchronization Standard Plus Autosynchronizatio	Part Number:	0 4	0	0 (3								X	X		8				
Voltage and Frequency Protection Standard Plus Autosynchronization Control(3)* Conformal Coat None X Conformally Coated Circuit Boards* Power Supply 24-48 Vdc 48-125 Vdc or 110-120 Vac 125-250 Vdc or 110-240 Vac 6 Connector Type Screw Terminal Block Connectorized® Relay(8)* Z AC Input Card 1 Configuration (Current Channels S, T, U), (Voltage Channel V) S (Three-Phase) = 5 A, T (Three-Phase) = 5 A, U (Three-Phase) = 1 A, T (Three-Phase) = 1 A, U (Three-Phase) = 1 A, V (Phase) = 300 V AC Input Card 2 Configuration (Current Channels W, X, Y(4)), (Voltage Channel Z) W (Three-Phase) = 5 A, X (Three-Phase) = 5 A, X (Single or Three-Phase) = 5 A, X (Three-Phase) = 5 A, X (Single or Three-Phase) = 5 A, X (Three-Phase) = 5 A, X (Single-Phase) = 5 A, X (Three-Phase) = 5 A, X (Single-Phase) = 5 A, X (Three-Phase) = 5 A, X (Single-Phase) = 5 A, X (Three-Phase) = 5 A, X (Single-Phase) = 5 A, X (Three-Phase) = 1 A, Y (Single or Three-Phase) = 1 A, 1 A, 1 A, 2 (Three-Phase) = 300 V W (Three-Phase) = 300 V W (Three-Phase) = 3 A, X (Three-Phase) = 1 A, Y (Single or Three-Phase) = 1 A, 1 A, 1 A, 2 (Three-Phase) = 300 V W (Three-Phase) = 3 A, X (Three-Phase) = 1 A, Y (Single or Three-Phase) = 1 A, 1 A, 1 A, 2 (Three-Phase) = 300 V W (Three-Phase) = 1 A, X (Three-Phase) = 1 A, Y (Single or Three-Phase) = 0.2 A, 0.2	Firmware																			
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Power Supply 24-48 Vdc 48-125 Vdc or 110-120 Vac 48-125 Vdc or 110-120 Vac 48-125 Vdc or 110-240 Vac Connector Type Screw Terminal Block Connectorized® Relay(8)* 2 AC Input Card 1 Configuration (Current Channels S, T, U), (Voltage Channel V) S (Three-Phase) = 5 A, V (Phase) = 300 V S (Three-Phase) = 5 A, V (Phase) = 300 V S (Three-Phase) = 1 A, T (Three-Phase) = 1 A, U (Three-Phase) = 1 A, V (Phase) = 300 V AC Input Card 2 Configuration (Current Channels W, X, Y(4)), (Voltage Channel Z) W (Three-Phase) = 5 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 5 A, X (A, S, A, S, A, Z, V), (Voltage Channel Z) W (Three-Phase) = 300 V W (Three-Phase) = 5 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 1 A, 1 A, 1 A, Z (Three-Phase) = 5 A, Y (Single or Three-Phase) = 1 A, 1 A, 1 A, Z (Three-Phase) = 300 V W (Three-Phase) = 300 V W (Three-Phase) = 1 A, X (Three-Phase) = 1 A, Y (Single or Three-Phase) = 1 A, 1 A, 1 A, Z (Three-Phase) = 300 V W (Three-Phase) = 1 A, X (Three-Phase) = 1 A, Y (Single or Three-Phase) = 1 A, 1 A, 1 A, Z (Three-Phase) = 1 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 1 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 1 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 1 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 1 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 1 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 1 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 300 V W (Three-Phase) = 300 V W (Three-Phase) = 5 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 5 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 5 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 5 A, X (Three-Phase) = 5 B, A, Y (Single or Three-Phase) = 5 A, X (Three-Phase) = 5 B, A, Y (Single or Three-Phase) = 5 A, X (Three-Phase) = 5 B, A, Y (Single or Three-Phase) = 5 A, X (Three-Phase) = 5 B, A, Y (Single or Three-Phase) = 5 B, A, Y (Single or Three-Phase) = 5 B, A, Y (Si	None					X														
24-48 Vdc 48-125 Vdc or 110-120 Vac 48-125 Vdc or 110-120 Vac 6 Connector Type Screw Terminal Block Connectorized® Relay(®)* AC Input Card 1 Configuration (Current Channels S, T, U), (Voltage Channel V) S (Three-Phase) = 5 A, T (Three-Phase) = 5 A, U (Three-Phase) = 5 A, V (Phase) = 300 V S (Three-Phase) = 1 A, T (Three-Phase) = 1 A, U (Three-Phase) = 1 A, T (Three-Phase) = 5 A, Y (Single or Three-Phase) = 5 A, S A,	Conformally Coated Circuit Boards*					2														
48-125 Vdc or 110-120 Vac 4 125-250 Vdc or 110-240 Vac 6 Connector Type Screw Terminal Block X Connectorized® Relay(®)* AC Input Card 1 Configuration (Current Channels S, T, U), (Voltage Channel V) S (Three-Phase) = 5 A, T (Three-Phase) = 5 A, U (Three-Phase) = 5 A, V (Phase) = 300 V S (Three-Phase) = 1 A, T (Three-Phase) = 1 A, U (Three-Phase) = 1 A, V (Phase) = 300 V AC Input Card 2 Configuration (Current Channels W, X, Y(^4)), (Voltage Channel Z) W (Three-Phase) = 5 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 5 A, 5 A, 5 A, 5 A, Z (Three-Phase) = 300 V W (Three-Phase) = 300 V W (Three-Phase) = 5 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 1 A, 1 A, 1 A, 2 (Three-Phase) = 300 V W (Three-Phase) = 300 V W (Three-Phase) = 300 V W (Three-Phase) = 1 A, X (Three-Phase) = 1 A, Y (Single or Three-Phase) = 1 A, 1 A, 1 A, 2 (Three-Phase) = 300 V W (Three-Phase) = 1 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 0.2 A,	Power Supply																			
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Screw Terminal Block Connectorized® Relay(8)* AC Input Card 1 Configuration (Current Channels S, T, U), (Voltage Channel V) S (Three-Phase) = 5 A, T (Three-Phase) = 5 A, U (Three-Phase) = 5 A, V (Phase) = 300 V S (Three-Phase) = 1 A, T (Three-Phase) = 1 A, U (Three-Phase) = 1 A, V (Phase) = 300 V AC Input Card 2 Configuration (Current Channels W, X, Y(4)), (Voltage Channel Z) W (Three-Phase) = 5 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 5 A, 5 A, 5 A, 5 A, 5 A, 7 (Three-Phase) = 5 A, X (Three-Phase) = 5 A, Y (Single-Phase) = 5 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 1 A, 1 A, 1 A, 2 (Three-Phase) = 5 A, Y (Single or Three-Phase) = 1 A, 1 A, 1 A, 2 W (Three-Phase) = 300 V W (Three-Phase) = 300 V W (Three-Phase) = 1 A, X (Three-Phase) = 1 A, Y (Single or Three-Phase) = 1 A, 1 A, 1 A, 2 W (Three-Phase) = 300 V W (Three-Phase) = 300 V W (Three-Phase) = 5 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 0.2 A, 0.2 A, 0.2 A, Z (Three-Phase) = 300 V W (Three-Phase) = 300 V W (Three-Phase) = 5 A, X (Three-Phase) = 1 A, Y (Single or Three-Phase) = 0.2 A, 0.2 A, 0.2 A, Z (Three-Phase) = 5 A, X (Three-Phase) = 5 C A, Y (Single or Three-Phase) = 5 A, X (Three-Phase) = 5 A, Y (Single or Three-Phase) = 5 A, X (Three-Phase) = 5 C A, Y (Single-Phase) = 5 A, X (Three-Phase) = 5 A, Y (Single-Phase) = 5 A, X (Three-Phase) = 5 A, Y (Single-Phase) = 5 A, X (Three-Phase) = 5 A, X (Single-Phase) = 5 A, X (Three-Phase) = 5 A, X (Single-Phase) = 5 A, X (Three-Phase) = 5 A, X (Single-Phase) = 5 A, X (Three-Phase) = 5 B, A (Three-Phase) = 5 A, X (Three-Phase) = 5 B, A (Three-Phase) = 5 A, X (Three-Phase) = 5 B, A (Three-Phase) = 5 A, X (Three-Phase) = 5 B, A (Three-Phase) = 5 A, X (Three-Phase) = 5 B, A (Three-Phase) = 5 A, X (Three-Phase) = 5 B, A (Three-Phase) = 5 A, X (Three-Phase) = 5 B, A (Three-Phase) = 5 A, X (Three-Phase) = 5 B, A (Three-Phase) = 5 A, X (Three-Phase) = 5 B, A (Three-Phase) = 5 A, X (Three-Phase) = 5 B, A (Three-Phase) = 5 A, X (Three-Phase) = 5 B, A (Three-Phase) = 5 A,	125-250 Vdc or 110-240 Vac						6													
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None				X	Х						
FTP, Telnet, DNP3, Modbus TCP and PRP*				В							
FTP, Telnet, DNP3, Modbus TCP, PRP and IEC 61850*				С							
Ethernet Connection Options (Bay 3)				X	Х						
Four 10/100BASE-T Connectors*				^	6						
Four 100BASE-FX Connectors*					7						
Two 10/100BASE-T and Two 100BASE-FX Connectors ⁽⁵⁾ *					8						
Two 100/1000BASE and Three 100BASE SFP Ports (Order SFP Transceivers Separately) (6)*					9						
Mounting											
Horizontal Rack Mount						Н					
Horizontal Panel Mount						3					
Chassis											
8U, Up to Three I/O Boards						8	3				
I/O Board Position B 8 Optoisolated Independent Level-Sensitive Inputs, 13 Standard Form A, 2 Standard Form C Outputs*							2				
3 Optoisolated Independent Level-Sensitive Inputs, 13 High-Current Interrupting Form A, 2 Standard Form C Outputs*							7				
24 Optoisolated Level-Sensitive Inputs ⁽⁷⁾ , 2 Standard and 6 High-Speed High-Current Interrupting Form A Outputs*							4				
24 Optoisolated Level-Sensitive Inputs, 8 Standard Form A Outputs*							D				
8 Optoisolated Independent Level-Sensitive Inputs, 8 High-Speed High-Current Interrupting Form A Outputs*							8				
I/O Board Position B Input Voltage											
24 Vdc								1			
48 Vdc								2			
110 Vdc								3			
125 Vdc								4			
220 Vdc								5			
250 Vdc								6			
I/O Board Position C											
Empty I/O Board Position								0	X	Χ	>
3 Optoisolated Independent Level-Sensitive Inputs, 13 Standard Form A, 2 Standard Form C Outputs*								2			
3 Optoisolated Independent Level-Sensitive Inputs, 13 High-Current Interrupting Form A, 2 Standard Form C Outputs*								7			
24 Optoisolated Level-Sensitive Inputs, 2 Standard and 6 High-Speed High-Current Interrupting Form A Outputs*								4			

24 Optoisolated Level- Standard Form A Outp																					D		
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	orm A, 2 Standard Form																						
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24 Optoisolated Level-	Sensitive Inputs, 2																					4	
Standard and 6 High-S Interrupting Form A O	utputs*																						
24 Optoisolated Level- Standard Form A Outp																						D	
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125 Vdc																							4
220 Vdc																							5
250 Vdc																							6
Accessories																							
Literature	.																						
	Instruction Manual for SEL-400G ⁽⁸⁾ *	Р	Μ	4 0	0	G	- 0	1															
Wiring Harness																							
	Wiring Harness for Connectorized SEL-400G ⁽⁹⁾ *	Ple	ase	see	Onl	ine	MO	То	r co	nta	ct S	EL I	REP	or (CSR	for	ord	erin	g inf	orma	ation		

^{*} Additional Cost

⁽¹⁾ Standard Protocols: SEL ASCII, Compressed ASCII, Settings File Transfer, SEL Fast Meter, Fast Operate, Fast SER, Fast Message, Enhanced Mirrored Bits® Communications, DNP3 Level 2 Server Plus Dial-Out and Virtual Terminal Serial protocols and Modbus TCP when equipped with Ethernet Communication.

⁽²⁾ Download SEL Grid Configurator software for free at https://www.selinc.com/softwaresolutions/.

⁽³⁾ Autosynchroization Control provides raise/lower voltage and frequency control pulse outputs.

⁽⁴⁾ Current Channel Y can be configured as comprised of three single-phase neutral current inputs, or as a single three-phase current input. If a three-phase current input is required, or these channels are being used for three-phase synchrophasor data, you must select an option that has all three channels at the same nominal current (options 1,4,8,A,B).

 $^{^{(5)}}$ Ports 5A, 5B support 100/1000BASE SFP Inputs. Ports 5C, 5D and 5E support 100BASE-SFP Inputs. Two 100BASE-FX SFP transceivers are included with the relay. This option supports dual IP addresses. For a list of supported SFPs and applications see the instruction manual or product web page.

- ⁽⁶⁾ IEEE Precision Time Protocol (PTP) and IEC Parallel Redundancy Protocol (PRP) are available on the process and station bus ports. Two independent IP addresses are available: one for the station bus and one for engineering access. See the instruction manual or selinc.com/products/sfp/ for a list of compatible SFP transceivers.
- (7) The 24 Optoisolated Inputs are comprised of 18 Common Inputs and 6 Independent Inputs.
- $^{(8)}$ This product comes standard with a CD manual. One complimentary printed instruction manual is available upon request with each product purchased.
- $^{(9)}$ Order a Connectorized $^{(8)}$ Wiring Harness for SEL-400G (harness shipped separately).

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

SEL SCHWEITZER ENGINEERING LABORATORIES, INC.

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