SEL-311L-1, -7

Current Differential Relay and Backup Distance Protection
Standard with 14 Outputs(1), 6 Inputs, and Conventional Terminal Blocks
Standard Serial Protocols are SEL ASCII, SEL Fast Message and MIRRORED BITS
Available with Dual Failover Ethernet, Built-In Web Server, and IEC 61850 Compatibility

Part Number: **0 3 1 1 L _ _ _ _ _ 2 _ _ _ _ _ X**

Firmware

Standard with Improved Functions	1
Standard with Improved Functions, Single-Pole Differential, and Single-Pole Zone 1 Distance Backup Protection*	7

Mounting

3U Horizontal Rack Mount	H	X
3U Horizontal Panel Mount	3	X
3U Vertical Panel Mount	4	X
3U Horizontal Projection Panel Mount*	5	X
4U Horizontal Rack Mount	J	
4U Horizontal Panel Mount	K	
4U Vertical Panel Mount	L	
4U Horizontal Projection Panel Mount*	N	

Line Current Differential Communications Channel X; Channel Y

Isolated EIA-422	None*	A 0
	Isolated EIA-422*	A A
Isolated G.703 Co-Directional	None*	B 0
	Isolated G.703 Co-Directional*	B B
850nm IEEE C37.94 Fiber	Channel X - 850nm IEEE C37.94 Fiber; Channel Y - None*	C 0
	Isolated EIA-422*	C A
	Isolated G.703 Co-Directional*	C B
	850nm IEEE C37.94 Fiber*	C C
1300nm Fiber	None*	D 0
	Isolated EIA-422*	D A
	Isolated G.703 Co-Directional*	D B
	850nm IEEE C37.94 Fiber*	D C
	1300nm Fiber*	D D
1550nm Fiber	None*	E 0
	Isolated EIA-422*	E A
	Isolated G.703 Co-Directional*	E B
	850nm IEEE C37.94 Fiber*	E C

	1300nm Fiber*	E D
	1550nm Fiber*	E E
1300nm IEEE C37.94 Fiber	None*	H 0
	Isolated EIA-422*	H A
	Isolated G.703 Co-Directional*	H B
	850nm IEEE C37.94 Fiber*	H C
	1300nm Fiber*	H D
	1550nm Fiber*	H E
	1300nm IEEE C37.94 Fiber*	H H

Power Supply

24/48 Vdc	2
48/125 Vdc or 125 Vac	3
125/250 Vdc or Vac	4

Secondary Input Voltage

Wye-Connected Va, Vb, and Vc (150 Vac Maximum Phase-Neutral; channel Vs also rated to 150 Vac)	2

Secondary Input Current

1 Amp Phase and 1 Amp Polarizing Current Input	1
5 Amp Phase and 5 Amp Polarizing Current Input	5

Control Input Voltage

24 Vdc	1
48 Vdc	2
110 Vdc	3
125 Vdc	4
220 Vdc	5
250 Vdc	6

I/O Board[(2)]

No Additional I/O (3U Chassis Only)	X
8 Inputs, 12 Standard Outputs*	2
8 Inputs, 8 High-Speed High-Current Interrupting Outputs*	5
8 Inputs, 12 High-Current Interrupting Outputs*	6

Communications Protocol

Standard Serial Protocols	X
Serial DNP3 Level 2 Slave (Includes Standard Serial Protocols)*	1
Standard Serial Protocols, Serial DNP3 with Two 10/100BASE-T Ethernet Ports, SEL ASCII Via Telnet*	2
Standard Serial Protocols, Serial DNP3 with Two 100BASE-FX Ethernet Ports, SEL ASCII Via Telnet*	3
Standard Serial Protocols, Serial DNP3 with Two 10/100BASE-T Ethernet Ports and IEC 61850*	4
Standard Serial Protocols, Serial DNP3 with Two 100BASE-FX Ethernet Ports and IEC 61850*	5

Conformal Coat

None	X
Conformal Coated Circuit Boards*	2

Accessories

Literature		
	SEL-311L-1,-7 Printed English Instruction Manual (4)	PM311L-02

* Additional Cost

(1) 14 Outputs consist of 8 Standard and 6 High-Speed High-Current Interrupting Contacts.

(2) Additional I/O requires the J, K, L, or N Mounting Option.

(3) All Ethernet options include two ports, however only one port is active.

(4) The SEL-311L-1,-7 comes standard with a CD manual. One complimentary printed instruction manual is available upon request with each product purchased.

Note: Download ACSELERATOR® QuickSet SEL-5030 software for free at https://www.selinc.com/softwaresolutions/. ACSELERATOR QuickSet on CD (503001WX4) is available upon request.

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

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