



SEL-311C Transmission Protection System

Summary

Sales Item Number	311#PNJH 	
Part Number	0311C31HP4F1522 	Map

Standard Features

- Ethernet and Serial Protocols (No-Cost Ethernet Protocols: DNP3 Outstation, Modbus, Telnet, FTP, Web Server, SNTP, IEEE C37.118 Phasor Measurement, No-Cost Serial Protocols: DNP3 Level 2, Modbus RTU, SEL ASCII, Compressed ASCII, Settings File Transfer, Fast Meter, Fast Operate, Fast SER, Phasor Measurement, MIRRORED BITS)
- IEEE C37.118 Synchrophasor Measurement
- 8 Outputs (OUT101, OUT102, and OUT103 are configured as Hybrid High-Current Interrupting output contacts)
- 6 Inputs
- Conventional Terminal Blocks

- **Download ACSELERATOR QuickSet SEL-5030** ACSELERATOR QuickSet on CD (503001WX4) is available upon request.

Selected Options

Firmware	Single-Pole Trip with Three-Pole Reclosing and High-Speed Mho Distance Elements
Chassis	3U
Mounting	Horizontal Rack Mount
User Interface	Standard Interface including USB plus Programmable Operator Controls and Target LEDs
Power Supply	125/250 Vdc or 120/230 Vac
Communications Interface	(2) 100BASE-FX MM LC, EIA-485
Secondary Input Current	1 A Phase, 1 A Neutral
Control Input Voltage	220 Vdc
I/O Board	Additional 12 Std Outputs, 8 Inputs
Communications Protocols	Standard Plus IEC 61850

Related Parts

These accessories have full, independent part numbers and are not installed at the SEL factory. Accessories are packaged and shipped separately. Use these part numbers to order accessories separately for installation.

ALL RELATED PARTS

Quantity	Description	Part Number
Cables		
<input type="text" value="0"/>	SEL-C664 USB A-Type to USB B-Type Cable ?	C664
Literature		

Quantity	Description	Part Number
0	Instruction Manual for SEL-311C-1	PM311C-02
0	Instruction Manual for SEL-311C-2, -3	PM311C-03


Downloads

Save and open the PDF files in Adobe Reader or Adobe Acrobat to view the layers panel. Opening a PDF file in a web browser window can cause the layers panel to be hidden.

Type	Files
Dimension	DWG (45.04 kB)
	PDF (123.34 kB)
FAQ & Instructions: How to use the Master Configurable Drawings	PDF (1,004.61 kB)
Front, Rear	DWG (3.73 MB)
	PDF (1.23 MB)

SEL-451 With Conventional Secondary Inputs

Summary

Sales Item Number	451#OLYY 	
Part Number	04515611XC2X5V74575X1 	Map

Selected Options

Power Supply	125-250 Vdc or 110-240 Vac
Connector Type	Screw-Terminal Block
Secondary Input Current	1 A Phase
Secondary Input Voltage	300 V Phase - Neutral Maximum (Wye)
Ethernet Communications Protocols	FTP, Telnet, Synchrophasors, DNP3 LAN/WAN, and IEC 61850
Ethernet Connection Options	Ports 5C, 5D: Ethernet Card With Two 100BASE-FX Connectors
Mainboard Input Voltage	220 Vdc
Mounting	Vertical Rack Mount

Chassis	5U, Front Panel With 24 Target LEDs, 12 Operator Control Pushbuttons, and Tri-Color LEDs
I/O Board Position B	24 Optoisolated Level-Sensitive Inputs, 8 Outputs
I/O Board Position B Input Voltage	220 Vdc
I/O Board Position C	8 Optoisolated Independent Level-Sensitive Inputs, 13 High-Current Interrupting Form A, 2 Standard Form C Outputs
I/O Board Position C Input Voltage	220 Vdc
I/O Board Positions D and E (Same I/O Type, Utilizing the Selected Mainboard Input Voltage)	NA
Conformal Coat	None
Front Overlay	Bay Control

Related Parts

These accessories have full, independent part numbers and are not installed at the SEL factory. Accessories are packaged and shipped separately. Use these part numbers to order accessories separately for installation.

ALL RELATED PARTS

Quantity	Description	Part Number
<input type="text" value="0"/>	Trip/Close Pushbutton Guard Kit	9252001
	Wiring Harness for Connectorized SEL-451	CONFIGURE

Accessories

<input type="text" value="0"/>	IRIG Termination Kit (50 Ohms)	915900499
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Literature

<input type="text" value="0"/>	Instruction Manual for SEL-451-5 and SEL-400 Series	PM451-KT-01
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Type	Files
FAQ & Instructions: How to use the Master Configurable Drawings	PDF (1,004.61 kB)
SEL-451: Dimension	DWG (47.36 kB)
	PDF (140.83 kB)
SEL-451: Front, Rear	DWG (15.24 MB)
	PDF (3.15 MB)

SEL-451 With Conventional Secondary Inputs

Summary

Sales Item Number	451#M48B 	
Part Number	04515611XC2X5H74575X1 	Map

Selected Options

Power Supply	125-250 Vdc or 110-240 Vac
Connector Type	Screw-Terminal Block
Secondary Input Current	1 A Phase
Secondary Input Voltage	300 V Phase - Neutral Maximum (Wye)
Ethernet Communications Protocols	FTP, Telnet, Synchrophasors, DNP3 LAN/WAN, and IEC 61850
Ethernet Connection Options	Ports 5C, 5D: Ethernet Card With Two 100BASE-FX Connectors
Mainboard Input Voltage	220 Vdc
Mounting	Horizontal Rack Mount

Chassis	5U, Front Panel With 24 Target LEDs, 12 Operator Control Pushbuttons, and Tri-Color LEDs
I/O Board Position B	24 Optoisolated Level-Sensitive Inputs, 8 Outputs
I/O Board Position B Input Voltage	220 Vdc
I/O Board Position C	8 Optoisolated Independent Level-Sensitive Inputs, 13 High-Current Interrupting Form A, 2 Standard Form C Outputs
I/O Board Position C Input Voltage	220 Vdc
I/O Board Positions D and E (Same I/O Type, Utilizing the Selected Mainboard Input Voltage)	NA
Conformal Coat	None
Front Overlay	Bay Control

Related Parts

These accessories have full, independent part numbers and are not installed at the SEL factory. Accessories are packaged and shipped separately. Use these part numbers to order accessories separately for installation.

ALL RELATED PARTS

Quantity	Description	Part Number
<input type="text" value="0"/>	Trip/Close Pushbutton Guard Kit	9252001
	Wiring Harness for Connectorized SEL-451	CONFIGURE
Accessories		
<input type="text" value="0"/>	IRIG Termination Kit (50 Ohms)	915900499
Literature		
<input type="text" value="0"/>	Instruction Manual for SEL-451-5 and SEL-400 Series	PM451-KT-01

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Type	Files
FAQ & Instructions: How to use the Master Configurable Drawings	PDF (1,004.61 kB)
SEL-451: Dimension	DWG (47.36 kB)
	PDF (140.83 kB)
SEL-451: Front, Rear	DWG (15.67 MB)
	PDF (3.15 MB)

SEL-2241 RTAC

Summary

Sales Item Number

2241#H26G 

Selected Options

Ethernet	Two 100BASE-FX (Multimode)
Web Human Machine Interface (HMI)	No
IEC 61850 MMS Client and File Services	Yes
IEC 61850 MMS Server and File Services	Yes
IEC 61850 GOOSE	Yes
Ethernet/IP	Yes
Conformal Coat	Yes
Grid Connect	No
Grid Connect 5 MW	No
Horizon SVPplus	No
Horizon Power System Model	No
Condition Monitoring	No
Dynamic Disturbance Recorder	No
Meter Report Trend Recorder	No
Report Generator/Email Client	No
FTP Sync	No
FileIO	No

Downloads

Type	Files
SEL-2241: Dimension	DWG (100.48 kB)
	PDF (76.58 kB)
SEL-2241: Dimension	DWG (91.19 kB)
	PDF (74.74 kB)
SEL-2241: Dimension	DWG (88.92 kB)
	PDF (72.14 kB)
SEL-2241: Rear	DWG (220.62 kB)
	PDF (279.44 kB)

SEL-2242

Chassis/Backplane

Summary

Sales Item Number	2242#N86T 	
Part Number	2242S1X1 	Map

Selected Options

Mounting	Surface Mount
Bay Control	No
Slot Configuration	10-Slot
Conformal Coat	Yes

Related Parts

These accessories have full, independent part numbers and are not installed at the SEL factory. Accessories are packaged and shipped separately. Use these part numbers to order accessories separately for installation.

ALL RELATED PARTS

Quantity	Description	Part Number
Literature		
<div>0</div>	Instruction Manual for SEL-2240	PM2240-01

Downloads

Type	Files
FRONT	DWG (158.24 kB)
	PDF (56.53 kB)

SEL-2242

Chassis/Backplane

Summary

Sales Item Number	2242#N86T		
Part Number	2242S1X1		Map

Selected Options

Mounting	Surface Mount
Bay Control	No
Slot Configuration	10-Slot
Conformal Coat	Yes

Related Parts

These accessories have full, independent part numbers and are not installed at the SEL factory. Accessories are packaged and shipped separately. Use these part numbers to order accessories separately for installation.

ALL RELATED PARTS

Quantity	Description	Part Number
Literature		
<div>0</div>	Instruction Manual for SEL-2240	PM2240-01

Downloads

Type	Files
FRONT	DWG (158.24 kB)
	PDF (56.53 kB)

SEL-2243

Power Coupler

Summary

Part Number	224312X1 	Map
Key Code	2063	

Selected Options

Power Supply Rating	125/250 Vdc; 120/240 Vac
Communications Ports	Two 100BASE-FX (Multimode)
Conformal Coat	Conformally Coated Circuit Boards

Related Parts

These accessories have full, independent part numbers and are not installed at the SEL factory. Accessories are packaged and shipped separately. Use these part numbers to order accessories separately for installation.

ALL RELATED PARTS

Quantity	Description	Part Number
<input type="text" value="0"/>	RJ45 EtherCAT Cable, Shielded	C627F

Downloads


Type	Files
Dimension	DWG (100.48 kB)
	PDF (76.58 kB)
Dimension	DWG (91.19 kB)
	PDF (74.74 kB)
Dimension	DWG (88.92 kB)
	PDF (72.14 kB)
Rear	DWG (273.10 kB)
	PDF (152.11 kB)

SEL-2244-2

Digital Input

Module

Summary

Part Number	22442525X1 	Map
Key Code	3138	

Selected Options

24 Digital Inputs	220 Vdc/Vac
Conformal Coat	Conformally Coated Circuit Boards

Related Parts

These accessories have full, independent part numbers and are not installed at the SEL factory. Accessories are packaged and shipped separately. Use these part numbers to order accessories separately for installation.

ALL RELATED PARTS

Quantity	Description	Part Number
<div>0</div>	32 Conductor Wiring Harness With Two Pre-Installed I/O Board Terminal Plugs - 12 ft	91590186

Quantity	Description	Part Number
0	32 Conductor Wiring Harness With Two Pre-Installed I/O Board Terminal Plugs - 20 ft	91590187
0	32 Conductor Wiring Harness With Two Pre-Installed I/O Board Terminal Plugs - 8 ft	91590185
0	SEL-2244 Wetting Voltage Jumper Kit, Twenty Four-4 Prong Jumpers, Two Jumpers per DI Module	915900240
0	Strain Relief Connectors (2 Pieces, 16 Pin)	915900402
0	Wetting Voltage Jumpers Bulk, 100 pack 4-Prong Jumpers	915900241

Downloads


Type	Files
Dimension	DWG (100.48 kB)
	PDF (76.58 kB)
Dimension	DWG (91.19 kB)
	PDF (74.74 kB)
Dimension	DWG (88.92 kB)
	PDF (72.14 kB)
Rear	DWG (254.99 kB)
	PDF (270.82 kB)

SEL-2244-3

Digital Output

Module

Summary

Part Number	22443131X1 	Map
Key Code	3094	

Selected Options

16 Standard Current Digital Outputs	Form A Control Outputs
Conformal Coat	Conformally Coated Circuit Boards

Related Parts

These accessories have full, independent part numbers and are not installed at the SEL factory. Accessories are packaged and shipped separately. Use these part numbers to order accessories separately for installation.

ALL RELATED PARTS

Quantity	Description	Part Number
<div>0</div>	32 Conductor Wiring Harness With Two Pre-Installed I/O Board Terminal Plugs - 12 ft	91590186

Quantity	Description	Part Number
0	32 Conductor Wiring Harness With Two Pre-Installed I/O Board Terminal Plugs - 20 ft	91590187
0	32 Conductor Wiring Harness With Two Pre-Installed I/O Board Terminal Plugs - 8 ft	91590185
0	SEL-2244 Wetting Voltage Jumper Kit, Twenty Four-4 Prong Jumpers, Four per DO Module	915900240
0	Strain Relief Connectors (2 Pieces, 16 Pin)	915900402
0	Wetting Voltage Jumpers Bulk, 100 pack 4-Prong Jumpers	915900241

Downloads

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Dimension	DWG (100.48 kB)
	PDF (76.58 kB)
Dimension	DWG (91.19 kB)
	PDF (74.74 kB)
Dimension	DWG (88.92 kB)
	PDF (72.14 kB)
Rear	DWG (184.98 kB)
	PDF (91.74 kB)