SEL-421-7 With Sampled Values

Line Protection, Automation, Control System with IEC 61850 GOOSE, MMS and Sampled Values

Part Number: **0 4 2 1 7 X 0 0 X X X**

Firmware

Standard 421 Protection plus Sub-cycle Elements, Series Compensation Logic, and Full Automation	7

Connector Type

None[1](SV Subscriber)	X X E 4 X X X X
Screw Terminal (SV Publisher)*	1 3 D
Connectorized®(SV Publisher)[7]*	2 3 D

Secondary Current Inputs

None (SV Subscriber)	X X E
1 A (SV Publisher)	1 D
5 A (SV Publisher)	5 D

Secondary Voltage Inputs and Conformal Coat

None (SV Subscriber)	X E
None With Conformally Coated Circuit Boards (SV Subscriber)[2]*	1 E
300 V Phase Neutral With Conformally Coated Circuit Boards (SV Publisher)*	3 D

Power Supply

24-48 Vdc	2
48-125 Vdc or 110-120 Vac	4
125-250 Vdc or 110-240 Vac	6

Ethernet Communications Protocols

FTP, Telnet, Synchrophasors, DNP3, and IEC 61850 with Sample Values Publication	D
FTP, Telnet, Synchrophasors, DNP3, and IEC 61850 with Sampled Values Subscription	X X E

Ethernet Connection Options[3]

Four 10/100BASE-T Connectors	6
Four 100BASE-FX Connectors*	7
Two 10/100BASE-T and Two 100BASE-FX Connectors[4]*	8

Mounting

Horizontal Rack Mount	H
Horizontal Panel Mount	3
Vertical Rack Mount	V
Vertical Panel Mount	4

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Chassis

4U, One I/O Board	4 X X X X
5U, Up to Two I/O Boards	5 X X
6U, Up to Three I/O Boards	6

I/O Board Position B for 4U, 5U, 6U Chassis

8 Optoisolated Independent Level-Sensitive Inputs, 13 Standard Form A, 2 Standard Form C Outputs*	2
8 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-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 for 5U or 6U Chassis

Empty I/O Board Position	0 X X X
8 Optoisolated Independent Level-Sensitive Inputs, 13 Standard Form A, 2 Standard Form C Outputs*	2
8 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-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 C Input Voltage

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

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I/O Board Position D for 6U Chassis Only

Empty I/O Board Position	0 X
8 Optoisolated Independent Level-Sensitive Inputs, 13 Standard Form A, 2 Standard Form C Outputs*	2
8 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-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 D Input Voltage

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

Accessories

Literature		
	Instruction Manual for SEL-421-7 and SEL-400 Series[5]	PM421-KT-02
Wiring Harness		
	Wiring Harness for Connectorized SEL-421[6]*	Please see Online MOT or contact SEL REP or CSR for ordering information.

* Additional Cost

[1] Sampled values subscriber relays have no analog input boards and instead receive voltages and current through Ethernet.
[2] Conformal coat applies to remaining boards in the relay.
[3] IEEE Precision Time Protocol (PTP) is only available on Ports 5A, 5B.
[4] Ports 5A and 5C are dedicated as 100BASE-FX and Ports 5B and 5D are dedicated as 10/100BASE-T.
[5] This product comes standard with a CD manual. One complimentary printed instruction manual is available upon request with each product purchased.
[6] Order a Connectorized® Wiring Harness for SEL-421 (harness shipped separately).

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

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