## SEL-451-4

Bay Control, Automation, and Protection, Standard with Synchrophasor Measurement, 8 Outputs, 7 Inputs, acSELerator ${ }^{\circledR}$ QuickSet SEL-5030 Software ${ }^{(1)}$, and Configurable Labels
Part Number: $0 \mathbf{0} 4$ 5 $\mathbf{1} 4$

## Firmware

Standard Bay Control $\quad \square \quad \square \quad \square|\square| 4$
Power Supply


## Connector Type

| Screw Terminal Block |
| :--- |
| Connectorized${ }^{\circledR}$ Relay (specify wiring |
| harness SEL-WAO4210 using order |
| form WI-2262)* |

## Secondary I nputs

| 300V Phase - Neutral Maximum |
| :--- |
| (Wye), 1 Amp Phase |
| 300V Phase - Neutral Maximum |
| (Wye), 5 Amp Phase |
| 300V Phase - Neutral Maximum |
| (Wye), 1 Amp Phase with High |
| Impedance Fault Detection* |
| 300V Phase - Neutral Maximum |
| (Wye), 5 Amp Phase with High |
| Impedance Fault Detection* |

## Serial Communications Protocols

SEL ASCII, Compressed ASCII, and
Settings File Transfer, SEL Fast
Meter with Configuration, Fast
Operate, Fast SER, Phasor
Measurement, and Enhanced
Mirrored Bits ${ }^{\circledR}$ Communications
DNP3 Level 2 Slave Plus Dial-Out and Virtual Terminal (Includes all protocols listed above)*

1

2

Ethernet Communications Protocols


Ethernet Connection Options


Mainboard I/ O Configuration
Standard with 3 High-Current
Interrupting Outputs, 2 Standard
Form A Outputs, 3 Standard Form C B
Outputs, and 7 Optoisolated Level-
Sensitive Inputs

Mainboard I nput Voltage


## Mounting



## Chassis



I/ O Board Position B For 4U or 5U Chassis

| Empty I/O Board Position |
| :--- |
| 8 Independent Inputs, |
| 13 Standard Form A, 2 Standard |
| Form C Outputs* |
| 8 Optoisolated Independent Level- |
| Sensitive Inputs, |
| 13 Standard Form A, 2 Standard |
| Form C Outputs* |
| 24 Optoisolated Level-Sensitive |
| Inputs, 8 Outputs(2)* |
| 8 Independent Inputs, |
| 8 High- Speed High-Current |
| Interrupting Form A Outputs* |
| 8 Independent Inputs, |
| 13 High-Current Interrupting Form |
| A, 2 Standard Form C Outputs* |
| 8 Optoisolated Independent Level- |
| Sensitive Inputs, |
| 13 High-Current Interrupting Form |
| A 2 Standard Form C Outputs* |

Sensitive Inputs, 4 High-Current Interrupting Form A Outputs*


I/ O Board Position B I nput Voltage


I/ O Board Position C For 5U Chassis Only
Empty I/O Board Position
8 Independent Inputs,
13 Standard Form A, 2 Standard
Form C Outputs*
8 Optoisolated Independent Level-
Sensitive Inputs,
13 Standard Form A, 2 Standard
Form C Outputs*
24 Optoisolated Level-Sensitive
Inputs, 8 Outputs ${ }^{(2)}$ *
8 Independent Inputs,
8 High- Speed High-Current
Interrupting Form A Outputs*
8 Independent Inputs,
13 High-Current Interrupting Form
A, 2 Standard Form C Outputs*
8 Optoisolated Independent Level-
Sensitive Inputs,
13 High-Current Interrupting Form
A, 2 Standard Form C Outputs*
8 Optoisolated Independent Level-
Sensitive Inputs,
8 High-Speed High-Current
Interrupting Form A Outputs*

I/ O Board Position C Input Voltage



## Conformal Coat

| None |  |  |  |  |  |  |  |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

## Accessories

Wiring Harness for SEL-421 and W A 0421
SEL-451 Relays SEL-451 Relays

* Additional Cost
${ }^{(1)}$ Download acSELerator QuickSet SEL-5030 software for free at www.selinc.com/software.htm. acSELerator QuickSet on CD (503001WX4) is available upon request.
${ }^{(2)} 18$ Common Inputs, 6 Independent Inputs, 6 High-Speed High-Current Interrupting Form A Outputs, 2 Standard Form A Outputs.
${ }^{(3)}$ The guards help prevent inadvertent operation of the auxiliary Trip/Close pushbuttons. These guards may be ordered separately in a kit (part number 9252001).

Note: The SEL-451 comes standard with a CD manual. A printed instruction manual is available upon request.

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

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