## SEL-451-5

Protection, Automation, and Control System, Standard with Serial Communication Protocols ${ }^{(1)}$, Synchrophasor Measurement, 8 Outputs, 7 Inputs, ACSELERATOR ${ }^{\circledR}$ QuickSet SEL-5030 Software ${ }^{(2)}$, and Configurable Labels

UL Approved
Part Number: $\quad \mathbf{0} \mathbf{4}$

## Firmware


SEL-451-4)

## Power Supply



## Connector Type

Screw Terminal Block
Connectorized ${ }^{\circledR}$ Relay*


Secondary Input Current


## Secondary Input Voltage



Ethernet Communications Protocols

| None |
| :--- |
| FTP, Telnet, Synchrophasors, and |
| DNP3 LAN/WAN |
| FTP, Telnet, Synchrophasors, DNP3 | LAN/WAN, and IEC 61850*

## Ethernet Connection Options




## Mounting



## Chassis

 12 Operator Control Pushbuttons, and Tri-Color LEDs*

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



Sensitive Inputs,
13 High-Current Interrupting Form A,
2 Standard Form C Outputs*


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- $\square \square \square \square \square \square$ |
| :--- | :--- | :--- | :--- | :--- | :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Sensitive Inputs, 13 Standard Form

| 0 | $X$ |  | $\square$ |
| :--- | :--- | :--- | :--- |
| 1 | $X$ |  |  |

4
24 Optoisolated Level-Sensitive
Inputs, 8 Outputs ${ }^{(6) *}$
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-
8
Sensitive Inputs, 8 High-Speed High-
Current Interrupting Form A
Outputs*
I/O Board Position C Input Voltage



## Conformal Coat



## Front Overlay



## Accessories

| Literature |  |  |
| :---: | :---: | :---: |
|  | Printed Instruction Manual ${ }^{(9)}$ | PM451-02 |
| Wiring Harness |  |  |
|  | Connectorized ${ }^{\circledR}$ Wiring Harness for SEL-451 Relays ${ }^{(1)}$ | Please see Online MOT or contact SEL REP or CSR for ordering information. |

* Additional Cost
${ }^{(1)}$ Serial Protocols: SEL ASCII, CompressedASCII, Settings FileTransfer, SEL Fast Meter with Configuration, Fast Operate, Fast SER, Phasor Measurement, Enhanced Mirrored Bits ${ }^{\circledR}$ Communications, DNP3 Level 2 Server Plus Dial-Out and Virtual Terminal.
${ }^{(2)}$ Download ACSELERATOR QuickSet SEL-5030 software for free at https://www.selinc.com/softwaresolutions/. ACSELERATOR QuickSet on CD (503001WX4) is available upon request.
${ }^{(3)}$ The LEA Voltage Input option requires Conformal Coating.

| (4) Only two Ethernet ports will be populated based on the Ethernet |
| :--- |
| Connection Options Selection. IEEE Precision Time Protocol (PTP) is only |
| available on Port 5A and 5B. |
| (5) PTP is not available on Ports 5C and 5D. PORT 5A |

${ }^{(6)} 18$ Common Inputs, 6 Independent Inputs, 6 High-Speed High-Current Interrupting Form A Outputs, 2 Standard Form A Outputs.
${ }^{(7)}$ The guards help prevent inadvertent operation of the auxiliary Trip/Close pushbuttons. These guards may be ordered separately in a kit (part number 9252001).
${ }^{(8)}$ Inputs: 6 Independent Level Sensitive Optoisolated and 18 Common Level Sensitive Optoisolated. Outputs: 4 High-Current Interrupting Form A Outputs
${ }^{(9)}$ This product comes standard with a CD manual. One complimentary printed instruction manual is available upon request with each product purchased.
${ }^{(10)}$ Specify Connectorized (®) Wiring Harness WA0421 using WI-2262. The standard option (WA04210BC2A) ships in the same box as the relay. All other options ship in a separate box.

