SEL-651RA Installation Instructions for Fuse Block for Field Wiring

Introduction

This accessory provides fused terminals in the bottom of the cabinet wired to the voltage inputs and input power on the control module. The terminals for the neutral and drain wires for both Y- and Z-side voltages are not fused. This accessory allows the customer to land input power and voltage inputs in the bottom of the cabinet, much closer and easier than routing the wires up to the control module on the swing panel. The accessory also offers fuse protection for the SEL-651RA.

Parts

SEL Part Number	Description	Quantity
P9755	Fuse block subassembly	1
080-0101	Wire clamps	2
140-3150	10-32 self-locking nut	2
310-0050	Zip ties	12

Installation

Step 1. Install the fuse block subassembly to the back of the cabinet. Secure the fuse block subassembly to the cabinet with two nuts. See *Figure 1*.
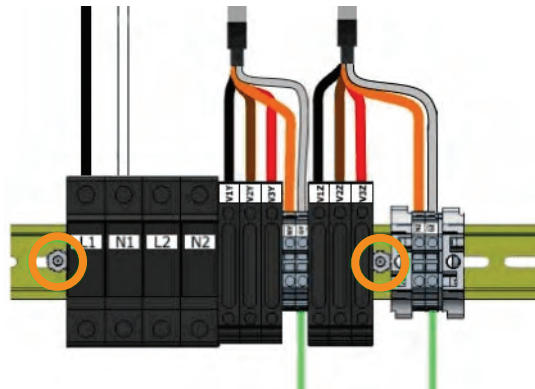

Figure 1   Secure Fuse Block Assembly

Step 2. Route the two green/yellow ground wires (from the **GY** and **GZ** terminals) down and across the bottom of the cabinet and connect them to the ground stud with the existing nut.

Step 3. Indicate the Y-side or Z-side cable bundle with a distinguishable mark at the ring terminal end for ease of connection later in this procedure.

Step 4. Route the power and voltage wires to the left then down the side of the cabinet to the bottom of the cabinet near the 14-pin connector. Secure wires with zip ties as necessary. See *Figure 2*.
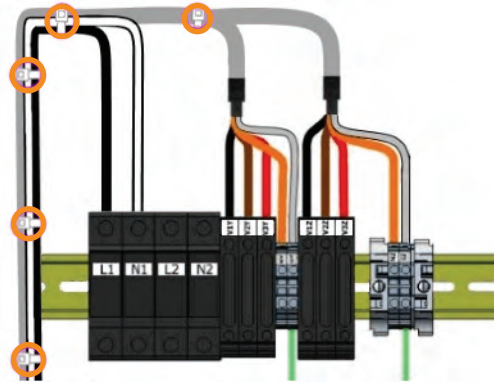

Figure 2   Route Power and Voltage Wires

Step 5. Route the wires through the existing wire clamp on the floor of the cabinet.

Step 6. Route the wires through the wire loom and up the swing-panel hinge through the existing wire clamps.

Step 7. Route the wires across the top of the control module. The accessory wires route separately from the main harness.

Step 8. Use the existing nuts to secure the wires to the top of the control module with the two accessory wire clamps (if they are not already installed). See *Figure 3*.
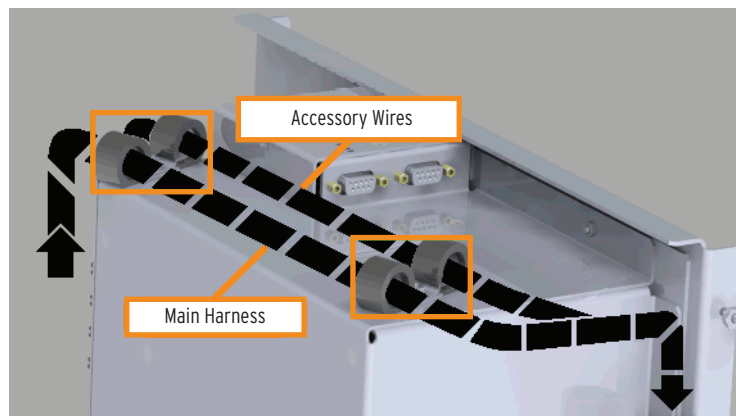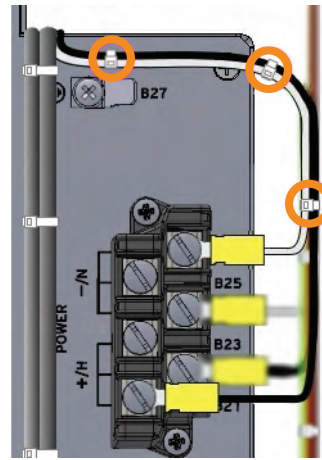

Figure 3   Secure Wires on Top of Control Module

Step 9. Attach the white wire from fuse **N1** to the **B26** terminal on the control module and the black wire from fuse **L1** to **B21** on the control module. See *Figure 4*.
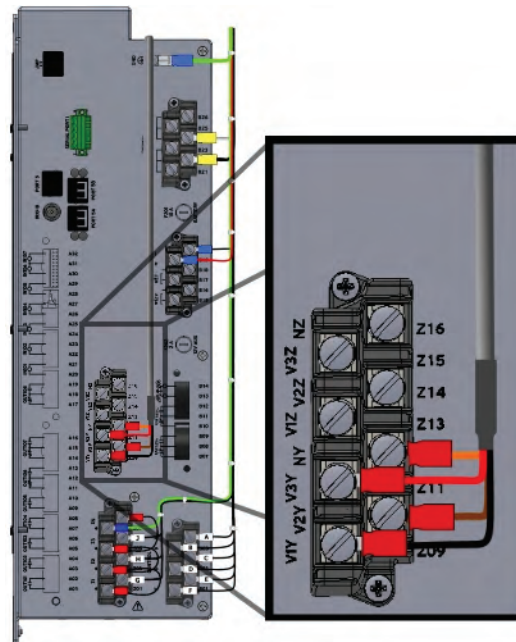
From: (Fuse Block Top)	To: (Relay)
L1 (black)	B21
N1 (white)	B26

Figure 4   Connect Power Wires to Control Module

> Step 10. Route the remaining wires down the side of the unit and through the existing plastic clamp.
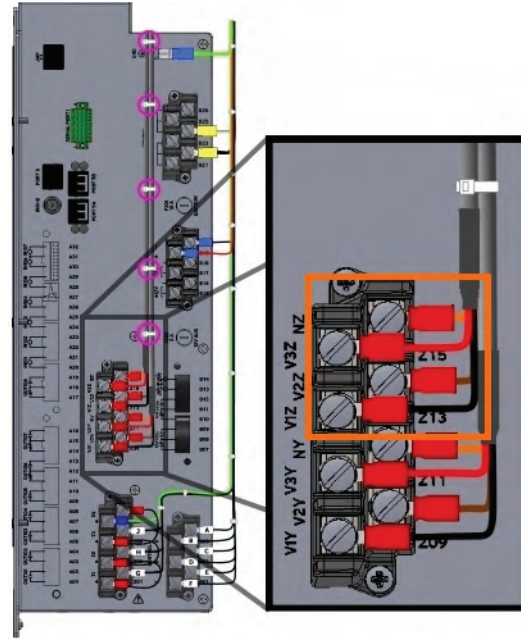>
> Step 11. Attach the wires from the Y-side voltage fuses and neutral terminal to the corresponding terminals on the unit. See *Figure 5*.

From: (Fuse Block)	To: (Relay)
V1Y	Z09
V2Y	Z10
V3Y	Z11
NY	Z12

Figure 5   Connect Y-Side Voltage Wires

Step 12. Attach the wires from the Z-side voltage fuses and neutral terminal to the corresponding terminals on the unit. See *Figure 6*.
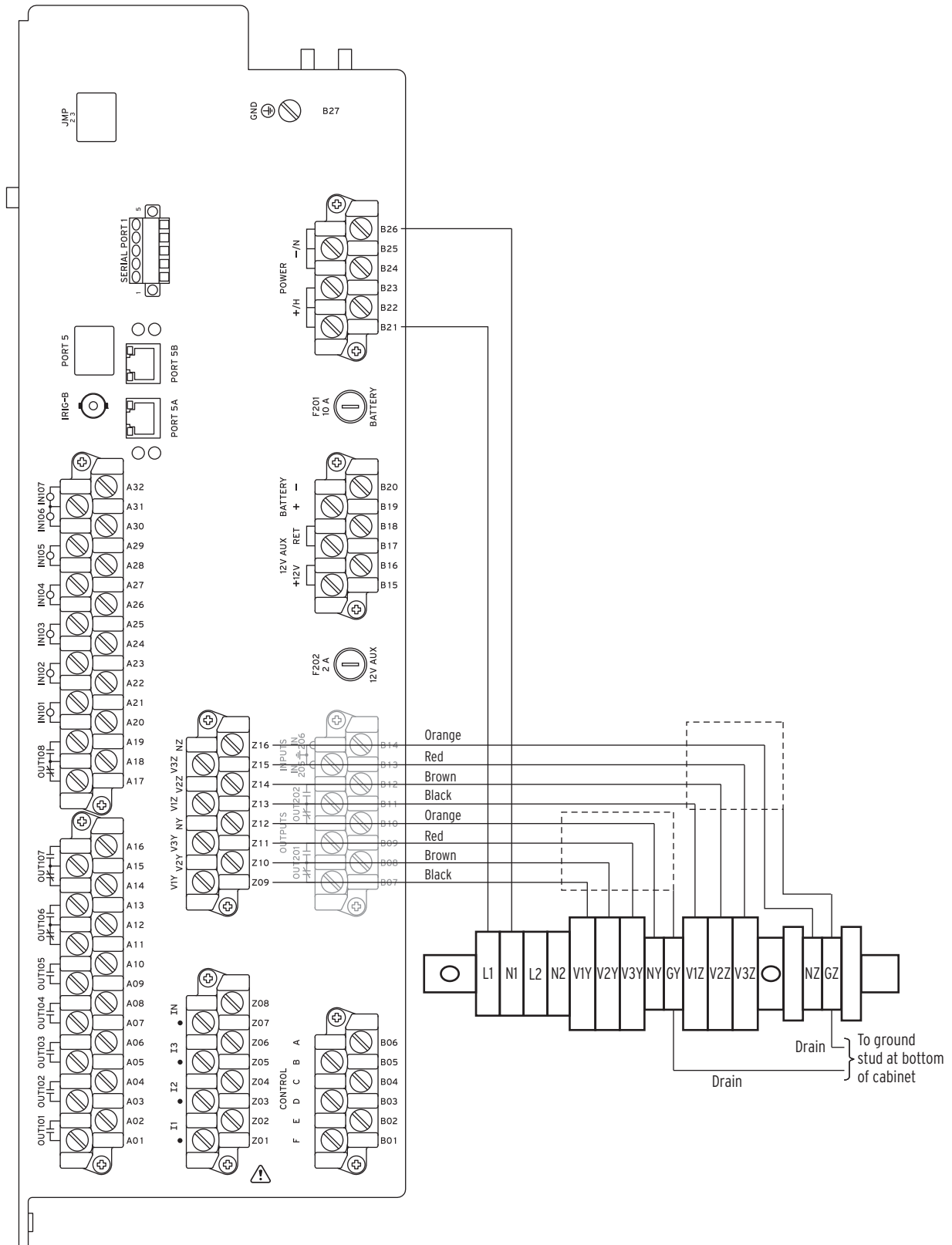

From: (Fuse Block)	To: (Relay)
V1Z	Z13
V2Z	Z14
V3Z	Z15
NZ	Z16

Figure 6   Connect Z-Side Voltage Wires

Step 13. Zip tie wires as necessary.

Wiring Diagram

Technical Support

We appreciate your interest in SEL products and services. If you have questions or comments, please contact us at:

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*PLS651RA-10*
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