

# SEL-734B

## Advanced Monitoring and Control System



Provide capacitor bank control, power quality monitoring, and revenue metering with one adaptable device

- Use advanced monitoring and reporting to improve power quality.
- Easily toggle between simple time/temperature-based control and more advanced VAR or power factor control.
- Integrate the SEL-734B into system-wide volt/VAR control and distribution control schemes.
- Make commissioning a plug-and-play experience with your choice of enclosure and connectors.
- Improve voltage and power factor control with individual-phase switching.





## Key Features

### Capacitor Bank Control

Choose capacitor bank switching strategies that work for your system: voltage, kVAR, current, power factor, and time/temperature-based control. You can order a SEL-734B configured for time/temperature-based switching and easily upgrade to advanced control in the future. Low-energy analog (LEA) sensor compatibility allows fast, safe, and inexpensive installation.

### Multiple Applications in One Controller

Configure the SEL-734B for your application now, and adapt it as your system evolves. Highly configurable logic and integrated communications allow you to adapt the SEL-734B to applications ranging from basic three-pole control to intelligent single-pole control. You can customize it for sectionalizing, feeder monitoring, overcurrent detection for fault locating, and more.

### Advanced Power Quality Monitoring and Trending

All SEL-734B models include harmonic measurements; load profile trending; voltage sag, swell, and interruption (VSSI) recording; and waveform capture. The optional advanced power quality and monitoring feature measures harmonics to the 50th order, captures waveforms at 8 kHz, and offers 192 channels of profile trending.

### Preconfigured Control Strategies

SEL software templates simplify the implementation of control strategies ranging from basic voltage-based control to advanced single-pole kVAR control with voltage override. Templates are also available for control strategies that use current, power factor, time, temperature, and time with temperature override.

### Plug-and-Play Configurations

Deploy the SEL-734B in a wide array of installations with compact or full-size enclosures. Cabinets are equipped with rugged military-grade cables, ready for direct connections to line post sensors and capacitor switches. A 15 Vdc auxiliary power supply is integrated into the controller, allowing more space in the enclosure for components like radios, clocks, and cellular routers.

### Automation-Ready

Capacitor controls are integral to system-wide volt/VAR control schemes; the SEL-734B integrates seamlessly into distribution control schemes to linearize voltage profiles and minimize VAR-induced I<sup>2</sup>R losses.

### Individual-Phase Switching

With the SEL-734B full-size enclosure, you can use three-phase voltage and current sensing to implement individual-phase switching.



Making Electric Power Safer, More Reliable, and More Economical  
+1.509.332.1890 | [info@selinc.com](mailto:info@selinc.com) | [selinc.com](http://selinc.com)

© 2025 by Schweitzer Engineering Laboratories, Inc.  
PF00237 • 20251212

