



## RLC04

### CAPACITOR BANK FILTER PROTECTION RELAY

The RLC04 is a numeric, digital signal processor based, protection relay. Designed specifically to combine all functions required for comprehensive protection of medium and high voltage capacitor banks and filter installations.



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# RLC04

The RLC04 is numeric, digital signal processor based, capacitor bank filter protection relay. It is designed specifically to combine all functions required for comprehensive protection of the capacitive, inductive and resistive elements of three phase medium voltage and high voltage shunt capacitor banks and harmonic filter circuits.

The RLC04 has found great international acclaim and has been exported all over the globe.

The RLC04 has been built on the foundation of years of continuous development through previous successful models. The RLC04 has quality embedded into every stage of its design and it has been manufactured to the strictest quality standards. Combining state of the art hardware technology and software techniques it provides the most convenient functionality in its sphere.

The RLC04 has additional protection features such as fundamental and harmonic over-current and over-voltage, as well as over-temperature conditions and residual earth currents. Due to its accuracy and short response times, the relay provides the optimum protection for a system. By only operating when absolutely necessary it prevents unnecessary trip outs thereby preventing unnecessary financial losses and other detrimental consequences. In addition, after a system fault or equipment failure, the RLC Protection Relay trips the associated circuit breaker timeously, to ensure maximum personnel safety, and to minimize further equipment and other consequential damage.

## Why buy an RLC04

The RLC04 is designed, manufactured and supported in South Africa to meet the needs of our harsh climate.

The RLC04 offers very reliable, sound protection of shunt capacitor banks and harmonic filters from over-current, under-current and earth fault protection.

The RLC04 represents best value for money for the protection features it covers.

Firmware and Software upgrades are being supplied regularly free of charge.



# Key Features

- Star and H configuration banks are catered for in a single product.
- Comprehensive trip history with time-stamping.
- Optional power-up restore feature.
- 4 dual 1A/5A current measuring elements.
- Six relay outputs.
- 30V to 250V AC/DC auxiliary power supply.
- Supercap backed real-time clock.
- LED status indication.
- Remote communication via RS232 or RS484 serial port.
- Optically isolated digital input.



## PROTECTION FUNCTIONS

Shunt capacitor and filter banks are used in medium and high voltage systems to provide power factor correction and reduce unwanted harmonics being fed back onto the mains grid. Any one of a number of standard circuitries can be used to provide capacitor or filter bank protection in a system. With its 4 analogue input elements, 1 digital input, 5 output relays for system protection, and 1 output relay for self-supervision purposes, the RLC04-B can be programmed to handle any of these configurations.

The relay's functionality and programmable options adapt according to the type of circuitry being protected.

- Peak repetitive over-voltage protection to the 50th harmonic.
- Over-current, under-current and earth fault protection.
- Neutral unbalance protection with residual compensation.
- Line unbalance protection.
- Thermal protection for capacitor, inductor & resistor elements.
- Dual breaker fail protection with programmable logic.
- Capacitor re-switching protection.



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## CONTACT US

31 Park Avenue North  
Highway Business Park  
Old Johannesburg Road  
Centurion  
South Africa

Tel: +27-12-804-9550  
Fax: +27-12-804-8512  
[info@strike.co.za](mailto:info@strike.co.za)

PO Box 30220  
Sunnyside  
0132  
Pretoria  
South Africa