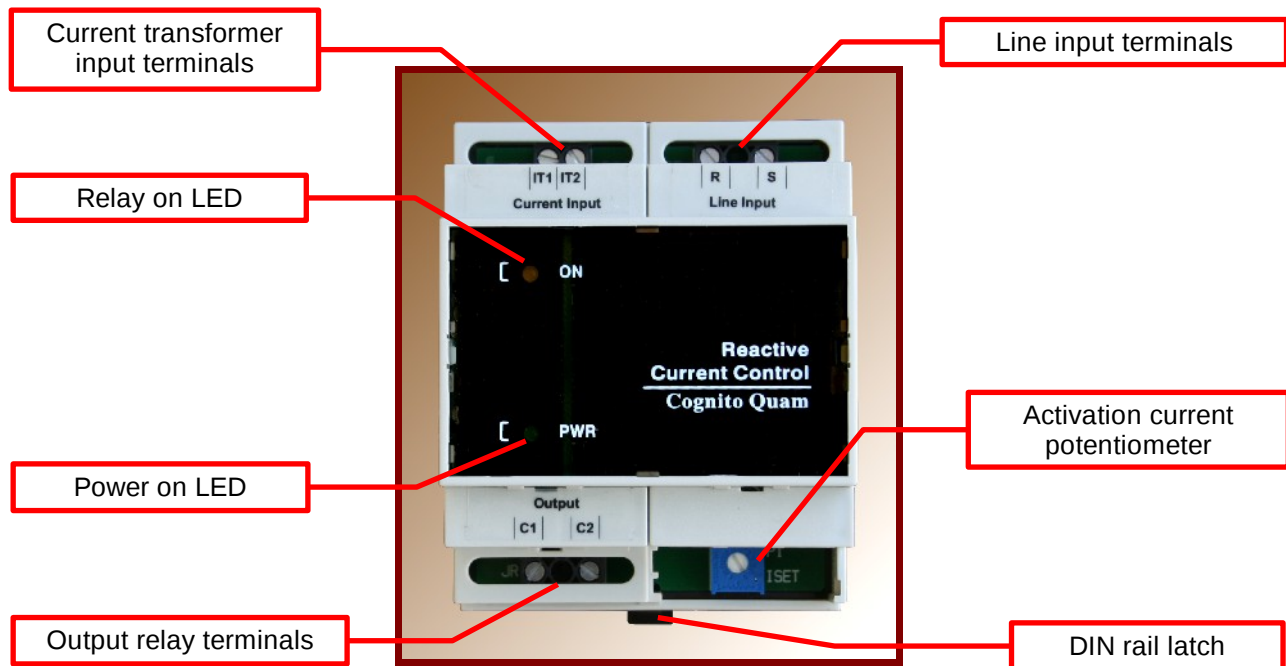


RCCx-xxx Reactive Current Control

The RCCx reactive current control detects reactive current in a single- or three-phase line and closes its output contacts if above the set limit. It can thus dynamically compensate low inductive power factor lines by signaling the need to switch capacitors in and out of the line. It is very simple to install and adaptable to all power factor compensation applications.



Three phase reactive current control RCC3-xxx.

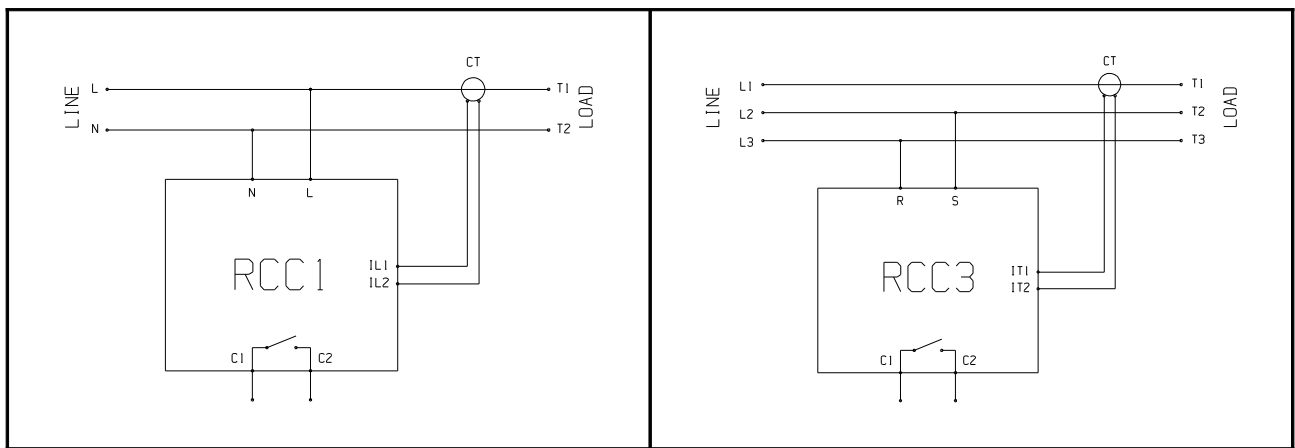
The RCC measures the reactive current in a single-phase (RCC1-xxx models) or three-phase (RCC3-xxx models) system and closes the 12 A output contacts when the monitored reactive current is above the preset value. The current is detected with a current transformer (CT) in one of the phase lines with a maximum response time of 30 seconds.

The RCC response time makes it particularly suitable to activate contactor switched capacitor banks in dynamically compensating low-duty or variable loads such as:

- Lifts,
- Conveyors,
- Compressors,
- Pumps,
- Fans, and
- Office lighting.

The RCC is designed for single-phase (RCC1-xxx models) or three-phase (RCC3-xxx models) lines. Characterizing features are shown in the following table.

RCCx-xxx Characteristics	
Three phase line connection without neutral	The RCC3-xxx connects to two of the three-phase lines and no connection to the neutral.
Current detection	By standard 5 A secondary current transformer.
Reactive current activation range	Activation potentiometer range of 0.3 - 3 Ar (measured at the current transformer secondary) ensures versatile, reliable and robust operation.
Phase sensitive detection method	Reactive current is measured without being affected by noise and harmonics in the line.
Output relay contacts	12 A output relay contacts are closed when the detected reactive current is above the set value at the activation potentiometer.
Indicating LEDs	LEDs show the power supply and relay activation state.
Control circuit	Isolated control circuit enhances safety and noise immunity.
Protection	Protection against line overvoltages and faults.



Connection diagram of an RCC1-xxx to a single-phase line (left) and an RCC3-xxx to a three-phase line (right).

Ordering Information by Line Voltage					
Description	120 V, 60 Hz lines	230 V, 50 Hz lines	240 V, 60 Hz lines	400 V, 50 Hz lines	480 V, 60 Hz lines
Reactive current control, single-phase	RCC1-120	RCC1-230	RCC1-240		
Reactive current control, three-phase	RCC3-120		RCC3-240	RCC3-400	RCC3-480

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