

PCS100 Reactive Power Conditioner

Take control of your voltage



Improve your voltage quality affected by motor starting with weak power supplies. The PCS100 RPC can control the voltage by injecting reactive current to the system.

Benefits of Installation

- Improved voltage stability and quality
- PCS100 RPC high current overload can be used, reducing the size and cost of the solution

Motor Start-up trouble?

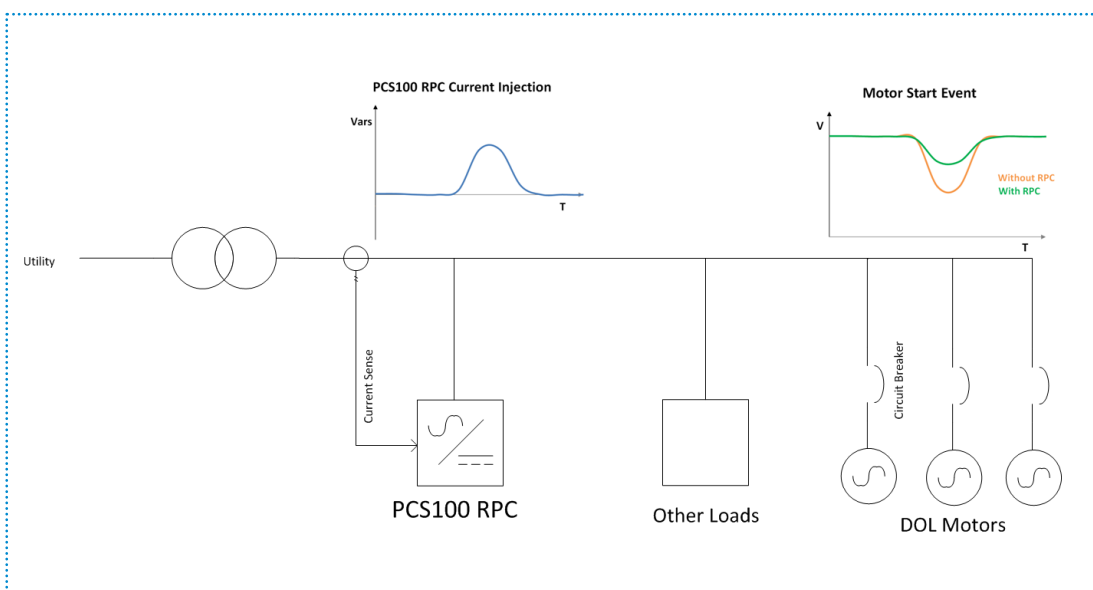
Direct on-line motor starting on a weak supply can cause:

- Voltage sags which affect other loads
- Reduced starting torque

PCS100 RPC solution

Most current used during motor starting is reactive. To avoid affecting other loads this current can be sourced from the PCS100 RPC. The high current overload (maximum 200 percent) is ideal because motor start events are short. The PCS100 RPC can operate in voltage control to keep the voltage regulated. The PCS100 RPC can also correct for voltage imbalance, which causes additional heating if not corrected.

Click on www.abb.com/powerquality now to find your local contact person.



The diagram shows a load of direct on-line motors. A motor start event causes a voltage dip (orange line) which can affect the other loads. The PCS100 RPC injects a capacitive current (blue line) and the system voltage improves (green line).

Because this event is less than two seconds long the PCS100 RPC overload capacity is used. By using the overload capacity a smaller sized PCS100 RPC can be used for the job.