

ABB PQF Active Filters

Raising system reliability to unprecedented levels

ABB PQF active filters enable trouble-free and efficient operation of your electrical installation and sensitive loads. In addition, the ABB PQF active filters allow users to comply with even the most stringent of utility power quality regulations. As a further step to improve your system's reliability, ABB is proud to announce the introduction of the full-redundancy feature in its range of world class active filters.

Overview

ABB PQF active filters can be applied to small, medium or large applications and are suitable for both industrial and commercial installations. They provide harmonic mitigation, load balancing and stepless reactive power control for inductive and capacitive loads. Selection from the large choice of ratings between 30 A and 3600 A enables the optimal solution for your system to be easily defined.

PQFS: first filter to incorporate the full-redundancy feature

This feature allows different filter units to work together in a coordinated and efficient manner and permits compliance with even the most stringent requirements on redundancy imposed in critical applications, varying from data centers over telecommunication hubs to sensitive industrial processes. Under normal operation the complete system will distribute the load evenly over all units. If one of the units fail or is shut down, the other unit(s) take(s) over its load without the need for an intervention, providing that the appropriate filter capacity is selected.



The full redundancy feature has first been implemented in the wall-mounted PQFS range of active filters with individual unit ratings from 30 to 100 Amps being available today. This filter range is mainly used in commercial applications where full redundancy is often requested. Up to four PQFS units of the same rating can be connected in parallel. If the full redundancy feature is required, the four units must be of the master type.

By combining master and slave units a filter system with limited redundancy is obtained. In this case, under normal operation the complete system will distribute the load evenly over all units. When a slave unit fails or is shut down, its load is distributed over the other units present without the need for an intervention providing that the appropriate filter capacity is selected.

Depending on the application requirements, the customers can select either a system offering full redundancy or a system offering limited redundancy.

More technical information about the ABB PQF active filter range is given in the product catalogue „Power Quality Filters - PQFI - PQFM- PQFK - PQFS“.

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