

POWER FACTOR CORRECTION FOR SYSTEM INTEGRATION

SBF Type - Fixed Capacitor Modules
Highly reliable, low loss capacitors with self healing properties.

Safety protection system incorporated into each capacitor element.

For switchgear and control panel manufacturers wishing to install Power Factor Correction within their own enclosures.

Desired kVAr rating can be built up in step sizes dictated by the customer's own requirements.

Custom built capacitor trays designed for special applications.

Terminal blocks or flying leads and fixing holes provided for ease of installation.

Static Power Factor correction modules for placement within an existing control panel, switchgear cubicle or Power Factor Correction unit.

These modules can be independently switched, if required, via customers own control gear.

Fully or partially enclosed Capacitor Modules

These modules are specifically designed for customers who wish to integrate Power Factor correction within switchgear or control cubicles.

The low losses associated with these capacitors allow the units to be contained within their own enclosure. This is applicable for installations in extreme or dusty atmospheres.

Construction

The capacitor unit is constructed from the required number of individual capacitor elements. These elements are manufactured from impregnated metallized polypropylene and have a self-healing capability. Each element incorporates a fail-safe protection device and discharge resistors.

Permissible Overloads

Rated voltage [V] 50Hz	300	400	440	480	525	615
Over-voltage [V]						
8 hours daily	330	440	484	528	578	677
30 min. daily	345	460	506	552	604	707
5 min. daily	360	480	528	576	630	738
1 min. daily	390	520	572	624	683	800



SBF Type - Fixed Capacitor Module

The Energy
 Solution
 Specialists.

PFC Engineering
 Station Road
 Great Chesterford
 Essex CB10 1NY

t: 01799 530728
 f: 01799 530235
 e: info@pfc-engineering.com
 w: pfc-engineering.com



Permissible Temperature Range

Ambient -40 to $+60^{\circ}\text{C}$.

Losses

Dielectric loss 0.2 Watts per kVAr

Total capacitor losses 0.5 Watts per kVAr.

Discharge Devices

Capacitor terminal voltage reduced to 50 Volts within 1 minute (exceeding EN 60831).

Paint Specification

RAL 7035 as standard.

Rating

SBF Type rated at 415 Volts 3 phase 50 Hertz. Up to 108 kVAr per module as standard.

Standards

PFC equipment manufactured to:

EN 61921

EN 60831-1

EN 60831-2

The Energy
Solution
Specialists.

PFC Engineering
Station Road
Great Chesterford
Essex CB10 1NY

t: 01799 530728
f: 01799 530235
e: info@pfc-engineering.com
w: pfc-engineering.com