

AC Filter Capacitor Bank 1250 μ F, 480 VAC

The 705A Series is a 480 VAC, 1250 μ F Single Phase, AC Filter Bank utilizing Power Ring Film Capacitor™ technology.



Electrical Specifications

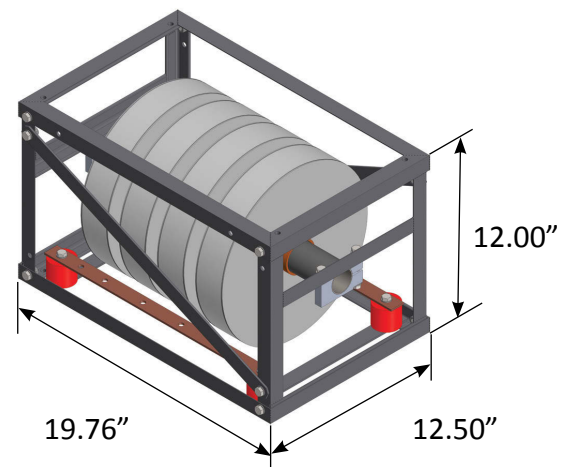
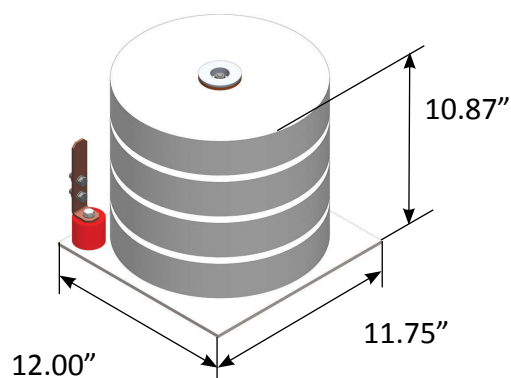
Capacitance/Tolerance:	1250 μ F \pm 10%
AC Voltage Rating:	480 VAC
Fundamental Current:	188A rms at 50Hz 226A rms at 60Hz
Max. Total Harmonic Current:	250A rms
Dielectric/Construction:	Dry type capacitor metallized polypropylene
Operating Temperature:	-40°C to +55°C
Max. Case Temperature:	+70°C
Max. Cap Change After 80,000 hrs. Operation:	10-15%
Min. Life at 40°C Case Temperature and 230A:	80,000 hours

Mechanical Specifications

Dimensions:	See layout drawing for details												
Terminals:	Universal copper rails												
Encapsulation:	Tape wrap & end filled with insulating white epoxy												
Marking:	<table border="0"> <tr> <td>SBE</td> <td>SBE company identification</td> </tr> <tr> <td>705Axxx</td> <td>SBE "short form" part number</td> </tr> <tr> <td>1250 μF \pm10%</td> <td>Capacitance value and tolerance</td> </tr> <tr> <td>480 VAC</td> <td>AC voltage rating</td> </tr> <tr> <td>50/60 Hz</td> <td>Fundamental frequency</td> </tr> <tr> <td>yyww-lot#-unit</td> <td>Serial number (date code, lot number, unit number)</td> </tr> </table>	SBE	SBE company identification	705Axxx	SBE "short form" part number	1250 μ F \pm 10%	Capacitance value and tolerance	480 VAC	AC voltage rating	50/60 Hz	Fundamental frequency	yyww-lot#-unit	Serial number (date code, lot number, unit number)
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Layout Details

Contact SBE Inc. to discuss your specific requirements.



SBE reserves the right to amend design data

At the Leading Edge of Film Capacitor Technology®

Increase the Life and Reliability of your AC Filter Capacitors!

- Immediately reduce AC capacitor, associated component and labor costs
- Decrease maintenance costs
- Increase life
- Improve reliability
- Dry film construction
- Eliminate failures which cause collateral damage
- Simplify supply chain

In today's most advanced UPS systems, Power Ring Film Capacitor™ solutions are becoming the AC filter capacitors of choice. SBE's integrated Power Ring Film Capacitor™ solution eliminates the risk of explosive failures which cause damage to other components in UPS systems and lasts up to twice as long as conventional oil filled capacitors. Unreliable, oil filled film capacitors with temperamental pressure interrupters are eliminated and replaced with SBE's dry film capacitors.

Preventing Catastrophic Failures

There are a number of features of the SBE Power Ring capacitor which prevent the type of failures which are seen in typical film capacitors. SBE's proprietary end connection and segmentation technology allows for safe management of higher current densities and prevents "unzipping" failures. In addition, SBE's Power Ring capacitors are not sealed in a can, therefore overpressure does not occur. Finally, the large surface area and short thermal path to the end faces of the Power Ring are ideal for reducing temperature rise.

Supply Chain and Serviceability Enhancement

Instead of managing a supply chain of several individual components (capacitors, bus structures, housing, terminals, etc...), SBE's Power Ring Film Capacitor™ AC solution ships as a fully integrated unit. This integrated unit enables simple installation, in the factory as well as in the field. Upgrading existing filter banks is very simple and straightforward.

Engineering Expertise

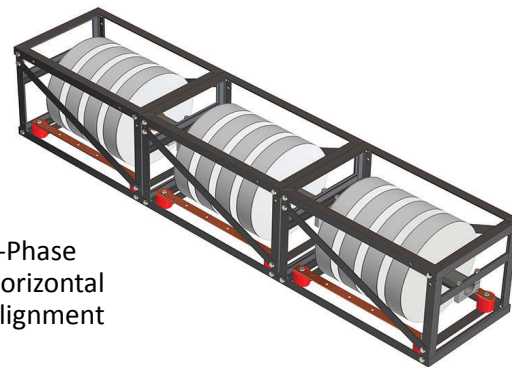
The SBE engineering team can help you optimize a bank design which can drop in to your existing space or allow you to create a leading edge, new design. A drop-in solution facilitates a simple path for field testing and system evaluation. A drop-in solution also allows for convenient implementation of second sourcing since the AC capacitor bank is not changed dimensionally – but cost and performance are improved.

SBE is engaging designs in the industry globally. We are ready to introduce your team to the great benefits that others in the industry are implementing in their next generation systems. Please feel free to contact us to set up a call or to discuss your system requirement.

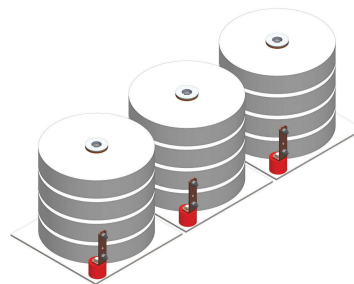
A 3 phase system can easily be realized using the single phase unit as a building block. An example system is shown. Other orientations are available.



Single Phase Building Blocks



3-Phase Horizontal Alignment



3-Phase Horizontal Alignment



3-Phase Vertical Alignment

#SBE-AC filter cap bank-705A100-REV-02/15

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