



PFC Series-- Save Up To 25% In Energy Costs Eliminate Costly Power Factor Penalties

Low Voltage Fixed Capacitor Assemblies

Product Highlights

- Voltage Ratings 240vac to 600vac
- Standard Sizes, 2kvar to 300kvar
- Fusing and Blown Fuse Light Options
- Complete Assembly UL 508A Listed
- Economical Power Factor Improvement
- "In-Stock" or Fast Delivery Lead Time

Power factor improvement is available from 2kvar to 300kvar in economical, fixed motor load (ML) type capacitor assemblies. Each unit is offered for rugged industrial indoor use and includes optional fusing and blown fuse indication lights. Specific user requirements can be accommodated with unique designs and other ratings. The standard, off-the-shelf capacitors provide a wide selection range for 240, 480, and 600vac electrical systems.

Capacitors are three phase, metalized polypropylene, which are self-healing to prevent permanent dielectric breakdown. Each capacitor is designed for long life and operation for a wide temperature range and contained in an aluminum case. Pressure sensitive circuit interruption incorporated within the capacitor to safely remove the unit from service under heavy fault conditions, while maintaining case integrity. External discharge resistors allow voltage to be reduced to 50 volts or less in one minute. Resistors are sized for long life and continuous operation, at maximum rated temperature.



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ACT-VAR ML capacitors are housed in either a 14 or 16 gauge metal enclosure, painted ANSI 61 gray. All units include either a stud or terminal type power line connection and allow for quick, simple installation. Capacitor assemblies can be mounted either vertically or horizontally, helping to meet a variety of application needs.

Options include current limiting fuses rated for either 100kaic or 200kaic, for overcurrent protection, along with blown fuse indication lights (three fuses and three neon lights). Where overcurrent protection is required, applicable NEC codes should be followed for proper equipment installation.

These capacitor assemblies are ideal for improving power factor where induction motors are located, as well as for multiple, small kvar requirements. For larger kvar, automatically switched capacitor banks, or harmonic mitigation, ACT can provide these solutions, as well as help to coordinate a totally balanced power quality system.

Harmonics and Capacitors

Harmonic distortion generated from non-linear loads, such as variable speed drives, UPS and other switch-mode power supplies can affect metalized film capacitors. This includes higher operating temperatures and higher voltage stress, which will shorten the capacitor life expectancy. All ACT-VAR ML capacitors are designed to accommodate harmonic currents up to 10% THD.

Enclosure, Mounting and Connections

Standard indoor/outdoor enclosure painted ANSI 61 gray, with a durable finish (knock-outs not provided), allowing site specific, easy installation and service. Flange design provides for wall or floor mounting, equipment mounting (top of motor control center, motor bracket etc.). Optional neon (red color) lights include a "seal-tight" design.

Power line connections utilize an M8 threaded stud when equipped with fuses rated 40 amps and above. Assemblies equipped with fuses smaller than 40 amps use a #10 screw terminal. Where assemblies are provided without fuses, a compression lug type terminal block is provided. All assemblies include a 1/4" ground stud connection point. Entry locations are from the top panel, or both side panels (at top panel location); user to punch appropriate size hole.

Low Voltage Systems



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American Control Technologies, Inc.



Low Voltage Fixed Capacitor Assemblies

Part Numbers by KVAR, with Voltage and Fuse Ratings

240 VAC			480 VAC			600 VAC		
PF-0002-00x-N246W1	2	10 100,000	PF-0002-00x-N486W1	2	5 100,000	PF-0002-00x-N606W1	2.5	5 100,000
PF-0003-00x-N246W1	2.5	10 100,000	PF-0005-00x-N486W1	5	10 100,000	PF-0005-00x-N606W1	5	10 100,000
PF-0004-00x-N246W1	4	20 100,000	PF-0008-00x-N486W1	7.5	15 100,000	PF-0008-00x-N606W1	7.5	15 100,000
PF-0005-00x-N246W1	5	20 100,000	PF-0010-00x-N486W1	10	20 100,000	PF-0010-00x-N606W1	10	20 100,000
PF-0008-00x-N246W1	7.5	30 100,000	PF-0013-00x-N486W1	12.5	25 100,000	PF-0013-00x-N606W1	12.5	20 100,000
PF-0010-00x-N246W1	10	40 200,000	PF-0015-00x-N486W1	15	30 100,000	PF-0015-00x-N606W1	15	25 100,000
PF-0013-00x-N246W1	12.5	50 200,000	PF-0020-00x-N486W1	20	40 200,000	PF-0020-00x-N606W1	20	40 100,000
PF-0015-00x-N246W1	15	63 200,000	PF-0025-00x-N486W1	25	50 200,000	PF-0025-00x-N606W1	25	40 200,000
PF-0020-00x-N246W1	20	80 200,000	PF-0030-00x-N486W1	30	63 200,000	PF-0030-00x-N606W1	30	50 200,000
PF-0025-00x-N246W1	25	100 200,000	PF-0035-00x-N486W1	35	80 200,000	PF-0035-00x-N606W1	35	63 200,000
PF-0030-00x-N246W1	30	125 200,000	PF-0040-00x-N486W1	40	80 200,000	PF-0040-00x-N606W1	40	80 200,000
PF-0040-00x-N246W1	40	160 200,000	PF-0045-00x-N486W1	45	100 200,000	PF-0045-00x-N606W1	45	80 200,000
PF-0050-00x-N246W1	50	200 200,000	PF-0050-00x-N486W1	50	100 200,000	PF-0050-00x-N606W1	50	80 200,000
PF-0060-00x-N246W1	60	250 200,000	PF-0060-00x-N486W1	60	125 200,000	PF-0060-00x-N606W1	60	100 200,000
PF-0075-00x-N246W1	75	315 200,000	PF-0075-00x-N486W1	75	160 200,000	PF-0075-00x-N606W1	75	125 200,000
PF-0100-00x-N246W1	100	400 125,000	PF-0100-00x-N486W1	100	200 200,000	PF-0100-00x-N606W1	100	160 200,000
			PF-0125-00x-N486W1	125	250 200,000	PF-0125-00x-N606W1	125	200 200,000
			PF-0150-00x-N486W1	150	315 200,000	PF-0150-00x-N606W1	150	250 200,000
			PF-0175-00x-N486W1	175	350 125,000	PF-0175-00x-N606W1	175	315 200,000
			PF-0200-00x-N486W1	200	400 125,000	PF-0200-00x-N606W1	200	350 200,000

Note on Part Numbering:

- 1) The x in the part number requires the designation of N (No Fuses), F (Fuses), or L (Fuses and Lights).
- 2) For Harmonic Duty rated capacitors, change the N in the last section of the part number to H.

For example, to order a harmonic duty rated 240 VAC, 4 kvar capacitor with fuses, you would use part number PF-0004-00F-H246W1.

Note: For 208 VAC systems, use 240 kvar rating and multiply by .75 for 208 kvar rating. Consult the factory for higher kvar ratings.

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