



Tired of utilities charging a penalty for poor power factor ratings?

Fused and unfused, Class 5810 ReactiVar® Power Factor Fixed Capacitors

If you're one of thousands of industrial facilities being charged a penalty for poor power factor ratings by your utility – stop. You can significantly reduce those charges.

Power factor correction capacitors supply the reactive power (kVAR) required by inductive loads. By correcting poor power factor ratings, capacitors reduce kVA demand thus off-loading transformers, switchgear and other equipment. The reduced kVA demand results in lower utility power bills, cooler equipment operation and longer equipment life.

Square D® ReactiVar dry fixed capacitors are ideally suited for power factor correction in applications where the load does not change or where the capacitor is switched with the load, such as the load side of a motor starter.

ReactiVar PFCD fixed capacitors are available up to 200kVAR. Assemblies are available as unfused or fused with three fuses and three blown fuse indicators.



by Schneider Electric

Features

- Available from 6 to 200kVAR, 480/600V
- 690V rated capacitor element for super duty unit
- Low-loss self-healing metalized polypropylene cell design has less than 0.5W/kVAR losses
- Patented HQ protection system provides protection against high current faults with an HRC cartridge fuse, and low current faults with a combination of the over pressure disconnect device and an HRC fuse
- For specifications that call for fusing, 3-phase, current-limiting fusing is standard
- Blown fuse indicators are standard on fused units
- Prefabricated knock out conduit entry
- Optional wall mount bracket for up to 100kVAR unit
- Attractive finish: indoor and outdoor units are constructed of 14 gauge steel, finished with ASA 61 paint
- CSA® and CSA-US certified
- Complies with International Electrotechnical Conference (IEC) standards

Application Note:

All capacitors are a low impedance path for harmonic currents produced by non-linear loads such as variable frequency drives, motor soft-starters, welders, computers, PLCs, robotics and other electronic equipment. These harmonic currents can be drawn into the capacitor causing it to overheat, shortening its life and possibly preventing proper operation. Furthermore, the resonant circuit formed by the capacitor in parallel with the system inductance's (transformers and motors) can magnify harmonic currents and voltages which can cause nuisance fuse operation and/or damaged electrical equipment. Should your electrical system contain any non-linear loads, please contact Schneider Electric for application assistance.

Product Specifications

- Type: self-healing, internally protected capacitor elements, dry design
- Dielectric: metalized polypropylene film, no liquid dielectrics
- Internal connection: 3 Phase, Delta
- Tolerance on capacitance: -5%/+10%
- Discharge mechanism: polycarbonate resistor, 1 per phase
- Discharge time: < 50V in 1 minute
- Losses: < 0.5W/kVAR, including discharge resistors
- Rated voltage (V_n): 480V, 600V
- Rated frequency: 60Hz
- Dielectric withstand: 4kV/60Hz for 1 minute
- Interrupting rating - Unfused: 10kA I.C. symmetrical
- Fused: 200kA I.C. symmetrical
- Continuous overvoltage: $1.1 \times V_n$ (8 hours over 24 hours)
- Continuous overcurrent: $1.30 \times I_n$
- Maximum harmonic current (I_h): $1.05 \times I_n$
- Maximum harmonic voltage (V_h): $1.05 \times V$ for standard unit, $1.07 \times V$ for super duty
- Temperature range: -10°C to +40°C (14°F to +104°F)
- Highest mean temperature over 24 hours: +40°C (+104°F), 1 year: +30°C (+86°F)
- Altitude: 1800 meters (6000 feet) without de-rating
- Approvals: CSA and CSA-US certified under file 2149603 (LR 23506)
- Paint finish: NEMA Type 1 and Type 3R, ASA 61 standard
- Enclosure: 14-gauge steel

Other products and services:

- AV4000 and AV5000 standard automatic capacitor banks
- AV6000 anti-resonant capacitor bank
- AccuSine® Active harmonic filters
- AT6000 anti-resonant LV transient-free reactive compensation systems
- Medium voltage fixed and automatic switched capacitor banks up to 15kV
- Engineering services such as: size and rating assistance, harmonic analysis, computer simulations, commissioning, service contracts

NEMA 1/3R Enclosure dimensions and weights*

Size No.	Height		Width		Depth		Max. weight lb / Kg
	Inch	MM	Inch	MM	Inch	MM	
1	31.3	795	20	508	16.88	429	78/35.4
2	43.8	1113	20	508	16.88	429	110/50
3	56.3	1430	20	508	16.88	429	146/66.2
4	43.8	1113	36	914	16.88	429	220/100
5	56.3	1430	36	914	16.88	429	300/136.0

*Note: Dimension and weight information are subject to change without notice.

For more information call 1-888-SQUARED, email pqc@squared.com, or check out our product literature at www.schneider-electric.us/products-services/services.

Schneider Electric – North American Operating Division

1415 S. Roselle Road
Palatine, IL 60067
Tel: 888-778-2733

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