

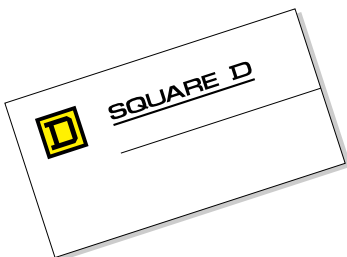
Square D's new ReactiVar Fixed Power Factor Correction Capacitors are now constructed with an entirely dry dielectric system.

- New dry design provides no risk of fluid leakage, no environmental pollution and no need for drip pans.
- Available up to 300kVAR, 600V.
- Low loss self-healing Metalized Polypropylene Cell design has less than 0.5W/kVAR losses.
- Patented Multiple Protection Feature incorporates an internal protection device which negates the need for external fuses. Capacitor elements are encased in a non-flammable vermiculite filler as an added safety feature.
- For specifications which call for fusing, 3 phase current-limiting fusing is standard.
- Blown fuse indicators are standard on fused units.
- Large terminals for easy cable connection.
- Available in Type 1/12 indoor and 3R outdoor enclosure types.
- Convenient ground lug included as standard.
- Common footprint on all units up to 100 kVAR.
- Attractive finish: Indoor units are constructed of welded mild steel finished in a medium-blue textured polyester paint finish. Outdoor units are finished in ASA 61 light-grey outdoor paint.
- Mounting feet for easy installation. Wall mounting brackets available.
- UL Listed.
- CSA Certified.
- Complies with IEC standards.



Many Utilities effectively charge a penalty for low power factor. Power factor correction capacitors supply the reactive power (kVAR) required by inductive loads. By correcting poor power factor, 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.

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 capacitors are available up to 100 kVAR as individual units, and up to 300 kVAR in banks. Assemblies are available unfused, or fused with 3 fuses and 3 blown fuse indicators. Enclosures are available as indoor Type 1/12 or optional outdoor Type 3R and are suitable for floor or wall mounting with an optional wall mounting bracket.



GROUPE SCHNEIDER

Power Factor Fundamentals

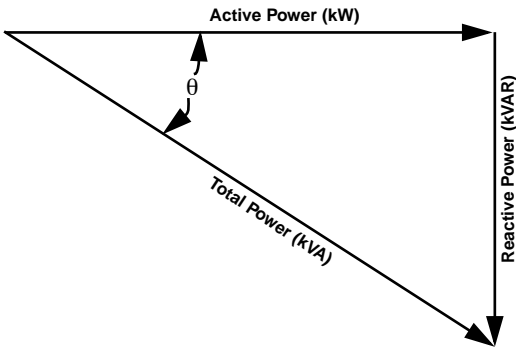


FIGURE 1

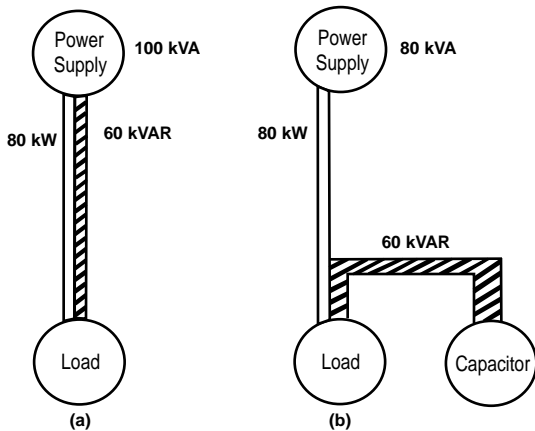


FIGURE 2

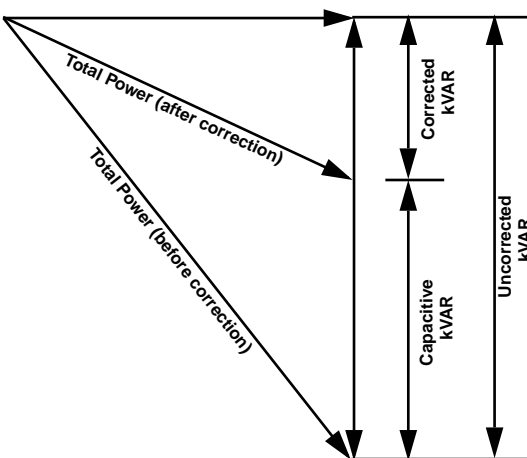


FIGURE 3

The total current required by inductive loads such as motors, transformers, and fluorescent lighting may be considered to be made up of two separate types of current.

Active current (or power producing current) is the current which is converted into useful work such as turning a lathe, providing light or pumping water. The power produced by this component is the *kilowatt* (kW).

Reactive current (also known as wattless, magnetizing or nonworking current) is the current which provides the magnetic flux necessary for the operation of these loads but is not converted into useful work. The power produced by this component is the *kilovar* (kVAR).

The *total current* is the current which is measured on an ammeter. It is the sum of both the active and the reactive components. The power produced by the total current is measured in *kilovolt amperes* (kVA).

Power Triangle

The relations between the various power components and the system voltage are illustrated in the power triangle shown in Figure 1. From Figure 1, it is apparent that the active power component is *in phase* with the applied voltage while the reactive component occurs 90 degrees out of phase with the voltage.

The equation that defines this relationship is:

$$(\text{kW})^2 + (\text{kVAR})^2 = (\text{kVA})^2$$

Power Factor is the ratio of Real Power Consumed to Total Power Consumed (kW/kVA) and is in fact, a measure of efficiency. When the power factor reaches unity (as measured at the utility power meter), it can be said that the plant is operating at maximum efficiency. Depending on the local utility rate structure, a power factor below unity may result in higher utility power bills than are necessary.

Power Factor Correction

Power factor can be improved by either increasing the active power component or reducing the reactive component. Of course, increasing the active power component for the sole purpose of power factor correction would not be economically feasible. Thus, the only practical means for improving a systems power factor is to reduce the reactive power component.

One method of reducing this component is to provide reactive power locally at the load. This method will improve the power factor from the point where the reactive power source is connected back to the source. As an example, consider the load in Figure 2a. The total power required is 100 kVA of which 80 kW is active power and 60 kVAR is reactive power. If the reactive power is furnished locally (Figure 2b), the power system only has to carry 80 kVA (80 kW). Thus, the power factor (from the point where the reactive power is locally supplied back to the source) is improved to unity.

Capacitors for Power Factor Correction

Properly selected, capacitors offer an ideal means for improving the power factor of an inductive load. When a capacitor is connected to an inductive load, it acts as a reactive power generator locally furnishing the necessary reactive current required by the inductive load. In fact, power factor capacitors are rated in kVAR to indicate their reactive power generating capability.

Capacitors are able to perform this function since they draw a leading current which will effectively cancel lagging inductive current, complete cancellation of the two current components occur and the reactive power component will be reduced to zero. This is illustrated in Figure 3.

The result of improved power factor is reduced utility demand resulting in lower utility demand bills, released system capacity and lower system losses.

PFC Selection for Individual Motors

1. Select a capacitor kVAR size from Table 1 to match motor HP and speed. Select a capacitor catalog number to match the kVAR selection and motor voltage. If an exact size is not available, select the next **lower** size. Capacitors selected from Table 1 correct **full load** motor PF to approximately 95%.
2. Consult Square D for application of capacitors on motor frame types other than shown by Table 1.
3. When capacitors are applied on the load side of the motor over loads (as shown in diagram on page 5), reduce the overload or trip relay setting by the percent (%AR) in Table 1.
4. When the motor is controlled by other than full voltage non-reversing across the line starters, locate the capacitor upstream from the controller. **Do not** apply capacitors on the load side of motor starters subject to reversing, inching, jogging or plugging, or that are multi-speed, open transition, solid state, or when the load may drive the motor such as with cranes or elevators. **Never** apply capacitors in the presence of variable frequency drives, welders, soft starters or other non-linear loads. See application note on page 5.

Suggested Capacitor Ratings (kVAR)

TABLE 1 – Indoor Low Voltage T-Frame NEMA Class B Induction Motors

Motor Rating (HP)	Nominal Motor Speed											
	3600 RPM		1800 RPM		1200 RPM		900 RPM		720 RPM		600 RPM	
	Capacitor Rating	% AR	Capacitor Rating	% AR	Capacitor Rating	% AR	Capacitor Rating	% AR	Capacitor Rating	% AR	Capacitor Rating	% AR
3	1.5	14	1.5	23	2.5	28	3	38	3	40	4	40
5	2	14	2.5	22	3	26	4	31	4	40	5	40
7.5	2.5	14	3	20	4	21	5	28	5	38	6	45
10	4	14	4	18	5	21	6	27	7.5	36	8	38
15	5	12	5	18	6	20	7.5	24	8	32	10	34
20	6	12	6	17	7.5	19	9	23	10	29	12	30
25	7.5	12	7.5	17	8	19	10	23	12	25	18	30
30	8	11	8	16	10	19	14	22	15	24	22.5	30
40	2	12	13	15	16	19	18	21	22.5	24	25	30
50	15	12	18	15	20	19	22.5	21	24	24	30	30
60	18	12	21	14	22.5	17	26	20	30	22	35	28
75	20	12	23	14	25	15	28	17	33	14	40	19
100	22.5	11	30	14	30	12	35	16	40	15	45	17
125	25	10	36	12	35	12	42	14	45	15	50	17
150	30	10	42	12	40	12	52.5	14	52.5	14	60	17
200	35	10	50	11	50	10	65	13	68	13	90	17
250	40	11	60	10	62.5	10	82	13	87.5	13	100	17
300	45	11	68	10	75	12	100	14	100	13	120	17
350	50	12	75	8	90	12	120	13	120	13	135	15
400	75	10	80	8	100	12	130	13	140	13	150	15
450	80	8	90	8	120	10	140	12	160	14	160	15
500	100	8	120	9	150	12	160	12	180	13	180	15

Please note: These tables are to be used for T-Frame NEMA class B induction motors only – please contact the Groupe Schneider Power Quality Correction Group for any other applications, or motor types.

208 & 240 Volt 3 Phase/60Hz

kVAR Rating		Indoor Type 1/12			Outdoor Type 3R			Rated Current (Amperes)		Recommended Wire Size ▲	Recommended Minimum Size Protection Rating (Amperes) ▲			
@ 240V	@208V	Unfused	Fused	Enclosure X	Unfused	Fused	Enclosure X	@240V	@208V		Fuse		Breaker Trip	
										(AWG)	@240V	@208V	@240V	@208V
2.5	1.88	PFCD2002	PFCD2002F	1	PFCD2002R	PFCD2002RF	1R	6.0	5.2	14	10	10	15	15
3.5	2.63	PFCD2003	PFCD2003F	1	PFCD2003R	PFCD2003RF	1R	8.4	7.3	14	15	15	15	15
4	3.00	PFCD2004	PFCD2004F	1	PFCD2004R	PFCD2004RF	1R	9.6	8.3	14	20	15	15	15
5	3.75	PFCD2005	PFCD2005F	1	PFCD2005R	PFCD2005RF	1R	12.1	10.4	12	20	20	20	20
6	4.50	PFCD2006	PFCD2006F	1	PFCD2006R	PFCD2006RF	1R	14.5	12.5	12	25	25	25	20
7.5	5.63	PFCD2007	PFCD2007F	1	PFCD2007R	PFCD2007RF	1R	18.1	15.6	10	30	30	30	25
10	7.50	PFCD2010	PFCD2010F	1	PFCD2010R	PFCD2010RF	1R	24.1	20.9	8	40	35	40	35
12.5	9.38	PFCD2012	PFCD2012F	1	PFCD2012R	PFCD2012RF	1R	30.1	26.1	8	50	45	45	40
15	11.25	PFCD2015	PFCD2015F	1	PFCD2015R	PFCD2015RF	1R	36.2	31.3	8	60	60	60	50
17.5	13.13	PFCD2017	PFCD2017F	2	PFCD2017R	PFCD2017RF	2R	42.2	36.5	6	70	60	70	60
20	15.00	PFCD2020	PFCD2020F	2	PFCD2020R	PFCD2020RF	2R	48.2	41.7	6	80	70	80	70
22.5	16.88	PFCD2022	PFCD2022F	2	PFCD2022R	PFCD2022RF	2R	54.2	46.9	4	90	80	90	70
25	18.75	PFCD2025	PFCD2025F	3	PFCD2025R	PFCD2025RF	3R	60.3	52.1	4	100	90	90	80
27.5	20.63	PFCD2027	PFCD2027F	3	PFCD2027R	PFCD2027RF	3R	66.3	57.3	3	125	100	100	90
30	22.50	PFCD2030	PFCD2030F	3	PFCD2030R	PFCD2030RF	3R	72.3	62.6	3	125	125	125	100
35	26.25	PFCD2035	PFCD2035F	4	PFCD2035R	PFCD2035RF	4R	84.4	73.0	2	150	125	150	125
40	30.00	PFCD2040	PFCD2040F	5	PFCD2040R	PFCD2040RF	5R	96.4	83.4	1/0	175	150	150	125
45	33.75	PFCD2045	PFCD2045F	7	PFCD2045R	PFCD2045RF	7R	108.5	93.8	1/0	200	175	175	150
50	37.50	PFCD2050	PFCD2050F	7	PFCD2050R	PFCD2050RF	7R	120.5	104.3	2/0	200	175	200	175
60	45.00	PFCD2060	PFCD2060F	7	PFCD2060R	PFCD2060RF	7R	144.6	125.1	3/0	250	200	225	200
70	52.50	PFCD2070	PFCD2070F	8	PFCD2070R	PFCD2070RF	8R	168.7	146.0	4/0	300	250	300	225
75	56.25	PFCD2075	PFCD2075F	10	PFCD2075R	PFCD2075RF	10R	180.8	156.4	250 MCM	300	300	300	250

- ◆ Wall mounting brackets available for units up to 40 kVAR. Order catalogue number PFCDBR1 (sold in pairs). Wall mounting brackets not available for units above 40 kVAR.
- ▲ Consult local Electrical Codes for proper sizing of moulded case circuit breaker frame, disconnect switch rating, and wire size.
- X For dimensions, see page 5.
- For additional sizes, ratings or options, please consult your nearest Square D/Groupe Schneider sales office.

ReactiVar Selection

480 Volt 3 Phase/60Hz

kVAR Rating	Indoor Type 1/12			Outdoor Type 3R			Rated Current (Amperes)	Recommended Wire Size ▲	Recommended Minimum Size Protection Rating (Amperes) ▲				
	@ 480V	Unfused	Fused	Enclosure X	Unfused	Fused			Enclosure X	@ 480V	(AWG)	Fuse	Breaker Trip
												@ 480V	@ 480V
2.5	PFC4002	PFC4002F	1	PFC4002R	PFC4002RF	1R	3.0	14	5	15			
4	PFC4004	PFC4004F	1	PFC4004R	PFC4004RF	1R	4.8	14	10	15			
5	PFC4005	PFC4005F	1	PFC4005R	PFC4005RF	1R	6.0	14	10	15			
6	PFC4006	PFC4006F	1	PFC4006R	PFC4006RF	1R	7.2	14	15	15			
7.5	PFC4007	PFC4007F	1	PFC4007R	PFC4007RF	1R	9.0	14	15	15			
10	PFC4010	PFC4010F	1	PFC4010R	PFC4010RF	1R	12.0	12	20	20			
12.5	PFC4012	PFC4012F	1	PFC4012R	PFC4012RF	1R	15.0	10	25	25			
15	PFC4015	PFC4015F	1	PFC4015R	PFC4015RF	1R	18.0	10	30	30			
17.5	PFC4017	PFC4017F	1	PFC4017R	PFC4017RF	1R	21.0	10	35	35			
20	PFC4020	PFC4020F	1	PFC4020R	PFC4020RF	1R	24.0	8	40	40			
22.5	PFC4022	PFC4022F	1	PFC4022R	PFC4022RF	1R	27.0	8	45	45			
25	PFC4025	PFC4025F	2	PFC4025R	PFC4025RF	2R	30.0	8	50	45			
27.5	PFC4027	PFC4027F	2	PFC4027R	PFC4027RF	2R	33.0	8	60	50			
30	PFC4030	PFC4030F	2	PFC4030R	PFC4030RF	2R	36.0	8	60	55			
35	PFC4035	PFC4035F	3	PFC4035R	PFC4035RF	3R	42.0	6	70	65			
40	PFC4040	PFC4040F	3	PFC4040R	PFC4040RF	3R	48.0	6	80	75			
45	PFC4045	PFC4045F	4	PFC4045R	PFC4045RF	4R	54.0	4	90	85			
50	PFC4050	PFC4050F	4	PFC4050R	PFC4050RF	4R	60.0	4	100	90			
60	PFC4060	PFC4060F	5	PFC4060R	PFC4060RF	5R	72.0	3	125	125			
70	PFC4070	PFC4070F	5	PFC4070R	PFC4070RF	5R	84.0	2	150	150			
75	PFC4075	PFC4075F	5	PFC4075R	PFC4075RF	5R	90.0	1	150	150			
80	PFC4080	PFC4080F	6	PFC4080R	PFC4080RF	6R	96.0	1/0	175	150			
90	PFC4090	PFC4090F	6	PFC4090R	PFC4090RF	6R	108.0	1/0	200	175			
100	PFC4100	PFC4100F	6	PFC4100R	PFC4100RF	6R	120.0	2/0	200	200			
125	PFC4125	PFC4125F	9	PFC4125R	PFC4125RF	9R	150.0	4/0	250	225			
150	PFC4150	PFC4150F	9	PFC4150R	PFC4150RF	9R	180.0	250MCM	300	300			
175	PFC4175	PFC4175F	11	PFC4175R	PFC4175RF	11R	210.0	300MCM	350	350			
200	PFC4200	PFC4200F	11	PFC4200R	PFC4200RF	11R	240.0	(2) 2/0	400	400			
225	PFC4225	PFC4225F	12	PFC4225R	PFC4225RF	12R	270.0	(3) 3/0	500	450			
250	PFC4250	PFC4250F	13	PFC4250R	PFC4250RF	13R	300.0	(2) 4/0	500	450			
275	PFC4275	PFC4275F	13	PFC4275R	PFC4275RF	13R	330.0	(2) 4/0	550	500			
300	PFC4300	PFC4300F	13	PFC4300R	PFC4300RF	13R	360.0	(2) 250MCM	600	550			

600 Volt 3 Phase/60Hz

kVAR Rating	Indoor Type 1/12			Outdoor Type 3R			Rated Current (Amperes)	Recommended Wire Size ▲	Recommended Minimum Size Protection Rating (Amperes) ▲				
	@ 600V	Unfused	Fused	Enclosure X	Unfused	Fused			Enclosure X	@ 600V	(AWG)	Fuse	Breaker Trip
												@ 600V	@ 600V
3	PFC6003	PFC6003F	1	PFC6003R	PFC6003RF	1R	2.9	14	5	15			
4	PFC6004	PFC6004F	1	PFC6004R	PFC6004RF	1R	3.8	14	10	15			
5	PFC6005	PFC6005F	1	PFC6005R	PFC6005RF	1R	4.8	14	10	15			
6	PFC6006	PFC6006F	1	PFC6006R	PFC6006RF	1R	5.8	14	10	15			
7.5	PFC6007	PFC6007F	1	PFC6007R	PFC6007RF	1R	7.2	14	15	15			
10	PFC6010	PFC6010F	1	PFC6010R	PFC6010RF	1R	9.6	14	20	15			
12.5	PFC6012	PFC6012F	1	PFC6012R	PFC6012RF	1R	12.0	12	20	20			
15	PFC6015	PFC6015F	1	PFC6015R	PFC6015RF	1R	14.4	12	25	25			
17.5	PFC6017	PFC6017F	1	PFC6017R	PFC6017RF	1R	16.8	10	30	25			
20	PFC6020	PFC6020F	1	PFC6020R	PFC6020RF	1R	19.2	10	35	30			
22.5	PFC6022	PFC6022F	1	PFC6022R	PFC6022RF	1R	21.6	10	40	35			
25	PFC6025	PFC6025F	2	PFC6025R	PFC6025RF	2R	24.1	8	40	40			
27.5	PFC6027	PFC6027F	2	PFC6027R	PFC6027RF	2R	26.5	8	45	40			
30	PFC6030	PFC6030F	2	PFC6030R	PFC6030RF	2R	28.9	8	50	50			
35	PFC6035	PFC6035F	3	PFC6035R	PFC6035RF	3R	33.7	8	60	60			
40	PFC6040	PFC6040F	3	PFC6040R	PFC6040RF	3R	38.5	6	70	60			
45	PFC6045	PFC6045F	4	PFC6045R	PFC6045RF	4R	43.3	6	80	70			
50	PFC6050	PFC6050F	4	PFC6050R	PFC6050RF	4R	48.1	6	80	80			
60	PFC6060	PFC6060F	5	PFC6060R	PFC6060RF	5R	57.7	4	100	90			
70	PFC6070	PFC6070F	5	PFC6070R	PFC6070RF	5R	67.3	3	125	110			
75	PFC6075	PFC6075F	5	PFC6075R	PFC6075RF	5R	72.2	3	125	110			
80	PFC6080	PFC6080F	6	PFC6080R	PFC6080RF	6R	77.0	2	150	125			
90	PFC6090	PFC6090F	6	PFC6090R	PFC6090RF	6R	86.6	1	150	150			
100	PFC6100	PFC6100F	6	PFC6100R	PFC6100RF	6R	96.2	1/0	175	150			
125	PFC6125	PFC6125F	9	PFC6125R	PFC6125RF	9R	120.3	2/0	200	200			
150	PFC6150	PFC6150F	9	PFC6150R	PFC6150RF	9R	144.3	3/0	250	225			
175	PFC6175	PFC6175F	11	PFC6175R	PFC6175RF	11R	168.4	4/0	300	275			
200	PFC6200	PFC6200F	11	PFC6200R	PFC6200RF	11R	192.4	300MCM	350	300			
225	PFC6225	PFC6225F	12	PFC6225R	PFC6225RF	12R	216.5	350MCM	400	350			
250	PFC6250	PFC6250F	13	PFC6250R	PFC6250RF	13R	240.5	400MCM	400	400			
275	PFC6275	PFC6275F	13	PFC6275R	PFC6275RF	13R	264.6	500MCM	450	400			
300	PFC6300	PFC6300F	13	PFC6300R	PFC6300RF	13R	288.6	(2) 3/0	500	450			

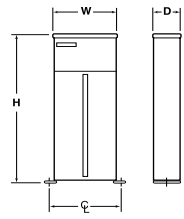
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 ▲ Consult local Electrical Codes for proper sizing of moulded case circuit breaker frame, disconnect switch rating, and wire size.
 X For dimensions, see next page.
 ■ For additional sizes, ratings or options, please consult your nearest Square D/Groupe Schneider sales office.

Dimensions & Application Information

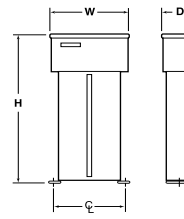
Type 1 Enclosure Dimensions ■

Encl.	Height (H)		Width (W)		Depth (D)		Mounting ϕ	
	IN	(mm)	IN	(mm)	IN	(mm)	IN	(mm)
1	16.12	409.45	11.75	298.45	4.81	122.17	13.25	336.55
2	18.87	479.30	11.75	298.45	4.81	122.17	13.25	336.55
3	20.06	509.52	11.75	298.45	4.81	122.17	13.25	336.55
4	22.81	579.37	11.75	298.45	4.81	122.17	13.25	336.55
5	26.75	679.45	11.75	298.45	4.81	122.17	13.25	336.55
6	34.00	863.60	19.08	484.63	6.20	157.48	13.25	336.55
7	22.75	577.85	14.85	377.19	14.78	375.41	7.75	196.85
8	25.50	647.70	14.85	377.19	14.78	375.41	7.75	196.85
9	28.88	733.55	14.85	377.19	14.78	375.41	7.75	196.85
10	29.50	749.30	14.85	377.19	14.78	375.41	7.75	196.85
11	34.00	863.60	14.85	377.19	14.78	375.41	7.75	196.85
12	28.88	733.55	21.78	553.21	14.78	375.41	14.68	372.87
13	34.00	863.60	21.78	553.21	14.78	375.41	14.68	372.87

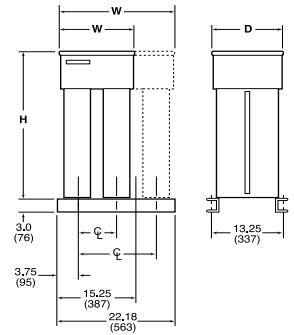
Fixed Capacitors Enclosures 1 to 5



Fixed Capacitors Enclosure 6



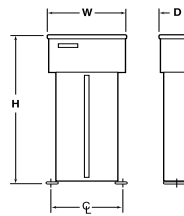
Fixed Capacitors Banks Enclosures 7 to 13



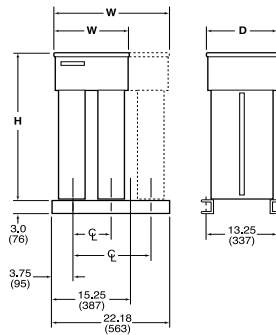
Type 3R Enclosure Dimensions ■

Encl.	Height (H)		Width (W)		Depth (D)		Mounting ϕ	
	IN	(mm)	IN	(mm)	IN	(mm)	IN	(mm)
1R	16.12	409.45	19.08	484.63	6.20	157.48	13.25	336.55
2R	18.87	479.30	19.08	484.63	6.20	157.48	13.25	336.55
3R	20.06	509.52	19.08	484.63	6.20	157.48	13.25	336.55
4R	22.81	579.37	19.08	484.63	6.20	157.48	13.25	336.55
5R	26.75	679.45	19.08	484.63	6.20	157.48	13.25	336.55
6R	34.00	863.60	19.08	484.63	6.20	157.48	13.25	336.55
7R	22.75	577.85	14.85	377.19	14.78	375.41	7.75	196.85
8R	25.50	647.70	14.85	377.19	14.78	375.41	7.75	196.85
9R	28.88	733.55	14.85	377.19	14.78	375.41	7.75	196.85
10R	29.50	749.30	14.85	377.19	14.78	375.41	7.75	196.85
11R	34.00	863.60	14.85	377.19	14.78	375.41	7.75	196.85
12R	28.88	733.55	21.78	553.21	14.78	375.41	14.68	372.87
13R	34.00	863.60	21.78	553.21	14.78	375.41	14.68	372.87

Fixed Capacitors Enclosures 1R to 6R



Fixed Capacitors Banks Enclosures 7R to 13R

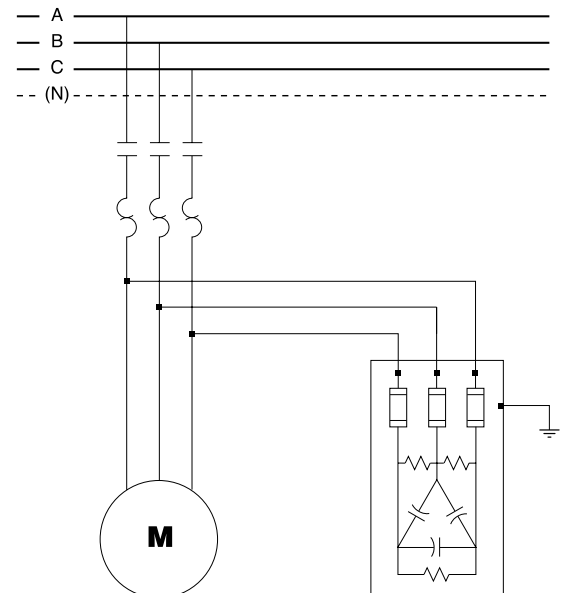


■ Dimensions are approximate only. Do not use for construction. For actual dimensions, contact your local Square D/Groupe Schneider sales office.

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, PLC's, 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 damage electrical equipment. Should your electrical system contain any non-linear loads, please contact Square D/Groupe Schneider for application assistance. For applications which require power factor correction in harmonic-rich environments, substitute the AV6000 Anti-resonant automatic capacitor bank. Consult Square D/Groupe Schneider for more information.

Typical Wiring Diagram (FVNR Starter):



Technical 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:		0% / +15%
Discharge mechanism:		Polycarbonate resistor, 1 per phase
Discharge time:		< 50 V in 1 minute
Losses:		< 0.5W/ kVAR, including discharge resistors
Expected life:		95% rated kVAR: 150,000 hrs (nominal voltage & current, 0% THD)
Rated voltage (U_n):		208 V...600 V.
Rated frequency:		60 Hz
Insulation level:		3 kV rms/ 15 kV crest
Interrupting rating	Unfused:	10 kA I.C. Symmetrical
	Fused:	200 kA I.C. Symmetrical
Continuous overvoltage:		$1.1 \times U_n$
Continuous overcurrent:		$1.35 \times I_n$
Maximum recommended harmonic current (I_h):		$1.05 \times I_n$
Maximum recommended harmonic voltage (V_h):		$1.03 \times V_n$
Temperature range:		-40°C to +50°C (-40°F to +122°F)
Highest mean over:	24 hours:	+40°C (+104°F)
	1 year:	+30°C (+86°F)
	Other Conditions:	Consult Square D/Groupe Schneider
Altitude:		1800 meters (6000 feet) without de-rating
Approvals:		UL Listed under file #LR-23506-57 CSA Certified under file #E173372
Standards:		Built to IEC 831-1-2 (1988); Complies with: IEC, NEC, NEMA CP-1, ANSI and IEEE std. 18.
Paint finish:	Indoor:	Medium blue textured polyester powder ASA 49 & 61 available upon request. Consult Square D/Groupe Schneider.
	Outdoor:	Light grey ASA 61.
Enclosure:		16 Gauge steel

Other Products and Services:

- AV4000 and AV5000 standard automatic capacitor banks for power factor correction in electrical networks which have less than 15% non-linear loads.
- AV6000 Anti-resonant bank for power factor correction in harmonic-rich environments
- AV7000 Harmonic filters for removal of harmonics
- Active (electronic) filters
- AV9000 Real Time Reactive Compensation banks and filters for highly transient loads.
- Medium voltage fixed and automatic switched banks up to 37 kV
- Medium voltage Real Time Compensation Banks up to 15 kV
- Engineering services such as:
 - Size and rating assistance
 - Harmonic analysis
 - Computer simulations
 - Commissioning
 - Service contracts

Consult your nearest Square D/Groupe Schneider sales office for pricing.

Specifications subject to change without notice.

VISIT OUR WEBSITE AT WWW.REACTIVAR.COM

Schneider Electric

Schneider Canada
6675 Rexwood Road
Mississauga ON L4V 1V1
Tel: (905) 678-7000
Fax: (905) 678-9873

Schneider Electric

19 Waterman Avenue
Toronto, Ontario M4B 1Y2
www.schneider.ca
www.squared.com
Tel.: (416) 752-8020
Fax: (416) 752-6230