

Power Factor Correction Capacitors



These capacitors will correct standard three-phase motors (NEC Table 430.250) operating at 85% power factor to approximately 95% - 97%.

To properly size a PFCC panel for any motor operation at any load condition, first measure the operating voltage, amperage, and power factor. Then, use these values to calculate the required KVAR, which determines size of the panel needed. Panels are sized in accordance with industry standards, listed in horsepower below for ease of selection.

Contact Ronk for additional sizes and voltage ratings. **For 208 V operation, a larger panel is required.**

All units must be installed by qualified personnel in accordance with all applicable electrical codes.

Correction Capacitors are intended for use with across-the-line starters. Consult the motor's manufacturer if other starter types are involved.

Careful consideration must be used when adding Correction Capacitors to electrical systems containing variable speed drives, DC drives, or other electronic equipment.

Motor HP	Panel kvar	PF Percentage Corrected		240 Volts				480 Volts			
		From	To	Model	Enclosure	Amps*	Weight (lbs.)	Model	Enclosure	Amps*	Weight (lbs.)
1	0.5	85	96.2	277CC-0.5	600	1.3	5	NOT AVAILABLE			
1.5/2	1	85	98.9/98.0	277CC-1	600	2.5	5	477CC-1	600	1.3	8
3	1.5	85	98.5	277CC-1.5	600	3.7	5	NOT AVAILABLE			
5/7.5	2	85	97.1/94.0	277CC-2	600	4.9	5	477CC-2	600	2.5	8
10	4	85	97.8	277CC-4	601	10	8	477CC-4	600	4.9	10
15	5	85	96.2	277CC-5	601	13	11	477CC-5	600	6.3	10
	6	CONSULT FACTORY		277CC-6	601	16	14	477CC-6	601	7.3	11
20	7	85	96.9	277CC-7	602	19	17	477CC-7	601	8.7	12
25	9	85	97.1	277CC-9	602	22	19	477CC-9	601	11	12
30	11	85	97.4	277CC-11	602	29	22	477CC-11	602	14	14
40	14	85	97.3	277CC-14	603	35	35	477CC-14	602	18	16
50	16	85	96.5	277CC-16	603	40	37	477CC-16	602	20	16
60	21	85	97.4	277CC-21	603	51	39	477CC-21	602	26	16
75	26	85	97.3	277CC-26	604	64	64	477CC-26	602	32	20
100	30	85	96.4					477CC-30	602	38	20
125	38	85	96.4					477CC-38	603	47	30
150	45	85	96.6					477CC-45	603	57	58
200	53	85	95.6					477CC-53	604	64	78
	60	CONSULT FACTORY						477CC-60	604	76	85
250	68	85	95.8					477CC-68	604	82	100
300	75	85	95.1					477CC-75	604	94	115

* Amps given for rated voltage. If fusing unit in accord with local electrical code, use amp rating +10% to allow for higher voltage conditions.

Fuse block with indicator light (FBIL) units are shipped in larger enclosures to accommodate the additional equipment. Exact dimensions are available when the product is quoted from the factory.



Sales Information: 1-800-221-7665 • Service and Support: 1-217-563-8333

PO Box 160, 106 E State Street, Nokomis, IL 62075-0160 • sales@ronkelectrical.com • www.ronkelectrical.com

Power Factor Correction Capacitors

Fusing Charts for Power Factor Correction Capacitor Units

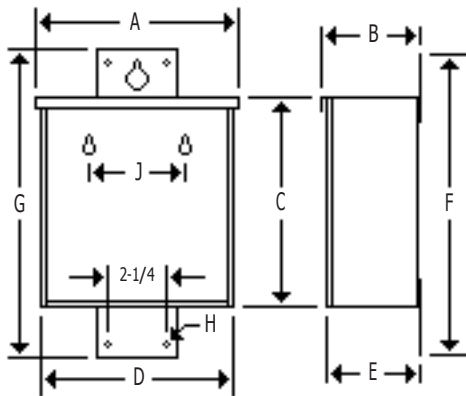
All units supplied *without* fuses. Blown-fuse indicating lights supplied on units ordered with optional fuse block.
(Add suffix “-FBIL” after 477CC/277CC when ordering. Example: 477CC-FBIL.)

480 Volt	
1 KVAR to 14 KVAR	(FLA 1.2 - 17 amps) Uses 3-pole, 30 AMP, Class CC fuseholder Use Class CC fuse.
16 KVAR to 26 KVAR	(FLA 19 - 31 amps) Uses 3-pole, 60 AMP, Class J fuseholder Use Class J fuse.
30 KVAR to 45 KVAR	(FLA 38 - 56 amps) Uses 3-pole, 100 AMP, Class J fuseholder Use Class J fuse.
53 KVAR and above	Contact Customer Service 1-800-221-7665

240 Volt	
1/2 KVAR to 7 KVAR	(FLA 1.2 - 18 amps) Uses 3-pole, 30 AMP, Class CC fuseholder Use Class CC fuse.
9 KVAR to 14 KVAR	(FLA 22 - 34 amps) Uses 3-pole, 60 AMP, Class J fuseholder Use Class J fuse.
16 KVAR to 21 KVAR	(FLA 39 - 47 amps) Uses 3-pole, 100 AMP, Class J fuseholder Use Class J fuse.
26 KVAR and above	Contact Customer Service 1-800-221-7665

For fuse sizing, refer to fuse manufacturers recommendations (for time-delay fuses, typically 150% - 175% of panel amps).
See section 460 of National Electric Code for rules governing capacitor installation.

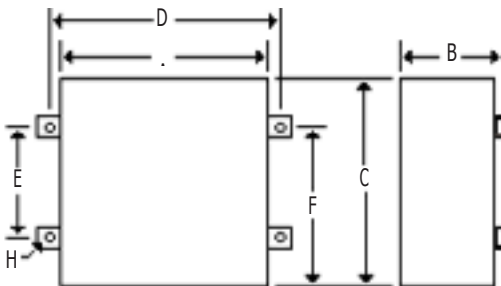
Figure 1
Dimensions of NEMA
3R Enclosures
(in inches)



Enclosure	A	B	C	D	E	F	G	H	J
600*	9-1/8	5-1/4	10-1/8	8-1/4	5-1/8			3/16	6
601	12	6-1/2	12-7/8	11-3/8	6-1/4	17-1/4	16-1/8	9/32	
602	14-1/4	8-1/2	12-7/8	13-7/8	8-1/4	17-1/4	16-1/8	9/32	

* Mounting tabs not available on 600 enclosures.

Figure 2
Dimensions of NEMA
3R Enclosures
(in inches)



Enclosure	A	B	C	D	E	H
603	17	11	16-1/8	18	10	1/2
604	25-1/2	11	17-5/8	28	14-1/2	1/2
605	25-1/2	12	20-1/8	28	17	1/2

** FBIL units are not UL listed **

All 240 V FBIL capacitors are *not* UL listed.

In addition, all 480 V FBIL capacitors listed in this tech spec are *not* UL listed. Visit our website for additional model numbers ending in “-UL” to find the available KVAR values for UL-listed 480 V FBIL capacitors.

KVAR	240 Volt		480 Volt	
	Amps	Panel Lead Wire	Amps	Panel Lead Wire
0.5	1.3	#12		
1	2.5	#12	1.3	#12
1.5	3.7	#12		
2	4.9	#12	2.5	#12
4	10	#12	4.9	#12
5	13	#12	6.3	#12
6	16	#10	7.3	#12
7	19	#10	8.7	#12
9	22	#10	11	#12
11	29	#8	14	#12
14	35	#6	18	#10
16	40	#6	20	#10
21	51	#4	26	#8
26	64	#2	32	#8
30			38	#6
38			47	#4
45			57	#2
53			64	#2
60			76	#2
68			82	2-#2
75			94	2-#2



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