RONK POWER FACTOR CORRECTION CAPACITORS

INSTALLATION INSTRUCTIONS

The installation of the RONK POWER FACTOR CORRECTION CAPACITORS should be performed by a qualified electrician and conform to all applicable codes including Article 460 of the NEC®. The panels can be wired into your system in several ways; three connections are illustrated below. Normally the panels are mounted as close to the electrical connection point as possible, as long as the environmental and operating conditions are suitable.

Panels are supplied with 3 foot leads of adequate size to carry the capacitor current. Some installations may require larger leads to conform to special installation requirements of 460.8(A). Please check your local code for additional requirements. Under normal conditions, the capacitors will give many thousands of hours of truly maintenance free operation. However, if they are installed on a system which is subject to large voltage fluctuation, transients, or is marginally protected from lightning surges, the capacitor insulation may become damaged and capacitor failure may occur.

Table #1 below gives the nominal amp rating for each panel. Use these values for proper sizing of conductors, overcurrent protection, and disconnecting means in accordance with Article 460. When checking initial installation, actual values should be within 15% of these values. Overvoltage should not exceed nameplate by 10% or damage may occur to the capacitor insulation.

Diagram #1 shows the preferred capacitor connection which is after the motor starter (load side of overloads). As a result, the overload current is reduced by approximately 8-10%; overload size should be reduced accordingly (460.9).

Diagram #2 shows the capacitors connected before the overloads on the starter (between contacts and overloads). No change in overload size is necessary. Overcurrent protection for the capacitors is required and sized per 460.8(B).

Some starters may require the capacitors to connect to the line side of the starter as shown in Diagram #3. Consult the manufacturer of the starter for further instructions. **IMPROPER CONNECTION MAY RESULT IN DAMAGE TO EQUIPMENT.** A disconnecting means and overcurrent protection are required and sized per 460.8(B) & (C). We strongly recommend the use of a contactor for the disconnecting means so that the capacitors can be energized and de-energized with the motor to ensure proper power factor correction at all times.

CAUTION: DISCHARGE ALL CAPACITORS BEFORE SERVICING! While all units are supplied with discharge resistors in accordance with Article 460.6 of the NEC, all capacitors should be manually discharged before working on them or any lead which is electrically common with them.

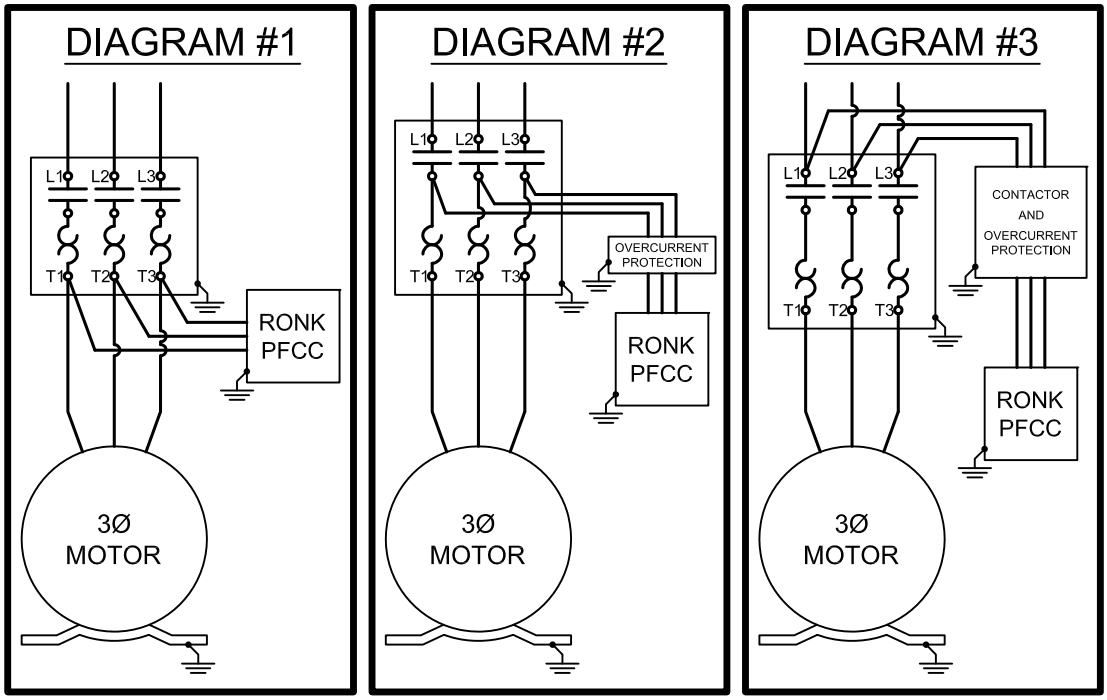

TABLE #1		
KVAR	240 VOLT AMPS	480 VOLT AMPS
0.5	1.3	
1	2.5	1.3
1.5	3.7	
2	4.9	2.5
4	10	4.9
5	13	6.3
6	16	7.3
7	19	8.7
9	22	11
11	29	14
14	35	18
16	40	20
21	51	26
26	64	32
30		38
38		47
45		57
53		64
60		76
68		82
75		94

DRAWING: 2-2893E **DRAWN: NCL**
APPROVED: NCL **DATE: 03/22/2013**