

# ROTOVERTER®

## TYPE C ROTARY PHASE CONVERTER

For the majority of applications, ROTOVERTER® is sized to the largest 3Ø motor (based on FLA rating) or TOTAL motor HP to be operated at one time. For some applications, however, it is recommended that ROTOVERTER be oversized. For non-motor applications, it is necessary to know FLA rating of equipment and, for electronic power supplies, any  $\pm$  voltage requirements.

When ordering, specify kVA Rating and Type:

### Type 2C or 2C-AS

240 Volt Input

240 Volt Output

### Type 4C or 4C-AS

480 Volt Input

480 Volt Output



| SECTION 1 - TYPE 2C & 4C (Consists of a Rotary Transformer & Two Capacitor Panels) |           |           |                     |                    |                   |        |       |
|------------------------------------------------------------------------------------|-----------|-----------|---------------------|--------------------|-------------------|--------|-------|
| CONVERTER SIZE*                                                                    | 240V TYPE | 480V TYPE | LARGEST 3Ø MOTOR HP | TOTAL 3Ø MOTORS HP | APPROX. WT. (LBS) | 1Ø FLA |       |
|                                                                                    |           |           |                     |                    |                   | @240V  | @480V |
| 4 kVA                                                                              | 2C        | 4C        | 2                   | 4                  | 75                | 18     | 9     |
| 6 kVA                                                                              | 2C        | 4C        | 3                   | 6                  | 80                | 26     | 13    |
| 10 kVA                                                                             | 2C        | 4C        | 5                   | 10                 | 115               | 44     | 22    |
| 15 kVA                                                                             | 2C        | 4C        | 7.5                 | 15                 | 135               | 66     | 33    |
| 20 kVA                                                                             | 2C        | 4C        | 10                  | 20                 | 210               | 88     | 44    |
| 30 kVA                                                                             | 2C        | 4C        | 15                  | 30                 | 275               | 132    | 66    |
| 40 kVA                                                                             | 2C        | 4C        | 20                  | 40                 | 370               | 176    | 88    |
| 50 kVA                                                                             | 2C        | 4C        | 25                  | 50                 | 390               | 220    | 110   |
| 60 kVA                                                                             | 2C        | 4C        | 30                  | 60                 | 395               | 264    | 132   |
| 80 kVA                                                                             | 2C        | 4C        | 40                  | 80                 | 490               | 352    | 176   |
| 100 kVA                                                                            | 2C        | 4C        | 50                  | 100                | 530               | 440    | 220   |
| 120 kVA                                                                            |           | 4C**      | 60                  | 120                | 625               |        | 264   |

Automatic start units are supplied with a contactor and associated controls that allow the unit to be integrated with equipment that may cycle automatically from control circuitry containing timers, level or pressure sensors, etc. This allows the rotary transformer to come to speed before the load is energized, as required by Article 455-21 of the NEC®.

| SECTION 2 - TYPE 2C-AS & 4C-AS (Consists of a Rotary Transformer & Two Capacitor Panels) |           |           |                     |                    |                   |        |       |
|------------------------------------------------------------------------------------------|-----------|-----------|---------------------|--------------------|-------------------|--------|-------|
| CONVERTER SIZE*                                                                          | 240V TYPE | 480V TYPE | LARGEST 3Ø MOTOR HP | TOTAL 3Ø MOTORS HP | APPROX. WT. (LBS) | 1Ø FLA |       |
|                                                                                          |           |           |                     |                    |                   | @240V  | @480V |
| 4 kVA                                                                                    | 2C-AS     | 4C-AS     | 2                   | 4                  | 77                | 18     | 9     |
| 6 kVA                                                                                    | 2C-AS     | 4C-AS     | 3                   | 6                  | 82                | 26     | 13    |
| 10 kVA                                                                                   | 2C-AS     | 4C-AS     | 5                   | 10                 | 117               | 44     | 22    |
| 15 kVA                                                                                   | 2C-AS     | 4C-AS     | 7.5                 | 15                 | 138               | 66     | 33    |
| 20 kVA                                                                                   | 2C-AS     | 4C-AS     | 10                  | 20                 | 213               | 88     | 44    |
| 30 kVA                                                                                   | 2C-AS     | 4C-AS     | 15                  | 30                 | 278               | 132    | 66    |
| 40 kVA                                                                                   | 2C-AS     | 4C-AS     | 20                  | 40                 | 375               | 176    | 88    |
| 50 kVA                                                                                   | 2C-AS     | 4C-AS     | 25                  | 50                 | 395               | 220    | 110   |
| 60 kVA                                                                                   | 2C-AS     | 4C-AS     | 30                  | 60                 | 400               | 264    | 132   |
| 80 kVA                                                                                   | 2C-AS     | 4C-AS     | 40                  | 80                 | 495               | 352    | 176   |
| 100 kVA                                                                                  | 2C-AS     | 4C-AS     | 50                  | 100                | 536               | 440    | 220   |
| 120 kVA                                                                                  |           | 4C-AS**   | 60                  | 120                | 632               |        | 264   |

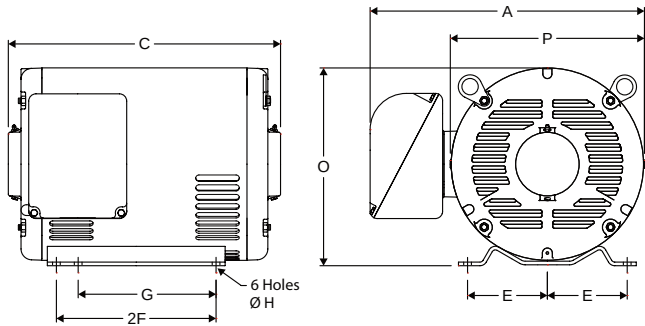
It may be necessary to furnish auxiliary starting panels for better starting acceleration with high torque or inertia loads. All listed units come with 3-pole power distribution blocks to simplify wiring connections. There are optional configurations available to meet your special needs. Call Ronk toll free at 1-800-221-7665 for information about these optional configurations.

\* ROTOVERTER is designed to operate this load continuously. Additional motors can be connected; however, total horsepower of the load operating at any given time should not exceed this rating.  
 \*\* Not Listed

**RONK**

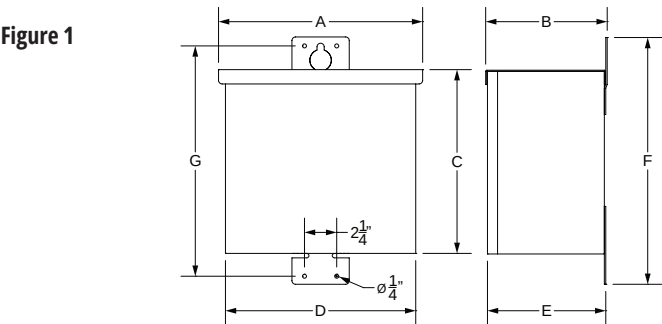
ROTOVERTER® TYPE C ROTARY PHASE CONVERTER

DIMENSIONS OF ROTARY BASE AND PANEL CONTROL, OPEN DRIP-PROOF ROTARY (IN INCHES)



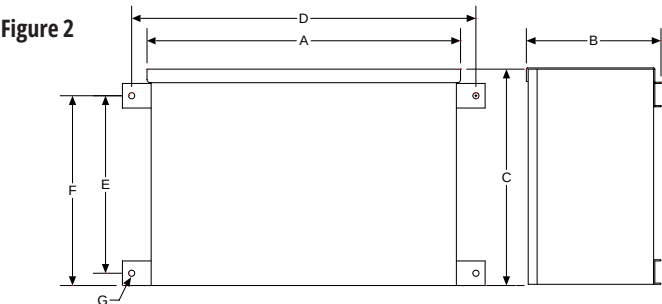
| ROTARY BASE DIMENSIONS |       |        |        |       |        |        |       |        |        | PANEL CONTROL ENCLOSURE |          |          |          |          |          |          |          |
|------------------------|-------|--------|--------|-------|--------|--------|-------|--------|--------|-------------------------|----------|----------|----------|----------|----------|----------|----------|
| kVA                    | Frame | A      | C      | E     | 2F     | G      | H     | O      | P      | 2C                      |          | 4C       |          | 2C-AS    |          | 4C-AS    |          |
|                        |       |        |        |       |        |        |       |        |        | #1 Panel                | #2 Panel | #1 Panel | #2 Panel | #1 Panel | #2 Panel | #1 Panel | #2 Panel |
| 4                      | 184   | 9-7/8  | 11-1/2 | 3-3/4 | 5-1/2  | 4-1/2  | 13/32 | 8-1/2  | 7-7/8  | 600                     | 600      | 600      | 600      | 602      | 600      | 602      | 600      |
| 6                      |       |        |        |       |        |        |       |        |        | 600                     | 600      | 600      | 600      | 602      | 600      | 602      | 600      |
| 10                     | 213   | 12-3/4 | 12-1/2 | 4-1/4 | 7      | 5-1/2  | 13/32 | 10-1/8 | 9-5/8  | 601                     | 600      | 600      | 600      | 602      | 600      | 602      | 600      |
| 15                     | 215   | 12-3/4 | 12-1/2 | 4-1/4 | 7      | 5-1/2  | 13/32 | 10-1/4 | 9-5/8  | 602                     | 601      | 600      | 600      | 603      | 601      | 602      | 600      |
| 20                     | 254   | 15-3/8 | 15-3/8 | 5     | 8-1/4  |        | 17/32 | 12     | 11-3/4 | 602                     | 601      | 601      | 601      | 603      | 601      | 603      | 601      |
| 30                     | 256   | 15-3/8 | 15-3/8 | 5     | 10     | 8-1/4  | 17/32 | 12     | 11-3/4 | 603                     | 602      | 601      | 601      | 604      | 602      | 603      | 601      |
| 40                     | 286   | 18-7/8 | 18-3/4 | 5-1/2 | 11     | 9-1/2  | 17/32 | 13-5/8 | 13-1/4 | 603                     | 602      | 602      | 601      | 604      | 602      | 603      | 601      |
| 50                     |       |        |        |       |        |        |       |        |        | 604                     | 603      | 603      | 602      | 604      | 603      | 603      | 602      |
| 60                     |       |        |        |       |        |        |       |        |        | 604                     | 603      | 603      | 602      | 604      | 603      | 603      | 602      |
| 80                     | 326   | 20-7/8 | 21-1/8 | 6-1/4 | 12     | 10-1/2 | 21/32 | 15-5/8 | 15-1/4 | 605                     | 603      | 603      | 602      | 605      | 603      | 604      | 602      |
| 100                    |       |        |        |       |        |        |       |        |        | 605                     | 604      | 604      | 602      | 130      | 604      | 604      | 602      |
| 120                    | 364   | 23-1/2 | 21-1/8 | 7     | 12-1/4 | 11-1/4 | 21/32 | 16-5/8 | 15-1/4 |                         |          | 604      | 603      |          |          | 605      | 603      |

DIMENSIONS OF NEMA 3R ENCLOSURES (IN INCHES)



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

\*Mounting tabs not available on 600 enclosure



| Enclosure | A      | B        | C      | D      | E      | F      | G    |
|-----------|--------|----------|--------|--------|--------|--------|------|
| 603       | 17     | 11       | 16-1/8 | 18     | 10     | 13     | 1/2  |
| 604       | 25-1/2 | 10-15/16 | 17-5/8 | 28     | 14-7/8 | 15-7/8 | 1/2  |
| 605       | 25-1/2 | 11-15/16 | 20-1/8 | 28     | 17     | 18     | 1/2  |
| 130       | 28-3/4 | 16-1/2   | 26-3/4 | 32-1/4 | 17-5/8 | 22-1/8 | 9/16 |



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