

## CNC PACKAGE PHASE CONVERTER

220V models & 460V models available.

Designed especially for 3-phase **CNC/PLC** machines operating from single-phase power source.

### PROVIDES THE BALANCED VOLTAGES NECESSARY FOR RELIABLE OPERATION

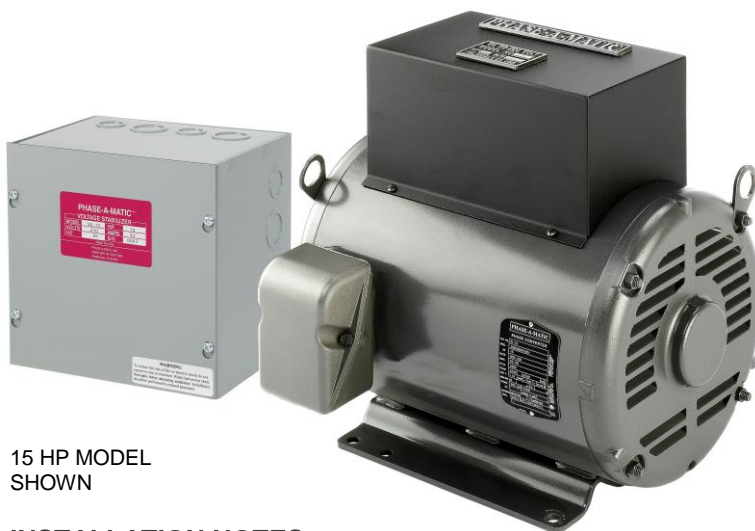
A **Rotary Phase Converter, Voltage Stabilizer** combination, when properly sized, provides the necessary voltage balance of close to  $\pm 5\%$  or less between legs compared to standard 3-phase line voltage of  $\pm 10\%$ . It also helps to keep the output voltage stable during peak loads, thus helping most CNC / PLC and other voltage sensitive equipment to operate properly.

PHASE-A-MATIC, INC. has been manufacturing phase converters since 1965, and for CNC / PLC machines from the time they were first introduced into service in the USA.

### CONSULT FACTORY FOR SIZING AND OTHER VOLTAGES

- Most CNC / PLC machines require a CNC PAC™ 1½ to 2 times larger than the spindle motor in order to accommodate the extra amps for starting, instant reversing, and for the servos, hydraulics, etc.
- Later model CNC / PLC machines are more technologically sophisticated, with up to 10,000 RPM and higher spindle speeds, regenerative braking, etc. These may require the CNC PAC™ sized even larger. We have a large data bank from past applications experience to help you with these decisions.

**Note:** 220V CNC PAC™ is 220V single-phase in and 220V three-phase out. 460V CNC PAC™ is 460V single-phase in and 460V three-phase out.



15 HP MODEL  
SHOWN

### INSTALLATION NOTES:

- Intended for indoor use only in dry locations, but can be placed in rain-tight enclosure with ventilation for use in wet or damp applications.
- Voltage Stabilizer supplied in NEMA type 1 enclosure with various size knockouts.

CNC PAC™ is one *Rotary Converter* and one *Voltage Stabilizer* of equal HP rating.

| 220V MODELS | 460V MODELS  | HP  |
|-------------|--------------|-----|
| CNC PAC-1   | -----        | 1   |
| CNC PAC-2   | -----        | 2   |
| CNC PAC-3   | -----        | 3   |
| CNC PAC-5   | -----        | 5   |
| CNC PAC-7   | -----        | 7.5 |
| CNC PAC-10  | -----        | 10  |
| CNC PAC-15  | -----        | 15  |
| CNC PAC-20  | CNC PAC-H20  | 20  |
| CNC PAC-25  | -----        | 25  |
| CNC PAC-30  | CNC PAC-H30  | 30  |
| CNC PAC-40  | CNC PAC-H40  | 40  |
| CNC PAC-50  | CNC PAC-H50  | 50  |
| CNC PAC-75  | CNC PAC-H75  | 75  |
| CNC PAC-100 | CNC PAC-H100 | 100 |

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## CNC PAC™ PHASE CONVERTER

| ROTARY CONVERTER |            |     |           |                                  | VOLTAGE STABILIZER |            |     |           |                                  |
|------------------|------------|-----|-----------|----------------------------------|--------------------|------------|-----|-----------|----------------------------------|
| 220V MODEL       | 460V MODEL | HP  | WT.* LBS. | W x H x D (Dimensions in Inches) | 220V MODEL         | 460V MODEL | HP  | WT.* LBS. | W x H x D (Dimensions in Inches) |
| R-1              | -----      | 1   | 22        | 8 ½ x 9 ¼ x 8 ⅝                  | VS-1               | -----      | 1   | 9         | 6 x 8 x 4                        |
| R-2              | -----      | 2   | 40        | 9 ½ x 9 ¼ x 8 ⅝                  | VS-2               | -----      | 2   | 10        | 6 x 8 x 4                        |
| R-3              | -----      | 3   | 63        | 10 11/16 x 11 x 9 ⅝              | VS-3               | -----      | 3   | 12        | 6 x 8 x 4                        |
| R-5              | -----      | 5   | 70        | 11 ½ x 11 x 9 ⅝                  | VS-5               | -----      | 5   | 16        | 6 x 8 x 4                        |
| R-7              | -----      | 7.5 | 106       | 13 9/16 x 13 x 12 ¼              | VS-7               | -----      | 7.5 | 20        | 8 x 8 x 6                        |
| R-10             | -----      | 10  | 120       | 13 9/16 x 13 x 12 ¼              | VS-10              | -----      | 10  | 25        | 8 x 8 x 6                        |
| R-15             | -----      | 15  | 202       | 17 ⅞ x 17 ½ x 14 ¾               | VS-15              | -----      | 15  | 27        | 10 x 10 x 6                      |
| R-20             | RH-20      | 20  | 220       | 17 ⅞ x 17 ½ x 14 ¾               | VS-20              | VSH-20     | 20  | 40        | 10 x 10 x 6                      |
| R-25             | -----      | 25  | 290       | 20 ⅜ x 18 ¼ x 19                 | VS-25              | -----      | 25  | 65        | 10 x 15 x 8                      |
| R-30             | RH-30      | 30  | 306       | 20 ⅜ x 18 ¼ x 19                 | VS-30              | VSH-30     | 30  | 75        | 10 x 15 x 8                      |
| R-40             | RH-40      | 40  | 405       | 22 ¾ x 20 ⅞ x 21                 | VS-40              | VSH-40     | 40  | 80        | 10 x 15 x 8                      |
| R-50             | RH-50      | 50  | 445       | 22 ¾ x 20 ⅞ x 21                 | VS-50              | VSH-50     | 50  | 88        | 10 x 15 x 8                      |
| R-75             | RH-75      | 75  | 665       | 24 x 17 x 21                     | VS-75              | VSH-75     | 75  | 149       | 18 x 18 x 12                     |
| R-100            | RH-100     | 100 | 880       | 26 x 19 x 25                     | VS-100             | VSH-100    | 100 | 161       | 18 x 18 x 12                     |

\*Shipping weight

### CNC PAC™ TOTAL WEIGHT

| 220V MODEL  | 460V MODEL   | WT.*      |
|-------------|--------------|-----------|
| CNC PAC-1   | -----        | 31 LBS.   |
| CNC PAC-2   | -----        | 50 LBS.   |
| CNC PAC-3   | -----        | 75 LBS.   |
| CNC PAC-5   | -----        | 86 LBS.   |
| CNC PAC-7   | -----        | 126 LBS.  |
| CNC PAC-10  | -----        | 145 LBS.  |
| CNC PAC-15  | -----        | 229 LBS.  |
| CNC PAC-20  | CNC PAC-H20  | 260 LBS.  |
| CNC PAC-25  | -----        | 355 LBS.  |
| CNC PAC-30  | CNC PAC-H30  | 381 LBS.  |
| CNC PAC-40  | CNC PAC-H40  | 485 LBS.  |
| CNC PAC-50  | CNC PAC-H50  | 533 LBS.  |
| CNC PAC-75  | CNC PAC-H75  | 814 LBS.  |
| CNC PAC-100 | CNC PAC-H100 | 1041 LBS. |

\*Shipping weight

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### CNC PAC™ INSTALLATION WIRING DIAGRAM

#### NOTE:

220V CNC PAC is 220V single-phase in and 220V three-phase out.

460V CNC PAC is 460V single-phase in and 460V three-phase out.

