

## VOLTAGE STABILIZER

220V models and 460V models available. See below.

### PRODUCES VOLTAGE PHASE BALANCE ON ROTARY PHASE CONVERTER SYSTEMS

- The normal input operating voltage of the Rotary Phase Converter is 208-230V on the 220V (“R”) series, 460V on the 460V (“RH”) series. The generated phase output voltage of a Rotary Phase Converter is normally higher than the input voltage under no-load and light-load conditions. In applications with high single-phase voltage (greater than 230V on the 220V (“R”) series, and greater than 460V on the 460V (“RH”) series), the no-load or light-load output voltage may be excessive. Some **CNC / PLC** equipment will not work properly at the higher output voltage.
- **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.

- Running very small motors alone on a Rotary Converter that is 3 times larger or more may not reduce the output voltage sufficiently, in which case the smaller motor may run hot. For these cases to reduce cost it may be possible to use a dedicated Voltage Stabilizer sized to the requirements of the problem motor only. Consult factory.
- The Phase-A-Matic™ Voltage Stabilizer is designed to reduce this higher voltage to near the input voltage. It will also help keep the output voltage stable during peak loads, thus helping **CNC / PLC** and other voltage sensitive equipment to operate properly.

220V “VS” MODEL	460V “VSH” MODEL	HP	WT. LBS.	DIMENSIONS In Inches W x H x D
VS-1	-----	1	9	6 x 8 x 4
VS-2	-----	2	10	6 x 8 x 4
VS-3	-----	3	12	6 x 8 x 4
VS-5	-----	5	16	6 x 8 x 4
VS-7	-----	7.5	20	8 x 8 x 6
VS-10	-----	10	25	8 x 8 x 6
VS-15	-----	15	27	10 x 10 x 6
VS-20	VSH-20	20	40	10 x 10 x 6
VS-25	-----	25	65	10 x 15 x 8
VS-30	VSH-30	30	75	10 x 15 x 8
VS-40	VSH-40	40	80	10 x 15 x 8
VS-50	VSH-50	50	88	10 x 15 x 8
VS-75	VSH-75	75	149	18 x 18 x 12
VS-100	VSH-100	100	161	18 x 18 x 12



Model VS-15  
Shown

- Supplied in a NEMA type 1 enclosure with various sizes of knockouts.
- Intended for indoor use only, but can be placed in a rain-tight enclosure for use in wet or damp applications.

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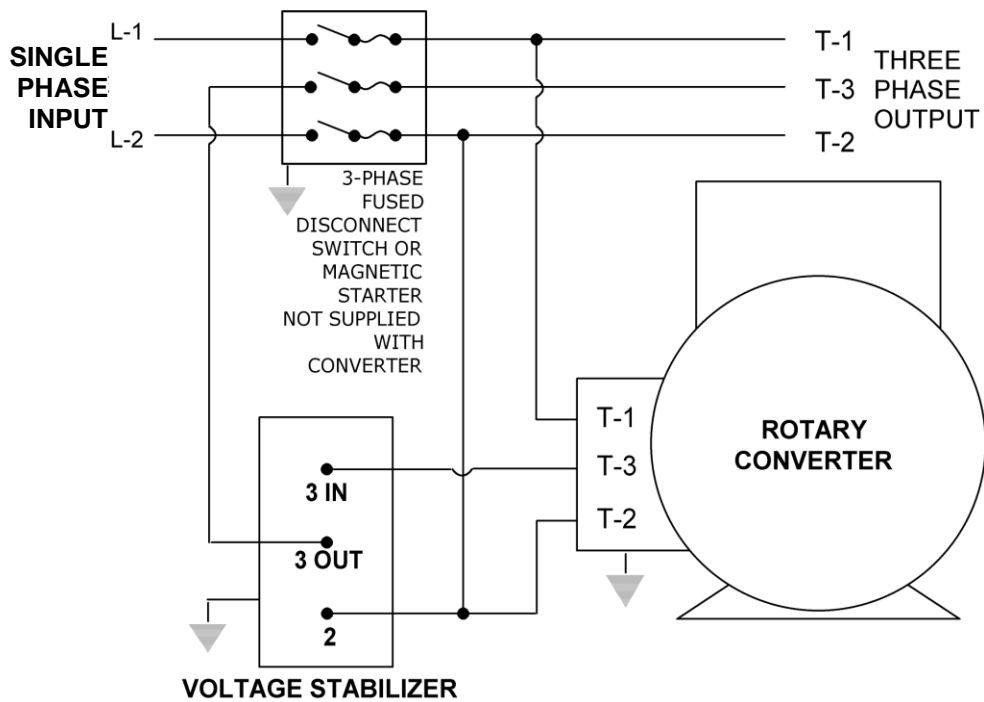
220 Volt "VS" Series & 460V "VSH" Series Voltage Stabilizer

### VOLTAGE STABILIZER INSTALLATION WIRING DIAGRAM

**NOTE:**

220V "VS" series is 220V single-phase input, 220V three-phase output.

460V "VSH" series is 460V single-phase input, 460V three-phase output.



#### PHASE-A-MATIC™

Has been providing phase converters since 1965, and for CNC / PLC plus other voltage sensitive equipment from the time they were first introduced into service in the U.S.A. The above method has a proven record of reliable performance over many years, including use on high-end computerized equipment and other technically advanced applications. Most manufacturers of CNC / PLC equipment recommend our combination ROTARY CONVERTER and VOLTAGE STABILIZER as a **CNC PACKAGE** phase converter for these voltage sensitive applications.

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