

Selecting the proper phase converter is an important step towards a trouble free set-up. Sizing the appropriate phase converter for hard, moderate, or light starting loads while determining the resistive or induction aspects of the equipment as well as the highly voltage sensitive requirements of certain equipment in an integral part of the selection process. Therefore each converter must specifically be sized according to the unique application intended for use. The load type can be established by obtaining one or all of the following attributes: HP, KW rating and/or starting and running amperage draw, combined with the quantity of motors to accommodate at any given time. Satisfying these variables can ensure optimum performance of your equipment consistently at any given time for years to come without compromise and allow you to achieve your expansion objectives at reasonable cost.

EQUIPMENT SIZING

Special attention must be given to your 3-Phase equipment's starting amperage requirements and its categorical status: Hard, Moderate, Soft. In some cases oversizing the Phase-Quest Rotary converter is necessary to satisfy the equipment's initial motor load during start-up. Scaling up the converters HP to a greater value than that of the loads actual motor rating will ensure trouble free service. High torque starting loads require special attention in that area, notably air compressors, hydraulic equipment, CNC machines etc...In order simplify the selection process consult one of our representatives or refer to our selection chart.



SINGLE PHASE SERVICE NOTE

The chart below indicates the single phase source requirements needed to satisfy your 3-phase-equipment

| HP SIZE | KW SIZE | 1-PHASE | 3-PHASE | KVA |
|---------|---------|---------|---------|-----|
| 3 | 2.2 | 19 | 9.5 | 4 |
| 5 | 3.7 | 30 | 15 | 6 |
| 7.5 | 5.6 | 44 | 22 | 9 |
| 10 | 7.4 | 56 | 28 | 12 |
| 15 | 11.2 | 84 | 42 | 17 |
| 20 | 14.9 | 108 | 54 | 22 |
| 25 | 18.6 | 136 | 68 | 27 |
| 30 | 22.4 | 160 | 80 | 32 |
| 40 | 29.8 | 208 | 104 | 42 |
| 50 | 37.3 | 260 | 130 | 52 |
| Call | --- | --- | --- | --- |

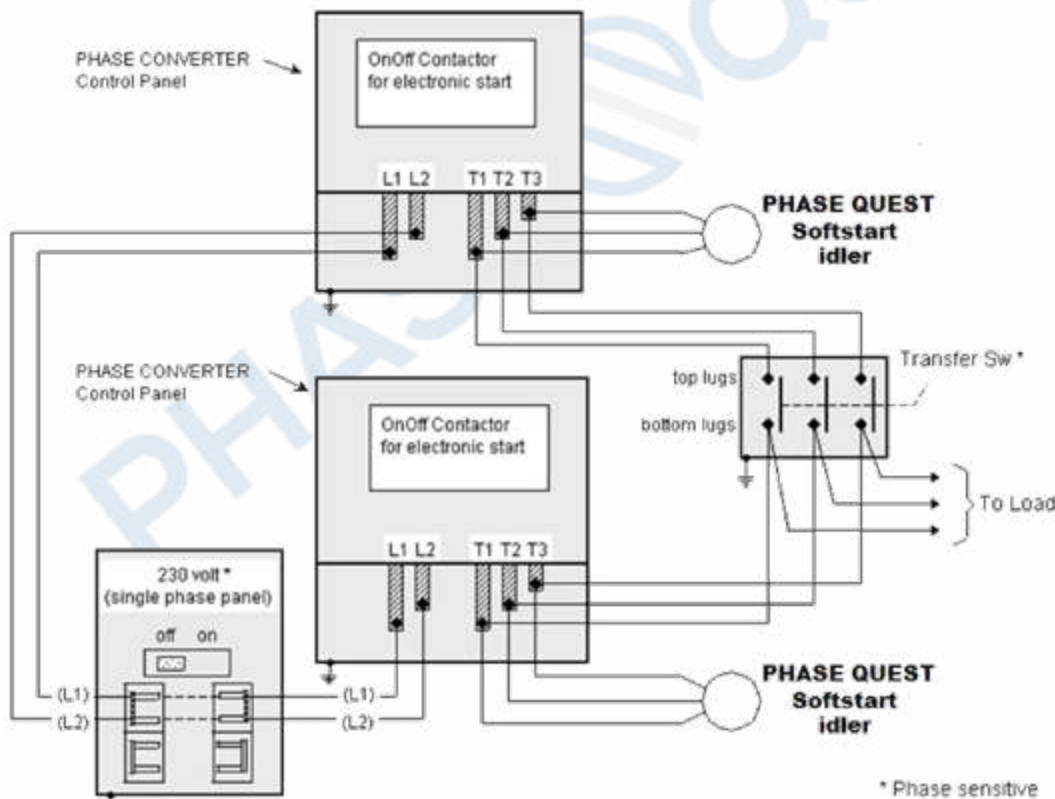
SPECIAL APPLICATIONS

Equipment designed to operate intermittently are described as unattended applications e.g.: Walk-in Cooler/Freezer, Passenger Elevator, Pumps, etc...In such cases our phase converters can be a retrofitted and adapted to include automatic control features to accommodate the various service intervals. An example to consider of an unattended application is a pressure switch device in a compressor which will subsequently trigger a time delay device mounted to the phase converter with sole purpose of controlling the output interval of the converter to the intended load in this case the compressor.

Important Note: Insufficient single-phase amperage can potentially limit or constrict the use of larger Phase Converters

PARALLEL PHASE CONVERTER

Systems serve to reduce the starting inrush current usually caused by larger size application often times leading to grid line disturbances due to the significant start-up requirements. Combining two Rotary Phase Converters in parallel offer the flexibility of generating power to small and large equipment alike.



- Parallel converters may run simultaneously or independently
- Each parallel converter must be rotating in the same direction
- Converters must be the same rated HP

Caution: When connecting to machinery equipped with circuit board controls, be sure to connect control circuit