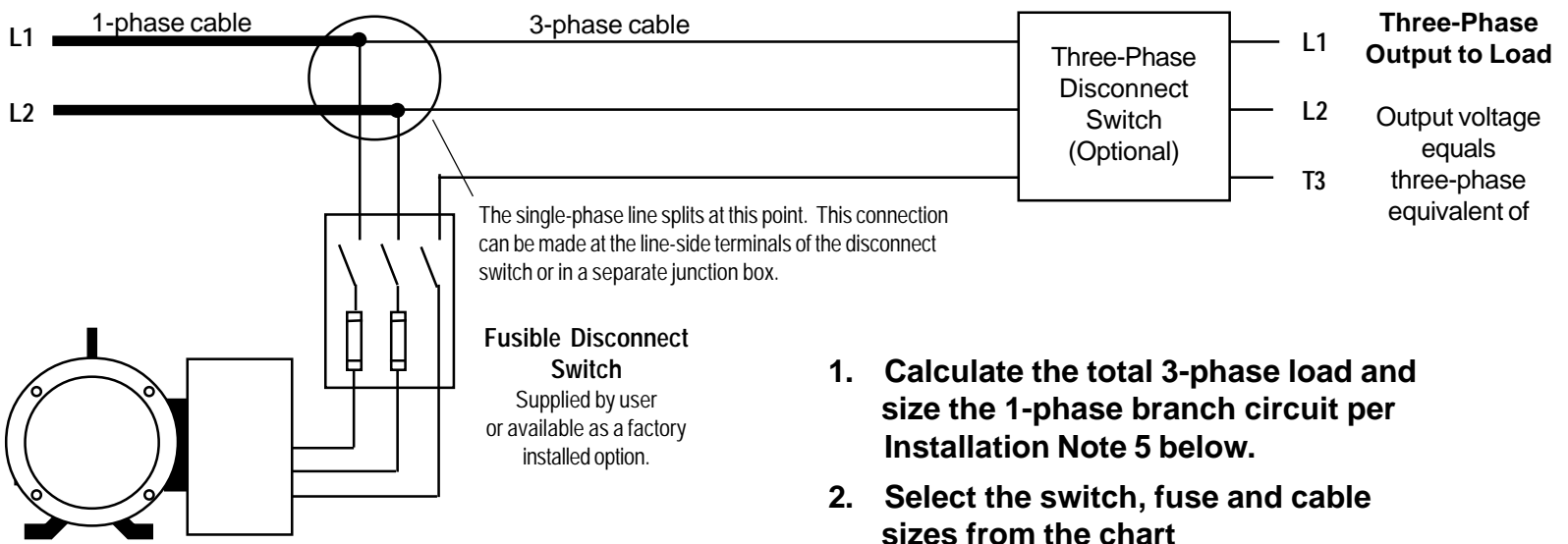


Single-Phase Input from Main Utility Supply Panel

208, 230 or 460 Volts

See Note 5 For Branch Circuit Sizing

Phasemaster® Totally Enclosed Type PI Rotary Phase converter



1. Calculate the total 3-phase load and size the 1-phase branch circuit per Installation Note 5 below.
2. Select the switch, fuse and cable sizes from the chart

DISCONNECT SWITCH AND WIRE SIZE SELECTION CHART									
Model No.	Start HP	230 Volts				460 Volts			
		Switch (A)	Fuse (A)	1-Ph Cable	3-Ph Cable	Switch (A)	Fuse (A)	1-Ph Cable	3-Ph Cable
PI-6	2	30	15	#10	#12	30	7.5	#12	#12
PI-10	3	30	20	8	12	30	10	10	12
PI-15	5	30	30	8	10	30	15	10	12
PI-20	7.5	60	35	6	10	30	15	8	12
PI-30	10	60	40	4	8	30	20	8	10
PI-40	15	60	60	1	6	30	30	6	10
PI-50	20	100	80	1/0	4	60	40	4	8
PI-60	25	100	100	3/0	4	60	50	2	6
PI-80	30	200	125	4/0	2	60	60	1/0	6
PI-100	40	200	150	2-1/0	1/0	100	75	2/0	4
PI-120	50	200	175	2-2/0	2/0	100	80	2/0	4

INSTALLATION NOTES
1. This diagram does not replace or supersede any requirements of local, state or national electric codes.
2. Use only dual element time delay fuses to protect the phase converter.
3. Do not bolt converter to floor. Use vibration pads supplied with unit.
4. Do not connect control circuits to manufactured phase, T3.
5. National Electric Code (NEC) requires single-phase cable and branch circuit to be rated for 250% of three-phase load current.
6. The 3-pole converter switch is used to provide electrical isolation when the converter is off. But it is only necessary to fuse converter input lines L1 & L2. T3 is not fused. A 2-pole fusible switch may be substituted if the optional 3-pole load disconnect is used.
7. No-load output voltage L2-T3 will exceed L1-L2 by 12-15%. Voltages will balance when load is connected.

Wiring Notes:

- Conductor sizes are based on type THHN, 90° C, copper conductors in 30° C max. ambient.
- These are minimum recommended sizes for the load motor HP rating indicated.
- For larger loads refer to installation note 5 and increase conductor size accordingly.
- Increase wire size for Aluminum conductors or runs in excess of 50 feet.
- Consult National Electric Code for runs in excess of 50 feet or for aluminum conductors.
- Do not use circuit breakers. See Installation Note 2.

Connection Diagram for Totally Enclosed Phasemaster Rotary Phase Converter with Manual Controls

0302-PI