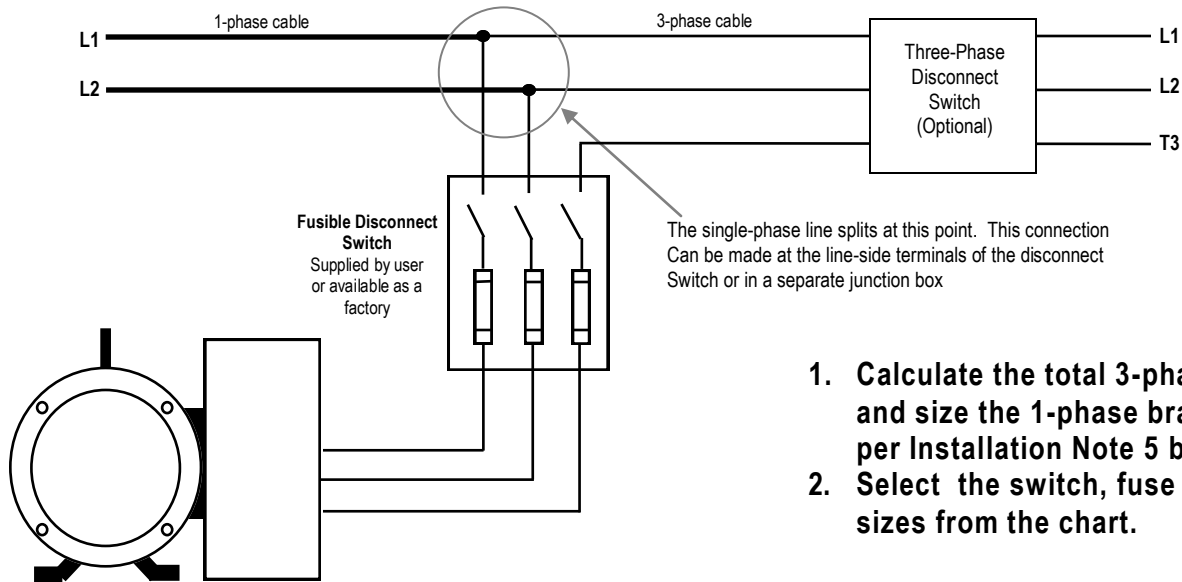


Single-Phase Input from Main Utility Supply Panel

208, 230 or 460 Volts

See Note 5 For Branch Circuit

Phasemaster® Totally Enclosed Type PI Rotary Phase Converter



Three-Phase Output to Load

3-Phase output voltage same as 1-phase input

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 *									
		Configuration 1							
Model No.	Start HP	230 Volts				460 Volts			
		Switch	Fuse	1-Ph Cable	3-Ph Cable	Switch	Fuse	1-Ph Cable	3-Ph Cable
PI-6	2	30	15	10	12	30	10	12	12
PI-10	3	30	20	8	10	30	10	10	12
PI-15	5	30	30	8	10	30	15	10	12
PI-20	7.5	60	35	6	8	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	80	2/0	4
PI-120	50	200	175	2-2/0	2/0	100	80	2/0	4
PI-140	60	200	200	2-2/0	3/0	100	100	3/0	2

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. 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