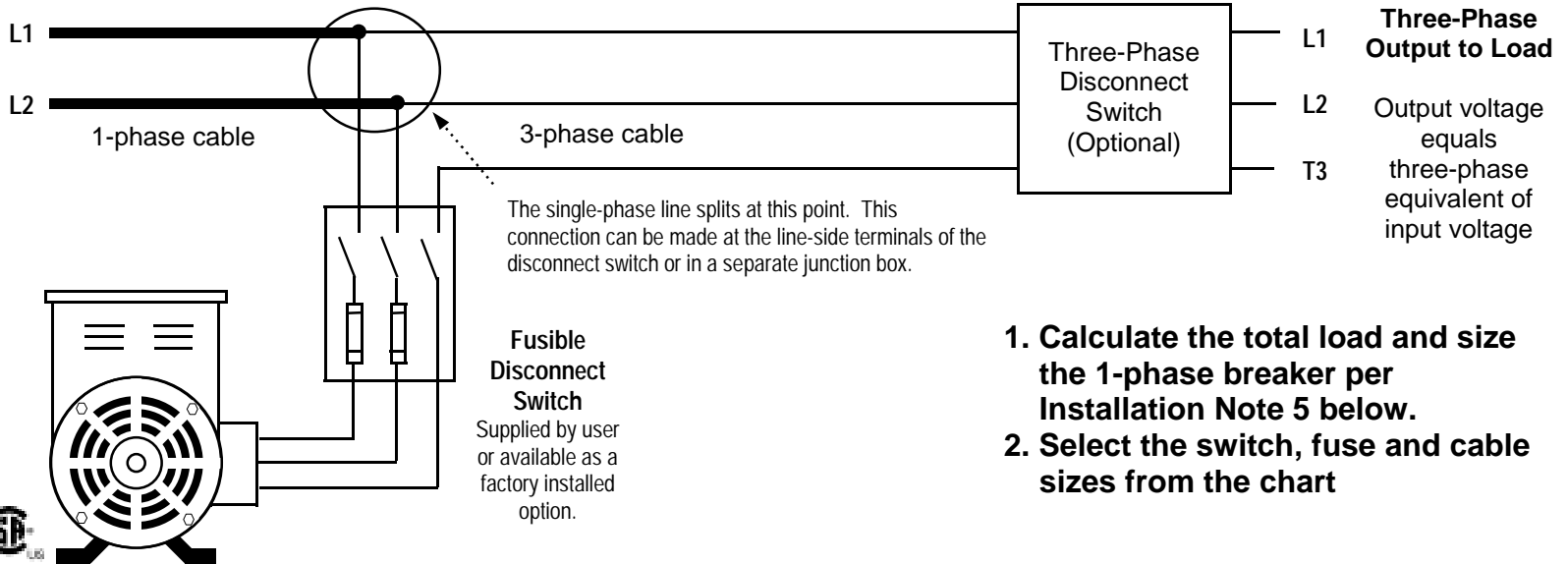


Single-Phase Input from Main Utility Supply Panel

208, 230 or 460 Volts

See Note 5 For Branch Circuit Sizing

Phasemaster® Type MA Rotary Phase converter



1. Calculate the total load and size the 1-phase breaker 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 | Fuse | 1-Ph Cable | 3-Ph Cable | Switch | Fuse | 1-Ph Cable | 3-Ph Cable |
| SD-60 | 1.5 | 30 | 10 | #12 | #12 | 30 | 5 | #12 | #12 |
| MA-00 | 2 | 30 | 15 | 10 | 12 | 30 | 7.5 | 12 | 12 |
| MA-0 | 3 | 30 | 20 | 8 | 10 | 30 | 10 | 10 | 12 |
| MA-1 | 5 | 30 | 30 | 8 | 10 | 30 | 15 | 10 | 12 |
| MA-1B | 7.5 | 60 | 35 | 6 | 8 | 30 | 15 | 8 | 12 |
| MA-2 | 10 | 60 | 40 | 4 | 8 | 30 | 20 | 8 | 10 |
| MA-3 | 15 | 60 | 60 | 1 | 6 | 30 | 30 | 6 | 10 |
| MA-4 | 20 | 100 | 80 | 1/0 | 4 | 60 | 40 | 4 | 8 |
| MA-5 | 25 | 100 | 100 | 3/0 | 4 | 60 | 50 | 2 | 6 |
| MA-6 | 30 | 200 | 125 | 4/0 | 2 | 60 | 60 | 1/0 | 6 |
| MA-7 | 40 | 200 | 150 | 2-1/0 | 1/0 | 100 | 75 | 2/0 | 4 |
| MA-8 | 50 | 200 | 175 | 2-2/0 | 2/0 | 100 | 80 | 2/0 | 4 |
| MA-9 | 60 | 200 | 200 | 2-2/0 | 3/0 | 100 | 100 | 3/0 | 2 |
| MA-10 | 75 | N/A | N/A | N/A | N/A | 200 | 150 | 4/0 | 1/0 |

| 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 Phasemaster Rotary Phase Converter with Field Mounted Manual Controls

0302-MA