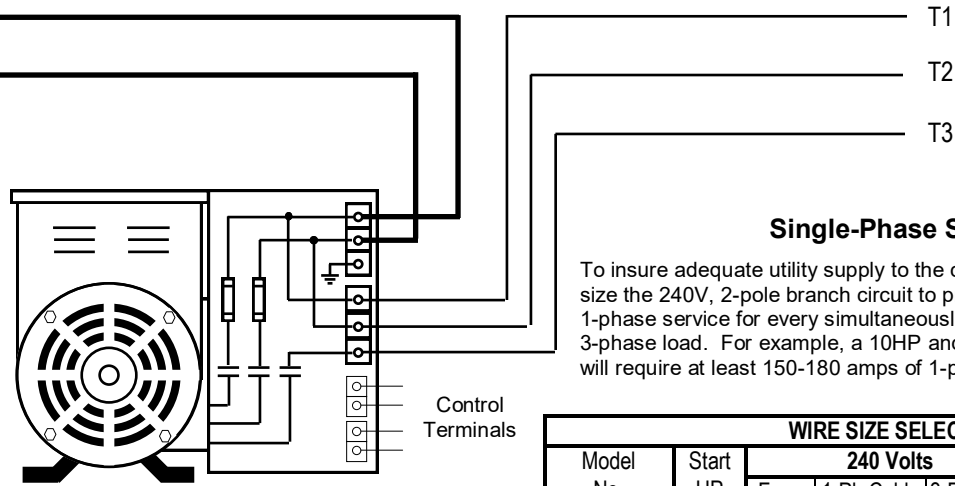


Single-Phase Input from Main Utility Supply Panel

See 1-Phase Service Sizing note above wire selection table

Phasemaster® Type MA-A Rotary Phase Converter with built-in fuses and automatic magnetic controls for remote actuation.



Three-Phase Output to load

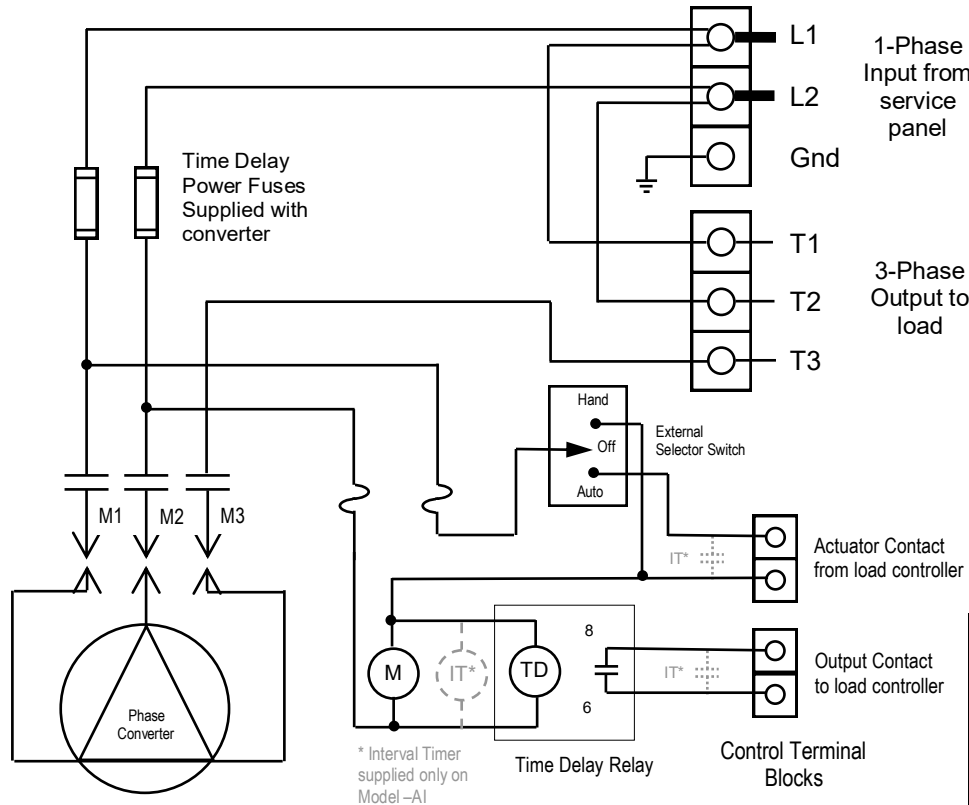
Single-Phase Service Sizing

To insure adequate utility supply to the converter and load, it is necessary to size the 240V, 2-pole branch circuit to provide a **minimum** of 5-6 amps of 1-phase service for every simultaneously operating horsepower of connected 3-phase load. For example, a 10HP and 20HP load operating simultaneously will require at least 150-180 amps of 1-phase service

WIRE SIZE SELECTION CHART

Model No.	Start HP	240 Volts			480 Volts		
		Fuse	1-Ph Cable	3-Ph Cable	Fuse*	1-Ph Cable	3-Ph Cable
SD-60-A	1.5	10	#12	#12	10	#12	#12
MA-00-A	2	15	10	12	10	12	12
MA-0-A	3	20	8	10	10	10	12
MA-1-A	5	30	8	10	15	10	12
MA-1B-A	7.5	35	6	8	15	8	12
MA-2-A	10	40	4	8	20	8	10
MA-3-A	15	60	1	6	30	6	10
MA-4-A	20	80	1/0	4	40	4	8
MA-5-A	25	100	3/0	4	50	2	6
MA-6-A	30	125	4/0	2	60	1/0	6
MA-7-A	40	150	2-1/0	1/0	80	2/0	4
MA-8-A	50	175	2-2/0	2/0	80	2/0	4
MA-9-A	60	200	2-2/0	3/0	100	3/0	2

Control Panel Connection Detail



* Interval Timer supplied only on Model-AI

Sequence of Operation in Auto Operating Mode

1. Input actuator contact from load controller closes magnetic starter M and energizes timing relay TD. Interval timer IT is also energized on "AI" Models.
2. Converter starts and the adjustable timing relay waits for the time delay period, typically 2-5 seconds until converter reaches full speed.
3. Output contacts 1-3 then close, signaling or allowing the load to start.
4. Interval timer contacts IT remain closed for duration set on timer. This keeps the converter running and allows the load to operate for that period of time after the last load operation. This reduces unnecessary starting operations.

Connection Diagram for Type MA-A & MA-AI Phasemaster Rotary Phase Converter with automatic controls

0302-A