



## Complete Single to Three Phase Converter Technical & Installation Information

Our 1 to 3 Phase Converter is simply a 415V 3 Phase Electrical Motor which is connected to a 240V (or 480V) Single Phase Supply with an Auto Transformer to give 415V and an Electronic Controller with Capacitors to give a phase shift. The motor will now start. The motor acts as a 3 phase rotary transformer but is still controlled by the Electronic Controller to produce a 415V 3 Phase supply.

1 to 3 Phase Converters must be connected (input & output) by a Licensed Electrician and comply with Australian Standard AS3000 (SAA Wiring Rules).

Voltages as high as 800VAC are in the Converter. Wait 10 minutes after isolating before removing covers to allow the capacitors to discharge.

The 1 to 3 Phase Converter size (KW) must be equal to, or greater than, the 415V 3 Phase Load (KW) it is to supply. The load must be balanced or allowance must be made for unbalanced loads. The 1 to 3 Converter output is continuously rated.

Three Phase Loads that have a 240V control circuit must have the active which feeds the control circuit connected to phase #3.

The 240V (or 480V) Single Phase Supply must be connected from a Circuit Breaker with a current rating selected from the table below for that size converter. It must be a delayed type circuit break.

Ensure the 1 to 3 Phase Converter is positioned in a clean dry place away from any other heat or other sources that could be detrimental to electrical equipment.

Minimal maintenance is required as the only moving part is the electric motor.

| MODEL  | KW  | 240V<br>AMPS | 240V<br>CB | 480V<br>AMPS | 480V C/B<br>D CURVE | 415 V 3P<br>AMPS | LENGTH | WIDTH | HEIGHT | MASS<br>KG |
|--------|-----|--------------|------------|--------------|---------------------|------------------|--------|-------|--------|------------|
| MMT4   | 4   | 20           | 20         |              |                     | 7                | 656    | 356   | 448    | 75         |
| MMT5.5 | 5.5 | 40           | 40         |              |                     | 14               | 756    | 356   | 449    | 108        |
| MMT8   | 8   | 36           | 40         | 18           | 20                  | 14               | 756    | 356   | 448    | 109        |
| MMT11  | 11  | 54           | 63         | 27           | 32                  | 21               |        |       |        |            |
| MMT16  | 16  | 74           | 80         | 37           | 40                  | 28               |        |       |        |            |