

BOOSTER 1to3 PHASE CONVERTER TECHNICAL & INSTALLATION INFORMATION

Our Booster 1to3 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.

1to3 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 1to3 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 1to3 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. Change the connections in the 5 Pin Plug to achieve this before starting the 1to3 Converter. A Data sheet to further explain this connection is available.

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.

4KW & 8KW 1to3 Phase Converters are supplied with a 4m Input cable for connection to the supply Circuit Breaker. The 415V 3 Phase output has 3 x Indicator Lights, a 3 Pole Circuit Breaker, 5 Pin 20A output socket & plug. Converters larger than these have 3 x Indicator Lights and a 3 Pole Circuit Breaker but need to be hard wired on site.

All Converters are supplied with lifting eyes and levelling feet. Wheels/Casters are an optional extra.

Ensure the 1to3 Phase Converter is positioned in a clean dry place away from any other heat or other sources that could be detrimental to electrical equipment. The Converter should be leveled using the 4 adjustment knobs on the legs.

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

MODEL	KW	240V AMPS	240V C/B D CURVE	480V AMPS	480V C/B D CURVE	415V 3P AMPS	SIZE			MASS KG
							LENGTH	WIDTH	HEIGHT	
E4	4	20	20	-	-	7	656	356	448	75
T4	4	18	20	-	-	7	656	356	448	76
E8	8	40	40	-	-	14	756	356	448	108
T8	8	36	40	18	20	14	756	356	448	109
T12	12	54	63	27	32	21	756	556	648	165
F12	12	54	63	27	32	21	756	556	648	166
F16	16	74	80	37	40	28	756	556	648	180

LARGER KW MODELS AVAILABLE

‘BOOSTER’ and ‘1to3 PHASE CONVERTER’ are registered names.

Manufactured by:

Coast Electrical Industries Pty. Limited

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