



# Single Phase to *Three Phase Converters*

The electrical division of Barry Brown & Sons specialise in producing three phase power in locations where it is otherwise unavailable. We manufacture a range of cost effective products that convert regular 240V

single phase or 480V “two” phase into 415V three phase. Whether it is a simple single motor machine or a complex CNC device, Barry Brown & Sons have a solution to get it operational.

## *The Booster*

The Booster is our rotary style power converter. Supplied by your regular 240V single phase or 480V “two” phase, the Booster converts your available power into 415V three phase. This power is then available for running any three phase machinery.

Unlike traditional rotary converters, the Booster regulates the three phase output so the voltage remains balanced even as the amount of connected three phase load increases. This feature enables multiple machines to be powered by the one Booster making it an ideal solution for workshops with a range of equipment.

The Booster is available in a range of sizes capable of running machines from 0.25kW to 60kW. The only factor limiting the size of Booster you can operate is the amount of power you have available to convert.



### Features

- 415V three phase output
- Fast, direct on line (DOL) starting for high demand loads
- Precise 9 stage output voltage balancing
- Capable of running multiple loads
- Connected motors produce 100% of their rated shaft power
- Power indicator lights
- Push button start and stop
- Over current protection
- 240V or 480V inputs available
- IP rated electrical enclosure with venting
- Wide range of output kW rating sizes available

Booster	Input			Output			
	Volts	Amps	Phases	Volts	Amps	kW/hp	Phases
2	240	10	1	415	4.5	2.2/3	3
3	240	15	1	415	6	3/4	3
4	240	20	1	415	8	4/5.5	3
8	240/480	40/20	1/2	415	14	8/10	3
11	240/480	50/25	1/2	415	20	11/15	3
15	240/480	63/32	1/2	415	26	15/20	3
18	480	40	2	415	32	18.5/25	3
22	480	50	2	415	38	22/30	3
30	480	63	2	415	53	30/40	3

Note: Larger sizes available on request

**Telephone:** 03 5941 6111 | **Fax:** 03 5941 5888

**Web:** [www.barrybrown.com.au](http://www.barrybrown.com.au) **Email:** [info@barrybrown.com.au](mailto:info@barrybrown.com.au)

**Address:** 12 Drovers Place Pakenham, VIC 3810

## The MotorMate

The MotorMate is our electronic inverter based product. Like the Booster it can be powered either by your available single phase 240V or "two" phase 480V supply and produces 415V three phase. Unlike the Booster however, it is suitable for running just one load matched to the output rating of the MotorMate.

Using the functions of the inbuilt inverter, with the MotorMate we are able to control the speed of the connected motor load by altering the frequency being supplied to it. Machines that were previously only single or two speed can now be fully controlled through the MotorMate.

The MotorMate greatly reduces the high inrush currents that are created when a motor load is started direct on line (DOL). It achieves this by ramping up the load over a set period of time making for a smooth acceleration. This also has the added benefit of reducing wear on mechanical components extending the working life of the machine.

### Features

- 415V three phase output
- Variable speed control of motors
- Low starting current
- Single load applications
- 240V or 480V inputs available
- Lighter weight
- Less wear on mechanical components
- IP rated electrical enclosure
- Plug in models available
- Range of output kW rating sizes available



Booster	Input			Output			
	Volts	Amps	Phases	Volts	Amps	kW/hp	Phases
1.5	240	7	1	415	3.3	1.5/2	3
2.2	240	10	1	415	4.5	2.2/3	3
3	240	15	1	415	6	3/4	3
4	240	20	1	415	8	4/5.5	3

Note: Larger sizes available on request

## Installation Examples...

Some common examples of three phase equipment you can run using a Barry Brown and Sons product are a: Lathe, Mill, Drill, Grinder, Welder, Plasma Cutter, Bandsaw, Cold Saw, Grinder, Guillotine, Folder, Pan Brake, Press, Press Brake, Punch & Shear, Section & Pipe Roller, Roller, Bender, Wood Lathe, Bench Saw, Table Saw, Panel Saw, Scroll Saw, Sander, Linisher, Thicknesser, Planer, Dust Collector, Spindle Moulder, Router Table, Edgebander, Car Hoist, Air Compressor, Refrigeration Unit, Water Pump, Center Pivot, Hydraulic Pump, Concrete Grinder, Mixer, Meat Mincer, Horse Treadmill & many more!

A Booster running a three phase Mig Welder



A MotoMate running a three phase Milling Machine

