

The single to three-phase Booster converter



The Booster™ is a single-phase to three-phase converter designed for machinery with motors.

It reliably converts 230V single-phase power into 400V pure sine-wave power.

Boosters are used on a wide range of machinery, including lathes, planers, saws, thicknessers, spindle moulders, combination machines, band saws, drill presses, grinders, milling machines, compressors, car hoists, surface and deep-well pumps, welders, and guillotines, to name a few.

The three-phase outputs provide correct phase angles and an output voltage symmetry of within $\pm 6\%$ at all loads. These values are comparable to those supplied by utility companies.

The 100% duty cycle enables uninterrupted 24/7 operation at full load.

Motors in machines accelerate at the same rate as if they were connected to the three-phase mains supply. The momentary overload capacity is 300%.

A converter should have at least a kW rating of 110% of the largest load.

A Booster detects when a motor is starting up and supplies the necessary currents to ensure stable voltages under these inrush conditions. The smart digital electronics are based on solid-state, contact-free zero-crossing technology. Leading converter manufacturers world-wide therefore use our controllers in their converters.

A Booster is supplied with clear installation guides for an electrician. These explain how to connect a single-phase cable from a switched single-phase wall socket to the Booster's input terminal block, and how to connect a cable from the Booster's three-phase output terminal block to three-phase wall sockets for machines. Digital indicators provide information on output voltage and output current.

The Booster's longevity is ensured by carefully selected, long-lasting components such as an oversized step-up transformer, high-voltage long-life capacitors and a quiet-running, maintenance-free, high-efficiency generator motor.

The steel cabinet, measuring 800 x 410 x 370 mm, is powder-coated black for enhanced durability.

The complimentary parts replacement warranty is valid for a period of five years.

