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Single to three phase MultiPhase[™]

converter for CNC machines



MultiPhase converters are designed for use with CNC machines, large VFDs or VSDs, and all other 400V three-phase machines. They maintain output voltage symmetry within guaranteed limits at all loads. Leading converter manufacturers use our intelligent electronic controllers in their converters for this reason.

The 8kW MultiPhase is only available for a 230V supply. Versions of 12kW and above can be ordered with a 230V single-phase or a 460V split-phase input. All versions have an input for 400V two-phase supply. The 400V three-phase outputs provide pure sine waves with the correct phase angles.

Output voltage symmetry is electronically maintained within $\pm 4\%$ at all loads. The 100% duty cycle enables continuous operation at full load 24/7. Select a MultiPhase converter with a kW rating of at least 1.2 times that of the largest load. The starting and momentary overload capability is 300%.

MultiPhase 8 (8kW) can support a welder of up to 300A, while MultiPhase 12 can support a welder of up to 450A.

MultiPhase converters with a rating above 8kW are supplied as linked units of 8kW each and contain long-life components such as transformers, intelligent nine-stage SCR power electronics, low-noise timing generators and extra high-voltage capacitors. These components are housed in steel cases measuring 800 x 410 x 370 mm each.

Digital displays show the output voltage, output current and status.

Installation involves connecting a single-phase cable from a switched single-phase socket to the input terminal block of the converter, and connecting a cable from the three-phase output terminal block of the converter to 400V three-phase wall sockets.

MultiPhase converters are designed and manufactured in New Zealand.

The free parts replacement warranty is valid for five years.