

# Single phase to 3 phases converters

*True sine wave rotary converters from single phase 230VAC 50Hz to 3 phases 400VAC 50Hz*

## 3 Phases everywhere, for everything

It has never been easier to drive a 3 phases 400V appliance, pump or tool from a standard 230V single phase power source such as a grid line or a generator. Up to 1.3kW permanent power, the TR range allows you to optimize your works on site or at the workshop. Take any tool you have and your single phase genset and do not worry about finding a 3 phases source anymore.

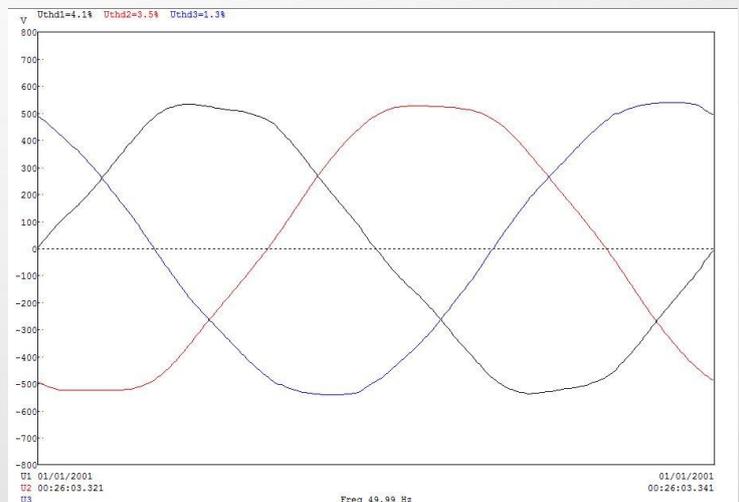
## Highest reliability

The rotary converters relies on a heavy duty motor used as a converter. It has nothing to compare with the weak electronics of VSD the output signal is also much cleaner. As a matter of fact, your tools will last longer and work better. Mounted on silent blocks in a vented steel box, it is quiet and can be used in your working room without annoying.

## How it works

The rotary converter TR10 converts a single phase power source to a three phases output of 400V. The current quality is comparable to that supplied by the grid : true sine wave with angles of 120 degrees phases. As a mass of inertia, the rotary converter TR10 erases the small power failures, the voltage drops, the surges, the tensions peaks and others disturbances as any other product. The rotary converter TR10 has no switch, any button of control, it can be use as a "classic" converter. The installation is very simple and can be made by an electrician.

The datasheet explains how connect and which protection use. TR10 does not produce harmonic disturbances or electromagnetic radiation. It is not sensitive to harmonic disturbances or electromagnetic fields. The motor is mounted on anti-vibration rubber studs for quiet operation.



Consult us to analyze your projects :

Phone: +33 (0)4 90 60 05 68 / Fax: +33 (0)4 90 60 66 26 [contact@erm-energies.com](mailto:contact@erm-energies.com) [www.erm-energies.com](http://www.erm-energies.com)

## Technical specifications

<b>Dimensions :</b>	550 x 330 x 300 mm
<b>Weight :</b>	40 kg
<b>Inputs :</b>	230V 50Hz single phase (protected by a 16A breaker)
<b>Outputs :</b>	400V 50Hz 3 phases 1.3kW permanents (motor starting current allowed)
<b>Design :</b>	IP21 steel enclosure RAL 5017, 2 handles
<b>Standards :</b>	DEKRA approval, european norms
<b>Appliance exemples :</b>	Compressor Drawbridge Tire machine Wheel balancer Milling machine CNC Sharpener Grinding machine Slotting machine Band, circular saw Belt sander Planer, Joiner Heat pump, Cold room Garage motorised door Shoemaking bench

Currently available with a power of 1.5kW other power available on request.

### What makes us different :

Management of large multi-site projects around the world

Design and manufacturing of industrial solutions

Multidisciplinary design (Mechanics, Electricity, Electronics, Thermal and Industrial Computing)



### ERM Energies a brand of ERM Automatismes Industriels :

- ❑ Structure created in 1990, specialized in electrical engineering.
- ❑ A design office of 10 people to answer specific and complex requests (Electricity, Mechanics, Electronics, Thermal and Industrial Computing)
- ❑ Nearly 40 people on the site of Carpentras (FRANCE)
- ❑ Professional and certified technicians.
- ❑ Experience in electrical cabinets and metal structures making.
- ❑ Field technicians for installation and technical support

