

## SINGLE PHASE FREQUENCY INVERTERS VFLC SERIES

Specially designed for ventilation market

The speed control by varying stator frequency and voltage is the best system for the control of asynchronous motors. Its use was prohibitive on the ventilation world for the high cost.

TER has developed a frequency inverter series that allows these features with a low cost.

Its competitive advantages, are already known but we would emphasize the **ENERGY SAVING**, motor **useful life**, **protection against overvoltage, over current, short circuit**, etc...and different possibilities of **control and adjust**.

### Specifications

**Input:** 200-240 Vac I 50-60Hz  
**Output:** 0 -Vin 0 - 400Hz III (  $\Delta$ : 0,1Hz)  
**Models:** 100W (0.5 A), 400W (2 A), 750W (3,5A), 1100W (5,5A), 1500W (7,5A), 2000W 10A)

### Control:

- Input ON/OFF
- Input 0-10V (4-20mA)
- Serial port RS-232
- External terminal

### Parameters:

*Adjustable and/or fixed defined by customer*

- Switching frequency 3-16KHz (  $\Delta$ :100Hz)
- Switching frequency changed randomly
- V/F: Lineal, quadratic or curve defined by customer
- Maximum output frequency (Fmax)
- Minimum output frequency (Fmin)
- Maximum output voltage (Vmax)
- Minimum output Voltage (Vmin)
- Frequency of maximum voltage (FVmax)
- Frequency of minimum voltage (FVmin)
- Freewheel stop or deceleration
- Acceleration time (several steps)
- Deceleration time (several steps)
- DC braking
- Cancellation of the critical speeds
- Compensation of Input voltage fluctuation (if possible)
- PID control

### Others:

- Motor over current protection
- Motor short circuit protection
- Over voltage protection
- Mains under voltage protection
- Power circuit over temp protection
- Programmable Relay (1AC)
- IP-40 enclosure (with or without box)
- Other options can be requested

### Advantages:

- Voltage/frequency reg. system
- Last generation of IGBT modules
- Energetic saving
- EMC filter included
- Motor protection
- High quality and low price
- Easy installation and use
- Robust and adaptable



0.2 - 0.4 Kw

0.75 - 1.1- 1.5 Kw



Special application inverters for AHU



External control 0-10V



Programming consola