

# Frequency Converter FC750



## Description

**FC750** is a very simple, yet efficient Plug & Play frequency converter for simple speed control of 3 phase asynchronous AC motors up to 750W. The **FC750** has been specifically developed for seamless speed control of Fans, pumps, ventilators and any simple AC motor application

**FC750** is a totally integrated and encapsulated frequency converter, with a very simple interface, and a sophisticated set of fault control systems, ensuring the motor will RUN, even in extreme conditions.

Housed in an IP54 enclosure as standard means there will be no need for the often required additional Cabinet. The integrated EMC filter in the **FC750** makes it an ideal solution for many applications, where a Plug & Play simple operation is required. No need for an external filter, no need for an external cabinet, no need for any "irritating" setup menus, just plug it in!

**FC750** has as standard a 0-10 / 2-10V input control range with an auxiliary START/STOP signal and directional control.

**FC750** also has an "inbuilt" motor protection that will ensure the motor does not get overheated. The function can be adjusted in 9 steps from the Dipswitch. DIP=0 means NO protection. The **FC750** will stop the motor and activate an ALARM relay when the current has been exceeded ten times.

## Picture

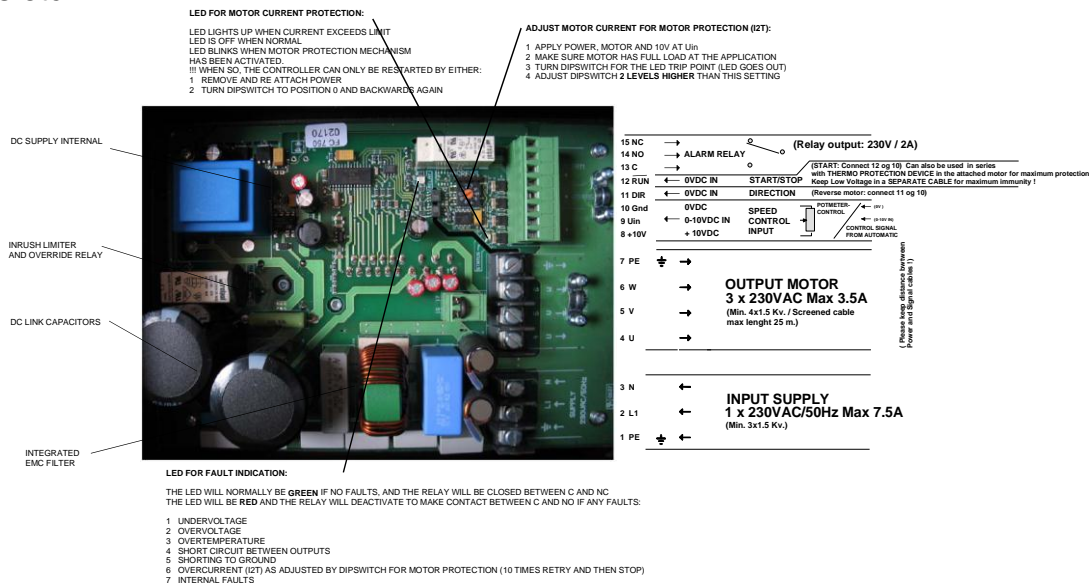


FC750 with optional potentiometer

## Technical

- Input supply 180-260VAC 50/60Hz
  - Input current max 7.5A continuous
  - Input current max 10A 60 sec
  - Typical motor 750W / 4 Pole
  - Output Current max 3.5A continous
  - Output Current max 5.5A 60 sec
  - Efficiency min 95%
  - >Short circuit protection from outputs
  - >Short circuit protection to Ground
  - >Over and undervoltage protected
  - >Temperature protected
  - >Motor protection from internal current limit
- 9 current levels, adjustable by dipswitch and LED
  - Level = 0 disables over current protection feature.
  - Alarm relay output with C-NO-NC contacts. NC normally ON
  - Fixed Acceleration/Deceleration apr. 10 seconds 10-50Hz
  - Vin =0-10V or 2-10V for 10-50Hz speed (V/F)
  - ON/OFF Digital input (can be connected to motor thermo)
  - DIR digital input, use if motor has to turn in other direction.
  - Restart by any failure after apr. 30 seconds
  - Modulation at 15.9Khz making it very quiet
  - Environmental temperatures 0-40°C
  - Meassures: 225x155x105 mm .
  - CE: EMC 89/336/EEC LVD 73/23/EEC

## Connections etc



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