

New

IMP750 SINGLE-PHASE 750W ON-BOARD INVERTER



New

Characteristics:

- Direct fixing on the motor box
- Size: 100 x 150 x 45H mm
- Insulation class: IP65
- Maximum motor power: 750W (1Cv)
- V/f control type
- Strong case type for use in industrial motors and pumps
- Power supply: 220-250Vac, 50-60Hz
- Motor characteristics: asynchronous three-phases, 2-4-6-8 poles; 220-250Vac; P2max: 750W
- Nominal current to the motor: 3.3A
- Max current overload: 150% (5A) for 1 minute, then internal protection switch-off the motor
- Speed limits: adjustable frequency (5÷100Hz) by a potentiometer (other limits available on request)
- Linear acceleration and deceleration adjustable by two inner trimmers from 0.1 seconds to 120 seconds (initial calibration during the motor installation or default constructor settings)
- Boost: the supply voltage at the starting is set at a fixed value > 0 with frequency = 0, initial parabolic growth of the V/f curve, then linear growth for high initial torque and current near the nominal value
- Compensation of slip for *constant speed working* (value set by potentiometer) in all frequency range
- RS485 serial port for set motor parameters, current and speed limitation, boost regulation



Others:

- Interface and Input – Output ports:
 - § Double switch (I-0-II) for “clockwise running” – “stop” – “anticlockwise running”
 - § Potentiometer for speed regulation
 - § Commands connections for a remote control (for example: PLC controller)
 - § Motor connections (3 phases)
 - § Braking resistance output;
 - § Connections for single-phase power supply (2 line phases + GND)
- Inverter protections:
 - § Peak current limitation;
 - § Current overload limitation (I^2t) on the motor phases;
 - § Thermal protection of the electronic;
 - § Over voltage protection
- On Request:
 - § Analog Input (voltage 0..5V or current 4..20 mA) for pressure sensor control (for example in water pump system or hydraulic pump system) and feed-back regulation of the pressure by the potentiometer

