

Speedbox

Wall-mounted pump driver for a single pump with variable speed.

Designed for the automation of single-phase and 3-phase pumps managed by inverter. General electrical supply is ~1x230 or ~3x400 Vac -depending on model. It can be mounted individually or in groups of 4 pumps communicated and operating in MASTER-SLAVE mode with alternated sequence of operation.



1006 MT
1010 MT
1106 MM
1112 MM
1305 TT
1309 TT
1314 TT



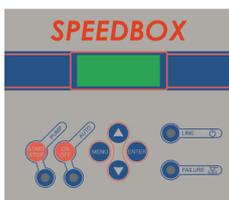
OPERATING CHARACTERISTICS

- Frequency inverter for the pump control.
- ART function (Automatic Reset Test). If the device has been stopped due to the action of the safety system against dry operation, the ART tries to connect the pump, with a programmed periodicity because the water supply could have been restored.
- Automatic restore system after an interruption of power supply. System restores the previous mode keeping the configuration parameters.
- Electronic input for detection of minimum water level in aspiration tank- optional-. This system is independent of the safety system against dry-running operation.
- Volt-free contact for monitoring the alarms displayed in screen originated by irregularities or problems of the system. This option is only on one-phase devices.
- STC function (Smart Temperature Control): when temperature of electronic circuit is over 85 °C reduce automatically the frequency of the pump and decrease the generation of heat but keeping the flow of water.
- Control and information panel with LCD screen.
- External pressure transducer 0-10 bar or 0-16 bar (under request) with 4-20 mA input.
- Inner current sensor with instantaneous digital reading.
- Register of operational controls. Information about: operating hours, counter of starts, counter of connections to the power supply.
- Register of alarms. Information about type and number of alarms since the starting up of the device.
- Open PID in the expert menu.
- Cooling by natural or forced convection depending on the model.
- Optional thermal-magnetic circuit breaker (except model 1314 TT)
- EMC certified residential class C1 or C2.

TECHNICAL CHARACTERISTICS

| | 1006 MT | 1010 MT | 1106 MM | 1112 MM | 1305 TT - 1309TT - 1314TT |
|-----------------------------|--------------------|-------------------|--------------------|-------------------|---------------------------|
| Power supply voltage | ~1 x 230 Vac | ~1 x 230 Vac | ~1 x 230 Vac | ~1 x 230 Vac | ~3 x 400 Vac |
| Frequency | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz | 50/60 Hz |
| Output voltage | ~3 x 230 Vac | ~3 x 230 Vac | ~1 x 230 Vac | ~1 x 230 Vac | ~3 x 400 Vac |
| Max current | 6 A | 10 A | 6 A | 12 A | 5 A - 9 A - 14A |
| Max peak current | 20% 10" | 20% 10" | 20% 10" | 20% 10" | 20% 10" |
| Range of set pressure | 0,5 ÷ 16 bar | 0,5 ÷ 16 bar | 0,5 ÷ 16 bar | 0,5 ÷ 16 bar | 0,5 ÷ 16 bar |
| Protection degree | IP65 | IP55 | IP65 | IP55 | IP55 |
| Input transducer | 4-20 mA | 4-20 mA | 4-20 mA | 4-20 mA | 4-20 mA |
| Max environment temperature | 50 °C | 50 °C | 50 °C | 50 °C | 50 °C |
| Net weight (without cables) | 4 kg | 4,5 kg | 3 kg | 3,5 kg | 4,5 kg |
| Cooling system | Natural Convection | Forced Convection | Natural Convection | Forced Convection | Forced Convection |
| | i/o: ~1/~3 | | i/o: ~1/~1 | | i/o: ~3/~3 |

CONTROL PANEL



Control panel includes LCD screen, warning leds, push-buttons, START-STOP, AUTOMATIC and configuration system.

SAFETY SYSTEMS

- Control and safety system against overload.
- Electronic control and safety system against dry-running operation.
- Control and safety system against wrong supply voltage.
- Control and safety system against short-circuit between output phases

DIMENSIONS

