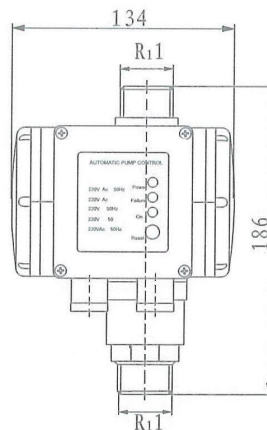


Model: 3251 Automatic Water Pump Control

FEATURES

- Input voltage 100-240V AC 50/60Hz.
- Max. current 16(8)A.
- Protection grade IP65.
- Maximum working pressure 10 bar (1MPa).
- Maximum working temperature 55° C.
- Connections R1" (ISO 7/1).
- Starting pressure 1,5 bar (0,15MPa).
- Minimum flow 2,5l/min.
- Pump maximum power 1,5HP (1,1kw).



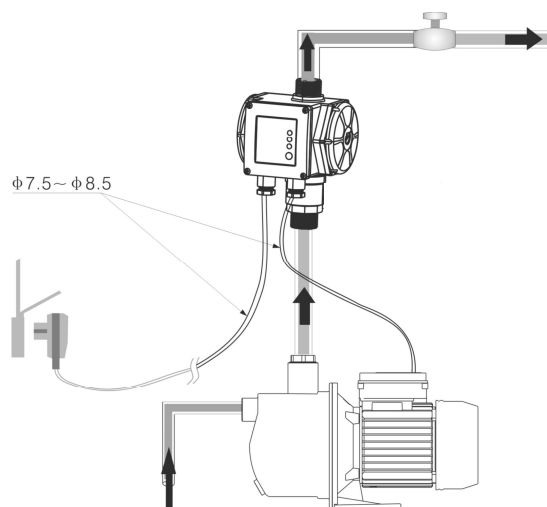
Ref.	Size	PN	Starting pressure (bar)	The height of water column (H)	Weight (g)
3251	1"	10	1,5 (0,15 MPa)	≤ 35 m	824

DESCRIPTION

This pressure controller is designed for the automatic water supply system in family garden, swimming pool or daily water consumption. It orders the automatic start and stop of the water pump according to the changing pressure and water flow. It protects the pump from being damaged during water absence.

INSTALLATION & PILOT RUN

1. The electronic controller can be mounted anywhere between the pump and the first outlet with good sealing and have to ensure the sealing up of the connecting parts. It is imperative to install the unit with the arrows in the upward position.
2. Special tools are recommended in installation and disassembly to ensure qualified installation and to avoid any damage.
3. During installation if the pump is placed higher than the priming level, a check valve must be mounted on the suction pipe to ensure that the pump can be primed for the first time operation and meanwhile prevent the evacuation of the pipeline after the pump stops working.
4. The pressure produced by the pump must be normally 0.8 bars higher than the pre-set pressure. The inlet of the controller must be equipped with a pressure relief valve if the starting pressure is higher than 10 bar.
5. If the controller is attached with lead, it can just be connected to power supply through its plug and to the pump through the joint of its socket with pump plug. In other cases, H07RNF cable with rubber jacket at diameter around $\varnothing 7.5\text{-}\varnothing 8.5$ shall be adopted in connection by following the wiring scheme on the PCB cover after opening of the panel board.
6. The pressure control is preset at 1.5bar, an optimized value for most of pumps.
7. Prime the pump and the pipeline after pipe and electrical connection are completed and energized, then the pump will start.
8. Normal water flow from the tap (minimum flow not less than 2.5L/Min) indicates the correct installation of the equipment.
9. Pump shall stop automatically within several minutes after all the taps are closed.



DISPLAY & FUNCTIONING

- **The green LED:** when the unit is connected to the electrical network after pipeline and electrical connection is completed, the green LED lights up indicating that the pump has been started.
- **The yellow LED:** the yellow LED will light up two seconds after the green LED after power connection and the pump starts with the controller monitoring automatically. If tap is open at this time, water runs normally from pump. If all taps are closed, the yellow LED lights on for ten seconds and then off after glittering and meanwhile the pump stops working.
- **The red LED:** If there is water absence from the inlet whenever in starting or normal operation, pump will continue to work for several seconds before it stops and converts to standby condition after the glittering red LED and can only be restarted by pressing "RESTART" button.

MAINTENANCE & OPERATION

1. If there are sediments contained in the water, a filter must be installed in the inlet of the pump.
2. Mold and scrap iron are not allowed to be in the water or the service life of the controller will be affected and even the functions of the controller will be destroyed.
3. Please unplug the controller if is not going to be used for a long time.

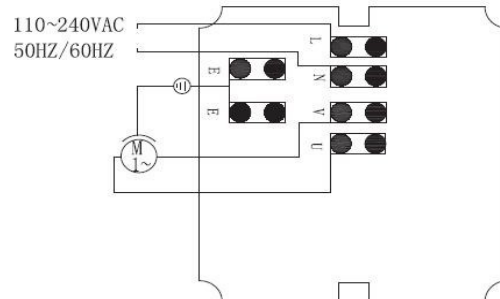
CAUTION

1. Always cut off the power before maintenances and repairs.
2. If the system is to be used in swimming pool, garden or surroundings like this, an appropriate circuit-breaker (RCD) must be installed before connection to the pump. Pressure control and the attached plug and socket shall not be put in places subject to flooding or raining.

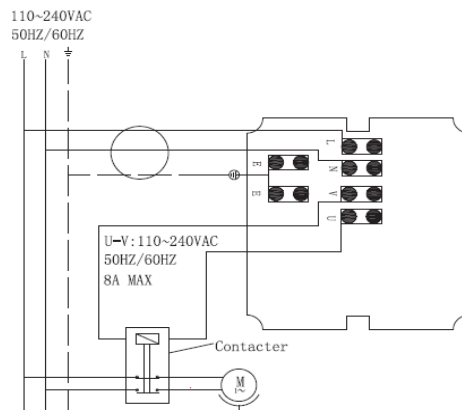
WARNING: Please open the nearest tap to the controller to discharge the retained pressure in the pipeline if disassembling the controller after pump stops.

Wiring Diagrams

Wiring diagram to connect 230 V single phase pumps up to 1.1 kW (1,5 HP).



Wiring diagram to connect 230 V single-phase pumps over 1.1 kW (1,5 HP) through a contactor switching. (Specifications for main contactor: Minimum capacity of 4 kW or contact approx 5.5 Hp, 230 V).



Wiring diagram for connecting three-phase 380 V pumps through a contactor switching. (Specifications for main contactor: Minimum capacity of 4 kW or contact approx 5.5 Hp, 230 V).

