

HERTZ ONE

ELECTRIC CONTROL PANEL WITH INVERTER



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The HERTZ ONE control panel is an automatic control and protection system for one electric centrifugal pump equipped with three phase or singlephase motors.

The control panel power supply can be three phase or single phase.

The HERTZ ONE control panels include a pump control software and allow regulation of motor speed via an electronic frequency changer (INVERTER) that powers the pump motor. On varying the rotation speed, the pump performance varies in terms of flow rate and head, allowing optimal use in every condition and saving energy.

TECHNICAL DETAILS

- Energy saving: the controller modulates the pump according to the hydraulic energy request of the plant with respect to a direct connection in the network
- Quicker and improved regulation
- Hammering reduced thanks to gradual start-up and stop
- Improved comfort in the heating, air conditioning and pressure boosting systems
- Reduced peak current

TECHNICAL DATA

- Current limits for 60 seconds 1.6 times the current set for 60 seconds. Automatic restore for three times, manual restore on the fourth intervention
- Limits of use (environment temperature): from -10°C to +40°C
- IP55 Protection rating
- Conformity to the CE mark, EN 60204-1; Security electrical equipment. - EN 60439-1; Switchgear and controlgear assemblies. EMC standards applied:
 - CEI EN 61000-6-1; immunity for residential, commercial, and lightindustrial environments.
 - CEI EN 61000-6-2; industrial immunity.
 - CEI EN 61000-6-3; emission for residential, commercial and lightindustrial environments.
 - CEI EN 61000-6-4; industrial emission.
 - CEI EN 61000-3-2; harmonic current emission $\leq 16A$ (use XL.L line inductance to be installed on request, see ref. 8.1, 8.2). Emissions: conformity for residential environments. Immunity: conformity for industrial environments.
- Recommended minimum output frequency: 30 Hz
- Power supply voltage (single phase version): 230V +10% -15%
- Power supply voltage (three phase version): 400V +10% -15%
- Number of pumps that can be connected: 1
- Motor power: from 0.25 kW to 4 kW