



The iCON iDRIVE 31850 is a variable speed drive to enhance the performance of three phase water pumps up to 18.5 kW, not exceeding 37A. The drive has 415V three phase input.

The iCON iDRIVE eliminates the requirement for large pressure tanks and pressure switches used for automatic operation as well as associated pressure cycling.

The iCON iDRIVE provides both the ability to conserve energy through only operating the pump according to the speed required to maintain constant pressure and further allowing for multiple set points to be met.

The iCON iDRIVE is equipped with an easy to use LCD display and is completely designed and built for controlling pump systems from the ground up.

IP55. Mounting bracket included.

A Pressure Transducer 802680 4-20mA, 1mPa is required for operation.

- Professional design based on users' needs, simplicity of operation and suitable for all kinds of applications.
- According to the water condition to supply constant pressure water without manual operation after parameters are set correctly.
- Stop running automatically when there is no water consumption and Alarm automatically when faults occur.
- Alternate running automatically in multiple pump systems prolonging the life of pumps.
- Adapts to many kinds of inputs.

Features:

- Constant water pressure.
- Optimises pump performance.
- Soft start, low motor start current.
- No large pressure tank required.

Protection:

- Dry run protection.
- High and low voltage protection.
- Input and output short circuit protection.
- High and low water pressure protection.
- Input and output phase failure protection.
- Over temperature protection.
- Sensor fault protection.

Conformity:

- Verification of EMC compliance certificate no. AC/0410709 to EN 61326-1:2006, EN 61000-3-2:2005, EN 61000-3-3:1995+A1:2001+A2:2005.
- Verification of LVD compliance certificate no. AC/0420709 to EN 61010-1:2001.

2 Year iCON Series Drive Warranty

Technology Features - Input & Output

- * Input Voltage Range 415±15%
- * Input Frequency Range 47~63Hz
- * Output Voltage Range 0~rated input voltage
- * Output Frequency Range 0~50/60Hz
- * Digital Switch Input 3 input
- * Analogue Signal Input - AI1:0~10V or 0~20mA input; AI2: 0~10V or 0~20mA input
- * Relay Output A pair of switched Outputs

Function Characteristics

- * Multi-Pump Control - Can realize 1 master and Max. 5 auxiliaries to combine work
- * Sleep Function - Sleep down when there is no water consumption, to earn a better energy saving
- * Freeze-Proofing Function - Suitable for low temperature area, prevent pump from freezing
- * Anti-clogging Function - take precaution against pipe clogging and clean the pipe dirt
- * Power On Restart - Running automatically when power on
- * Master Fault Shift Automatically - keep on working when the master is not working
- * Alternate Running - balance every pump's running time, prolong service life of the whole unit machine
- * Day-Part Function - 3 independent day-part control, up to 7 day-part achieved when defined
- * Two Running Mode - synchronous control mode, master-slave control mode
- * Terminal Control Mode - Terminal Run/Stop, Manual/ Auto Control, Electronic Contact Gauge Control
- * Various water supply Fault Alarm Functions: High-Pressure, Low-Pressure, Low-Level, Transducer Error etc.
- * As many as 22 kinds of fault protection function: Over-Current, Over-Voltage, Low-Voltage, Phase-Failure, Over-Load etc.