

**Smartwater**



# SMART PUMP CONTROLLER



## Smartwater

**BHC 122, AC220V/50Hz, 0.37 - 2.2KW**

### MAIN INTRODUCTION

BHC122 is an easy to use simple and reliable smart single-phase pump control and protection device, which can be widely used to control and protect deep well pump, sewage pump, self-priming pump, centrifugal pump, pipeline pump, etc.

### MAIN TECHNICAL DATA

- Start type: DOL (Direct on line)
- QTY of controller pump: Single pump control
- Support external sensing devices:
  - Float switch (ON/OFF)
  - Pressure switch (ON/OFF)
  - Liquid probe
  - PT100 temperatur sensor (Separate PT100 temperature sensor expansion module required)
- Capacitor: reserved space for insalling start capacitor
- Rated input voltage & output power



Max Motor Output at AC 220V / 1Phase		Capacitor	Full Load (A)	Max Starting (A)
HP	kW	Uf		
0.5	0.37	16	12A	60A
0.75	0.55	20		
1.0	0.75	30		
1.5	1.10	40		
2	1.50	60		
3	2.20	70		

### OTHER FEATURES

- Pure cycle timer control
- Pump stop timer under manual control state
- Auto / Manual operation
- Interactive LCD displays pump running information
- Easy calibration by push of button
- Pump accumulative running time display
- Pump last five fault record displaying
- Protection with adjustable parameters
- Memory function when power off & power recovery
- Reliable and stable quality electronic components

### PROTECTION FUNCTION

- Dry run protection
- Pump stall protection
- Overload protection
- Under voltage protection
- Over voltage protection



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**BHC 340,AC380V/50Hz, 0.37 - 4.0kW**

**BHC 375,AC380V/50Hz, 5.50 - 7.5kW**

### MAIN INTRODUCTION

BHC340 & 375 is an easy to use simple and reliable smart three-phase pump control and protection device, which can be widely used to control and protect deep well pump, sewage pump, self-priming pump, centrifugal pump, pipeline pump, etc.

### MAIN TECHNICAL DATA

- Start type: DOL (Direct on line)
- QTY of controller pump: Single pump control
- Support external sensing devices:
  - Float switch (ON/OFF)
  - Pressure switch (ON/OFF)
  - Liquid probe
  - PT100 temperatur sensor (Separate PT100 temperature sensor expansion module required)
- Rated input voltage: AC380V-400V 50Hz/60Hz, Three phase
- Rated output power: 0.37kW-4kW / 5.5kW-7.5kW



Max Motor Output at AC 380V / 3Phase		Full Load (A)	Max Starting (A)
HP	kW		
0.5	0.37	12A	60A
0.75	0.55		
1.0	0.75		
1.5	1.10		
2	1.50		
3	2.20		
4.0	3.0		
5.5	4.0	18A	90A
7.5	5.5		
10	7.5		

### OTHER FEATURES

- Pure cycle timer control
- Pump stop timer under manual control state
- Auto / Manual operation
- Interactive LCD displays pump running information
- Easy calibration by push of button
- Pump accumulative running time display
- Pump last five fault record displaying
- Protection with adjustable parameters
- Memory function when power off & power recovery
- Reliable and stable quality electronic components

### PROTECTION FUNCTION

- Dry run protection
- Pump stall protection
- Overload protection
- Under voltage protection
- Over voltage protection
- Open phase protection
- Phase reversal protection

# SMART PUMP CONTROLLER



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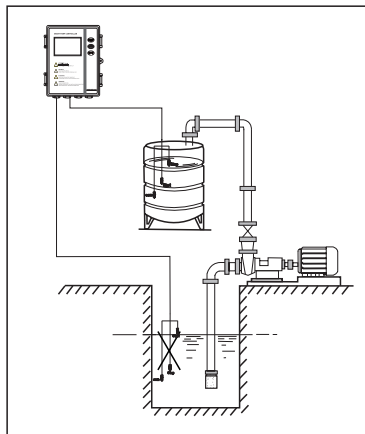
### BHC

#### APPLICATION

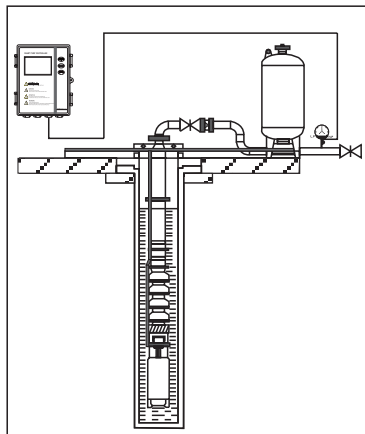
- Applied for water transfer from low tank to upper tank by liquid probe or float switch
- Applied for booster by pressure switch & pressure tank
- Applied for sewage lifting by liquid probe or float switch

#### TYPICAL APPLICATION EXAMPLE

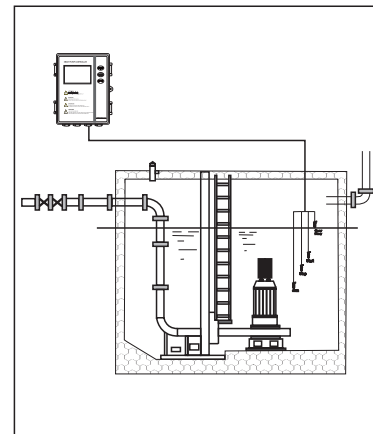
Feed water / Water transfer



Pressure boosting



Drainage / Sewage



#### MAIN INSTALLATION DATA

- Degree of protection: IP65
- Working temperatur: -25°C to +55°C
- Working humidity: 20%-90%RH
- Installation position: Vertical (Wall mounting)
- Unit dimensions (LxWxH): 240\*180\*115mm
- Aprox unit weight(net): 1.168kg

