

B600 Series

Product Brief:

B600 Series intelligent constant pressure water pump controller is specially designed for small booster pumps which has excellent waterproof function. Its ingenious design reduces the vibration and prolong the life of controller.



Main Features:

- ◆ Automatic control of constant water pressure
- ◆ Set the pressure on keypad directly
- ◆ PID control unmanned automatic monitoring of water pumps stopped function(dormant)
- ◆ No need to configure the PLC can realize automatic alternating pump function
- ◆ Power outages or low water level automatically activated after the restore operation
- ◆ Cooling fans start and stop is controlled by the internal temperature to extend fan service life
- ◆ Multi-pumps linked run-time ,regular rotation as the master pump,so that then pump balanced working hours to prevent the pump speed of die wear and rust
- ◆ Apply to the use of cold regions of antifreeze function,the appliation of cold winter arears
- ◆ Adequate operation status monitoring and comlete motor protection features,simple operation,compact size to save space
- ◆ To adapt to variety of sensor signals
Pressure sensors ,transmissible pressure gauge,electric contact pressure gauges and pressure switch

Applications:

Water pump,constant pressure water supply,Application – specific control temperature transmitter can be connected

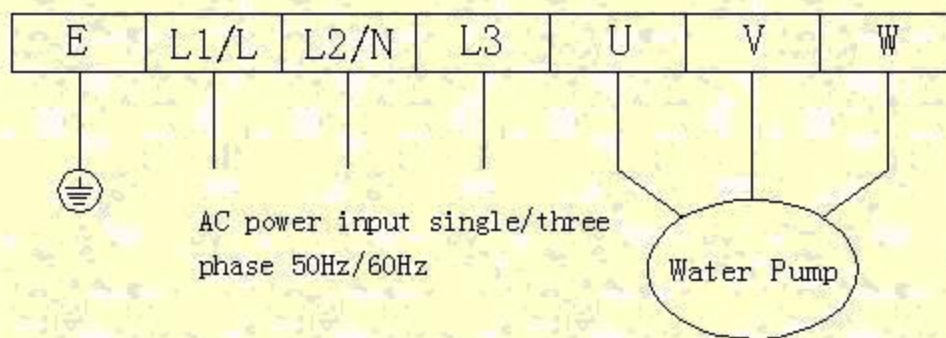
Power Range:

Single phase 220V 0.5HP – 7HP(0.37 KW - 5.5KW)
Three phase 220V 1HP – 7HP(0.75KW – 5.5KW)
Three phase 380V 1HP -10HP(0.75KW – 7.5 KW)

Specification:

B600 series	2001	2002	2003	2005	2007	
Voltage	1 or 3φ 200V – 240V			3φ 200V – 240V		
Capacity(KW)	0.75	1.5	2.2	3.7	5.5	
Rated output vol (V)	3φ 220V – 240V					
Rated output current(A)	4.3	7.0	10.5	14	19.6	
B600 series	4001	4002	4003	4005	4007	4010
Voltage	3φ 380V – 440V					
Capacity(KW)	0.75	1.5	2.2	3.7	5.5	7.5
Rated output vol (V)	3φ 380V – 440V					
Rated output current (A)	2.2	4.1	5.8	9.5	13	16
Control mode	Sine wave PWM control					
Output frequency range	Maximun 500HZ					
Frequency resolution	Analog input volume : 0.1 HZ					
Overloading capacity	Rated output current 150% - 1minute 175% -2 seconds					
Transmitter signal	4~20mA/0~10V					
No. of V/F Patterns	Random V/F curve					
Location	Indoor (Protected from corrosive gases and dust)					
Ambient temperature	-10~40° (if beyond the allowable degree,on degree will derogate 5% output current)					
Storage temperature	-40~60°					
Environmental temperature	95% (witout dew gather)					
Vibration	2M/S²(0.2G)					
Protection rare	IP51					

Main Circuit Diagram:



Controlling Terminal Connection Diagram:

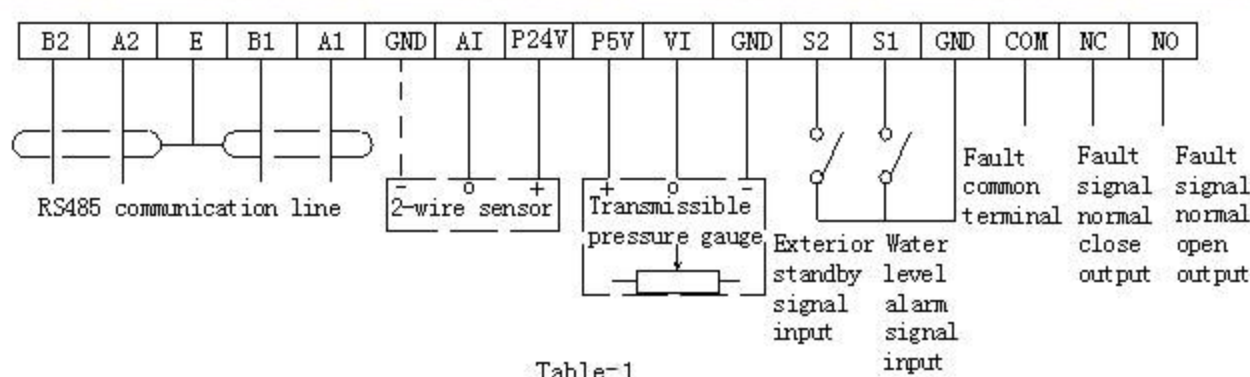


Table-1

◆Detailed parameters please refer to user manual.

B601 Series(single phase input/output)

Product Brief:

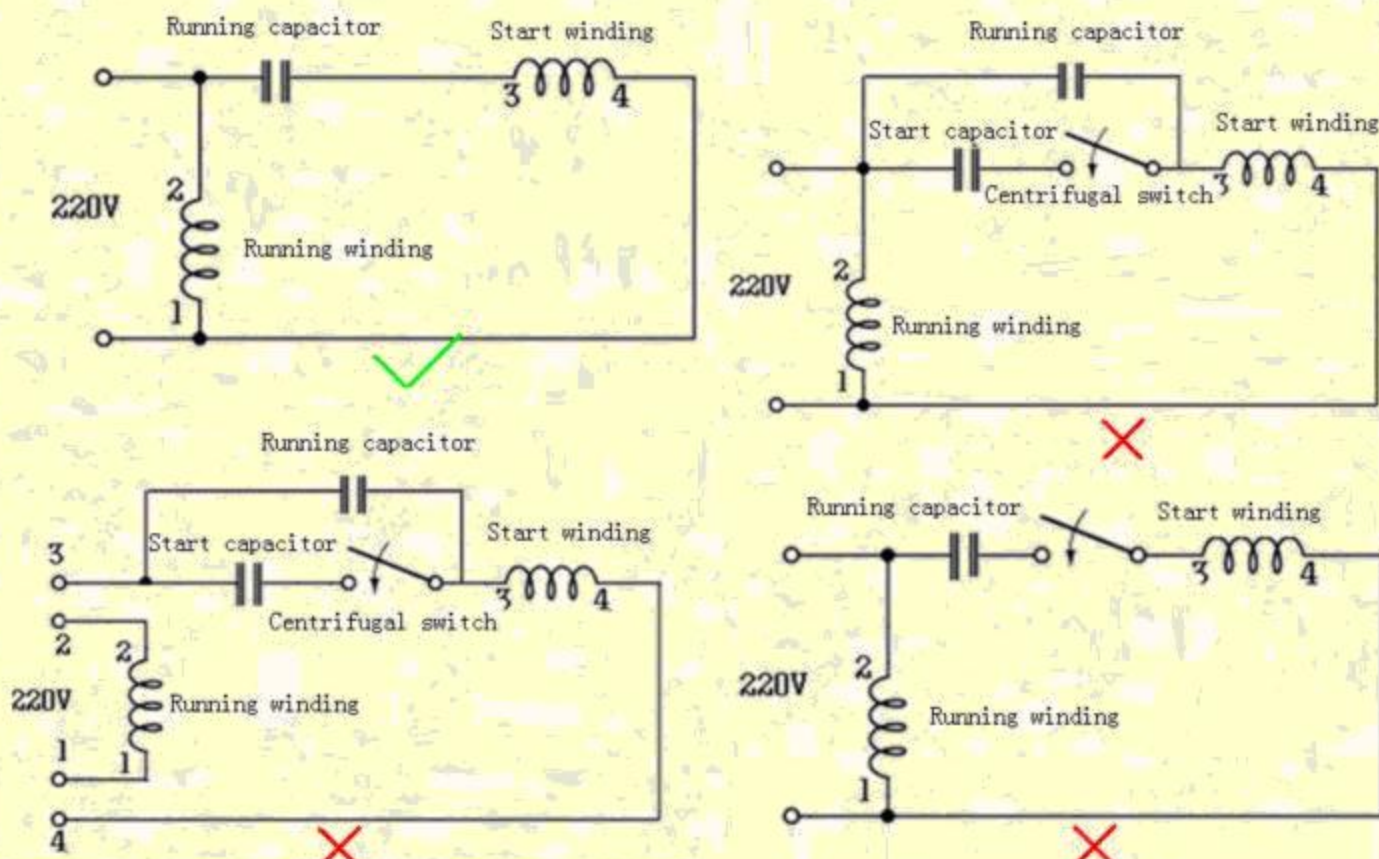
With high quality, multi-functional, low noise and strong commonality etc. characteristics, B601 series intelligent constant pressure water supply controller is suitable to full-automatic operation and B601s haven't special demands to peripherals, it almost can be use the normal component.

Main Features:

- ◆ Sleep Function : No water consumption pump decelerates to the lower limit and after a detection then sleep down. Until the pressure below settings, master wake up automatically.
- ◆ Restarts After Power on: Power off during running, it restarts when power on again
- ◆ Anticlogging Function: Just designed for single pump, the pump run REV/FWD alternate
- ◆ Day-Part Control: Devide one day into several day-part to run a private pressure respectively. Considered input side water pressure limit, once input water pressure is less than setting pressure, stop running; while up to setting, recover running.
- ◆ Terminal Run/Stop : Can be lead to external switch from terminal. When switch on, pump run and maintain a setting constant pressure; when switch off, pump stopped.
- ◆ Electric contact Control: Two terminals switch on COM instruct the controller to accelerate and decelerate respectively. Can used for realize the pump running in a switch setting pressure range.
- ◆ Electrical fault protection: When there is an overcurrent, overvoltage, undervoltage, phase loss, overload etc ,the Controller will alarm and stop automatically.



Applicable to:



Applications:

Hotel, Department stores, Residential area, High-rise building, Orchard, Office, Water treatment equipment etc

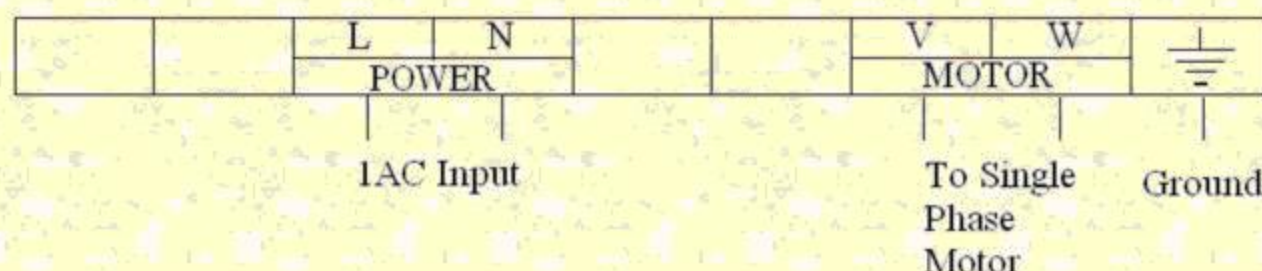
Power Range:

Single phase 220V input/output 1HP – 3HP(0.75KW – 2.2KW)

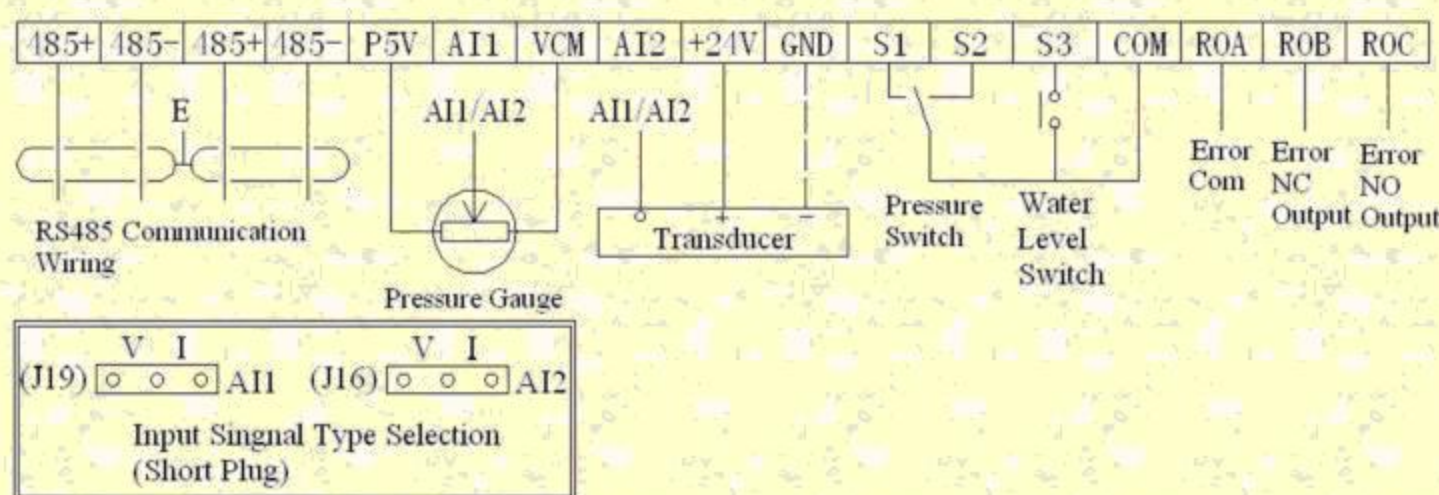
Specification:

Model No.	Rated Input Voltage (V)	House Power (HP)	Rated Output Current (A)	Motor Power (KW)
B601-2001	1AC: 220V -15%~+15%	1.0	5.3	0.75
B601-20015		1.5	6.5	1.1
B601-2002		2	9.6	1.5
B601-2003		3	14	2.2

Main Circuit Terminals Wiring



Control Circuits Terminals Wiring



◆Detailed parameters please refer to user manual.

B602 Series

Product Brief:

B602 series intelligent constantly pressure water supply controller, with advantage of waterproof, unique design, lower noise and long service life, is specially designed to miniature booster pump.

Main Features:

- ◆ LCD display
- ◆ Built-in PID control
- ◆ Miniature and able to be mounted on the motor directly
- ◆ Easy operation, with pressure modification function
- ◆ Automatic control constant pressure water supply
- ◆ Set the pressure on keypad directly
- ◆ Auto memory restart after power-off, no impact to the motor
- ◆ Abundant protection from under voltage, over voltage, over current and overheat etc
- ◆ Automatically stop if no water supply, able to restart when water supply recover



Applications:

Villa, residential area, large sauna, farm, food processing factory

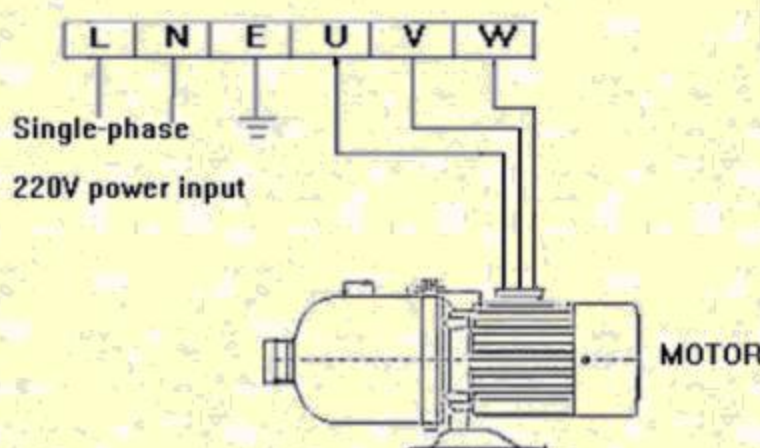
Power Range:

Single phase 200~240V 0.5HP – 1.5HP(0.37 KW - 1.1KW)

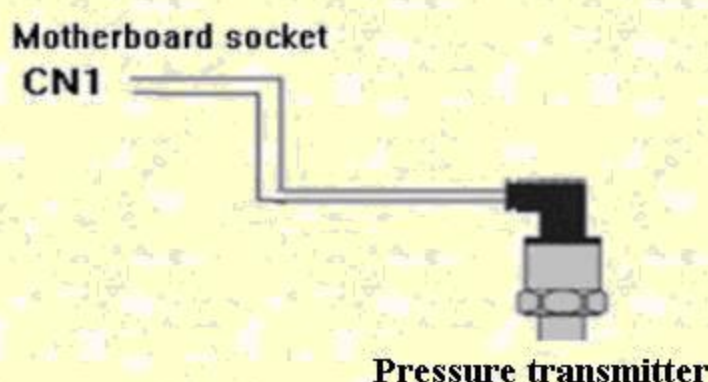
Specification:

MODE SPEC	B602S-BMF2-30	B602S-BMF2-50	B602S-BMF2-60	B602S-BMF4-30	B602S-BMF4-40	B602S-BMF4-50	B602S-BMF4-60
Power	Input: single phase 220V/50Hz, Output: three phase 220V/50Hz						
Input(W)	520	750	960	960	960	1380	1100
Output (W)	370	550	750	750	750	1000	1100
Current(A)	1.70	2.40	3.10	3.10	3.10	4.20	4.50

Main Circuit Diagram:



Controlling Terminal Connection Diagram:



B603 Series

Product Brief:

With high quality, multi-functional, low noise and strong commonality etc. characteristics, B603 series intelligent constant pressure water supply controller specifically for water users design, suitable for water pump automatic control, it is the ideal constant pressure water supply equipment.

Main Features:

- ◆ Multi-Pump control function: After take a correct connection and parameter settings, B603 can be realized one master, max.5 slaves control. The controllers via the RS485 communication interface themselves based on ModBus protocol to realize the Master-slave control.
- ◆ Master Fault Shift Automatically: Master break down with a fault which can not control the auxiliaries before maintenance, the backup master will turn into a master and controls the left auxiliaries to continue the constant pressure water supply
- ◆ Terminal Run/Stop: Can be lead to external switch from terminal. When switch on, pump runs and maintains a setting constant pressure; when switch off, pump stops.
- ◆ Electronic contact gauge control :Two terminals switch on COM instruct the controller to accelerate and decelerate respectively. Can used for realize the pump running in a switch setting pressure range.
- ◆ Restarts after power on: power off during running, it restarts automatically when power on again
- ◆ Alternate function: alternate to act as the main running pump

Applications:

hotel、 Department stores 、 Residential area、 High-rise building、 Orchard、 Office、 Water treatment equipment etc


Power Range:

Single phase 220V 1HP – 3HP(0.75 KW – 2.2KW)
Three phase 220V 1HP – 75HP(0.75KW – 55KW)
Three phase 380V 1HP -470HP(0.75KW – 350KW)


Specification:

Model No.	Rated Input Voltage (V)	Rated Input Current (A)	Rated Output Current (A)	Motor Power (KW)
B603-20005	1AC: 220V -15%~+15%	5.4	2.3	0.4
B603-2001		8.2	4.5	0.75
B603-2002		14.2	7.0	1.5
B603-2003		23.0	10	2.2
B603-2001	3AC: 220V -15%~+15%	5.0	4.5	0.75
B603-2002		7.7	7.0	1.5
B603-2003		11.0	10.0	2.2
B603-2005		17.0	16.0	3.7
B603-2007		21.0	20.0	5.5
B603-2010		31.0	30.0	7.5
B603-2015		43.0	42.0	11
B603-4001	3AC: 380V -15%~+15%	3.4	2.5	0.75
B603-4002		5.0	3.7	1.5
B603-4003		5.8	5.0	2.2
B603-4005		10.0	9.0	4.0
B603-4007		15.0	13.0	5.5
B603-4010		20.0	17.0	7.5
B603-4015		26.0	25.0	11
B603-4020		35.0	33.0	15
B603-4025		38.0	37.0	18.5
B603-4030		46.0	45.0	22
B603-4040		62.0	60.0	30
B603-4050		76.0	75.0	37
B603-4060		92.0	90.0	45
B603-4100		140	150	75
B603-4020		160	176	90
B603-4150	210	210	110	
Other specifications,please check with factory.				



Main Circuit Terminals (380VAC)

(+)	PB	R	S	T	U	V	W	
				POWER			MOTOR	



1.5~2.2KW Main circuit terminals

(+)	PB	(-)	R	S	T	U	V	W	
			POWER			MOTOR			

4~7.5KW Main circuit terminals


	(+)	PB	(-)	R	S	T	U	V	W	
				POWER			MOTOR			

11~18.55KW Main circuit terminals

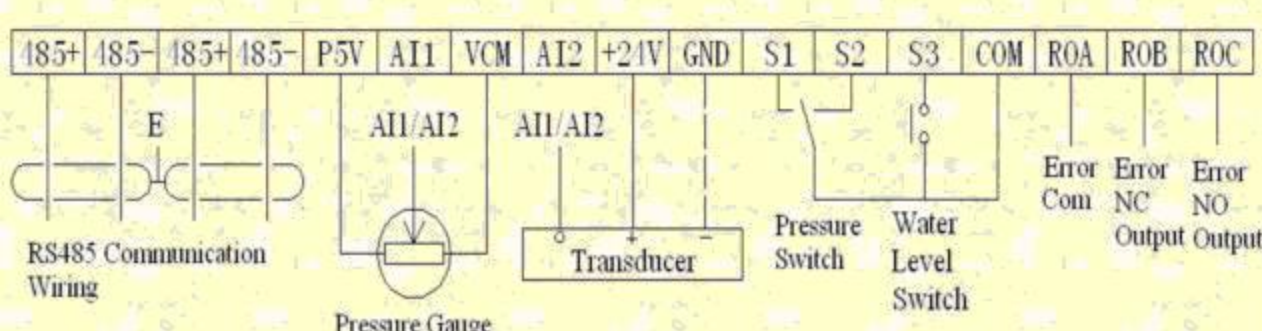
	R	S	T	P1	(+)	(-)	U	V	W	
				POWER			MOTOR			

22~55KW Main circuit terminals

Main Circuit Terminals Description

Terminal Symbol	Function Description
R、S、T	Terminals of 3 phase AC input
(+)、(-)	Spare terminals of external braking unit
(+)、PB	Spare terminals of external braking resistor
P1、(+)	Spare terminals of external DC reactor
(-)	Terminal of negative DC bus
U、V、W	Terminals of 3 phase AC output
	Terminal of ground (PE)

Control terminals overall connect



◆Detailed parameters please refer to user manual.

B605 Series

Product Brief:

B605 series controller is designed for central air conditioning water circulation system to achieve constant pressure difference control , it can confirms the system adapt to the variable air-conditioning load. It is reaction rapidly, little temperature and humidity influence, balance the system’s supply and demands, do well in energy-saving, and so on.

Main Features:

- ◆ Relay Output: 2 Output
- ◆ Programmable Analog Input: AI1:0~10V or 0~20mA input, AI2: 0~10V or 0~20mA input
- ◆ Multi-Pump Control: can realize 1 master and 5 auxiliary combine work at most
- ◆ Constant Differential Pressure Control: PID control based on the feedback source of (AI1-AI2);
- ◆ Power On Restart: Running automatically when power on
- ◆ Alternate Running balance every pump’s running time, prolong service life of the machine
- ◆ Various of water supply Fault Alarm Function: 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.



Applications:

Central air conditioning circulating system

Power Range:

- Single phase 220V 1HP – 3HP(0.75 KW – 2.2KW)
- Three phase 220V 1HP – 75HP(0.75KW – 55KW)
- Three phase 400V 1HP -470HP(0.75KW – 350KW)

Specification:

Model No.	Rated Input Voltage (V)	Rated Input Current (A)	Rated Output Current (A)	Motor Power (KW)
B605-20005	1AC: 220V -15%~+15%	5.4	2.3	0.4
B605-20001		8.2	4.5	0.75
B605-20002		14.2	7.0	1.5
B605-20003		23.0	10	2.2
B605-2001	3AC: 220V -15%~+15%	5.0	4.5	0.75
B605-2002		7.7	7.0	1.5
B605-2003		11.0	10.0	2.2
B605-2005		17.0	16.0	3.7
B605-2007		21.0	20.0	5.5
B605-2010		31.0	30.0	7.5
B605-2015		43.0	42.0	11
B605-4001	3AC: 380V -15%~+15%	3.4	2.5	0.75
B605-4002		5.0	3.7	1.5
B605-4003		5.8	5.0	2.2
B605-4005		10.0	9.0	4.0
B605-4007		15.0	13.0	5.5
B605-4010		20.0	17.0	7.5
B605-4015		26.0	25.0	11
B605-4020		35.0	33.0	15
B605-4025		38.0	37.0	18.5
B605-4030		46.0	45.0	22
B605-4040		62.0	60.0	30
B605-4050		76.0	75.0	37
B605-4060		92.0	90.0	45
B605-4100		140	150	75
B605-4020		160	176	90
B605-4150	210	210	110	
Other specifications,please check with factory.				

Main Circuit Terminals

1AC 220V main circuit terminals:


		L	N		U	V	W	
		POWER			MOTOR			

Figure 1 220V 1AC 0.75~2.2KW Main circuit terminals

3AC 380V main circuit terminals:


		R	S	T	U	V	W	
		POWER			MOTOR			

Figure 2 1.5~2.2KW Main circuit terminals


(+)		(-)	R	S	T	U	V	W	
			POWER			MOTOR			

Figure 3 4~7.5KW Main circuit terminals



	(+)		(-)	R	S	T	U	V	W	
				POWER			MOTOR			

Figure 4 11~18.5KW Main circuit terminals




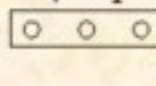
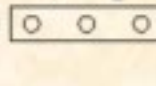
	R	S	T	P1	(+)	(-)	U	V	W	
	POWER						MOTOR			

Figure 5 22~75KW Main circuit terminals

Main Circuit Terminals Description

Terminal Symbol	Function Description
R、S、T	Terminals of 3 phase AC input
(+)、(-)	Spare terminals of external braking unit
(+)、PB	Spare terminals of external braking resistor
P1、(+)	Spare terminals of external DC reactor
(-)	Terminal of negative DC bus
U、V、W	Terminals of 3 phase AC output
	Terminal of ground (PE)

Control Circuit Terminals

(J19)  AI1		(J16)  AI2		485+	485-	P5V	AI1	VCM	AI2	+24V				
				485+	485-	GND	S1	S2	S3	COM	ROA	ROB	ROC	

Figur 6 1.5~2.2KW Control circuit terminals

												ROA	ROB	ROC
485-	485+	485-	485+	P5V	AI1	VCM	GND	COM	AI2	+24V	S1	S2	S3	

Figure 7 4KW and above Control circuit terminals

◆Detailed parameters please refer to user manual.

B606 Series

Product Brief:

B606 series controller with remote monitoring is a self-developed product with remote monitoring ,high performance, high quality, multi-functional automatic constant pressure water supply equipment .The controller uses a color of long-life, high brightness LCD touch screen, can display in both Chinese and English and high-precision control, parameter setting and running state stick out a mile.It can be automatically adjusted to meet the requirements of customers'constant pressure variable water supply. At the same time, using the Internet resources, we can remote monitor and control real-time running state through upper computer. The whole water supply system always keep the best state of high efficiency and energy saving. Moreover,Alternate running automatically in the multiple pump system, prolong the using life of pumps.This controller is widely used, simple operation,is the best choice for a modern water supply equipment.



Main Features:

- ◆ Use a color of long-life, high brightness LCD touch screen to display Parameter setting, running state
- ◆ Built-in network interface, can be connected to the LAN and the Internet, remote operation, monitoring and maintenance ,convenient system management.
- ◆ Can realize remote monitoring and interactive operation through the GPRS module.
- ◆ Multi-Pump Control: Can realize 2 or 3 pumps combine work;
- ◆ Build in multi-language Human interface;
- ◆ Sleep function: Sleep down when have no water consumption, to earn a better energy saving;
- ◆ Power on restart: Running automatically when power on
- ◆ Master Fault Shift Automatically: frequency inverter can keep on working when the master break down.
- ◆ 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 define separated;
- ◆ Two Running Mode: synchronous control mode, master-slave control mode;
- ◆ Various of water supply Fault Alarm Function: High-Pressure, Low-Pressure, Low-Level, Transducer Error etc.
- ◆ Automatically record the fault function : Real-time record the occurrence time of fault, to facilitate the analysis of fault;
- ◆ Easy adustment and quick installation.

Applications:

Hotel、 Department stores 、 Residential area、 High-rise building、 Orchard、 Office、 Water treatment equipment etc

Power Range:

Three phase 220V 5HP –10HP(3.7 KW – 7.5KW)
Three phase 380V 5HP - 25HP(4KW – 18.5KW)

Specification:

Model No.	Rated Input Voltage (V)	Rated Input Current (A)	Rated Output Current (A)	Motor Power (KW)
B606-2005-2	3AC: 220V -15%~+15%	34.0	16.0*2	3.7*2
B606-2007-2		42.0	20.0*2	5.5*2
B606-2010-2		62.0	30.0*2	7.5*2
B606-2005-3		51.0	16.0*3	3.7*3
B606-2007-3		63.0	20.0*3	5.5*3
B606-2010-3		93.0	30.0*3	7.5*3
B606-4005-2	3AC: 380V -15%~+15%	20.0	9.0*2	4.0*2
B606-4007-2		30.0	13.0*2	5.5*2
B606-4010-2		40.0	17.0*2	7.5*2
B606-4015-2		52.0	25.0*2	11*2
B606-4020-2		70.0	33.0*2	15*2
B606-4025-2		76.0	37.0*2	18.5*2
B606-4005-3		30.0	9.0*3	4.0*3
B606-4007-3		45.0	13.0*3	5.5*3
B606-4010-3		60.0	17.0*3	7.5*3
B606-4015-3		78.0	25.0*3	11*3
B606-4020-3		105.0	33.0*3	15*3
B606-4025-3		114.0	37.0*3	18.5*3
Other specifications,please check with factory.				

◆Detailed parameters please refer to user manual.