

Products Catalog

Inverter / Soft Starter / Control Panel
Intelligent Water Supply Controller
Inverter Optional Parts



WENZHOU ZIRI ELECTRICAL TECHNOLOGY CO.,LTD.

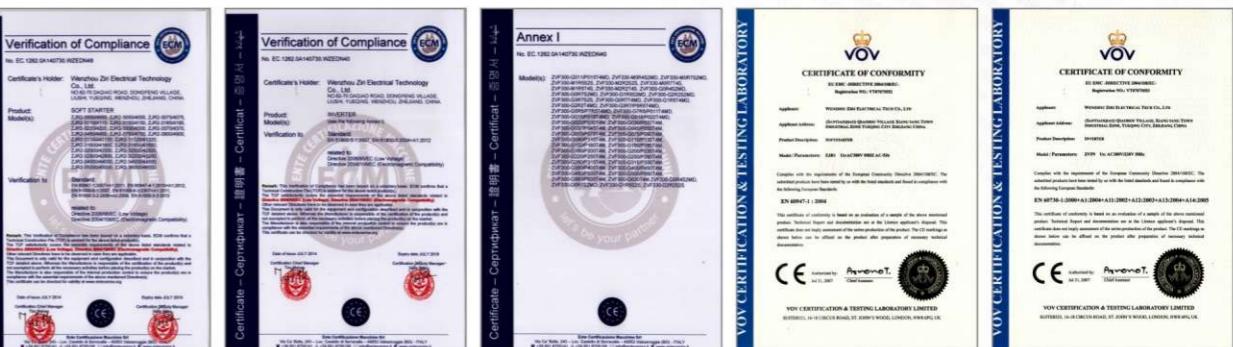
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ZIRI ELECTRICAL TECHNOLOGY CO.,LTD.

CHZIRI Certificate



CHZIRI Clients



Company Introduction About US

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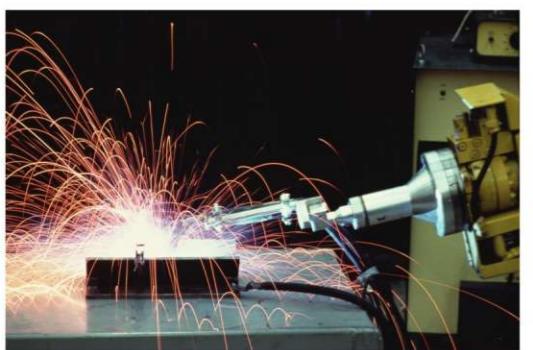
ZIRI Electrical Technology Co.Ltd. is engaged in R&D, manufacture ,sale .distribution and service of electric frequency drive , soft starter and control products .Professional and experience supplier of automation solution for multiple field . It is a Hi-Tech enterprise conveniently located the golden area of Liushi, Wenzhou , which is the capital city of electrical appliance in China .

The main products includes general –purpose inverters , special –purpose inverters for pump and fan , soft starter , control cabinet, breaking unit and other inverter accessories which has characteristic of advanced technology , complete function , stable running , simple operation , fine energy saving and excellent performance and so on . The products are widely applied to the various industries ,metallurgy , plastic, textile,food,papermaking.drugsmanufacture,printing,construction material,cement,oil, chemical industry mining . transmission device ect.

At present, ZIRI Electrical has become the top professional manufacturer that devotes to researching, developing, producing and marketing frequency inverter and soft starters in China. Thanks to the good quality, we respectively obtained ISO9001, CE ,CCC and other certificates .ZIRI Electrical set up branch offices in more than 30 cities and established a perfect, professional and efficient sale-and-service system. At the same time , ZIRI Electrical also working up international sales net. Our products have been exported in large quantity to Europe, South America, Southeast Asia, Middle East, Africa and so on. Which earn good reputation and high praise in the market .

We adhere to the remarkable tradition of technical innovation , continue to introduce new generation products to meet market demands . make great strides forward gradually to high-end application domain , and strive to shoulder heavy responsibilities to create a full of hope for the future .





Catalog

Inverter

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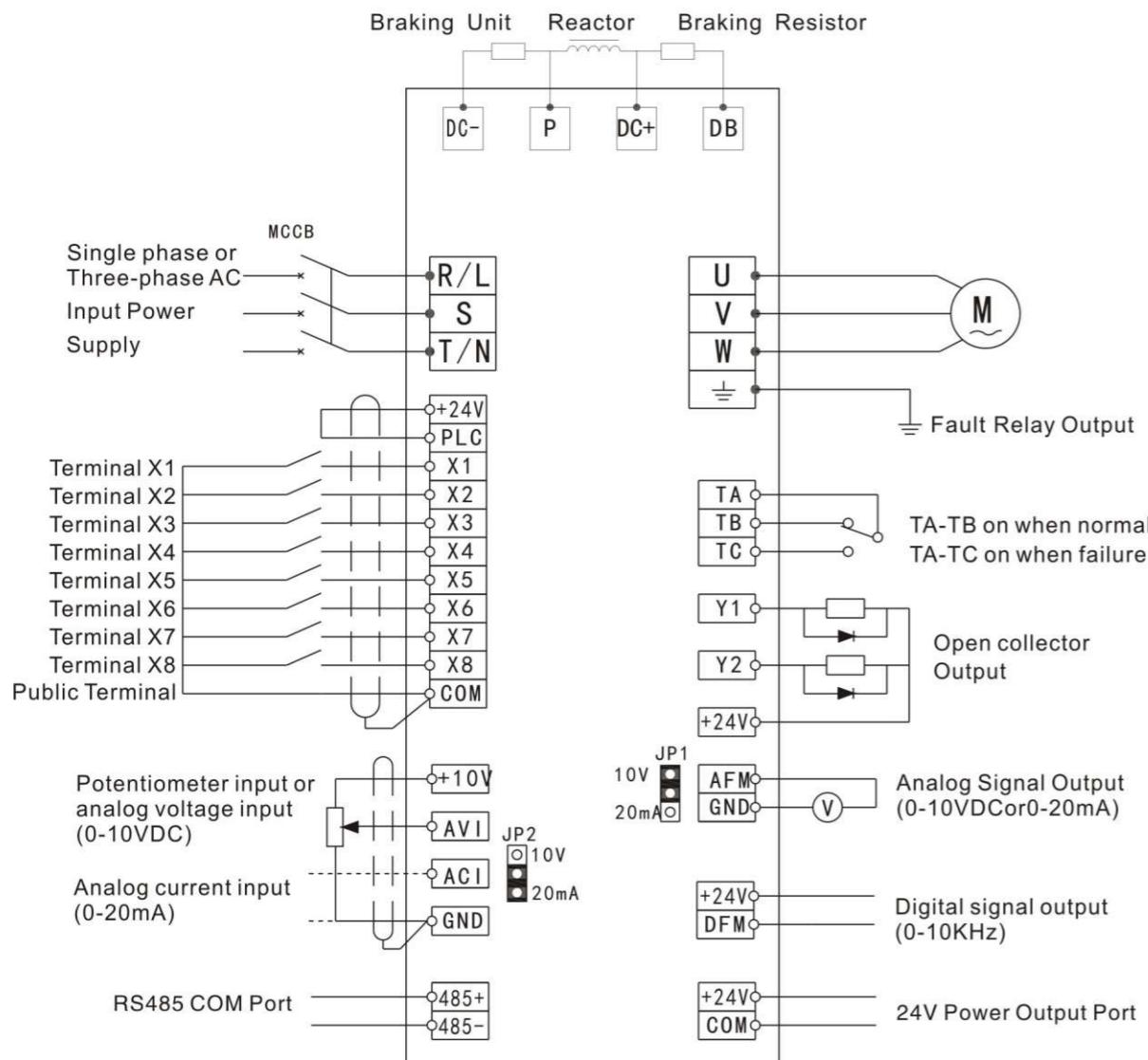
NOTE: Products listed in the catalog are our standard products .
Whose parameters are for reference only. If you have any
questions .Please contact with us directly . Parameters
information subject to change will not notice again .

Frequency Inverter

High Performance Vector Control Frequency Inverter

ZVF300 Series frequency inverter has the good effect energy conservation, fine speed adjustment performance , stable operation , stable operation , electrical machinery soft start, protect function and self diagnostics fault and other advantages.



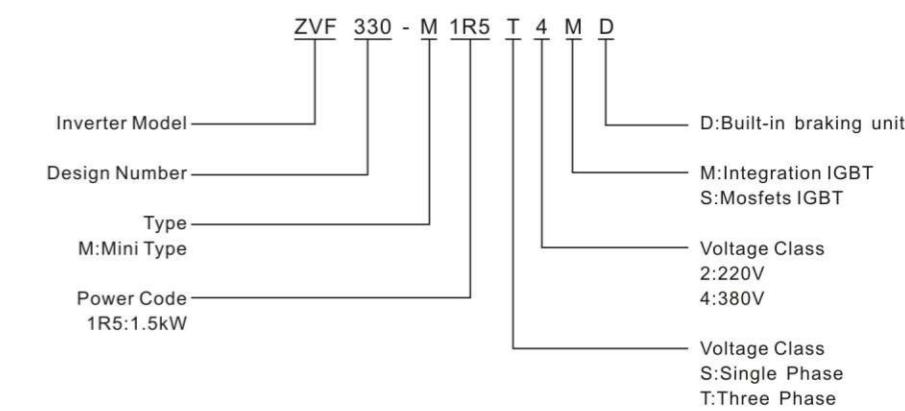
Basic system Description on Inverter Wiring**ZVF330 Series Mini Type AC Drive****Main Features**

ZVF330 Series Mini Type AC Drive are developed for general applications of small power and OEM market. It applies V/f control technology, making the functions of PID, multiple-speed step, DC braking, Modbus communication, as well as less installation space .ZVF330 Series AC drive is for small automation equipment of economical type, especially suitable for electronic equipment, food packaging, wood, glass and other small power transmission.

1. Output frequency :0-600Hz.
2. Multiple password protection mode.
3. Remote control operation keypad, convenient for remote control.
4. V/F curve &multi-inflection point setting, flexible configuration .
5. Keyboard parameter copy function. easy to set the parameters for multi-inverters .
6. Wide industry application . to expand special function according to different industries.
7. Multiple hardware and software protection and optimized hardware for anti-interference technology.
8. Multi-step speed and wobble frequency running (external terminal 15 steps speed control).
9. Unique adaptive control technology . Auto current limiting and voltage limiting and under-voltage restrain .
10. Optimized external installation and internal structure and independent air flue design , fully enclosed electrical space design .
11. Output automatic voltage regulation function (AVR),automatically adjust the output pulse width . to eliminate the influence of the grid change on load .
12. Built-in PID regulation function to facilitate the realization of closed loop control of the temperature ,pressure and flow . and reduce the cost of the control system .
13. Standard MODBUS communication protocol . easy to achieve the communication between PLC,IPC and other industrial equipments.

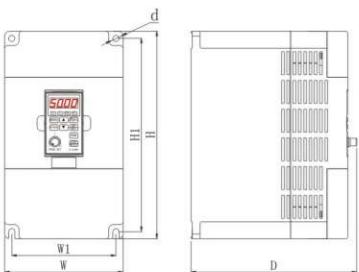
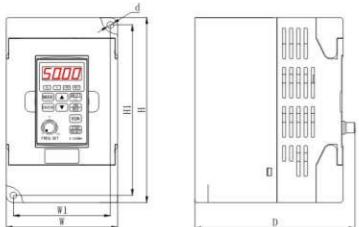
Application Range

Metal processing ,digital machine tool ,wire drawing bench and other mechanical equipment . paper making equipment ,chemistry industry ,medicine industry and textile industry ,all kinds of fans and pumping load .etc.

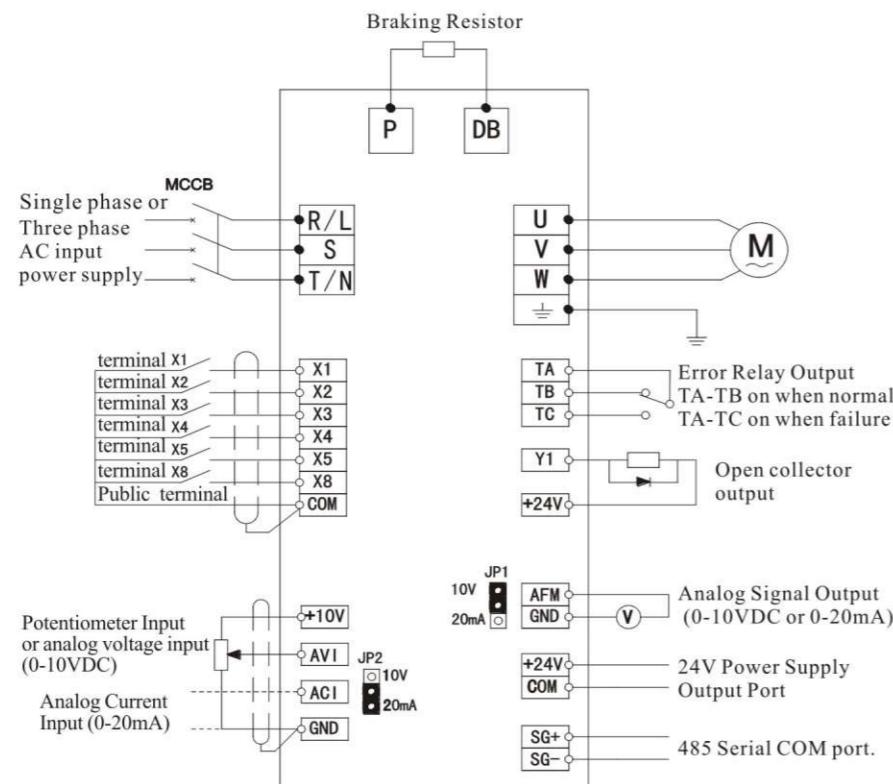
Demonstration Of The Model

Input Voltage (V)	Output Voltage(V)	Power Range (kW)
Single phase 220V± 20%	Three phase 0~input voltage	0.4kW~2.2kW
Three phase 380V± 20%	Three phase 0~input voltage	0.75kW~7.5kW
Overload Capacity : 150% 1 minute ;180% 1 second ;200% transient protection .		

Inverter Outline& Mounting Dimension (Unit:mm)



ZVF330 Inverter's Standard Wiring Diagram



ZVF600 Series Pump Inverter

Main Features

ZVF600 series pump control inverter is the company's own research and development of high degree protection pump inverter, the shell is dustproof and splash water, can be installed different brand water pump motor junction box. Adapt to a variety of sensor signals, simple operation, high reliability, low noise, can be individually controlled a pump and can also be more on-line operation.

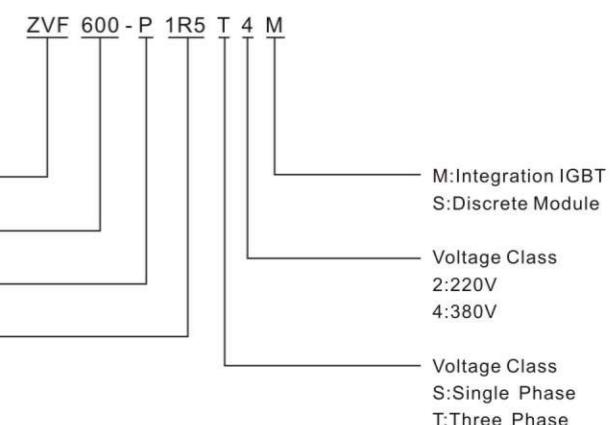
1. High Protection IP54 , All-round Anti-corrosion Anti-splash Water
2. High Performance V / F And Vector Control
3. Water Supply Special Design, Water Shortage Protection, Water Coming Start Automatically
4. Single Pump Constant Pressure, Main And Auxiliary Pump Single-line Networking, Automatic Control
5. Antifreeze, Rust-proof Function, More Humane Protection For Protecting Pump
6. One-button Pressure Setting, Quick Parameter View
7. Dedicated Water Supply Function And Fault Protection Function.
8. Professional Heat-resistant Design, Small Power, Without Fan Can Be More Reliable
9. Directly Installed On The Motor, No Need For The Cabinet, Simple And Convenient To Operate .



Application Range

Constant water supply, fire fighting apparatus, Environmental protection equipment, Environmental Engineering, water treatment equipment and etc.

Demonstration Of The Model



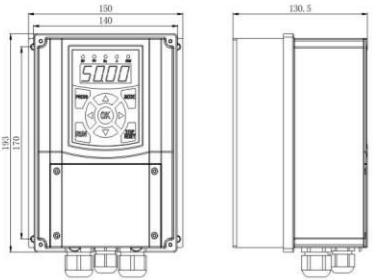


Fig.1

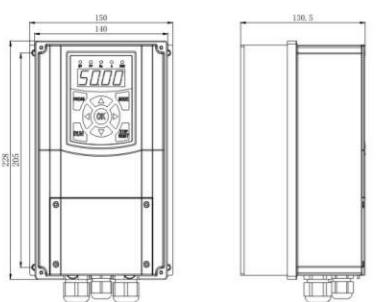
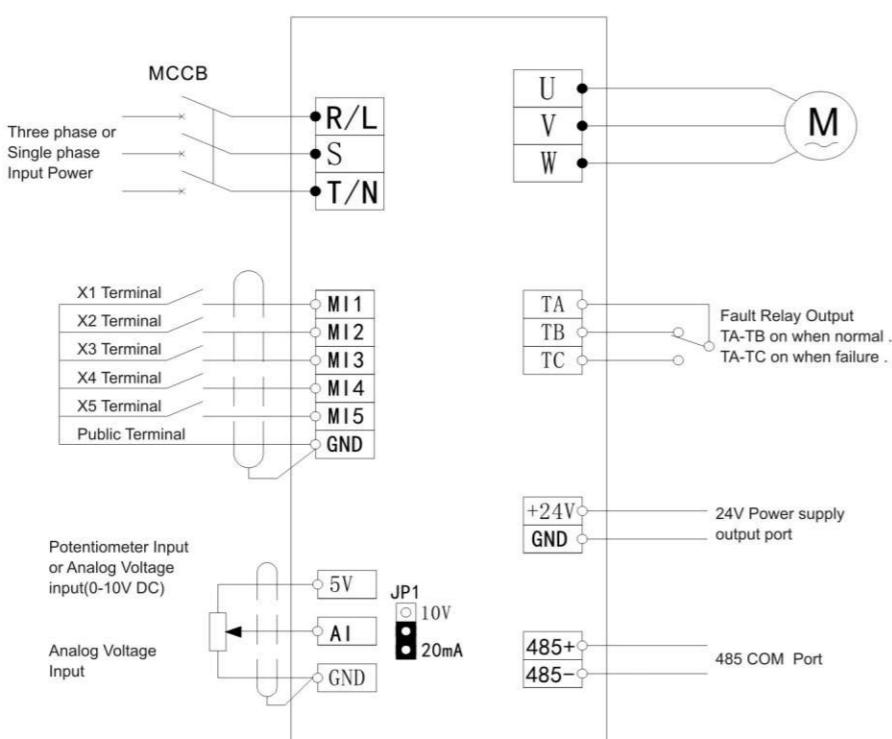


Fig.2

Pump Inverter Outline& Mounting Dimension (Unit:mm)

Inverter Model	Voltage(V)	Power(kW)	Output Current(A)	Figure
ZVF600-P0R7S2/T2M	220	0.75	5	Fig.1
ZVF600-P1R5S2/T2M		1.5	7.5	
ZVF600-P2R2S2/T2M		2.2	10	
ZVF600-P3R7T2M		3.7	16	
ZVF600-P0R7T4M	380	0.75	2.5	Fig.1
ZVF600-P1R5T4M		1.5	3.7	
ZVF600-P2R2T4M		2.2	5	
ZVF600-P3R0T4M		3.0	6.8	
ZVF600-P4R0T4M		4.0	9.0	Fig.2
ZVF600-P5R5T4M		5.5	13	
ZVF600-P7R5T4M		7.5	17	

ZVF600 Pump Inverter Wiring Diagram



Technical Indications

Item		Item Description
Input	Rated voltage& Frequency	Single /Three phase 220VAC . Three phase 380V.50Hz/60Hz
	Allowable Voltage range	Voltage fluctuate range: -20%~+20% Voltage unbalance rate: <3%;Frequency fluctuation: ≤5%
Output	Rated voltage	Three phase 0~ input AC voltage
	Frequency	0.00~600.00Hz
Basic Function	Frequency accuracy	Digital setting: Max. Frequency × ±0.01% Analog setting: Max. Frequency × ±0.2%
	Frequency resolution	Digital setting :0.01HZ; Analog setting :Max. Frequency x0.1%.
	Starting frequency	0.00~10.00Hz
	Acceleration/deceleration time	0.1~3600 can be set in sequence .
	Carrier frequency	1.0~15.0KHz
	V/F curve	1: linear curve; 2: quadratic; 3: user defined V/F curve
	Automatic energy-saving operation	Auto optimize V/F curve according to the load changes to realize the energy saving operation .
	Built-in PID	This can form a convenient closed-loop control system (CLCS)and is applicable to pressure control, flow control and other process control .
	Operating command	Operation panel control ,external terminal control and COM control
Other Function	Frequency setting	Keypad potentiometer setting , operation panel▲▼setting,, analog voltage signal or external potentiometer setting , analog current signal setting .terminal combination setting ,485 COM setting and so on.
	Input Signal	Forward/Reverse signal、multi-speed signal 、 fault signal 、 reset signal etc
	Output signal	Programmable relay
	Over voltage alarm 、 Rotation speed tracking 、 Momentary power loss restart 、 Frequency upper/lower limiting 、 Acceleration/ Deceleration mode can be adjusted 、 Multi-speed/ program running 、 Fault auto reset 、 RS485 serial communication .	
	Protection Function	Input phase loss protection 、 Over current protection 、 Overload protection 、 Over voltage protection 、 Under voltage protection 、 Over heat protection etc.
	LED Display	Can display the real time running status of the inverter , monitor parameter .function parameter and fault code and other information of the inverter.
	Place to be used	Indoor location free from direct exposure to sun light, high humidity or dew condensation, high levels of dust, corrosive gas, explosive gas, inflammable gas, oil mist, salt and etc
Ambient	Altitude	Below 1000 M
	Ambient Temperature	-10 °C to +45 °C (Bare Machine: -10 °C to+50 °C)
	Humidity	20%-90% RH without dew condensation
	Vibration	<0.5G
	Storage temperature	-20 ~+60°C

ZJR2 Series Motor Soft Starter

ZJR2 series soft starter can work with three-phase, AC squirrel cage induction asynchronous motor. The voltage is 320V~460V, 50Hz/60Hz and the current is 1200A and below. The soft starter is a device type. It's necessary to add breakers (short-circuit protection) and AC contactor (Bypass) inside the cabinet. together with switches are made up of electric motor control circuit.



ZJR2 Series Soft Starter

Main Features

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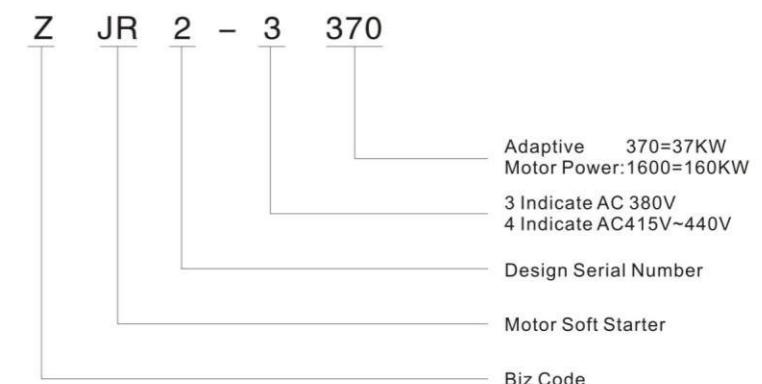
ZJR2 device type can work without three-phase AC motor in the process of starting too big acceleration torque, and power supply system plays a protection from excessive current harvest dynamic impact role, and has the following characteristics:

1. 16 SCM control, intelligent all-digital display.
2. can be put into practice a soft starter control multiple motors.
3. Starting modes: Current limiting starter, Voltage ramp start, Kick start +current-limiting start, kick start+voltage ramp start. Current ramp start. Voltage current-limiting double closed-loop start.
4. free stop and soft stop, The stop time from 0 to 60 seconds can be arbitrary choosed.
5. Over current, Overload, Open phase, instantaneous stop and other fault protection. with the flow, lack phase, instantaneous stop, and other malfunction protection.
6. Easy installation, simple operation, strong function and reasonable price.
7. 5.5kW-75kW soft starter also have built-in bypass contactor . But the factory default is not with built-in bypass contactor.Clients need to confirm this once order confirmed .

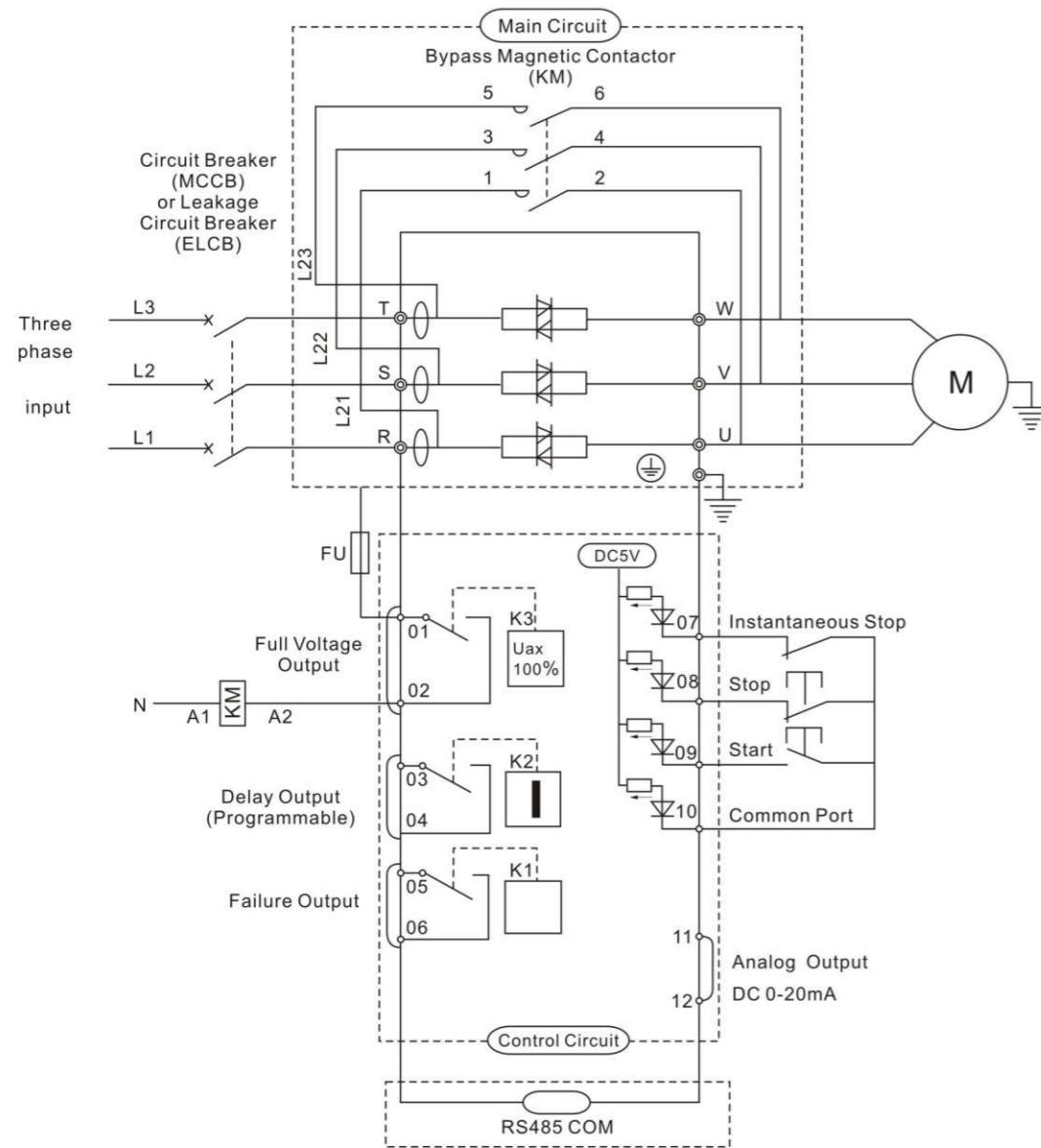
Application Range

ZJR2 Soft starter can meet the requirements of following loads: Centrifugal pump, ball grinder, fan , piston compressor, light load motor ,hoist machinery, mixer, crusher screw compressor, screw conveyor belt, belt conveyor and heat pump and so on .

Demonstration of the Model



ZJR2 Series Soft Starter Wiring Diagram



Control Panel

CHZIRI Electrical can design different inverter control cabinet ,soft starter panel and MCC panel according to clients' wiring diagram .





Inverter Control Cabinet

Main Features

With the frequency technology become more and more mature, the use of frequency inverter, PLC, digital-analog conversion module, temperature sensor, temperature module and other devices combine to form a closed-loop automatic temperature control system, the system can work smoothly and more stable, More important Its energy-saving reach to as much as 30% or more, can bring good economic benefits.

The frequency inverter control panel adopts the enclosed cabinet structure, adopts the frame skeleton, the surface coating spray, and easy to install the cabinet, the upper end can configure the bus bar . the keypad of frequency inverter leads to the front foot of cabinet and can operate directly, it can set local and remote control or PC/PLC communication control .the inverter control cabinet can display different kinds of function .

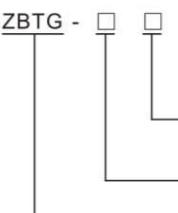
Frequency inverter is a dedicated accessory of inverter cabinet ,the variable frequency control the speed and the main technical parameters depends on the specification of built-in inverter and external configuration. Inverter cabinet have big difference according to the use of different application and different functions

According to the needs of the operating conditions, we can install AC input reactor, output reactor, DC reactor, EMI filter, braking unit, breaking resistor, contactor, intermediate relay, thermal relay, PLC, GOT , Electricity meter , cooling fan and ect inside the control cabinet .

According to the system working conditions, we can set a variety of control button and indicators. Such as forward, reverse, motor speed boost, motor speed deceleration, jog forward, jog reverse, manual / automatic, emergency stop, frequency conversion, power frequency, PLC control, touch screen and so on in the front door of the panels .



Model Description



1T2 :One inverter run with two motors
2B1 :Two are running one spare use
no mark: standard model
Frequency inverter power (kW)
CHZIRI frequency inverter control panel



Using Condition

- Power Supply: Electric supplyr, self-connected power network, diesel generator set, 3phase AC 380V, (10%,+15%),50HZ
- Applicable motor: three-phase asynchronous motor, variable frequency motor
- Start frequency: can start frequently
- Protection class: IP41 or IP20

Environment Condition

- Altitude ≤ 2km (used and downgraded if altitude beyond of 2km),
- Environment temperature : -25°C~ +40°C
- Relative humidity: ≤90%, no condensation
- Vibration: ≤0.5G

Applicable Industry

The frequency converter control panel (VFD electric control panel / electrical control panel) can widely use in metallurgy, chemical industry, petroleum, water supply, mine, building material, electrical motor industry, such as pumps, fans, air compressor, rolling mill, injection molding machine, conveyer belt and other machinery and equipments.

Inverter Control Panel Function

- 1.The power switch and protection frequency inverter cabinet I are equipped with low-voltage MCCB which is connected to the power line, in addition to complete and disconnect the circuit, can protect the circuit and VFD short circuit and overload protection . can cut off the power during maintenance .
- 2.Start and Control function . on the front door of the panel set the inverter start pushbutton .inverter stop pushbutton for the inverter operation control. easy for on-site operation .
- 3.Frequency (speed) adjustment :
Adjust the setting frequency and potentiometer on the front panel, It can easily and convenient to adjust the output frequency of the VFD manually. to control the motor speed.
- 4.Meters display on the front door of the panel . install the voltmeter, Ammeter, frequency meter and different kinds of indicators .Such as power indication、alarm indication、running indication、working frequency 、 inverter input voltage、 inverter output current、 inverter output frequency and monitoring of different working status .
- 5.Spare working frequency switching . the user can select the inverter cabinet with spare use working frequency switch . when the inverter get failure. can make the motor switch to working frequency power supply according to the automatic control circuit .(you can select manual /automatic mode, When the working frequency start device is more than 15kW . you can use soft starter to realize this function).
- 6.A variety of control function. According to the system working .it can set a variety of control buttons and indicators on the front door of the panel. such as Forward、Reverse 、 Motor increase the speed 、 motor reduce the speed 、 Jog forward 、 Jog reverse、 manual/automatic、 Emergency stop、 variable frequency/working frequency 、 PLC control、 Touch screen .
- 7.According to the needs of the operating conditions, we can install AC input reactor, output reactor, DC reactor, EMI filter, braking unit, breaking resistor, contactor, intermediate relay, thermal relay, PLC, HMI , Electricity meter , cooling fan and ect inside the control cabinet .
- 8.Safety protection .Install the VFD in the frequency control panel, can reduce environmental pollution, reduce the risk of electric shock, will have better protective effect.
- 9.Neat and beautiful appearance. install the VFD in the frequency control panel, have the same size with other low -voltage switchgear .the same color ,to maintain the power distribution facilities and control equipment coordination, neat, beautiful.

Characteristics Analysis

- 1.Save energy
Inverter control motor compared with the traditional control of the motor, energy conservation is the most practical significance, you can achieve energy-saving effect.
- 2.Lower operating cost.
The traditional motor are consists of three parts: initial purchase cost, maintenance cost, and energy cost. The Energy costs account for about 77% of the motor's operating costs. After install the frequency and soft starter start to reduce the impact of the device. The energy costs can be reduced by 44.3%.The maintenance and repair volume also reduced . So the operating costs will be greatly reduced.
- 3.Extend motor's life
In addition, the frequency conversion control can reduce the unit start when the current fluctuation, this fluctuation current will affect the power grid and other equipment, the inverter can effectively reduce the peak starting current to a minimum. Starting from 0HZ, the start-up time can be adjusted to reduce the impact on the electrical components and mechanical parts of the motor at start-up, thus enhancing the reliability of the system and prolonging the service life of the motor. In addition, the frequency conversion control can reduce the unit start when the current fluctuation, this fluctuation current will affect the power grid and other equipment, the inverter can effectively reduce the peak starting current to a minimum.
- 4.Reduce motor's noise
According to the requirements of the motor operating conditions, the installation of frequency inverter, the motor speed significantly slowed down, so effectively reduce the noise of the motor running.

MCC Panel

Main Features

The MCC Panels are installed in a sewage treatment plant.

There have plant C & D each with 8×Aerators, 2×Mixers and 2× Stirers. C & D share the same panel.

The dimensions of the panel are L8000×H2000×W600



The Doors Should Be Mounted With

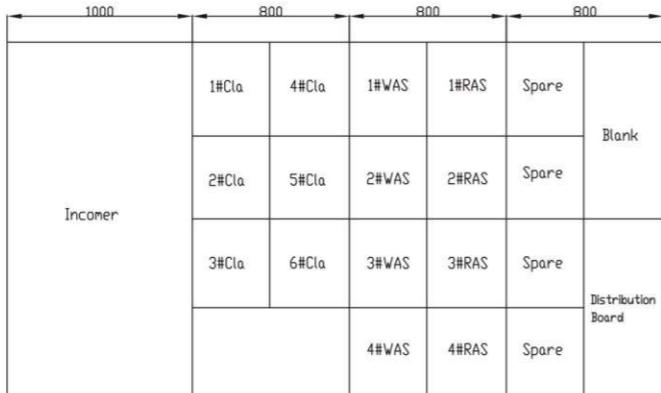
- Running/trip Lights
- Emergency Stop Button
- Start/stop Buttons
- Local/remote Selector Switch
- Ammeters
- Voltmeter
- Running Hour Meters
- Panel Fans

Below Are The Circuits

- 16× 55kW motors with VSDs
- 4× 7.5kW motors with VSDs
- 4× 5kW motors with VSDs
- Incomer with a 2000A circuit breaker and a 2400A isolator
- Panel with two circuit breakers for C and D (splitting the two sections of the plant)
- RAS/WAS Isolator
- Distribution board

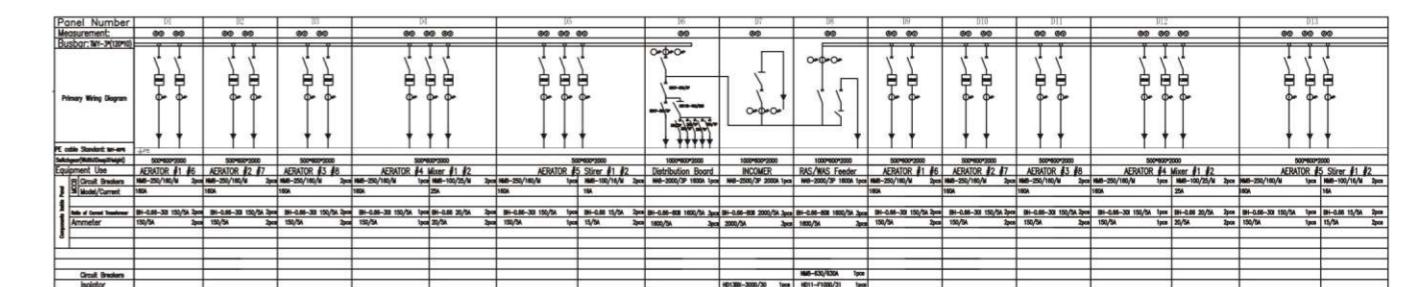
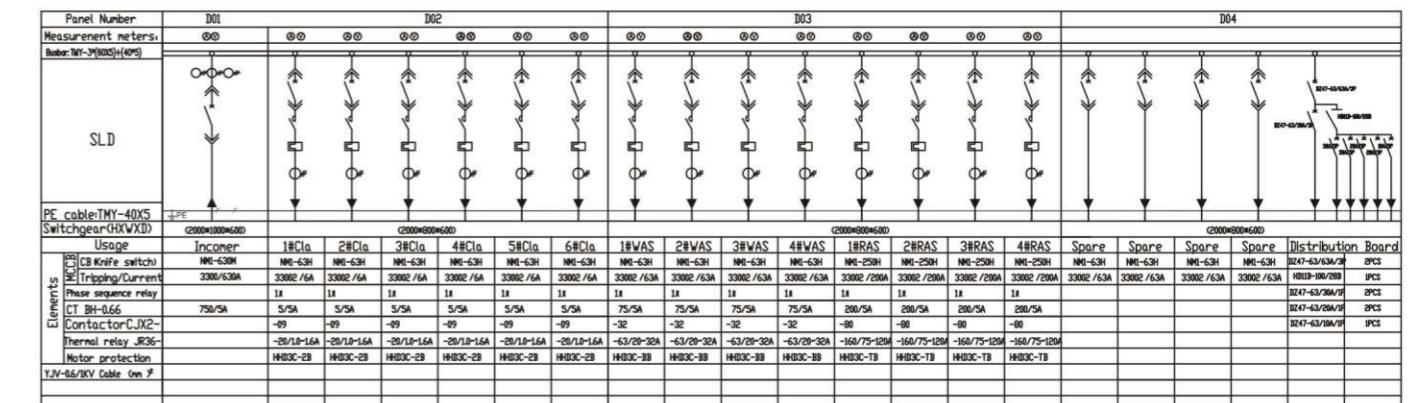
All the circuits have the same control philosophy. We just want to be able to start and stop the motors both from remote and local. We have also attached the control philosophy of the 3 circuits.

MCC Panel Layout



FRONT

MCC Panel Primary Wiring Diagram



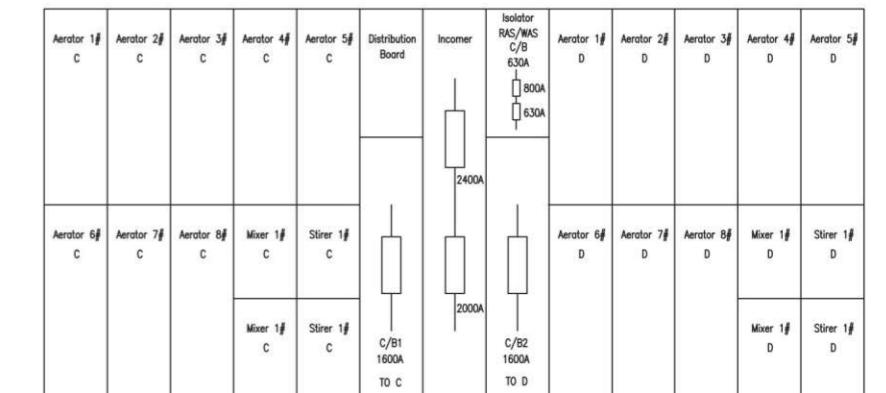
Note: 1. Outlet and Inlet line from bottom;

2. All circuit breakers are CHINT Brand.

3. The control circuit off inverter are with timer and fan.

4. Cabinet Size: 500*600*2000; 1000*600*2000

5. All inverters are CHZIRI brand.



↑
FRONT



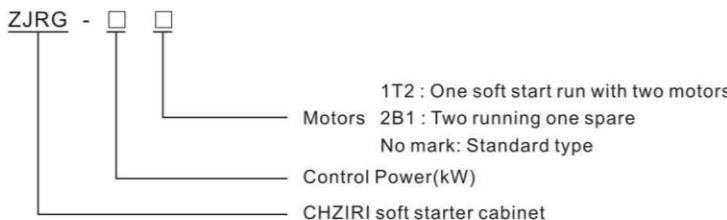
Soft Starter Control Panel

Main Features

ZJRG series soft starter control panel is suitable for three-phase AC squirrel cage induction motors. The control panel is mainly composed of a soft starter, AC contactor (bypass) and circuit breaker (short circuit protection). Have the function of protecting the motor improvement in motor starting and running process; adopt closed-loop control, greatly improving the stability and reliability of soft torque start and soft torque stop, run by the bypass contactor, the power consumption is close to zero.



Model Description



Main Technical Indications

- Power voltage three-phase phase $380V \pm 15\%$, frequency : $50/60HZ$.
- Start times: less than 20 times per hour.
- Altitude: less than 3km, if beyond 3km, shall improve power.
- Environment temperature: $-30 \sim +55^{\circ}C$.
- Environment humidity: less than 90%, No dew condensation phenomenon.
- Application: no corrosive gas, no Conductive dust, good ventilation condition.
- Protect class: IP20、Ip30.



Technical Features

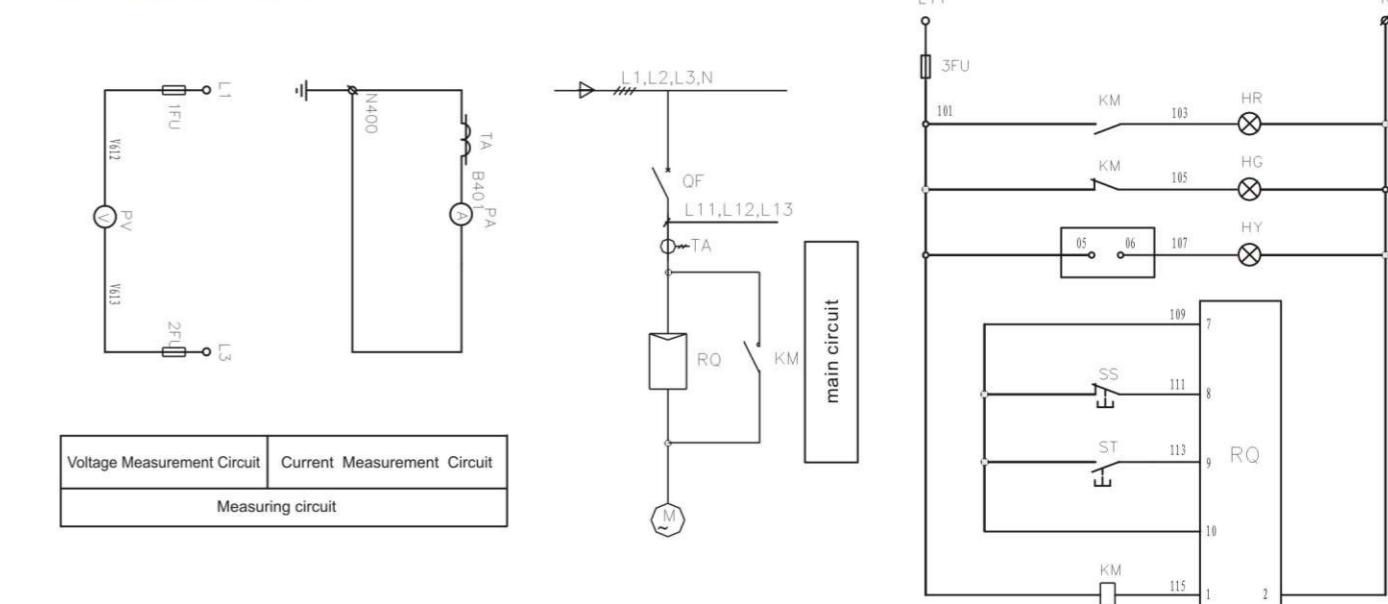
- Starting time can be preset, set different starting time according to different load types.
- Initial voltage can be preset, different initial voltage is set according to different load type.
- With current limiting function, the starting current does not exceed the setting current value.
- Stop mode have soft stop and free stop.
- Bypass contactor function, starting complete, can be connected to bypass contactor.
- One soft starter run multiple motors, One soft starter can start multiple motors in turn.
- Have 14 kinds of protection functions.

Application Load Type

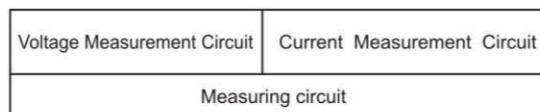
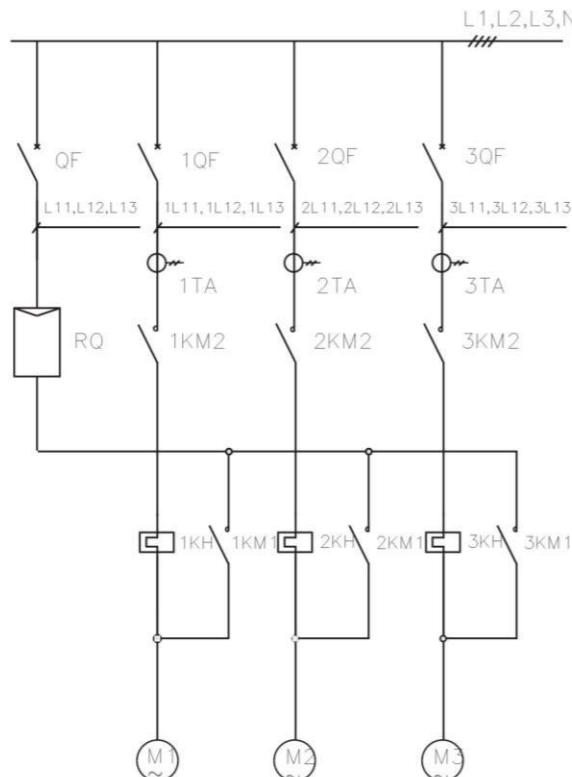
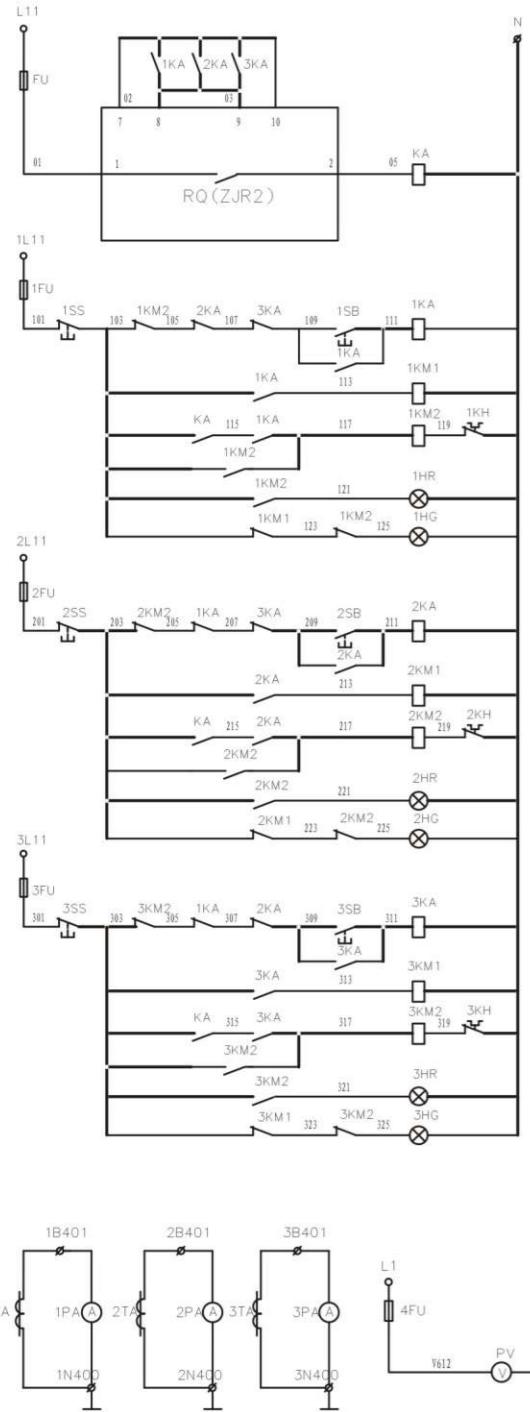
This soft starter cabinet can meet the requirement of most heavy load. The table below is just for reference only .

Varieties of Application Loads	Stop Ramp Time (S)	Stop Ramp Time (S)	Inception Voltage (%)	Voltage Start (Maximum Current-limiting Value)	Current-limiting Start
Centrifugal Pump	16	20	40	4	2.5
Ball Grinder	20	6	60	4	3.5
Fan	26	4	30	4	3.5
Piston Type Compressor	16	4	40	4	3
Light Load Motor	16	2	30	4	3
Elevating Mechanism	6	10	60	4	3.5
Mixer	16	2	50	4	3
Crusher	16	10	50	4	3.5
Screw Compressor	16	2	40	4	3
Spiral Conveyor	20	10	40	4	2
Leather Belt Conveyer	20	10	40	4	2.5
Heat Pump	16	20	40	4	3

Schematic Diagram



ZJRG/1T1 Wiring Diagram



ZJRG/1T3 Wiring Diagram

Order Information

Soft starter cabinet have many specification , different high technical request . Please make sure you have a detailed understanding of how the equipment load works and performance indicators, and select the electrical control cabinet features before ordering.

CHZIRI Electrical will offer the clients standard design if no requirements marked. So please specify in the contract if you have special requirements.

Intelligent Water Supply Controller

Intelligent water supply controller are designed for water supply system . water supply controller can make the water supply system run steadily and reliably, and realize a true automatic cycle pump and variable frequency operation.





Constant Pressure Water Supply Controller

Main Features

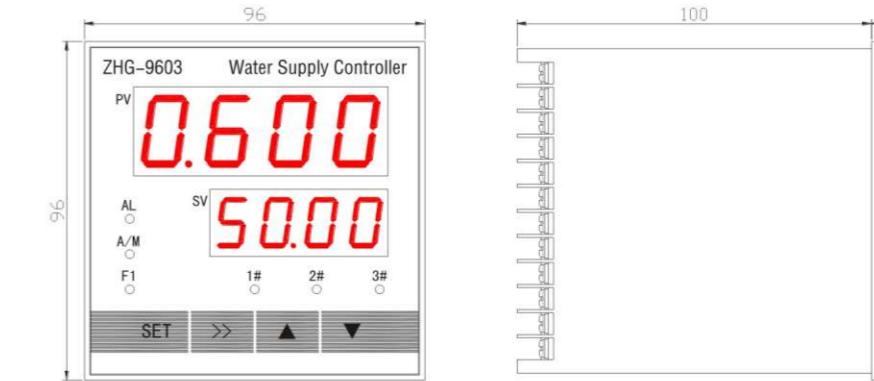
ZHG-9603 Series Constant Pressure Water Supply Controller is specialized for constant pressure water supply pump variable frequency controller. The constant pressure water supply controller can make the water supply system run steadily and reliably, and realize a true automatic cycle pump and variable frequency operation. to ensure the optimal running efficiency of each water pump and the stable operation of the equipment start smoothly. Eliminates high-current shocks and lowers the pump's average speed, extending pump life and eliminating water hammer during start-up and shutdown.

1. Include 3 units main pumps & one unit small pump, it has multiple controlling mode and meets all kinds of complex requests of water supply.
2. Timing change pump function, balance all kinds of pumps' working time . improve the average life of the pumps.
3. Up to 8 periods pressure control, and each period can be set any pressure setting control .and realize the timer ON/OFF function .
4. Sleep function and auxiliary small pump function, save energy and reduce consumption , extend machine's life.
5. Positive and negative feedback function , can be used for water supply, but also can be used to pump water and maintain the water level.
6. Over-pressure, low water level, sensor disconnection, inverter failure and alarm control functions etc.
7. Feedback can connect with passive remote pressure gauge, active voltage and current transmitter.
8. Feedback device power 0-24V can be modified, stronger commonality.
9. Feedback signals can be selected .it is more convenient to connect with outer .
10. Standard 0-10V voltage output, can also be arbitrarily modified to other voltage values, the application will be more flexible.
- 11.when the inverter get failure,The controller can choose the automatic transfer to the working frequency running (pressure range control)
- 12.Relay fault output function can be selected.
- 13.Strong adaptable, applicable to various brands frequency inverter at home and abroad.
- 14.All digital signal use photoelectric isolation, strong interference ability .
- 15.With complete key function.

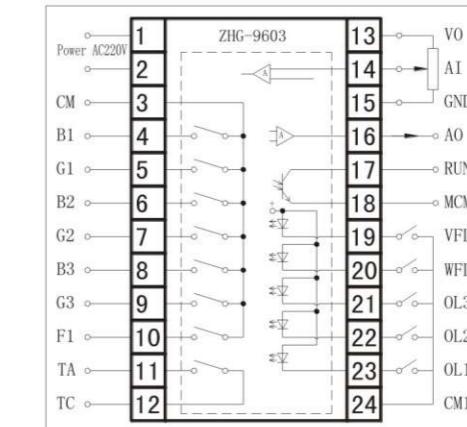
Technical Indications

Item	Item Description
Input Power Specification	Single phase 220VAC±5%,50Hz/60Hz
Digital input signal	Level signal, low level is actual, 5mA
Digital Output Signal	Max. load current I≤50mA
DC Output Power 1	5V/100mA, 10V/50mA, 24V/30mA
DC Output power 2	10V/10mA,
Reply Output Signal	Contact rating: 250VAC/3A, 30VDC/1A
Analog input Signal	10V/10bit
Analog Output Signal	10V/10bit
Ambient Temperature	-10~+50 C
Humidity	20~90%RH, No condensation of water droplets
Vibration	< 0.5G
Outline Dimension(W×H×T)	96mm×96mm×110mm

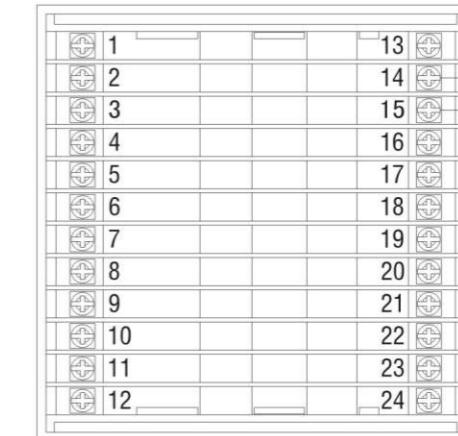
Controller Outline Dimension (Unit:mm)



Controller Circuit Terminal



Controller Wiring Schematic Diagram



Connect with 499Ω resistor outside if current signal is input.



Intelligence Pump Controller

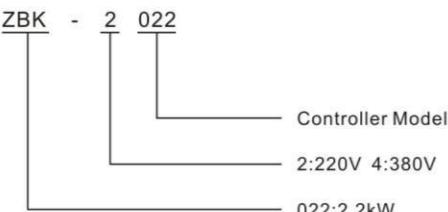
Main Features

ZBK Series Intelligence Pump Controller adopt the digital control chip, set upper and down liquid level and automatic control in one function. Automatic and manual two working mode can be selected..the controller have loss phase, overload, empty load, over voltage and under voltage function protection. Small size .elegant appearance. Applicable to a variety of water supply control occasions.

Product Characteristics

- Rated working voltage: single-phase AC220V / 50 ~ 60Hz; three-phase AC3800V / 50 ~ 60Hz
- The matched motor power: 0.37 ~ 15kW
- Set upper and down liquid level and automatic control in one function
- Automatic and manual two working mode can be selected .
- Have loss phase, overload, empty load, over voltage and under voltage function protection
- The restart time 1-999 minutes can be adjusted while without load.
- Fault memory function
- Rust protection, can effectively prevent the motor rust
- AC digital signal detection, The probe is durable.
- Easy installation, simple debug.

Demonstration of the model



Model Selection

Model	Applicable power	Voltage	Figure
ZBK-2022	0.37-2.2	220	Fig1
ZBK-4055	0.75-5.5	380	Fig 2
ZBK-4075	7.5	380	Fig 2
ZBK-4110	11	380	Fig 2
ZBK-4150	15	380	Fig 2

Outline& Mounting Dimension (Unit:mm)

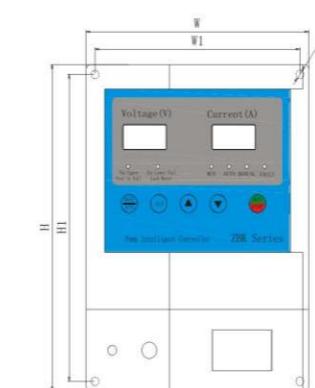


Fig.1

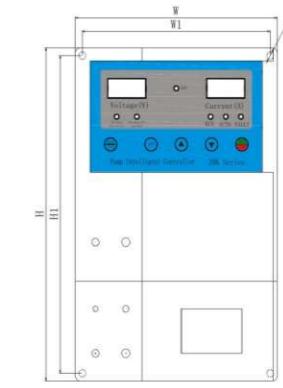
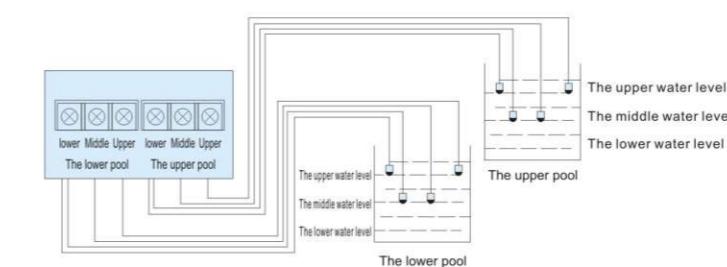


Fig.2

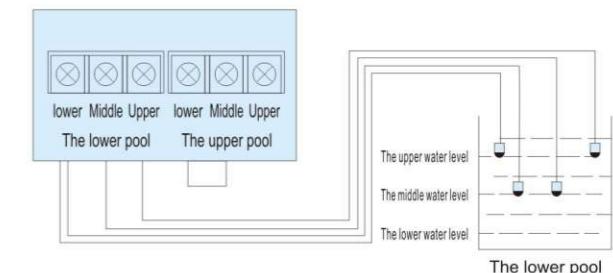
Model	Dimension(mm)						Picture	Gross Weight (kg)
	H	H1	W	W1	D	d		
ZBK-2022	200	188	150	138	73	Φ5	Fig.1	
ZBK-4055	300	286	200	186	125	Φ6.5	Fig.2	
ZBK-4075								
ZBK-4110								
ZBK-4150								

Wiring Diagram of typical application

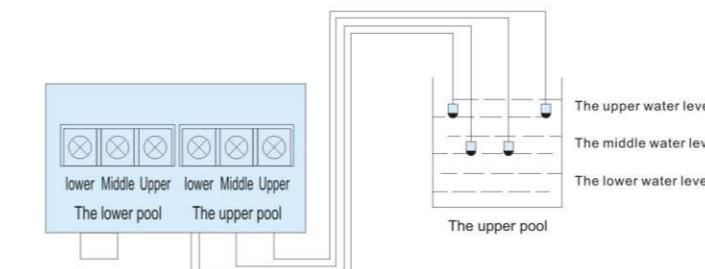
A. The upper and lower pool water supply connection



B. The lower pool water



C. The upper pool water



D. Constant pressure connection

