PRODUCT USER MANUAL

VC8000 SERIES SOFT STARTER

2025

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Product User Manual

VC8000 Series SOFT STARTER

Please read this manual carefully before operation!

Chapter 1. Safety Specifications and Precautions Before Operation

Thank you for purchasing this series of intelligent motor soft starters/cabinets (hereinafter referred to as "soft starters"). This product is designed for the soft start and soft stop control of three-phase squirrel-cage induction motors. Please read and understand the contents of this manual carefully before using the product to ensure correct use and optimal results.

- Safety Precautions: Please read this manual carefully to achieve the best performance of the soft starter. Changing parameter settings may affect functionality and performance. Parameter modification should only be performed by qualified personnel to avoid malfunction or damage.. Only professional technicians are allowed to install this series of soft starters. Ensure that the power of the motor and the soft starter are properly matched. During installation, be sure to operate in accordance with the operating procedures in the user manual. Do not connect capacitors to the output side of the soft starter, as this may cause severe device damage.. After installing the soft starter, wrap the copper wire lugs at the input and output ends with insulating tape. When controlling remotely, the keyboard control must be locked. Ground the soft starter case firmly. When repairing the equipment, the incoming power supply must be disconnected.

- Note: Although this manual is compiled very carefully, our company cannot guarantee that there are no minor errors in the manual. The products described in this document may be modified at any time for technical and operational requirements, which cannot be considered in the contract. Please understand.

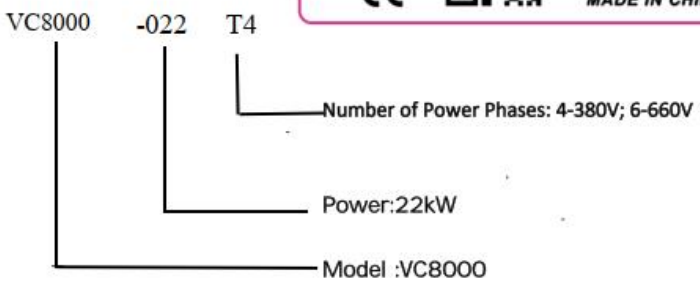
Chapter 2. Model Explanation

1. **Intelligent soft starters are divided into five major series: A bypass device, B bypass cabinet, C online device, D online cabinet, and E built-in bypass device.**

2. **Among them, the online cabinet series is divided into three subcategories: DS is a bulk cabinet, DC is an online device cabinet, and DX is a simple online cabinet (without instrument version), which is easy to use in the field.**

Nameplate Description





Chapter 3. Precautions Before Use

1. Inspection Upon Arrival

Check via the nameplate whether it is the machine you ordered, whether the product model and power specification are correct, and whether the packaging is damaged. If there is any discrepancy, please contact the manufacturer or the local agent/dealer immediately.

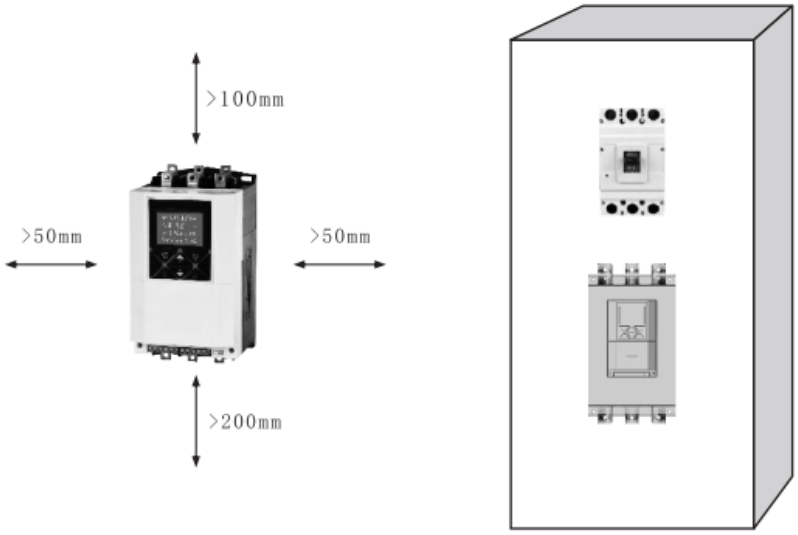
2. Operating Environment

Item	Specification
Complies with Standard	GB14048.6/IEC60947-2-2:2002
Three-phase Power Supply	AC 380V±15% (220V and 660V optional)
Frequency	50/60Hz
Applicable Motor	Squirrel-cage three-phase asynchronous motor
Starting Frequency	When the motor starts at full load, no more than 4 times/hour; when starting at no load or light load, it is recommended not to exceed 10 times/hour
Protection Class	IP20
Impact Resistance	Complies with IEC68-2-27; 15g, 11ms
Seismic Capacity	Below 3000 meters above sea level, vibration intensity below 0.5G
Ambient Temperature	Operating temperature 0~+40℃ (no derating); between +40℃ ~60℃ , for every 1℃ increase, the current decreases by 2%), and below 60℃
Storage Temperature	-25℃ ~70℃
Ambient Humidity	93% without condensation or dripping, complies with IEC68-2-3
Maximum Operating Altitude	Within 1000 meters above sea level (no derating); above 1000 meters, for every 100 meters increase, the current decreases by 5%)
Cooling Method	Natural air cooling
Installation Orientation	Vertical installation, with an inclination angle within ±10°

3. Inspection Upon Arrival

3.1. The soft starter must be mounted vertically. Do not install it upside down, at an angle, or horizontally.

3.2. The soft starter generates heat during operation. To ensure air circulation, a certain space should be reserved as shown in the diagram below. As the heat dissipates upward, do not install it below heat-intolerant equipment.



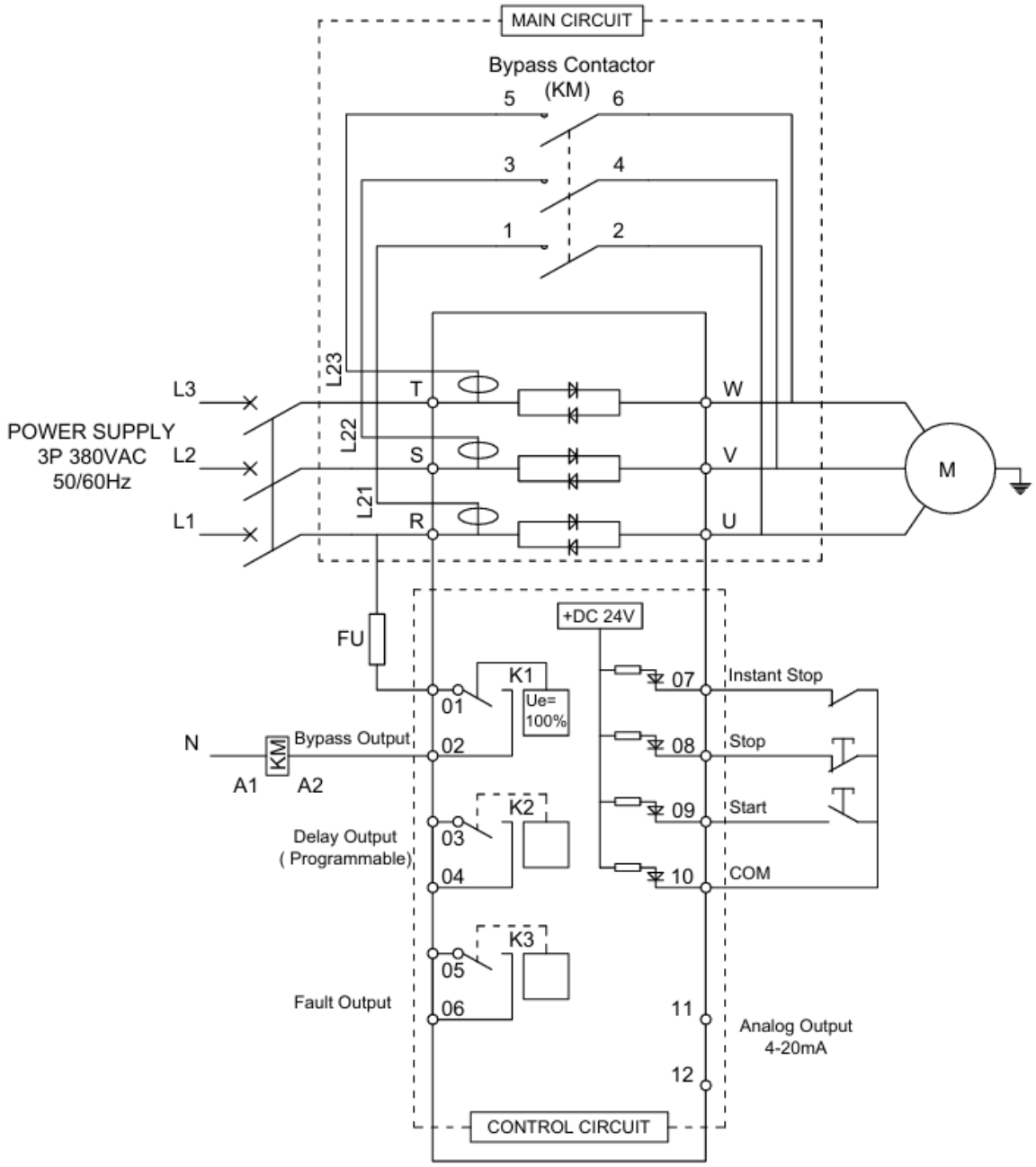
Chapter 4. Distinctive Features of Soft Starter

- The wide-screen design has a large information capacity and is more aesthetically pleasing;
- It adapts to a wide range of power supply voltages and can be used with AC250V~500V grid voltages;
- Real-time voltage and current monitoring is provided (inaccurate current can easily cause a series of problems, such as excessively long startup time, motor burnout due to inaccurate overload protection, etc.);
- The high and low grid voltages basically do not affect the starting performance, avoiding the phenomenon of difficult starting when the voltage is low;
- Driven by a pulse transformer, it is controllable, with a low failure rate and large starting torque, and can start ultraheavy loads such as ball mills; It has multiple starting modes to meet the needs of various equipment;
- Fault positioning is accurate. For example, in the case of a phase-loss fault, it can be positioned to a specific phase loss, which is convenient for on-site maintenance;
- It has complete protection functions, including input and output phase loss before starting, controllable silicon short-circuit judgment and other fault diagnosis, and all protections can be selectively turned off;
- It supports frequency synchronization and is suitable for generator power supply;
- It supports dual panels, and the external design is a universal network interface;
- It has three programmable relays, which is convenient for users to flexibly adapt to various on-site applications;
- It is a current control type (specially designed for the linkage of crushers and feeders);
- It has controllable silicon short-circuit interlocking protection (needs to be used with auxiliary contacts such as air switches to ensure that the controllable silicon is not broken down and the motor is not burned); It has a power-on restart function. Due to safety reasons, please use it with caution; It has usage time restriction and release functions, which can well protect the interests of distributors;
- It has fault information recording, which is convenient for after-sales service personnel to diagnose and repair faults;
- It has running time recording, which is convenient for after-sales maintenance;
- Future-oriented Internet of Things cloud control is under development;

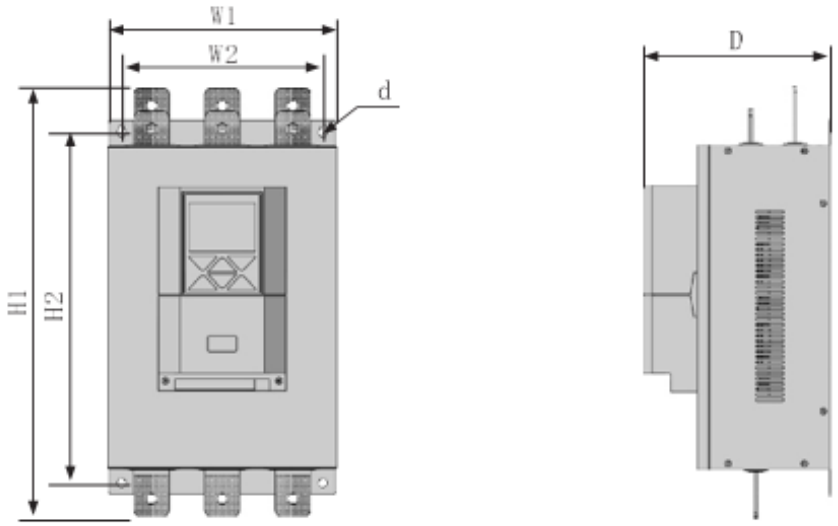
Chapter 5. Technical Specifications

Motor Parameters		Soft Starter	Circuit Breaker	Magnetic Contactor (Bypass)	Cable/Copper Busbar
Power (kW)	Current (A)	Model Specification	Model Specification	Model Specification	Copper Core Specification (mm^2)
5.5	11	VC8000-005T4	CM1-63/16	CJ20-16	2.5
7.5	15	VC8000-007T4	CM1-63/20	CJ20-16	4
11	21	VC8000-011T4	CM1-63/32	CJ20-25	6
15	28	VC8000-015T4	CM1-63/40	CJ20-40	10
18.5	34	VC8000-018T4	CM1-63/50	CJ20-40	10
22	42	VC8000-022T4	CM1-63/63	CJ20-63	16
30	54	VC8000-030T4	CM1-100/80	CJ20-63	25
37	68	VC8000-037T4	CM1-100/100	CJ20-100	35
45	80	VC8000-045T4	CM1-160/120	CJ20-100	35
55	98	VC8000-055T4	CM1-160/160	CJ20-160	35
75	128	VC8000-075T4	CM1-225/180	CJ20-160	50
90	160	VC8000-090T4	CM1-225/225	CJ20-250	30×3
110	190	VC8000-110T4	CM1-225/315	CJ20-250	30×3
132	236	VC8000-132T4	CM1-400/315	CJ20-400	30×3
160	290	VC8000-160T4	CM1-400/350	CJ20-400	30×5
200	367	VC8000-200T4	CM1-400/500	CJ20-400	30×5
250	430	VC8000-250T4	CM1-630/630	CJ20-630	40×5
280	470	VC8000-280T4	CM1-630/630	CJ20-630	40×5
315	547	VC8000-315T4	CM1-630/700	CJ20-630	40×5
400	725	VC8000-400T4	CM1-630/800	CJ20-1000	40×5

Chapter 6. Primary and Secondary Wiring Schematic and Main Circuit Diagram of Bypass Device

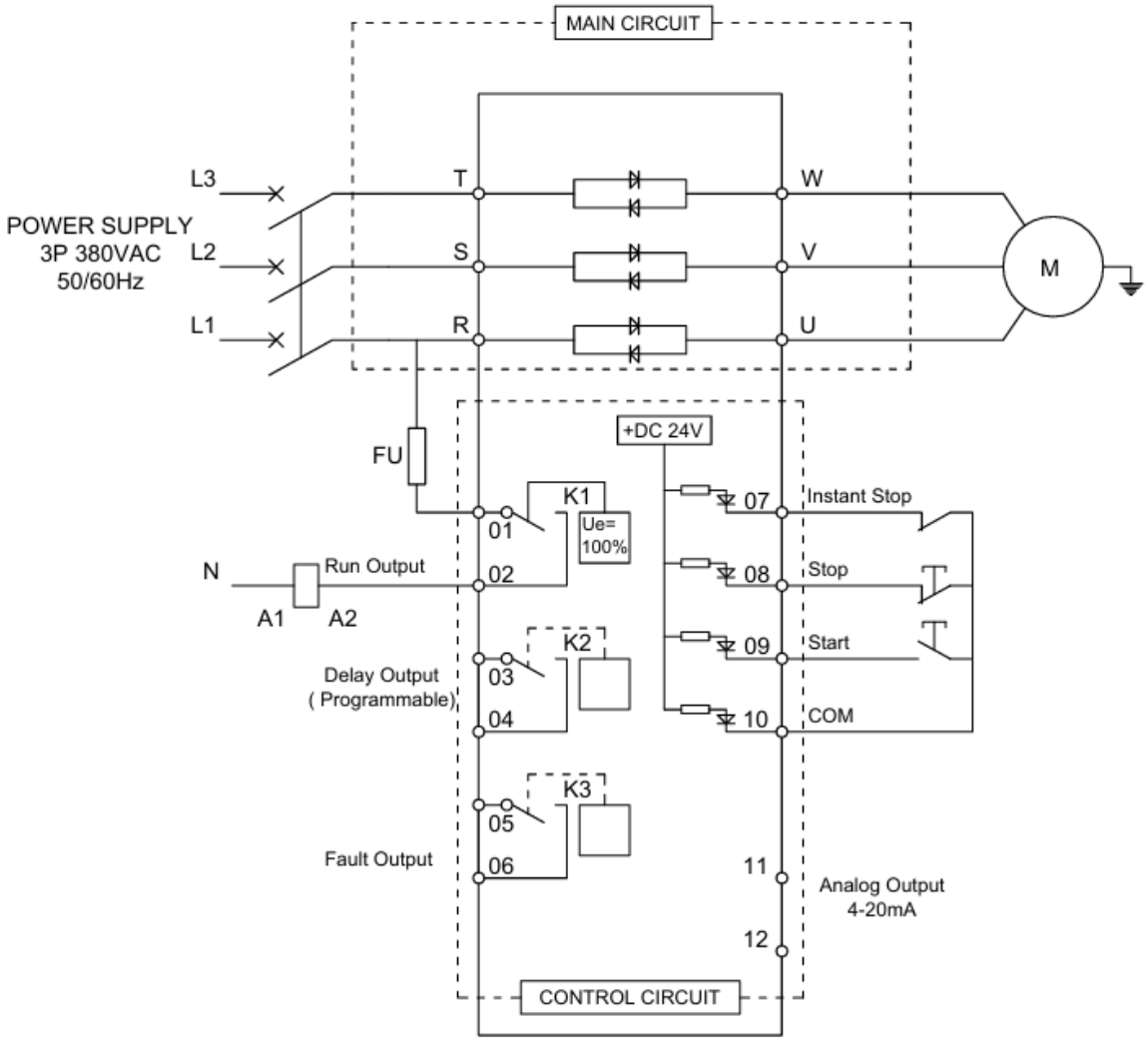


Chapter 7. Outline and Installation Dimensions of Bypass Contactor

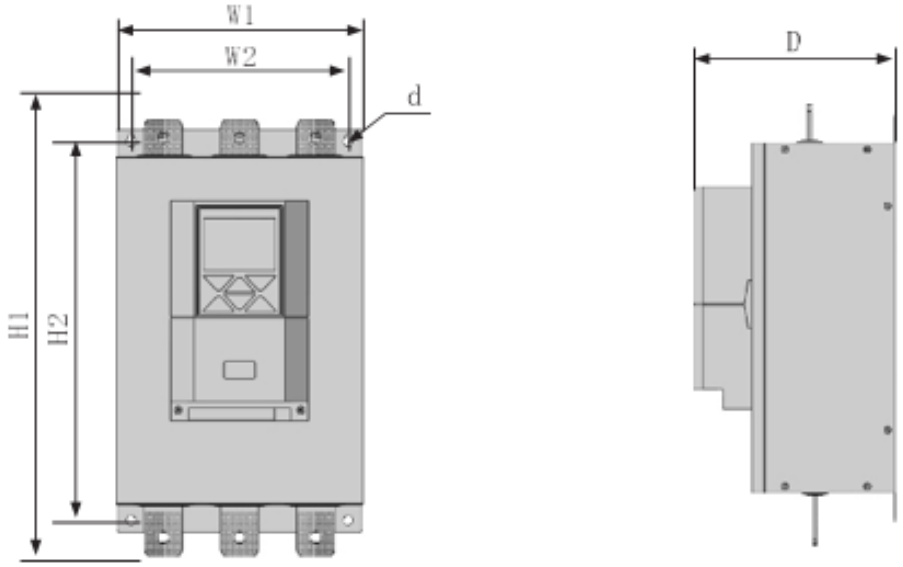


Model	Outline Dimensions (mm)			Installation Dimensions (mm)			Weight (kg)
	W1	H1	D	W2	H2	d	
5.5-75kW	145	280	160	120	240	M6	＜3.5
90-220kW	260	490	215	230	390	M8	＜20
250-350kW	300	530	215	265	425	M8	＜25
400-450kW	340	570	215	305	470	M8	＜30
500-630kW	410	670	250	345	550	M8	＜40

Chapter 8. Schematic Diagram of Primary and Secondary Wiring and Main Circuit of the Online Device

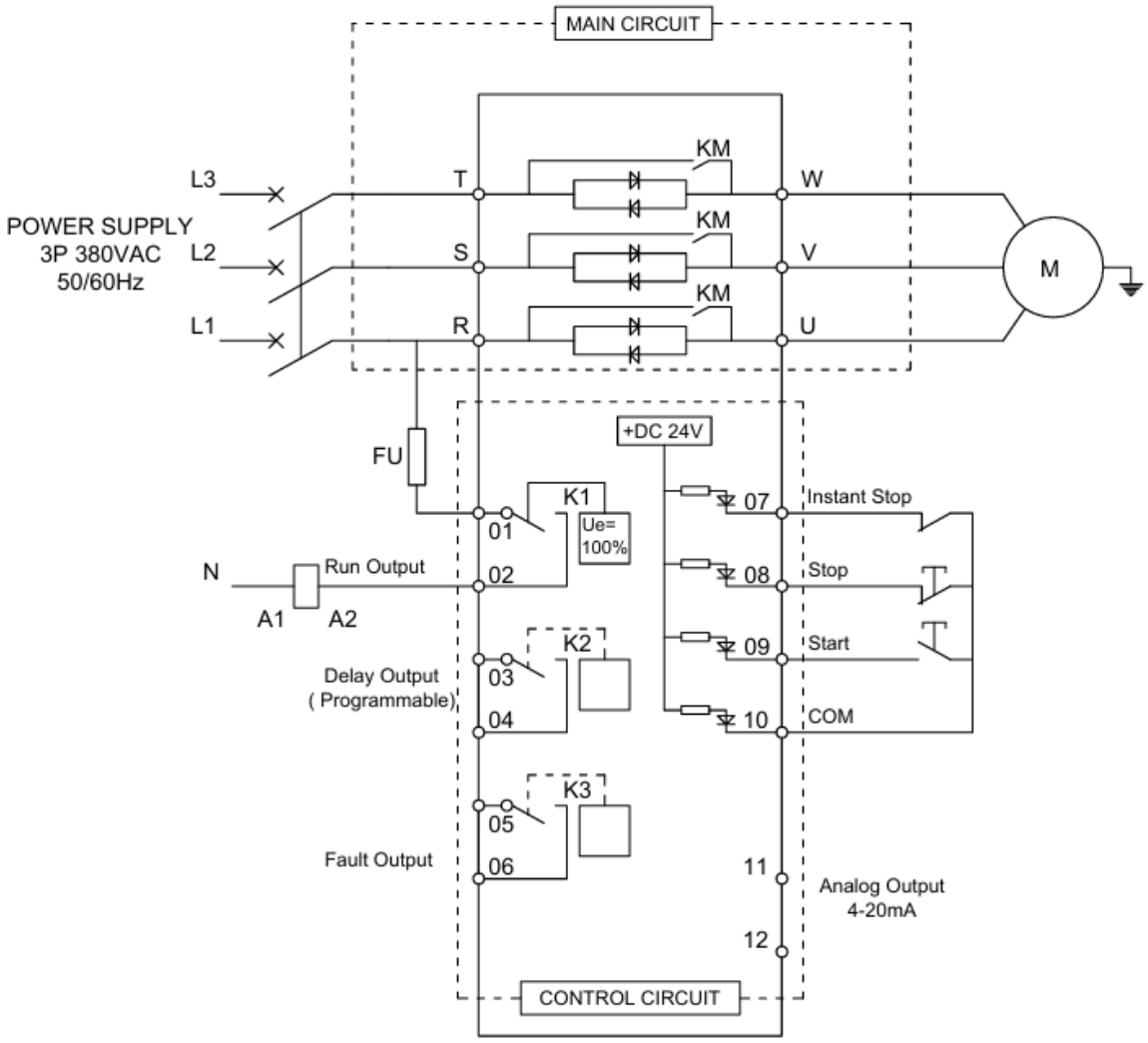


Chapter 9. Outline and Installation Dimensions of the Online Device

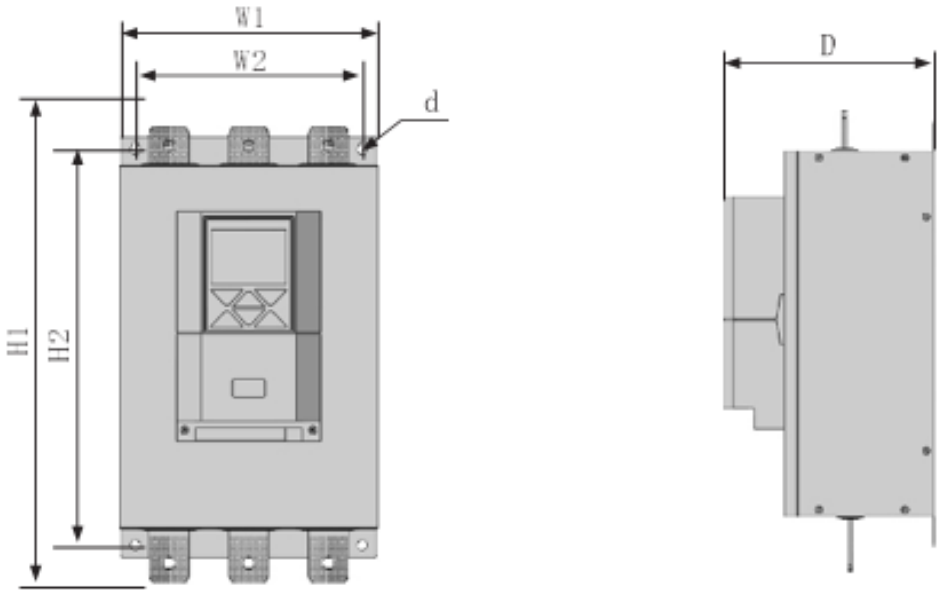


Model	Outline Dimensions (mm)			Installation Dimensions (mm)			Weight (kg)
	W1	H1	D	W2	H2	d	
5.5 - 75kW	145	310	200	85	280	M6	＜5
55 - 115kW	210	365	260	150	330	M8	＜15
132 - 160kW	320	450	250	260	390	M8	＜20
185 - 220kW	380	545	263	320	430	M8	＜25
250 - 400kW	430	600	293	370	510	M8	＜30
450 - 630kW	620	780	330	560	660	M8	＜50

Chapter 10. Device Primary and Secondary Wiring Schematic and Main Circuit Diagram of Built-in Bypass



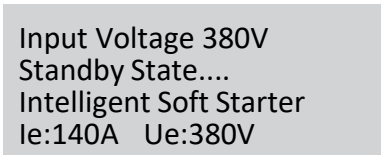
Chapter 11. Outline and Installation Dimensions of the Built-in Bypass Device



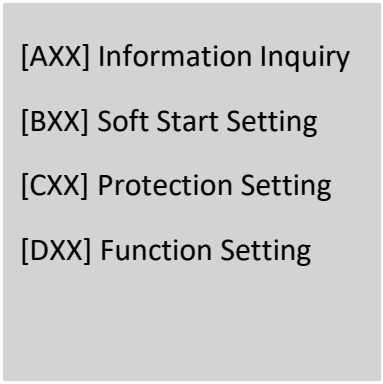
Model	Outline Dimensions (mm)			Installation Dimensions (mm)			Weight (kg)
	W1	H1	D	W2	H2	d	
5.5-75kW	145	320	165	120	280	M6	＜6
90-220kW	260	579	235	230	509	M8	＜25
250-350kW	300	638	235	263	567	M8	＜30
400-450kW	415	650	265	395	630	M8	＜35
500-630kW	480	800	265	460	780	M8	＜45

Chapter 12. Chinese Menu Display and Parameter Operation Instructions

Standby Interface



Main Menu Interface (Press "Setting" Key to Enter)



- Use the up and down keys to select the required menu, press the "Setting" key to enter. Parameters can be adjusted using the UP and DOWN keys., press the "Confirm" key to save. Press the "Stop" key multiple times to return to the standby interface.

Chapter 13. Start-up Settings

Function Code	System Name	Parameter Range	Factory Value	Communication Address	Parameter Description
B00	Motor Rated Current	5~2000A	Model Determined	0	When using for the first time, be sure to modify this parameter to the actual current value on the motor nameplate. Motor protection is based on this setting. Incorrect values may cause protection failure and motor damage.
B01	Start-up Mode	0. Voltage Ramp 1. Current Ramp	0	1	
B02	Initial Voltage/ Current	Voltage Mode (25~80%Ue) Current Mode (25~80%Ie)	40%	2	
B03	Ramp Rate	0~120	10	3	
B04	Current Limiting Multiple	100~500%Ie	350%	4	
B05	Soft Stop Rate	0~60	0	5	
B06	Jump Voltage	50~100%Ue	80%	6	
B07	Jump Time	0~5S	0S	7	
B08	Delay Start-up Time	0~600S	0S	8	
B09	Grid Frequency	0: 50HZ 1: 60HZ	0	9	

Chapter 14. Protection Settings

Function Code	System Name	Parameter Range	Factory Value	Communication Address	Parameter Description
C00	Running Overcurrent	80~500%	150%	14	Set to 80 to disable running overcurrent.
C01	Running Overcurrent Time	0~30S	2S	15	
C02	Current Unbalance	10~100%	50%	16	Set to 100 to disable current unbalance.
C03	Current Unbalance Time	0~30S	3S	17	
C04	Underload	30~100%	100%	18	Set to 100 to disable underload.
C05	Underload Time	0~30S	5S	19	
C06	Motor Overload Level	10A, 10, 20, 30, OFF	30	20	
C07	Motor Stall Multiple	5~10Ie	6	21	Set to 5 to disable stall protection.
C08	Phase Sequence Detection	0. Disable 1. Enable	0	22	
C09	Start-up Overtime	5~120S	60S	23	
C10	Overvoltage	100~150%	130%	24	Set to 100 to disable overvoltage.
C11	Undervoltage	40~100%	50%	25	Set to 100 to disable undervoltage.
C12	Over/Undervoltage Time	0~30S	3S	26	

C13	Silicon Short-circuit Gain Value	5~20	5	27	For example: Transformer 500/5, C13=5, E09=3%. When any phase of the programmable relay detects current exceeding 500%×5÷5=15A without triggering, the protection is activated and an alarm is issued.
C14	Phase Failure Delay	0~5S	3S	28	
C15	Protection Parameter Reset	-	0	29	Input 10 is valid.

Chapter 15. Function Settings

Function Code	System Name	Parameter Range	Factory Value	Communication Address	Parameter Description
D00	Control Mode	0. Keyboard 1. Terminal 01 2. Keyboard & Terminal 01 3. Terminal 11 4. Keyboard & Terminal 11	0	33	
D01	DC Output Mode	0. 4~20mA 1. 0~20mA	0	34	
D02	DC Corresponding Relationship	0. 0~1Ie; 1. 0~2Ie; 2. 0~3Ie; 3. 0~4Ie; 4. 0~5Ie; 5. 0~Ue; 6. 0~2Ue	1	35	
D03	Terminal DI Function	0. Fault Reset; 1.Instantaneous Stop Protection	0	36	Fault Reset: DI- COM is a normally open contact, momentary action for fault reset. Instantaneous Stop Function: DI- COM is a normally closed contact, generally used for interlock control with external protection switch' s normally closed contact. Disconnection leads to unconditional shutdown and highlighted display of "Instantaneous Stop State" on the LCD screen.

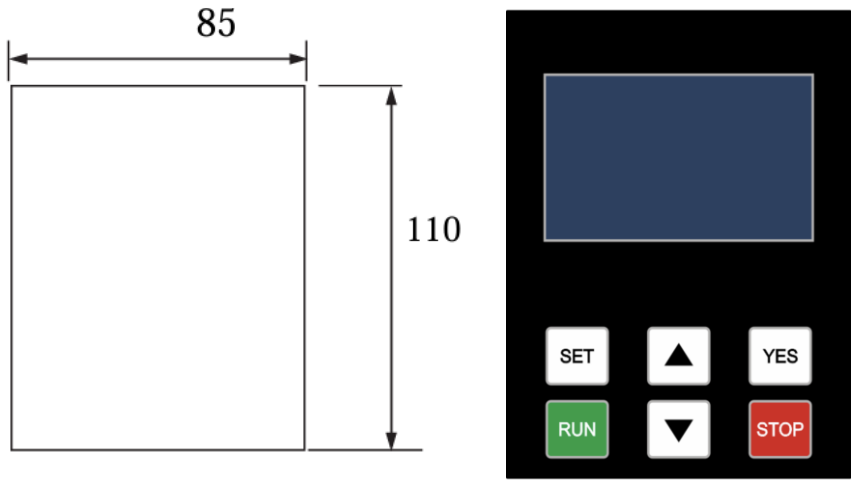
D04	K1 Function Programming	0-Start Close; 1-Run Close; 2-Soft Stop Close; 3-Full-process Close; 4- Fault Close; 5-Silicon Short-circuit Close; 6-Start Open; 7-Run Open; 8- Soft Stop Open; 9-Full-process Open; 10-Fault Open; 11-Silicon Short-circuit Open; 12-Feeder Function; 13-Delay Close	1	37	Feeder Function, Action Value Setting Parameters C19~ C22
D05	K1 Programming Delay	0~60S	0S	38	
D06	K2 Function Programming	Same K1 function	5	39	
D07	K2 Programming Delay	0~60S	0S	40	
D08	K3 Function Programming	Same K1 function	4	41	
D09	K3 Programming Delay	0~60S	0S	42	
D10	Communication Address	1-32	1	43	
D11	Baud Rate	0-(4800), 1-(9600), 2-(19200)	1	44	

D12	Communication Control	0-Off; 1-On	1	45	
D13	User Password	0-9999	0	46	Universal User Password 123, 0 for Off.
D14	Phase A Current Coefficient	100~500	-	47	
D15	Phase B Current Coefficient	100~500	-	48	
D16	Phase C Current Coefficient	100~500	-	49	
D17	DC Coefficient	100~500	-	50	
D18	Voltage Coefficient	100~500	-	51	
D19	Current Close Value	0~80%	30	52	
D20	Current Close Delay	0~10S	1S	53	
D21	Current Open Value	50~100%	80	54	
D22	Current Open Delay	0~10S	1S	55	

Chapter 16. Operation Instructions for Display Panel and Hole Opening Dimensions

1. Operation Instructions for Keyboard Panel and Hole Opening Dimensions

The keyboard panel has rich operation functions, such as data confirmation and change for run and stop functions, as well as various status confirmation functions.



2. Functions of Keyboard Buttons

Key Name	Main Function
Setting Key-1	Press this key to enter the main menu; corresponding to numeric keypad 1
Up Key-2	Press this key to select relevant parameters; corresponding to numeric keypad 2
Confirm Key-3	After selecting the required parameter, press this key to save; corresponding to numeric keypad 3
Start Key-4	In standby state, press this key to start the motor; corresponding to numeric keypad 4
Down Key-5	Press this key to select relevant parameters; corresponding to numeric keypad 5
Stop Key-6	Press this key to stop the machine in running state; press this key to reset in fault state; corresponding to numeric keypad 6

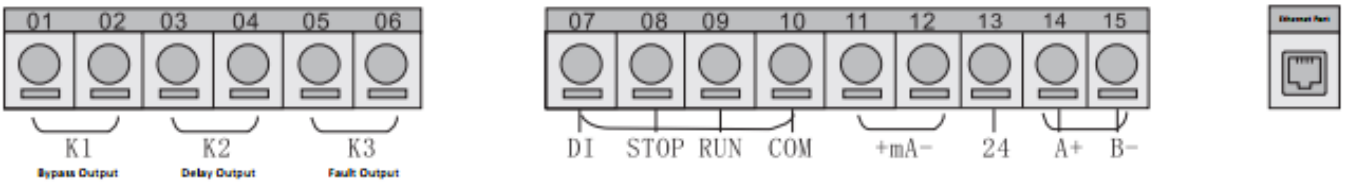
1. When a password is required, please use the corresponding numeric keypad;

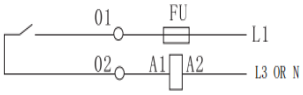
2. Please press the stop key to reset when there is a fault;

3. For parameter setting, press the setting key to enter, then select the required parameter via the up/down keys, and press the confirm key to save.

Chapter 17. Definition of Control Board Terminals

1. Terminal Wiring Description



Category	Terminal Mark	Terminal Name	Function Description
Contact Output (Passive)	01, 02	Startup to Top No Delay Output (Closed)	01, 02 are closed after soft start completion, serving as the bypass electromagnetic contactor or run indicator. 
	03, 04	When Start Command is Issued (Closed)	03, 04 are programmable relay outputs. The delay time is set by code F4, and the output function is set by code F6. They are normally open contacts, closed when the output is valid. (Contact capacity: AC250V/3A)
	05, 06	When Fault Occurs (Closed)	05, 06 are programmable fault relay outputs, closed when the soft starter fails or loses power, and open when power is connected. (Contact capacity: AC250V/3A)
Contact Input (Active)	07	Instantaneous Stop Input	When 07 and 10 are open, the motor stops immediately (or in series with the normally closed points of other protectors).
	08	Soft Stop Input	When 08 and 10 are open, the motor executes a decelerated soft stop (or stops automatically).
	09	Start Input	When 09 and 10 are closed, the motor starts running automatically.
	10	Common Terminal	Common terminal for contact input signals.

Analog Output	11, 12	Analog Output	Terminals 11 and 12 output current feedback signals corresponding to motor load, output 4-20mA or 0-20mA (selectable). Calibrated value is 100. Formula: $D=\frac{100}{16}\times(I_z-4)$, where is the actual measured current (mA), and D is the motor load current (%) (it can also be understood that 20mA corresponds to the rated current set by the user).
DC Voltage Output	13 (24+), 10 (COM)	DC Voltage Output Terminal	Can carry a 0.2A DC load. 13 (24+) is the positive power supply, and 10 (COM) is the negative power supply.
485 Communication	14, 15	485 Communication Terminals	See the 485 Communication Protocol for details

(1). Contact Input Terminals

(1). To control the start and stop functions of the soft starter using external terminals, set the start-stop control to 1 (Keyboard + Terminals).

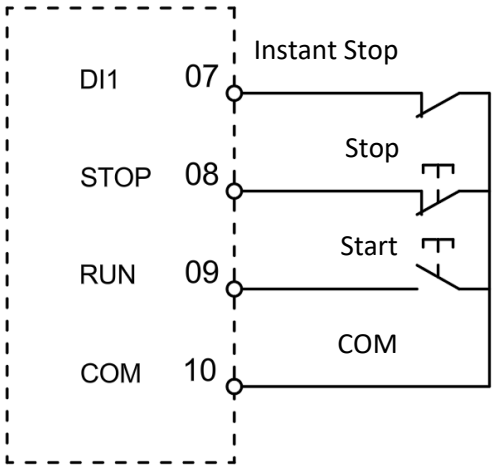
(2). If remote control is required, it is recommended to use the (normally closed) break mode.

(3). When contact input signals and common terminals perform on/off actions, the soft starter, motor, and wiring may generate interference. Therefore, wiring should be as short as possible (within 20m), and shielded cables are recommended.

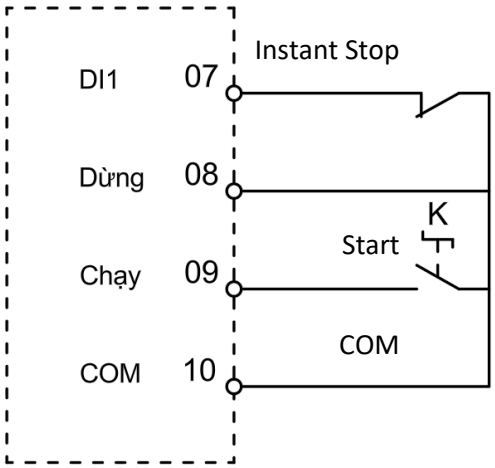
(4). The wiring of control terminals must be kept away from the wiring of the main circuit as much as possible. Otherwise, misoperation may occur due to interference.

2. External Wiring Methods

Three-wire Control Method

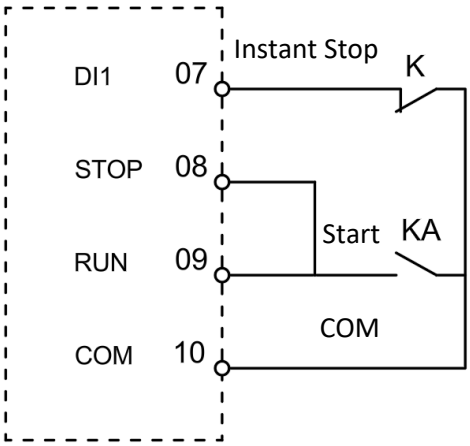


Two-wire Control Method

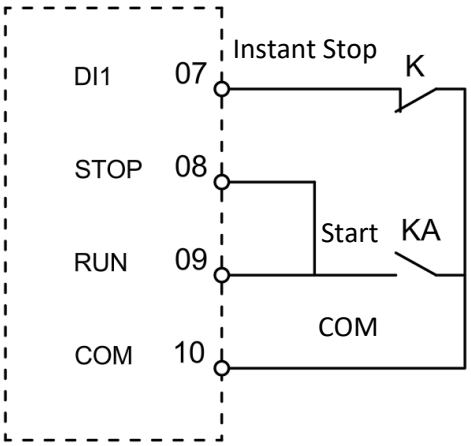


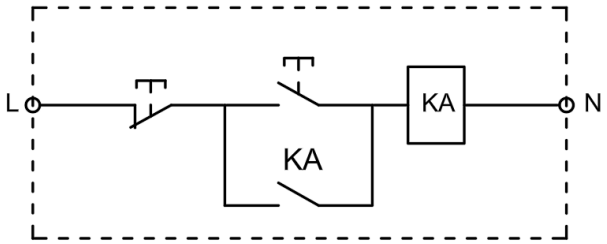
3. Wiring Diagram for Relay and Remote Control

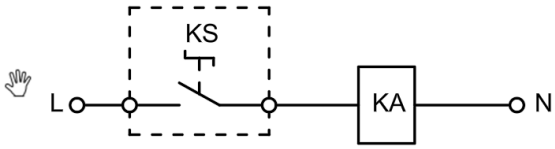
Relay Control Mode



Relay Control Mode







Chapter 18. Fault Description

Fault Code	Fault Name	Fault Cause	Troubleshooting Method
01	Input Phase Loss	Phase loss during start-up or operation	Check if the three-phase power supply is reliable, properly adjust the phase loss delay (C14).
02	Output Phase Loss	Load phase loss or thyristor breakdown	Check load wiring, check if the thyristor is broken down.
03	Running Overcurrent	Sudden load increase, excessive load fluctuation	Check the load operation status, adjust the running overcurrent protection (C00), properly adjust the running overcurrent time (C01).
04	Current Imbalance	Three-phase current imbalance of the equipment	Observe whether the motor starts or runs smoothly, adjust the current imbalance (C02), properly adjust the current imbalance time (C03).
05	Power Supply Phase Reversal	Phase sequence is reversed	Adjust the phase sequence or set to not detect the phase sequence.
06	Parameter Loss	Abnormal circuit board or poor power quality	If parameter loss occurs and parameters are still lost after powering on again, please contact the manufacturer.
07	Frequency Abnormality	The frequency of the three-phase input power of the soft starter exceeds the required range	Check the frequency of the three-phase input power at the input terminal.
08	Start-up Overtime	Start-up time exceeds the set time	Observe whether the motor is stable during start-up, properly adjust the start-up parameters, especially the current limiting multiple (C09).

09	Underload	Running current is lower than the set underload value	Check the load operation status.
10	Electronic Thermal Overload	Current duration exceeds the set curve value	Check whether the motor overload level (C06) is reasonable, check the load start-up or operation status.
11	Overvoltage	Voltage is higher than the set value	Check the power supply, check whether the overvoltage (C10) is reasonable, properly adjust the over/ undervoltage time (C12).
12	Undervoltage	Voltage is lower than the set value	Check the power supply, check whether the undervoltage (C11) is reasonable, properly adjust the over/undervoltage time (C12).
13	Locked Rotor	Start-up current exceeds the locked rotor current	Check the load, check whether the motor stall multiple (C07) is reasonable.
14	Thyristor Overheating	Heatsink overheating	Check if the start-up time is too long; for bypass type: check whether the contactor is reliably closed after operation; for online type: check whether the cooling fan is running well.
15	Silicon Short Circuit	Abnormality in the main circuit	Disconnect the incoming circuit breaker, check whether the thyristor is broken down.
16	System Abnormality	Abnormality of the soft starter equipment	Please contact the manufacturer immediately.
17	Abnormality of External Control Terminals	Wrong wiring of normally closed or normally open contacts	Please refer to the terminal application wiring diagram for correction.

Chapter 19. Maintenance and Upkeep

1. Daily Maintenance and Upkeep

Changes in the operating environment of the soft starter, such as temperature, humidity, smoke, and the aging of internal components, may lead to various faults. Therefore, daily inspections and regular maintenance must be performed during storage and use. When the soft starter is operating normally, confirm the following items:

- Whether the motor has abnormal noise or vibration.
- Whether the soft starter and motor are overheating abnormally.
- Whether the ambient temperature is too high.
- Whether the load current value is consistent with the usual value.
- Whether the cooling fan of the soft starter is running normally.

2. Regular Maintenance and Upkeep

2.1. Regular Protection

For the soft starter to operate normally for a long time, regular maintenance must be carried out based on the service life of its internal electronic components. The service life of electronic components varies with their operating conditions. The following maintenance period of the soft starter is for user reference only.

2.2. Regular Upkeep

Users can conduct a regular routine inspection of the soft starter every short period or 3-6 months according to usage to eliminate potential faults and ensure long-term high-performance and stable operation. Routine inspection contents:

- Whether there is poor contact at the main circuit terminals, and whether there are overheating marks at cable/ copper bar connections, screws, etc.
- Whether there is damage to power cables and control wires, especially if the external insulation layer is cracked or cut.
- Whether the connections of power cables and cold-pressed terminals are loose, and whether the insulation tape at the connections is aging or falling off.
- Check the printed circuit board (PCB) for dust and take anti-static measures when cleaning.

- For the insulation test of the soft starter, first remove all connections between the soft starter and the power supply, and between the soft starter and the motor. Use a qualified 500V megohmmeter (or an insulation tester of the corresponding voltage level) to test the insulation between each main circuit input/output terminal and the ground. After the test, be sure to short-circuit the main circuit terminals with a wire. Never test the insulation of the control terminals, otherwise the soft starter will be damaged. After the test, remember to remove all wires that short-circuit the main circuit terminals.

Warranty Card

Product Information

Product name

Product Name: _____

Product Model: _____

Purchase Date: _____

Customer Name: _____

Customer Address: _____

Contact Number: _____

Warranty Description

1. Free warranty service is provided within 18 months from the date of purchase, and lifetime paid service is available.
2. Exemption clauses: Product faults caused by the following reasons are not covered by the manufacturer's 18-month free warranty service. Even within the warranty period, only paid repair is offered.
(1). The user fails to operate correctly as per the procedures in the User Manual;
(2). The user repairs/modifies the product without communicating with the manufacturer or without authorization, resulting in product faults;
(3). The user uses the product beyond its specified range, causing faults;
(4). The user's use environment is poor, leading to abnormal aging or failure of components;
(5). Product damage caused by earthquakes, fires, typhoons, lightning, abnormal voltage, or other irresistible natural disasters;
(6). Product damage caused by improper transportation methods or other external forces during transportation after purchase; In the following situations.
3. The manufacturer has the right to refuse warranty service:
(1). When the brand, trademark, serial number, and model markings on the product are damaged or unidentifiable;
(2). The user fails to pay as per the Purchase Contract signed by both parties;
(3). The user causes product faults due to improper use during installation, wiring, operation, maintenance, or other processes through the manufacturer's designated after-sales service provider;
4. For faulty products, our company has the right to entrust others to handle warranty matters.

Chapter 20. Product Certificate of Conformity

Product Name (Name): _____

Product Model (Type): _____

Inspector: _____

Test Date: _____

After inspection, the product conforms to the requirements of the technical standards and is approved for factory shipment.