SIMATIC motion

ACDRIVE DM V1.00

Energy saving | Environment protection | Intelligent control | Perfect service



KSS100 Series

AC motor solid state soft starter

PRODUCT INTRODUCTION

This series of solid-state soft starters for AC motors is a new type of motor starting equipment designed and produced using power electronics technology, microprocessor technology, and modern control theory, which is at the forefront of international standards. This product can effectively limit the starting current of asynchronous motors during startup, and adopts a unique protection algorithm to effectively protect the motor and related equipment. It is widely used in loads such as fans, water pumps, conveyors, and compressors, and is an ideal replacement for traditional star/delta conversion, autotransformer voltage reduction, magnetic control voltage reduction, and other voltage reduction starting equipment.

NAMING CONVENTION

KSS100 - 4T(2S) - 015 - G

① ② ③ ④

No.	Content	Instructions
1	Product series	AC motor solid state soft starter
2	Voltage level	2S:220V 4T:380V
3	Rated current	15A
4	Heav Load	Heav Load

PRODUCT FEATURES

01 More control

KSS100 series soft starter/cabinet adopts a new generation of soft starter technology, and adaptive control realizes the control of the motor acceleration curve and deceleration curve to an unprecedented level.

The soft starter reads the data of the motor in the process of starting and stopping, and then adjusts to achieve the best effect. Just select the curve most suitable for your load type, and the soft starter will automatically ensure that the load is accelerated in the most stable way possible.

02 Easy to use

- Whether in the process of installation, debugging and use, or troubleshooting, KSS100 is very easy to use;
- Quick setting can make the machine run quickly, the information screen can display various operating data, and the trip message can be displayed in language to explain exactly where the problem is;;
- The control cable can be routed from the top, bottom or left. Very flexible and unique cable access and fixing devices make the installation faster and more tidy and beautiful. You will experience the use soon.

03 Multiple starting control methods

- A variety of starting methods can meet your various load requirements, and users can choose the starting method according to their own load conditions;
- KSS100 simplifies the installation and operation of the motor starting system, thereby reducing installation costs and shortening installation time.

04 Features

KSS100 series is a highly intelligent, very reliable and easy-to-use soft starter/cabinet. The newly designed functions of KSS60 are used for quick setting or more personalized control. It is a perfect solution. Its performance includes:

- Large LCD screen that can display feedback information in Chinese and English languages, other languages can be customized;
- Remotely installable operation panel;
- Intuitive programming;
- Advanced start and stop control functions;
- A series of motor protection functions;
- Extensive performance monitoring and event logging;
- Built-in bypass, small size, low heat;
- After starting, the power consumption of the internal contactor is low;
- The water output used in the pump is the same as the power frequency;
- The simulation design can test the control loop without load.



05 Real-time display of real language

This series of soft starters is operated through an LCD display function keyboard. These operations include: data display, data setting and storage, data query, fault protection display, fault reset, motor start stop control, etc.

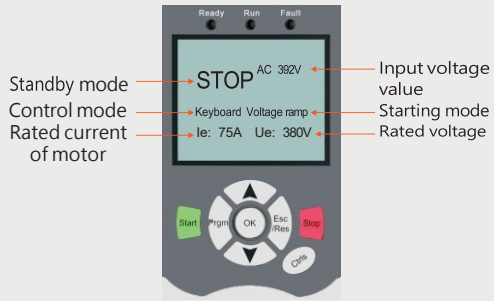


Figure A Standby mode

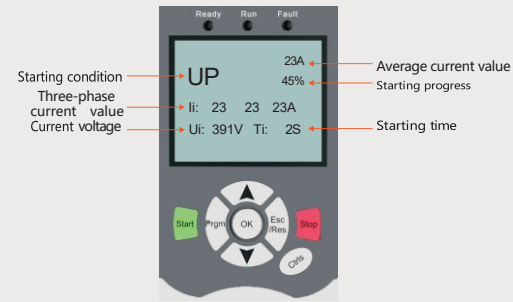


Figure B Starting condition

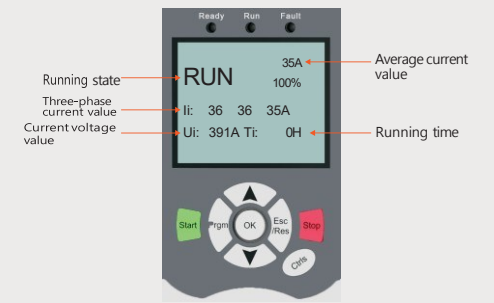
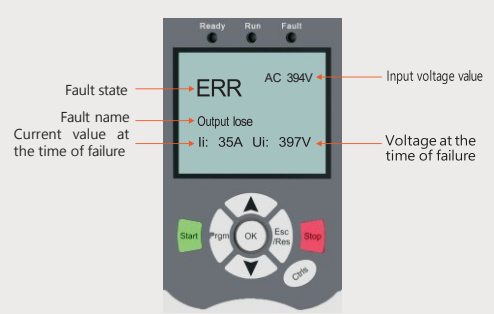
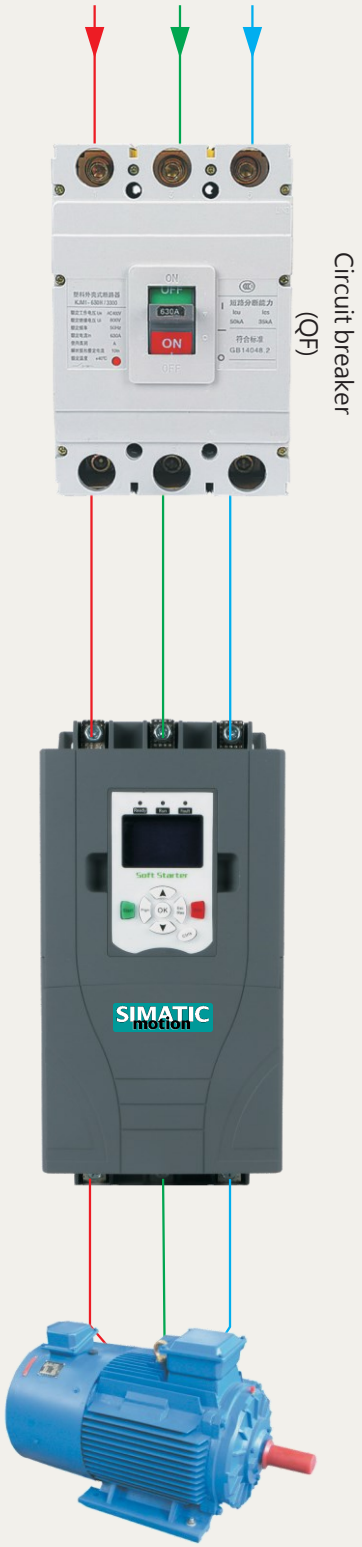


Figure C Running state



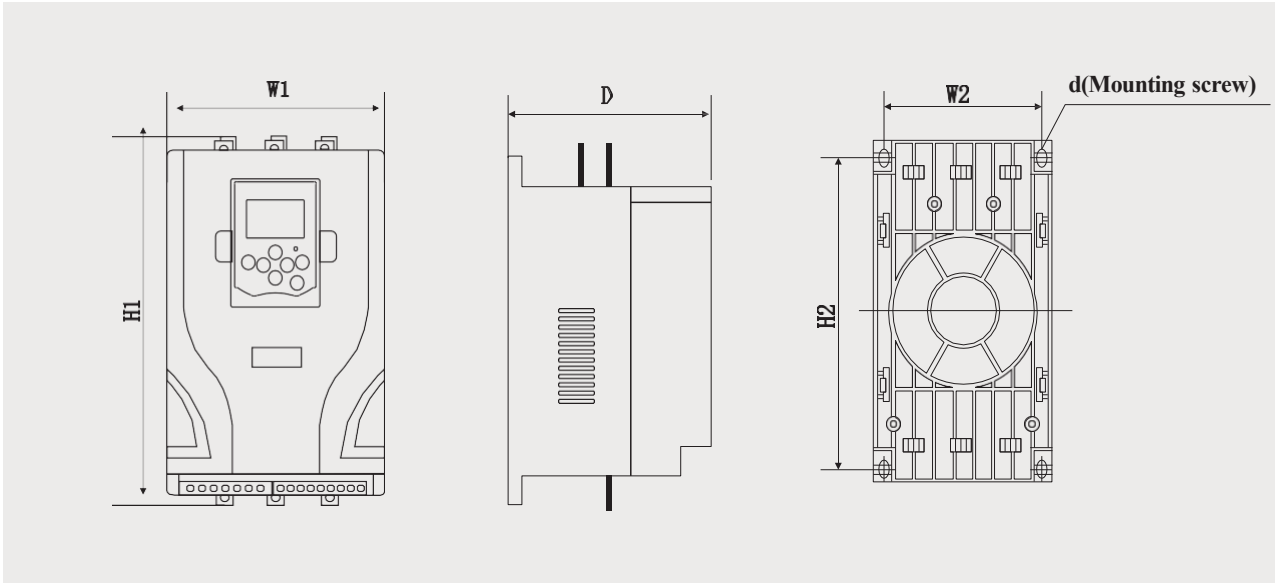


Squirrel cage three-phase asynchronous motor

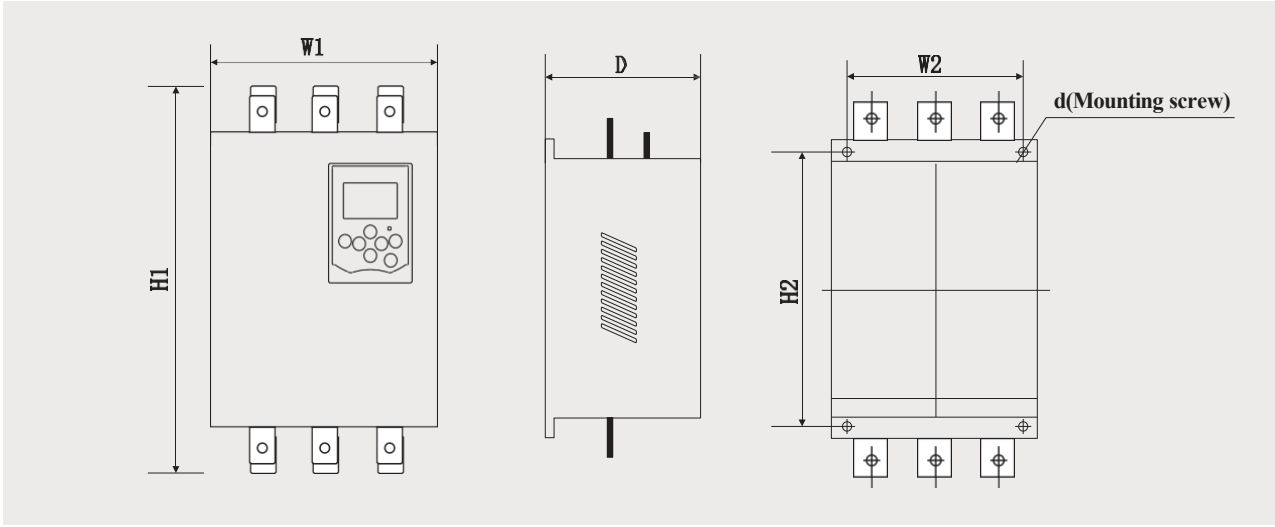
OVERALL DIMENSION

External bypass structure and dimensions

5.5kW~75kW (Fig.12-1)



90kW~800kW (Fig.12-2)

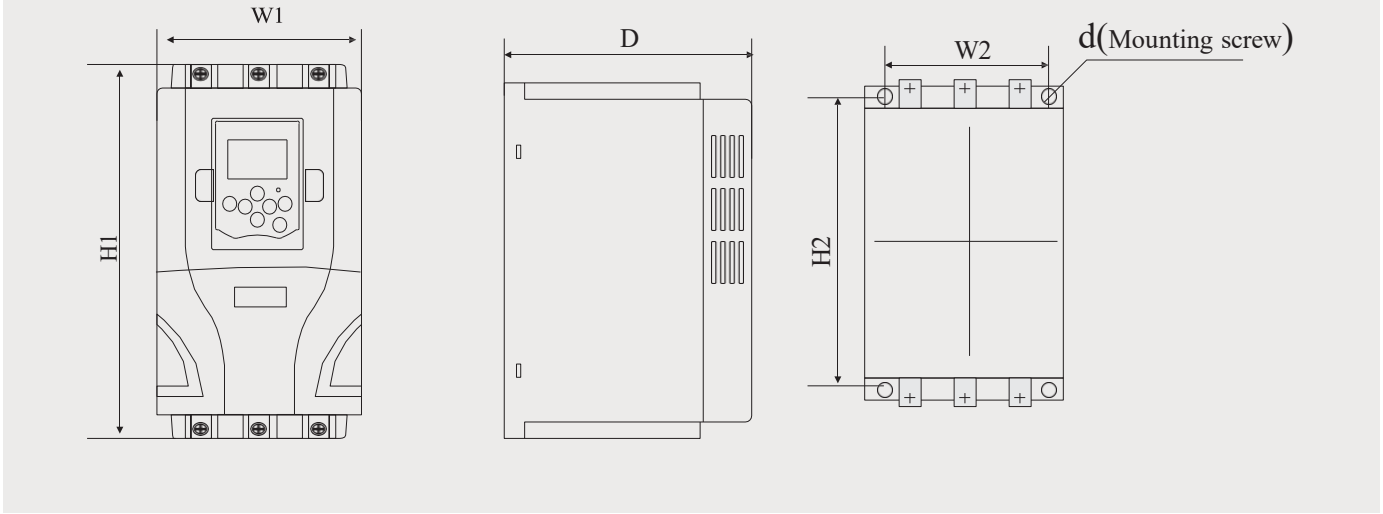


Rated Power (kw)	Outline Dimension(mm)			Install Dimension (mm)			External drawing
	H1	W1	D	H2	W2	d	
5.5~75(light)	285	146	163	250	133	M6	Fig.12-1
75	300	150	175	260	126	M6	Fig.12-1
90~220	435	260	204	360	225	M8	Fig.12-2
250~350	460	290	204	390	255	M8	Fig.12-2
400~500	480	330	204	405	295	M8	Fig.12-2
630~800	620	420	214	550	380	M10	Fig.12-2

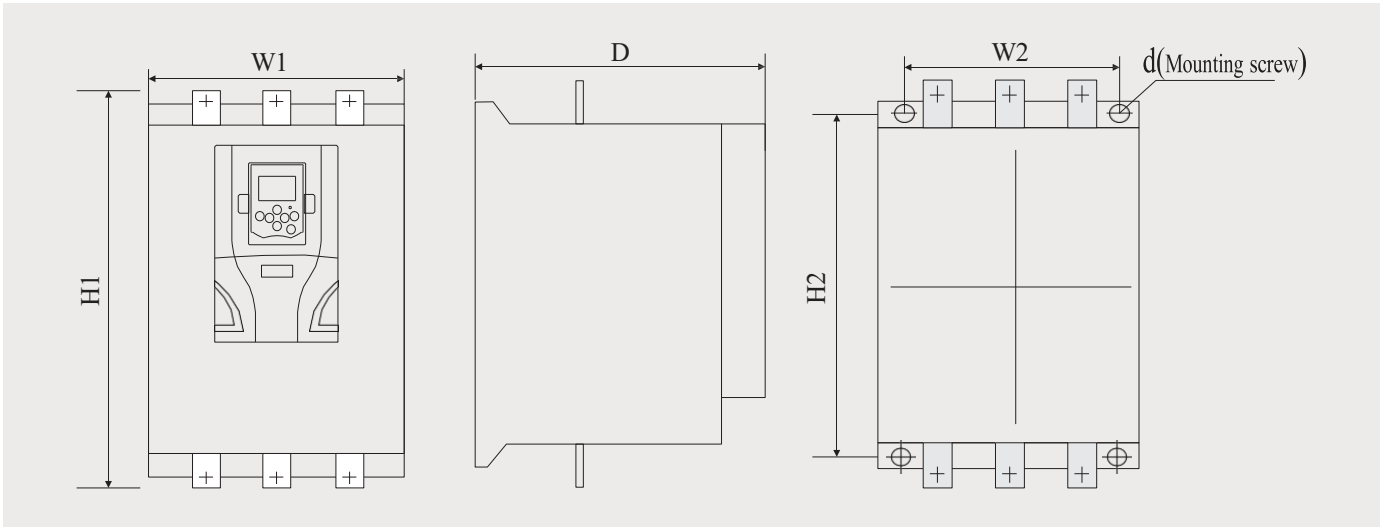
OVERALL DIMENSION

Built in bypass structure and external dimensions

5.5kW~45kW (Fig.12-3)



55kW~630kW (Fig.12-4)

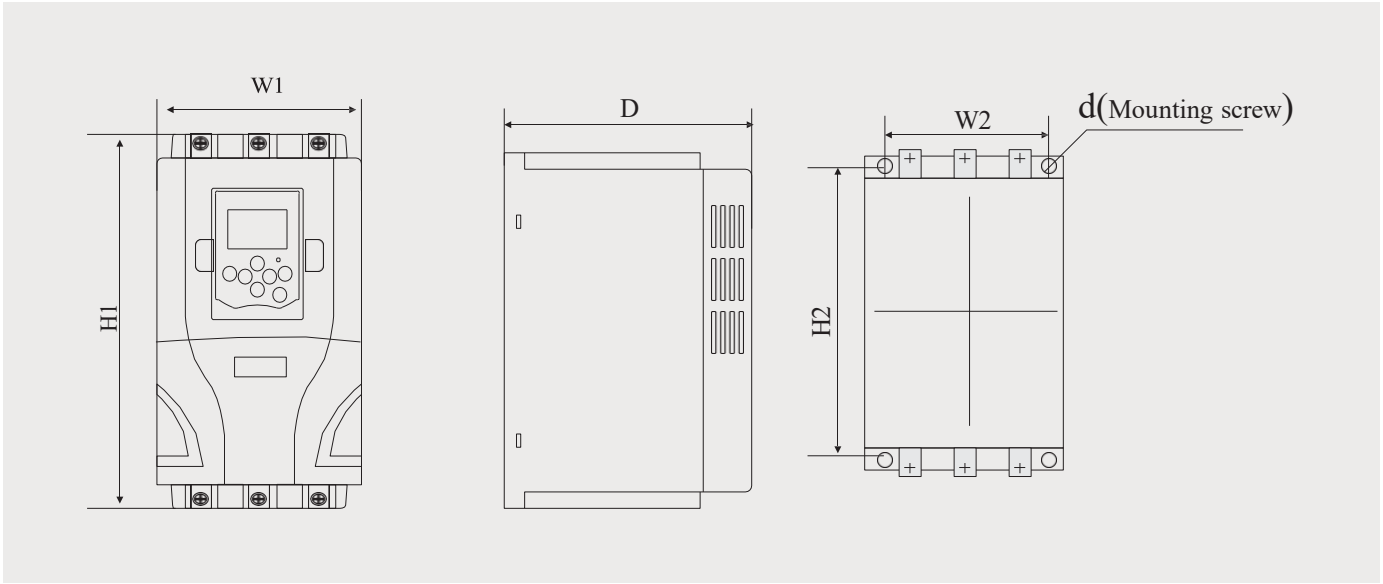


Rated Power (kw)	Outline Dimension(mm)			Install Dimension (mm)			External drawing
	H1	W1	D	H2	W2	d	
5.5~22	240	106	176	218	75	M5	Fig.12-3
30~75	295	143	190	278	110	M6	Fig.12-3
90~220	513	260	235	460	206	M8	Fig.12-4
250~400	577	300	235	525	246	M8	Fig.12-4

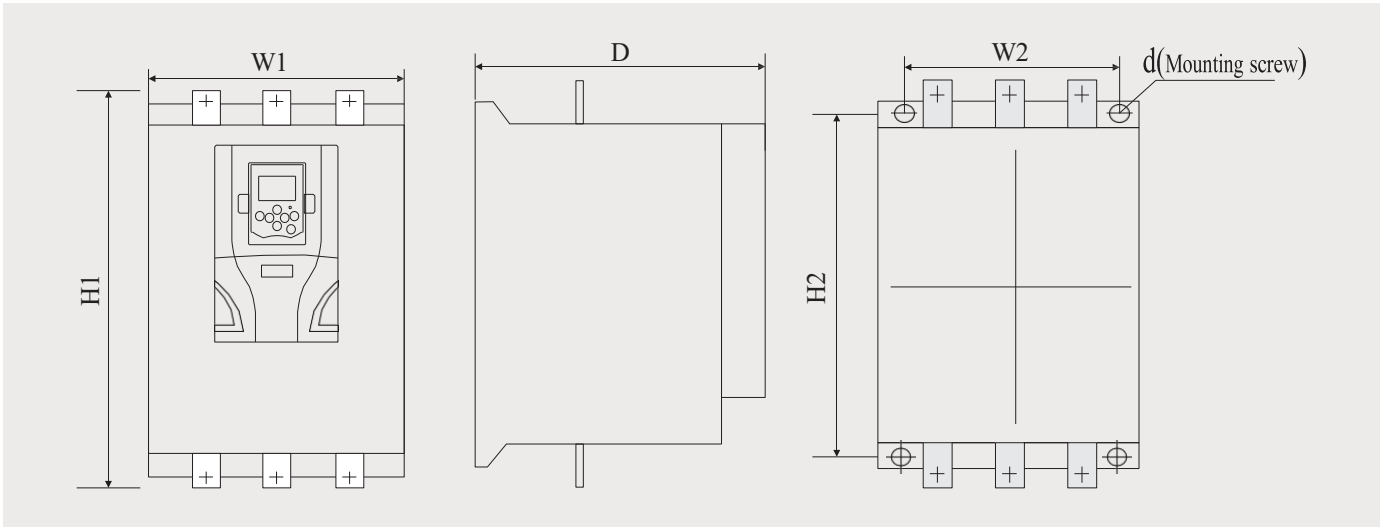
OVERALL DIMENSION

Online structure and external dimensions

5.5kW~45kW (Fig.12-5)



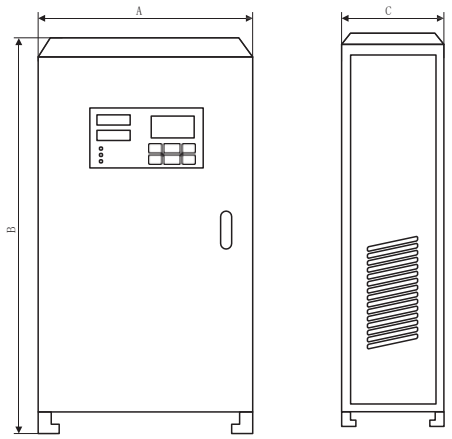
55kW~630kW (Fig.12-6)



Rated Power (kw)	Outline Dimension(mm)			Install Dimension (mm)			External drawing
	H1	W1	D	H2	W2	d	
5.5~37	240	106	176	218	75	M5	Fig.12-5
45~75	295	143	190	278	110	M6	Fig.12-5
90~115	350	200	225	300	140	M8	Fig.12-6
132~200	430	230	225	370	170	M8	Fig.12-6
220~350	480	466	270	430	335	M8	Fig.12-6
400~500	550	466	295	500	335	M8	Fig.12-6
630~800	650	620	320	650	560	M10	Fig.12-6

OVERALL DIMENSION

Motor soft starter cabinet dimensions



Rated Power (kw)	Outline Dimension(mm)		
	A (Wide)	B (High)	C (Deep)
7.5~115	300	850	300
132~200	450	1100	400
250~400	600	1460	500
450~800	600	1700	500

FUNCTION INTRODUCTION



Main loop L1,L2,L3 three outputs

LCD display
English and Chinese optional

8 key operation keyboard

Main loop U, V, W three outputs

Optional soft start curve

- Voltage ramp start ;
- Current limit start.

Expanded input and output options

- Remote control input ;
- Relay output ;
- RS485 communication output.

Customizable protection

- The input phase;
- Out of phase;
- Operating overload;
- Starting overcurrent;
- Operating overcurrent;
- underload.

Optional soft stop curve

- Free parking;
- Timed soft parking.

Easy-to-read display shows comprehensive feedback

- Removable operation panel;
- Built-in Chinese + English display.

Models that meet all connection requirements

- 0.37-115KW(rated);
- 220V AC-380VAC;
- Star connection orinner delta connection.

This soft starter is an advanced digital soft stat-ing solution for motors with power ranges from 0.37kW to 115kW. A comprehensiveset of motor and system protection features guarantees reliable performance even in the harshest installation environments.