# SINODRIVE200
## AC DRIVE

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11 5661-7579 /3368-4326

Rua Doutor Brasilio Machado
Neto, 103 - Vila Lisboa

CEP: 04776-133 - São Paulo/SP

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# Naming Rules

SD200 -4T 7.5 G /11 P C

| | AC Drive Series |

| Mark | Voltage Level |
|---|---|
| 2S | Single-phase 220V |
| 2T | Three-phase 220V |
| 4T | Three-phase 380V |

Adaptable Motor

| Mark | Brake Unit |
|---|---|
| Null | None |
| C | Including brake unit |

| Mark | Function Type |
|---|---|
| G | General |
| P | Fan&Pump |

# Nameplate

**SINOVO** CE (A)

MODEL: SD200–4T–5.5G/7.5P C — AC Drive model
INPUT: AC3PH 380V 50/60Hz 14.6A/20.5A — Rated input voltage, frequency and current
OUTPUT: AC3PH 380V 0~600Hz 13A/17A — Rated output voltage, frequency and current
S/N: ‖‖‖‖‖ — Bar code
FDLAGCA0A040

SHENZHEN SINOVO ELECTRIC TECHNOLOGY CO.,LTD.
MADE IN CHINA

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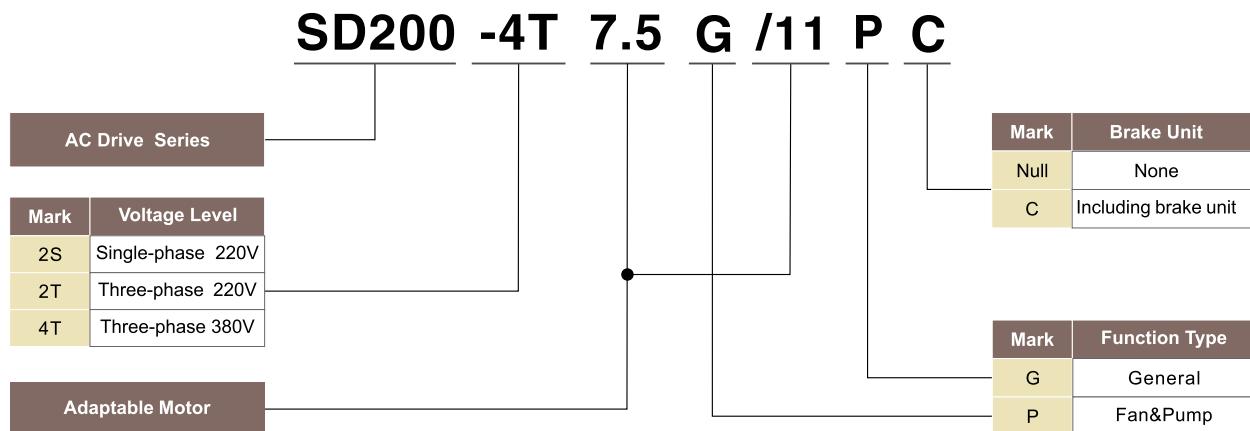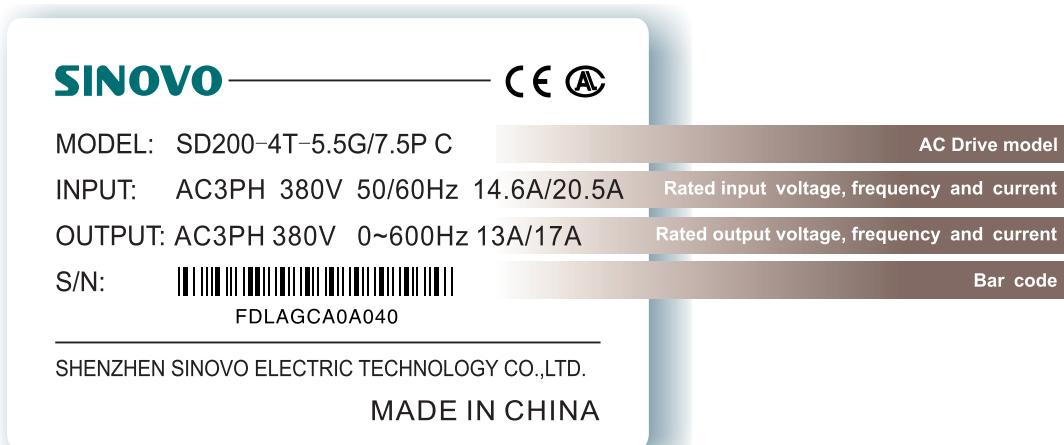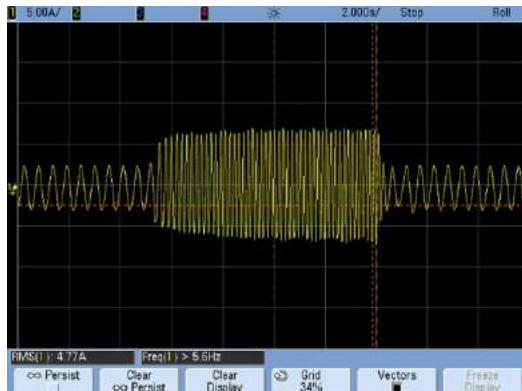
## Product Features
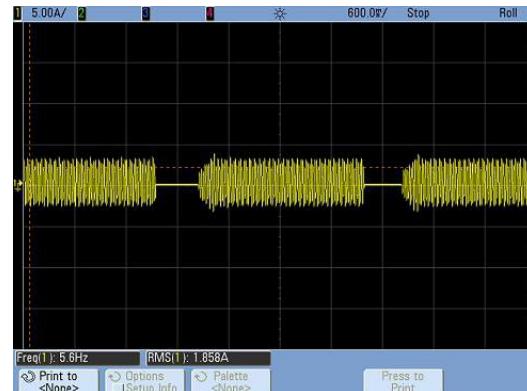
**01    Features and Functions**
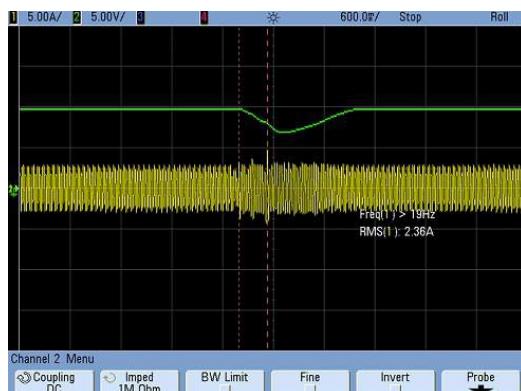
☞ Low frequency and large torque output, VF control mode, under low frequency of 1 Hz 150% load current waveform
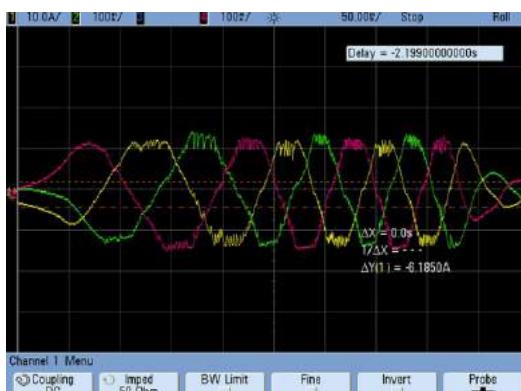


☞ Open–loop vector control mode, under 0.5 Hz 150% load current waveform



☞ Load feedback energy compensates the voltage reduction so that the AC drive can continue to run in a short time in case of power interruption. When the power input normal, it return to normal operation.



☞ Fast and effective hardware current limiting technology, when the current of each phase is greater than the limit value during detecting, the logic circuit in the 5uS forced to close the PWM output to complete the wave limit control. The following figure is the motor rotor under high speed rotation start–up and three–phase current hardware current–limiting waveform





☞ In the following figure, the hardware limits of the motor three–phase. current is forced to flow through the inner limit point.

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## Product Features

**02** **Features and Functions**

### Multiple motor switch



SD200

Asynchronous motor 1        Asynchronous motor 2

Dual–motor switch enables two separate motors, free switch–ing in the independent control mode..

### Motor overheating protection

Select input and output expansion card, analog input AI5 can accept motor temperature sensor input (PT100, PT1000), when the motor temperature is higher than the overheating protection value, the AC Drive fault output will protect the motor properly.



Overheating

Thermocouple

### Virtual IO function

SD200 series AC drive possess virtual input/output terminal function. The virtual input/output control is achieved by RS485 communication setting. The function code F05.11 will shift the physical digital input DI terminals to virtual input terminals, its function corresponding to physical terminals function setting.

For example: Enable virtual terminal DI2 as external fault alarm function, set as follows:
F05.11=1，F05.02=9，3009H=0x0002（Rs485 communication setting)

Digital output terminal Do1, relay output T1, T2 possess flexible output characteristic, after setting corresponding parameter enable validity can be adjusted by communication function freely.

For example: Enable relay T1 action, set as follows:
F06.03=23, 300AH=0x0004 (RS485communication setting)
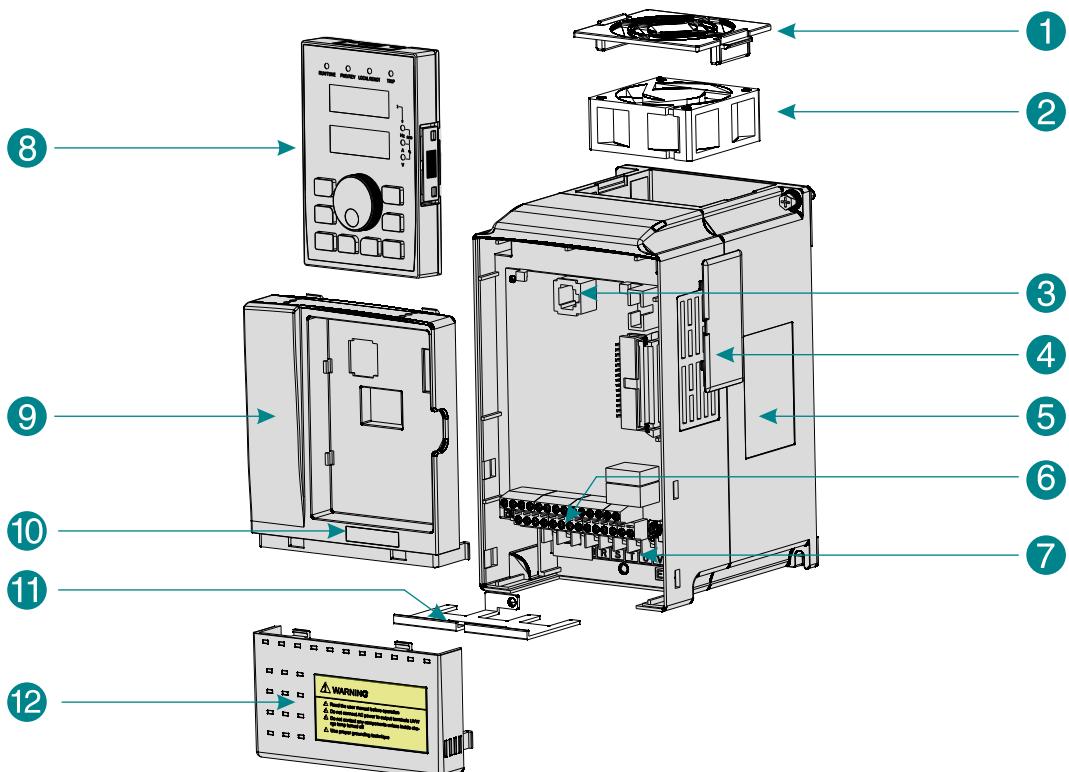
### Flexible and practical analog input / output ports

▶ AI1 ~ AI3 3 standard virtual analog, AI 2 and AI 3can set 3 points curve and flexible to use

▶ AI 1~AI 3 with factory calibration or user–site calibration of linear curves and the accuracy achieves 20mV.

▶ AO1 and AO2 with factory calibration and user–site calib–ration of linear curves zero drift and gain and the accuracy achieves 20mV.

▶ Extension AI5 is isolate input port, it can be used as PT100 , PT1000 or 0 +10v input port.

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# SD200 Structure Diagram
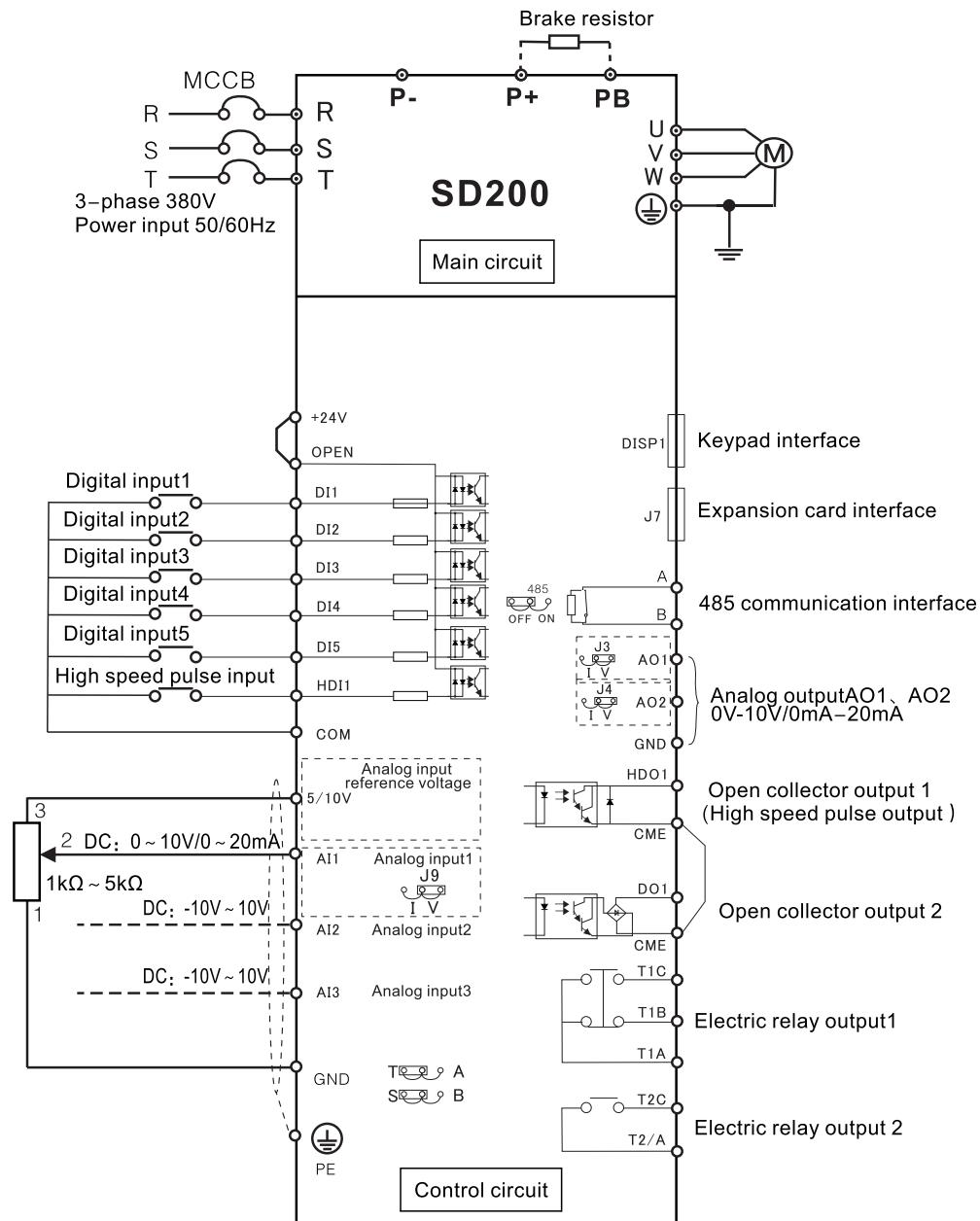
SD200 Product structure diagram (7.5kw,for example)

| NO. | Name | Description |
|-----|------|-------------|
| 1 | Fan cover | Protection fan. |
| 2 | Cooling fan | See SD200 user manual 8.1 "Definition of Related Terms." |
| 3 | Keypad interface | It is used to connect the Keypad. |
| 4 | Vents-cover | Optional. with the vents-cover installed, the protection level will increase and the AC drive internal temperature will increase as well so please derating use the AC drive. |
| 5 | Nameplate | See SD200 user manual 2.4"Nameplate" |
| 6 | Control terminal | See SD200 user manual 3.3"Standard Wiring" |
| 7 | Main circuit terminal | See SD200 user manual 3.3"Standard Wiring" |
| 8 | Keypad | See Sd200 user manual Chapter4 "Operation, Display and Application Examples." |
| 9 | Cabinet-cover | Protect the internal components. |
| 10 | Series label | See SD200 user manual 2.3 "Naming rules" |
| 11 | Apron | Convenience input and output wiring |
| 12 | Lower cover | Protect the internal components |

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# Basic Wiring Diagram

Brake resistor

MCCB

R —— R
S —— S
T —— T

3-phase 380V
Power input 50/60Hz

P-    P+    PB

SD200

U
V
W
M

Main circuit

+24V

OPEN

Digital input1 — DI1

Digital input2 — DI2

Digital input3 — DI3

Digital input4 — DI4

Digital input5 — DI5

High speed pulse input — HDI1

COM

Analog input
reference voltage
5/10V

3
2  DC：0~10V/0~20mA
1kΩ~5kΩ
1
DC：-10V~10V    AI1    Analog input1
J9
I V

DC：-10V~10V    AI2    Analog input2

DC：-10V~10V    AI3    Analog input3

GND    T A
S B

PE

DISP1    Keypad interface

J7    Expansion card interface

485
OFF ON

A
B    485 communication interface

J3
I V    AO1
J4
I V    AO2    Analog outputAO1、AO2
0V-10V/0mA-20mA

GND

HDO1    Open collector output 1
(High speed pulse output )
CME

DO1    Open collector output 2
CME

T1C
T1B    Electric relay output1
T1A

T2C
T2/A    Electric relay output 2

Control circuit

**SD200 External Wiring Diagram**

🔵 **Note:**

1.SD200 series under 22kw is with standard onboard brake unit and the whole series applies standard RS485 communication interface.
2. This figure is suitable for the machine power level under SD200-4T-18.5G, other power levels please refer to the user manual.
3. The figure "〇" is Control circuit terminal "◉" is main circuit terminal.

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# Technical Specification

| Item | | Specification |
|---|---|---|
| **Basic Specification** | Max. output frequency | 0~600Hz |
| | Carrier frequency | 2.0kHz~10kHz, The carrier frequency is automatically adjusted on the load features. |
| | Input frequency resolution | Digital setting：0.01Hz　　　Analog setting：Max. frequency ×0.025% |
| | Control mode | 0：V/F control ；　1：Vector mode 0 control 0 |
| | Speed range | 1：50　　1Hz/150% Rated torque |
| | Overload capability | Type G：150%Rate current 60/s；　　Type P：110%Rate current 60/s |
| | Torque boost | Auto Torque boost　　Manual Torque boost 0.1%~20.0% |
| | V/F curve | Four modes: Line, Multi-point , Square V/F curve, V/F separation |
| | ACC/DEC curve | Line or S-curve Acc/Dec mode : four kinds of Acc/Dec time. Range of Acc/Dec time : 0.0~6000.0s |
| | DC brake | DC brake frequency：0.00Hz~Max. frequency<br>Brake time：0.0s~100.0s<br>Brake current：0.0~150.0% |
| | Jog control | Jog frequency range：0.00Hz~F00.03Maximum frequency |
| | Simple PLC Multi-speed running | 16-speed operating through built-in PLC or control terminal |
| | Onboard PID | It realizes process-controlled closed loop control system easily |
| | Automatic voltage regulation (AVR) | Jog frequency range:0.00Hz~Maximum frequency |
| | Over voltage stall control | The current and voltage are limited automatically during the running process so as to avoid frequent tripping due to overvoltage/overcurrent. |
| | Rapid current limit | Rapid software and hardware current limiting technology |
| **Individualized Function** | Non stop Function | Load feedback energy compensates the voltage reduction so that the AC drive can continue to run in a short time in case of power interruption. |
| | Speed tracking start | Identify the speed of rapidly rotating motor to realize a smooth start without any rush. |
| | Rapid current limiting | Rapid software and hardware current limiting technology helps to avoid frequent over-current fault. |
| | Virtual IO | Four sets of virtual Do and five sets of virtual DI enable easy logic control |
| | Timing Control | Timing control function: Set the time range: 0.0Min ～ 6500.0Min |
| | Multi-motor switch | Two independent motor parameters enable two motors switching control |
| | Bus Support | Two independent MODBUS communication, Profibus-DP |
| | Motor overheating protection | Optional IO expansion card 1, analog input T_Motor (AI5)analog input AI3 acceptable the input of motor temperature sensor（PT100、PT1000） |
| **Running** | Command source | Given the control panel,control terminal,serial commnunication port given.It can be switched by a variety of ways. |
| | Frequency source | 11 frequency sources: digital setting.analog voltage setting,analog current setting,pulse setting and serial port. It can be switched by a variety of ways. |
| | Auxiliary frequency source | 11 auxiliary frequency source.Flexible implementation of auxiliary frequency tuning, frequency synthesis. |
| | Input terminal | Standard:<br>. Six digital input terminals, one of which support to 50kHz high-speed pulse input<br>. Three analog input terminals, two of which supports -10V ~ 10V voltage input<br>. One support 0 ～ 10V voltage input or 0 ~ 20mA current input<br>Expansion capability:<br>. Two digital inputs<br>. One analog input terminal, support -10V ~ 10V voltage input, and supports PT100 / Pt1000 |
| | Output terminal | Standard:<br>. One high-speed pulse output terminal (optional open collector type), support of 0 ~ 50kHz square wave signal output<br>. One digital output terminal<br>. Two relay output terminals<br>. Two analog output terminals, support 0 ~ 20mA current output or 0 ~ 10V voltage output<br> Expansion capability:<br>. One digital output terminal, one relay output terminal<br>. One analog output terminal, support 0 ~ 20mA current output or 0~10V voltage output. |

## Technical Specification

| Item | | Specification |
|---|---|---|
| **Operatio and Display** | LED display | Display each parameter of function code group |
| | Key lock and selection function | Achieve some or all of the keys locked and define the scope of partial keys to prevent misuse. |
| | Protection function | Powered motor short circuit test; Input/output phase failure protection; Over current protection; voltage protection; Under voltage protection; Over heat protection ; Overload protection; braking resistor fault protection. |
| | Optional parts | Brake unit, Simple IO expansion card, Multi-functional IO expansion card |
| **Environment** | Installation location | Indoor, free from direct sunlight, dust, corrosive gas, combustible gas, oil smoke, vapour, drip or salt |
| | Altitude | Less than 1000m （derated when use of 1000m～3000m） |
| | Ambient temperature | － 10℃ ~ ＋ 40℃ （derated when use in ambient temperature of 40℃ ~50℃） |
| | Humidity | Less than 95%RH， without condensation |
| | Vibration | Less than 5.9m/s² （0.6g） |
| | Storage temperature | －20℃~+60℃ |
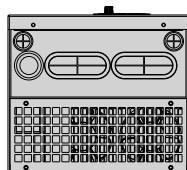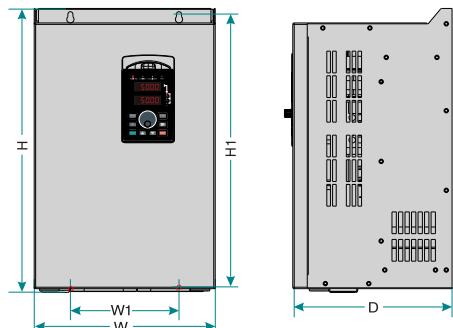
## Technical Data

| Model Number | Power capacity (KVA) | Input current (A) | Output current (A) | Adaptable Motor(KW) | Model Number | Power capacity (KVA) | Input current (A) | Output current (A) | Adaptable Motor(KW) |
|---|---|---|---|---|---|---|---|---|---|
| SD200-2S：0.7KW-2.2KW　Single-phase220V　50/60Hz | | | | | | | | | |
| SD200－2S－0.7G | 1.5 | 8.2 | 4.7 | 0.75 | SD200－2S－2.2G | 4.0 | 23.0 | 10.0 | 2.2 |
| SD200－2S－1.5G | 3.0 | 14.0 | 7.5 | 1.5 | | | | | |
| SD200-2T：0.7KW-2.2KW　Three-phase220V　50/60Hz | | | | | | | | | |
| SD200－2T－0.7G | 1.5 | 5.5 | 4.7 | 0.75 | SD200－2T－2.2G | 4.0 | 12.0 | 10.0 | 2.2 |
| SD200－2T－1.5G | 3.0 | 7.7 | 7.5 | 1.5 | | | | | |
| SD200-4T：0.7KW-500KW　Three-phase380V　50/60Hz | | | | | | | | | |
| SD200－4T－0.7G | 1.5 | 3.4 | 2.3 | 0.75 | SD200－4T－90G | 134 | 180 | 176 | 90 |
| SD200－4T－1.5G | 3.0 | 5.0 | 3.7 | 1.5 | SD200－4T－110G | 160 | 214 | 210 | 110 |
| SD200－4T－2.2G | 4.0 | 5.8 | 5.1 | 2.2 | SD200－4T－132G | 192 | 256 | 253 | 132 |
| SD200－4T－4.0G | 5.9 | 10.5 | 8.5 | 4.0 | SD200－4T－160G | 231 | 307 | 304 | 160 |
| SD200－4T－5.5G | 8.9 | 14.6 | 13 | 5.5 | SD200－4T－185G | 255 | 333 | 330 | 185 |
| SD200－4T－7.5G | 11 | 20.5 | 17 | 7.5 | SD200－4T－200G | 287 | 380 | 377 | 200 |
| SD200－4T－11G | 17 | 26 | 25 | 11 | SD200－4T－220G | 311 | 429 | 426 | 220 |
| SD200－4T－15G | 21 | 35 | 32 | 15 | SD200－4T－250G | 355 | 470 | 465 | 250 |
| SD200－4T－18.5G | 24 | 38.5 | 37 | 18.5 | SD200－4T－280G | 396 | 525 | 520 | 280 |
| SD200－4T－22G | 30 | 46.5 | 45 | 22 | SD200－4T－315G | 439 | 605 | 600 | 315 |
| SD200－4T－30G | 40 | 62.5 | 60 | 30 | SD200－4T－350G | 479 | 665 | 660 | 355 |
| SD200－4T－37G | 57 | 76 | 75 | 37 | SD200－4T－400G | 530 | 730 | 725 | 400 |
| SD200－4T－45G | 69 | 92 | 91 | 45 | SD200－4T－450G | 600 | 825 | 820 | 450 |
| SD200－4T－55G | 85 | 113 | 112 | 55 | SD200－4T－500G | 660 | 910 | 900 | 500 |
| SD200－4T－75G | 114 | 157 | 150 | 75 | | | | | |
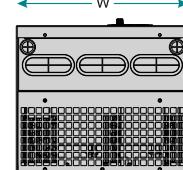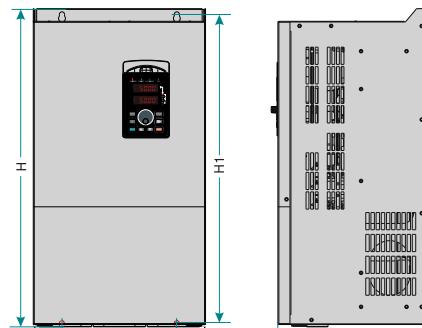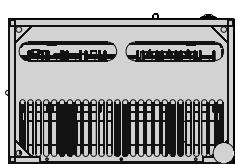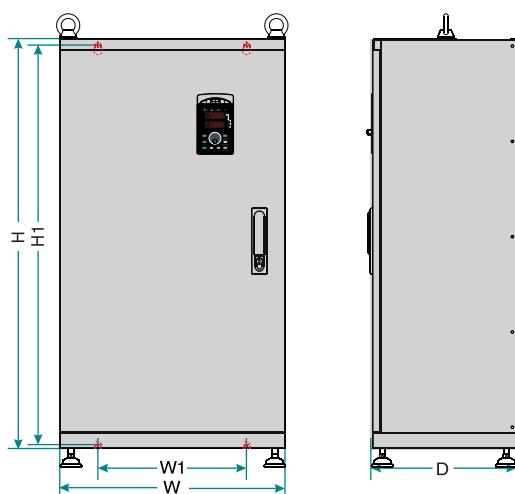
# SD200 Outline Diagram
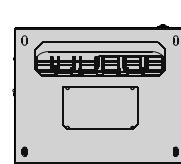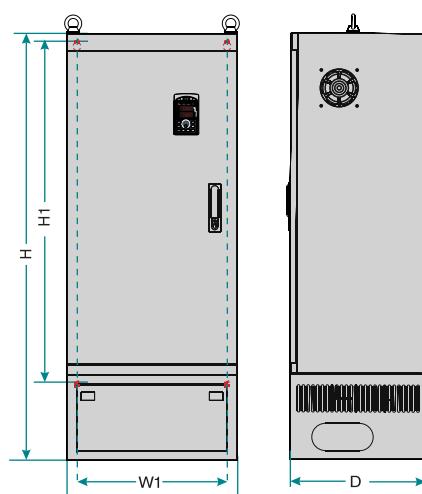


SD200(11KW–45KW)outline and installing dimension



SD200(55KW–110KW) outline and installing dimension



SD200(132KW–185KW)outline and installing dimension



SD200(200KW–500KW)outline and installing dimension

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## Installation Size

| Model Number | H(mm) | W(mm) | D(mm) | H1(mm) | W1(mm) | Bore(mm) | G.W(kg) |
|---|---|---|---|---|---|---|---|
| SD200-2S :0.7KW-2.2KW    Sigle-phase 220V | | | | | | | |
| SD200−2S−0.7G | 190 | 110 | 150 | 178 | 98 | Φ5 | 2.4 |
| SD200−2S−1.5G | 190 | 110 | 150 | 178 | 98 | Φ5 | 2.4 |
| SD200−2S−2.2G | 190 | 110 | 150 | 178 | 98 | Φ5 | 2.4 |
| SD200-2T :0.7KW-2.2KW    Three-phase 220V | | | | | | | |
| SD200−2T−0.7G | 190 | 110 | 150 | 178 | 98 | Φ5 | 2.4 |
| SD200−2T−1.5G | 190 | 110 | 150 | 178 | 98 | Φ5 | 2.4 |
| SD200−2T−2.2G | 190 | 110 | 150 | 178 | 98 | Φ5 | 2.4 |
| SD200-4T :0.7KW-500KW    Three-phase  380V | | | | | | | |
| SD200−4T0.7G | 190 | 110 | 150 | 178 | 98 | Φ5 | 2.4 |
| SD200−4T−1.5G | 190 | 110 | 150 | 178 | 98 | Φ5 | 2.4 |
| SD200−4T−2.2G | 190 | 110 | 150 | 178 | 98 | Φ5 | 2.4 |
| SD200−4T−4.0G | 210 | 130 | 160 | 198 | 118 | Φ5 | 3.5 |
| SD200−4T−5.5G | 250 | 155 | 176 | 236 | 141 | Φ5 | 4.5 |
| SD200−4T−7.5G | 250 | 155 | 176 | 236 | 141 | Φ5 | 4.5 |
| SD200−4T−11G | 285 | 170 | 162 | 270 | 135 | Φ6 | 5.1 |
| SD200−4T−15G | 332 | 220 | 214 | 318 | 140 | Φ | 9.3 |
| SD200−4T−18.5G | 332 | 220 | 214 | 318 | 140 | Φ7 | 9.3 |
| SD200−4T−22G | 387 | 250 | 220 | 373 | 150 | Φ7 | 14 |
| SD200−4T−30G | 387 | 250 | 220 | 373 | 150 | Φ7 | 19 |
| SD200−4T−37G | 440 | 270 | 252 | 426 | 180 | Φ7 | 25 |
| SD200−4T−45G | 440 | 270 | 252 | 426 | 180 | Φ7 | 25 |
| SD200−4T−55G | 550 | 300 | 258 | 534 | 200 | Φ9 | 48 |
| SD200−4T−75G | 650 | 370 | 282 | 625 | 250 | Φ9 | 52 |
| SD200−4T−90G | 650 | 370 | 282 | 625 | 250 | Φ9 | 55 |
| SD200−4T−110G | 650 | 370 | 282 | 625 | 250 | Φ9 | 90 |
| SD200−4T−132G | 880 | 485 | 310 | 860 | 320 | Φ13 | 99 |
| SD200−4T−160G | 880 | 485 | 310 | 860 | 320 | Φ13 | 99 |
| SD200−4T−185G | 880 | 485 | 310 | 860 | 320 | Φ13 | 99 |
| SD200−4T−200G | 1250 | 500 | 400 | 1000 | 440 | Φ13 | 167 |
| SD200−4T−220G | 1250 | 500 | 400 | 1000 | 440 | Φ13 | 167 |
| SD200−4T−250G | 1250 | 500 | 400 | 1000 | 440 | Φ13 | 167 |
| SD200−4T−280G | 1350 | 650 | 400 | 1105 | 513 | Φ13 | 206 |
| SD200−4T−315G | 1350 | 650 | 400 | 1105 | 513 | Φ13 | 206 |
| SD200−4T−350G | 1350 | 650 | 400 | 1105 | 513 | Φ13 | 206 |
| SD200−4T−400G | 1810 | 850 | 405 | 1410 | 513 | Φ13 | 415 |
| SD200−4T−450G | 1810 | 850 | 405 | 1410 | 513 | Φ13 | 415 |
| SD200−4T−500G | 1810 | 850 | 405 | 1410 | 513 | Φ13 | 415 |

**Note:**
Above dimensions is only for reference. Instructions are subject to change without notice. For more information, please contact SINOVO.
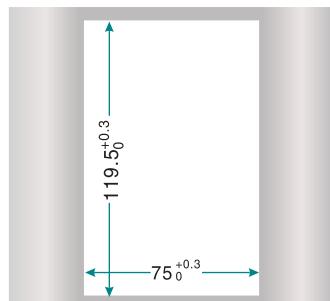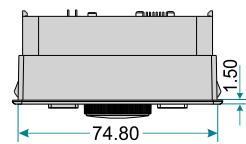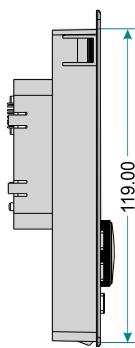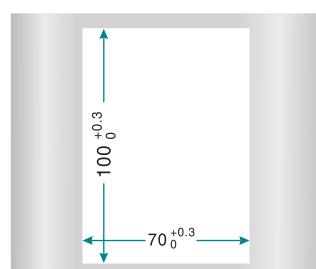
# Keyboard/Accessory

## 01 Keyboard



Opening dimension diagram
for keyboards with base

Opening dimension diagram
for keyboards without base
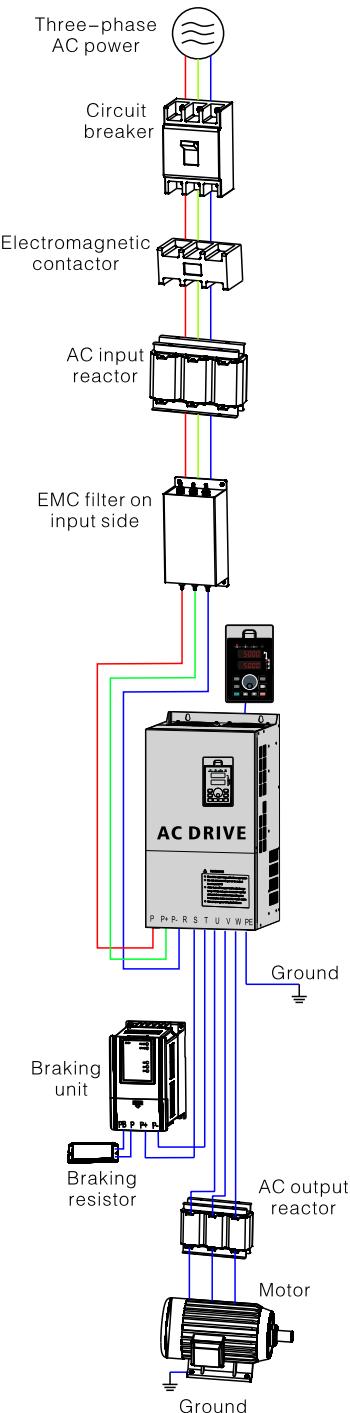
## 02 Optional Accessory

| Name | Type | Function | Remark |
|---|---|---|---|
| Internal braking unit | Models followed by letter "C" | Models power under 22KW are installed with the internal braking unit as standard configuration. | For 30KW model power,the braking unit is optional |
| External braking unit | SDBUN | 37KW and above need to be configured with an external braking unit. | Multiple braking units are connected In parallel for the models above 90KW. |
| Multi-function I / O expansion card | SD200IO1 | Increase 3 digital inputs, 2 digital outputs, two relay outputs, two analog voltage input T_Motor. | It applies to all models. |
| Modbus communication card | SD200CM1 | One RS - 485 communication card, one CAN communication card. | Coming soon |
| External LCD panel | SD200LCD | External LCD display and keypad, you supply  copy parameters | Coming soon |

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# POLICOMP
## componentes industriais

# Peripheral Equipment

Three–phase
AC power

Circuit
breaker

Electromagnetic
contactor

AC input
reactor

EMC filter on
input side

AC DRIVE

P P+ P- R S T U V W PE

Ground

Braking
unit

Braking
resistor

AC output
reactor

Motor

Ground

| Name | Mounting Location | Function Description |
|---|---|---|
| MCCB | Power receiving side | ◆ Interrupt the power supply when over-current occurs on downstream devices |
| Contactor | Between MCCB and AC drive input side | ◆ Start and stop the AC drive. Do not start and stop the AC drive frequently by switching the contactor on and off (less than twice per minute) noruse it to directly start the inverter. |
| AC input reactor | AC drive input side | ◆ Improve the power factor of the input side. ◆ Eliminate the higher harmonics of the input side effectively and prevent other devices from being damaged due to distortion of the voltage waveform. ◆ Eliminate the input current unbalancedue to that between the power phases. |
| EMC Input filter | AC driver input side | ◆ Reduce the external conduction and radiation interference of the inverter. ◆ Decrease the conduction interference flowing from the power end to the inverterand improve the anti interference capacity of the AC drive. |
| DC reactor | SD200 series AC drive under 30G configured with DC reactor as standard | ◆ Improve the power factor of the input side. ◆ Improve the efficiency and thermal stability of the AC drive. ◆ Eliminate the impact of higher harmonics of AC drive input side and reduce the external conduction and radiation interference |
| AC output reactor | Between AC drive output side and the motor, close to the inverter | ◆ The output side of the AC drive generally has much higher harmonics. When the motor is far from the AC drive, there is much distributed capacitance in the circuit and certain harmonics may cause resonance in the circuit, bringing about the following two impacts: a) Degrade the motor insulation performance and damage the motor in the long run. b) Generate large leakage current and cause frequent AC drive protection trips. ◆ If the distance between the inverter and the motor is greater than 100 m, install an AC output reactor. |

# Braking Unit Recommendation

## 01 Selection of value resistance

The motor and load's regenerative energy is almost completely consumed on the braking resistor when braking. According to the formula:

$$U*U/R=Pb$$

U----Braking voltage at stable braking system.System selections differs in braking voltages, The AC380Vsystem usually selectsDC700V braking voltage.）

Pb----Braking power

## 02 Selection of Braking Resistance Power

Theoretically braking resistance of power and braking power is consistent, but considering the derating 70%.According to the formula:

$$0.7*Pr=Pb*D$$

Pr---Resistor power
D----Braking frequency (The reproduction process accounts for the proportion of the entireworking process)
Elevator---20%~30%          Open and draw volume---20%~30%
Centrifuge---50%~60%
Accidental braking load---5%     Commonly take 10%

### SD200 series AC Drive braking unit selection table

| AC Drive Capacity (KW) | Braking Unit | | Braking resistance | | |
|---|---|---|---|---|---|
| | Specification | Q.T.Y（unit） | Recommended Resistance | Recommended Power | Q.T.Y（unit） |
| 0.75 | Standard onboard | 1 | ≥300Ω | 150W | 1 |
| 1.5 | | 1 | ≥220Ω | 150W | 1 |
| 2.2 | | 1 | ≥200Ω | 250W | 1 |
| 4.0 | | 1 | ≥130Ω | 300W | 1 |
| 5.5 | | 1 | ≥90Ω | 400W | 1 |
| 7.5 | | 1 | ≥65Ω | 500W | 1 |
| 11 | | 1 | ≥40Ω | 800W | 1 |
| 15 | | 1 | ≥32Ω | 1000W | 1 |
| 18.5 | | 1 | ≥25Ω | 1300W | 1 |
| 22 | | 1 | ≥22Ω | 1500W | 1 |
| 30 | | 1 | ≥16Ω | 2500W | 1 |
| 37 | EHBU70 | 1 | ≥16Ω | 3700W | 1 |
| 45 | | 1 | ≥16Ω | 4500W | 1 |
| 55 | | 1 | ≥8Ω | 5500W | 1 |
| 75 | | 2 | ≥8Ω | 3700W | 2 |
| 90 | | 2 | ≥8Ω | 4500W | 2 |
| 110 | | 2 | ≥8Ω | 5500W | 2 |
| 132 | | 3 | ≥8Ω | 3700W | 3 |
| 160 | | 3 | ≥8Ω | 5500W | 3 |
| 185 | | 4 | ≥8Ω | 4500W | 4 |
| 200 | | 4 | ≥8Ω | 5500W | 4 |
| 220 | | 4 | ≥8Ω | 5500W | 4 |

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