

Shenzhen Socon Electric Co.,Ltd.

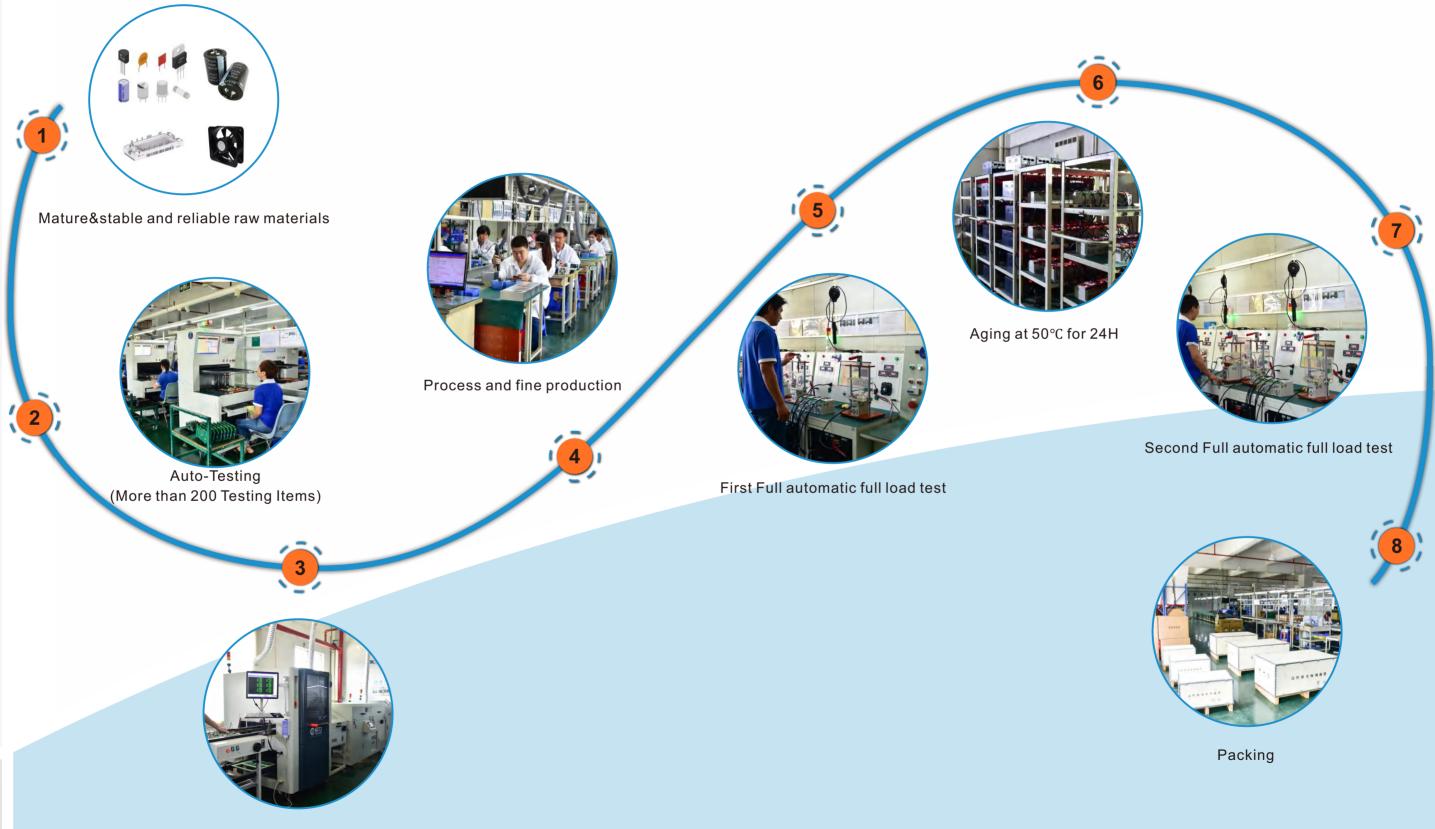
Address: Building B, Langxin Commercial Cente, Langxin Community, Shiyan Street, Bao'an District, Shenzhen China.

Website: www.socon.com.cn



Frequency Inverter Catalog

Quality



Full automatic spraying



Performanc

SC500 Series



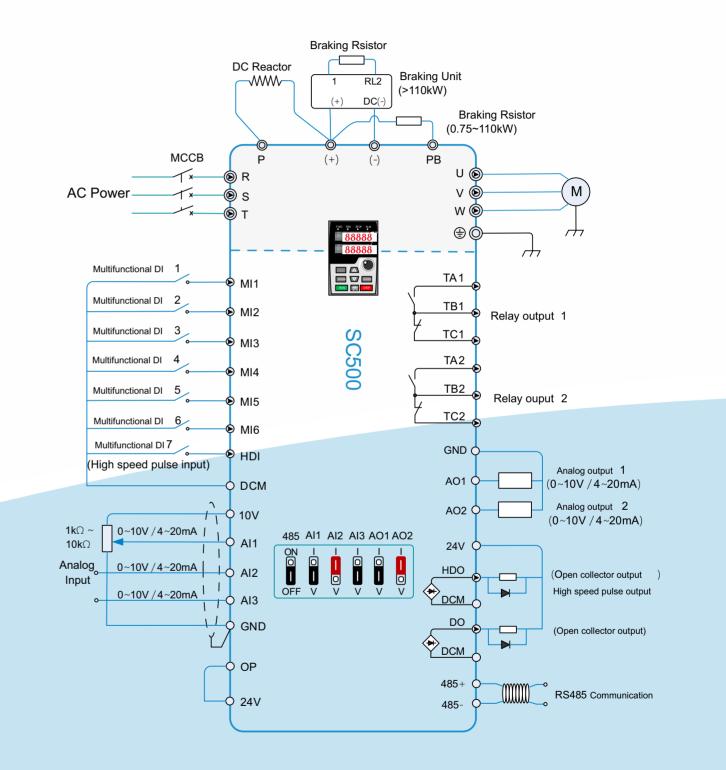
1PH 220V 0.75~2.2kW 3PH 220V 0.75~160kW 3PH 380V 0.75~630kW

SC500 series frequency inverter fully investigates the market demand, adopts new structural design and optimized hardware and software configuration to realize higher performance and higher precision motor control.

We always insist on adopting standardized and refined management processes, starting from every detail to continuously improve the stability and reliability of products.

With its stable and reliable operation performance, this series of frequency converters are deeply trusted by customers. They are widely used in textile, papermaking, machine tool, packaging, food, fan, water pump and other industries and various automatic production equipment.





▶ 0. 75-7.5kW Diagram please refer the manual.

 \triangleright 0. 75–37kW built-in braking unit, 45–110kW braking unit is option.

Performan



SOCOO

Advantages

01

Carrying capacity

120% Rated current and below ——Continuous working 150% Rated current, 120s 160% Rated current, 60s 180% Rated current, 10s 200% Rated current, 1s





07

Fast dynamic response and stable torque output More than 30 fault protection functions are built to ensure the stable and safe operation

of the system.



Strong starting Torque

0.5Hz/150%, Open loop control 1Hz/100%, V/f Control





Low Temperature rise

Fully equipped with cooling fans and radiators.(<40°C **O**ptimization design by thermal simulation software.

The temperature rise of the whole series controlled within 40 °C.



05

New Design

The whole series adopts narrow body structure design. High power density. Save installation space.





The automatic three proof paint spraying line adopts high-quality three proof paint, which has better waterproof, dustproof and anti-corrosion performance. Independent air duct design is adopted to effectively isolate external dust and better environmental adaptability.



Optimized speed tracking function; Realize the smooth restart of the running motor.

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Built in timing, length and counting functions Meet a variety of special applications.

value-added products.

Optimized function design

New hardware design ideas. Reasonable selection and layout of components. High stability and excellent performance.





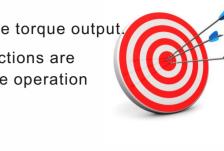
International and domestic first-class components, Stable, reliable and durable.

Select components in full, never cut corners, and strive to provide customers with













Technical Feature

Input & Output

	1PH 220V (+15%)					
Input Voltage	3PH 220∨ (+15%)					
	3PH 380V (+15%)					
Input Frequency	50/60Hz ±5%					
Output Voltage	O~input voltage, Deviation less than $\pm 3\%$					
Output Frequency	0~600Hz					

Control Feature

Control mode	V/F Control,Open Loop Control					
	120% Rated current and below, Continuous working					
	150% Rated current, 120s					
Carrying capacity	160% Rated current, 60s					
	180% Rated current, 10s					
	200% Rated current, 1s					
Starting torque	0.5Hz 150%(V/F)					
Starting torque	0.25Hz 180%(Open loop)					
Speed coolingov	±0.5%(V/F Control)					
Speed accuracy	±0.2%(Vector Control)					
Torque response	<10ms					
Carrier frequency	0.5~16.0KHz					
ACC/DEC MODE	4 types Acc/Dec time(0.1~3600.0s)					
Simple PLC	Up to 16 speed control is realized through built-in					
Multi-Speed	PLC or control terminal					
PID Function	Built-in dual PID function					
Communication	Modbus RTU					

Environment

Installation	No direct sunli explosive, abs no accumulati
Altitude	0~2000 m After exceedir derated by 1%
Environment Temp.	-10~+50°C
Storage Temp.	-20~+60°C
Relative Humidity	5%~95%,No c

Feature

Feature

Wide	range	of
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AVR Auto voltage regulation

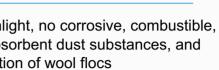
Build-in Torque Control

V/F Voltage frequency separation control

The speed tracking function can smoothly restart the running motor

More than 30 kinds of perfect fault protection functions such as overload, overcurrent, overvoltage, undervoltage and fault

Performanc



Quality

ing 1000m, the output will be % every 100m

condensation

voltage input

08≫

Model rule

SC500 -

Series Voltage level SC500 Series VFD 2:220V

Phase S:1PH 4:380V~440V T:3PH

4

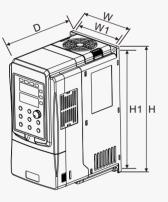
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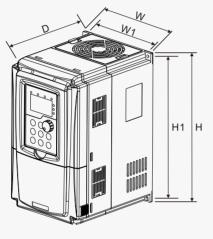


Load Type 0P7:0.75KW G:General Type 1P5:1.5KW 4P0:4.0KW 110:110KW

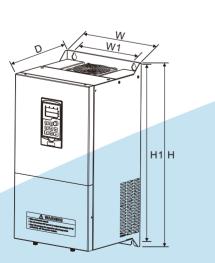
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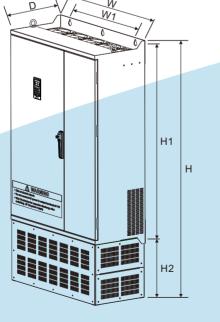
0.75-7.5kW



11-22kW



30-110kW



132-630kW

Specification 1PH 220V

Product selection

Model	Output Power (kW)	Output Current (A)	H (mm)	W (mm)	D (mm)	H1 (mm)	W1 (mm)	Mounting Aperture (mm)
SC500-2S-0P7G	0.75	4						
SC500-2S-1P5G	1 .5	7	187	90	133	177	80	4.5
SC500-2S-2P2G	2.2	9.6						
SC500-2S-4P0G	4 .0	17	247	130	162	236.5	115	5
SC500-2S-5P5G	5.5	25	272	160	201	259	146	5.2

Specification 3PH 220V

Model	Output Power (KW)	Output Current (A)	H (mm)	W (mm)	D (mm)	H1 (mm)	H2 (mm)	W1 (mm)	Mounting Aperture (mm)
SC500-2T-0P7G	0.75	4							
SC500-2T-1P5G	1.5	7	187	90	133	177	-	80	4.5
SC500-2T-2P2G	2.2	9.6							
SC500-2T-4P0G	4.0	17	247	130	162	236.5	-	115	5
SC500-2T-5P5G	5.5	25	272	160	201	259	_	146	5.2
SC500-2T-7P5G	7.5	32	212	160	201	259	-	140	5.2
SC500-2T-011G	11	45	313	211	205	299	-	196	6.5
SC500-2T-015G	15	60	418	252	206.9	399		201	9
SC500-2T-018G	18.5	75	410	232	200.9	222	-	201	9
SC500-2T-022G	22	90	603	299	276.7	581		240	9
SC500-2T-030G	30	110	005	299	270.7	201	-	240	9
SC500-2T-037G	37	152							
SC500-2T-045G	45	176	643	338	312	619	-	280	11
SC500-2T-055G	55	210							
SC500-2T-075G	75	304	1126	410	383.7	776	356	320	12
SC500-2T-093G	93	340	1120	410	565.7	770	550	520	12
SC500-2T-110G	110	426							
SC500-2T-132G	132	520	1472	650	430.2	1046.8	426	520	13
SC500-2T-160G	160	585							

▶ H2 is the base size, optional for 75-93kw base, and standard for power above 110KW.



Dimension

Specification 3PH 380V

Product	selection			Dimension					
Model	Output Power (kW)	Output Current (A)	H (mm)	W (mm)	D (mm)	H1 (mm)	H2 (mm)	W1 (mm)	Mounting Aperture (mm)
SC500-4T-0P7G	0.75	2.8							
SC500-4T-1P5G	1.5	4.4	187	90	133	177	-	80	4.5
SC500-4T-2P2G	2.2	5.8							
SC500-4T-4P0G	4.0	10	207	100	142	197	-	90	4.5
SC500-4T-5P5G	5.5	13	247	120	100	226 5		115	r
SC500-4T-7P5G	7.5	17	247	130	162	236.5	-	115	5
SC500-4T-011G	11	25	272	100	201	250		140	5.2
SC500-4T-015G	15	32	272	160	201	259	-	146	5.2
SC500-4T-018G	18.5	37	313	211	205	299		196	6.5
SC500-4T-022G	22	45	515	211	205	299	-	190	0.5
SC500-4T-030G	30	60	410	252	206.0	200		201	0
SC500-4T-037G	37	75	418	252	206.9	399	-	201	9
SC500-4T-045G	45	90	(0)	200	2767	F 0 1		240	0
SC500-4T-055G	55	110	603	299	276.7	581	-	240	9
SC500-4T-075G	75	152							
SC500-4T-093G	93	176	643	338	312	619	-	280	11
SC500-4T-110G	110	210							
SC500-4T-132G	132	253							
SC500-4T-160G	160	304	1120	410	2027	776	250	220	12
SC500-4T-185G	185	350	1120	1126 410	10 383.7	776	356	320	12
SC500-4T-200G	200	377							
SC500-4T-220G	220	426							
SC500-4T-250G	250	470	1470	650	120.2	1046.9	126	E 20	10
SC500-4T-280G	280	520	1472	650	430.2	1046.8	426	520	13
SC500-4T-315G	315	585							
SC500-4T-355G	355	650							
SC500-4T-400G	400	725	1698	800	438	1280	426	700	16
SC500-4T-450G	450	820							
SC500-4T-500G	500	900							
SC500-4T-560G	560	1000	1900	1028	450	1460	450	800	16
SC500-4T-630G	630	1100							

SC500-S Series



SC500-S series economical frequency converter integrates the frequency conversion technology precipitation of the R & D and application team for many years, and combines the market demand for product structure, hardware and software. It is a reliable, stable and cost-effective product.



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New structural design

- the inverter.

Optimized hardware design

- High standard EMC design to improve anti-interference ability.

High thermal conductivity and insulation medium

- Significantly reduce internal temperature rise

Strict production and testing

- EMC tests such as EFT test, surge test and electrostatic test have passed industry standards.
- Conduct strict and perfect test through ATE automatic system.

H2 is the base size, 132-200kw base is optional, and 220kw and above power is standard.



7.5KW and below, Reasonable power distribution, Cost-effective.

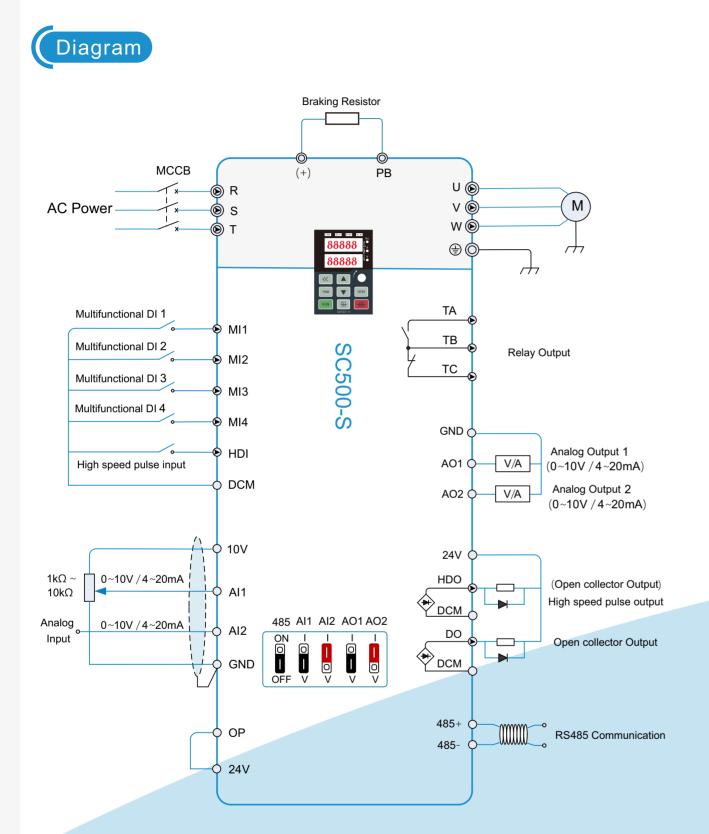
Independent air duct design prevents external dust from entering

Selection of long-life components & amp; fine design.

- The layout of components is more reasonable.
- The switching power supply output short-circuit protection

Alumina ceramic sheet is used for heat dissipation.

Automatic three proof paint spraying process.



Technical Feature

Item		Specification					
	Control Mode	Open loop vector control, V/F control					
B	Output Frequency	Open loop vector control: 0~600Hz V/F control: 0~6000Hz					
sic fu	Carrying capacity	Continuous working while under 120%, 150%/120s, 160%/60s, 180%/3s					
Basic function	RS485 Communication	RS485, Modbus-RTU slaver					
B	LED Display	Dual LED display two parameter at same time					
	Major function	PID, AVR, Automatic speed compensation, Multi-Speed, Frequency hopping, Torque Limiting, UP-DOWN control, Timer, Fixed length, swing frequency.					
en Ap	Applicable cases	Indoor, free from direct sunlight, dust, corrosive gas, combustible gas, oil mist, water vapor, dripping water or salt, etc					
Applicable environme	Altitude	Lower than 1000m					
Applicable environment	Ambient temperature	-10 ~ + 40 °C (derating is required when the ambient temperature is 40 ~ 50 °C)					
	Vibration	<5.9m/s2(0.6g)					

Specification

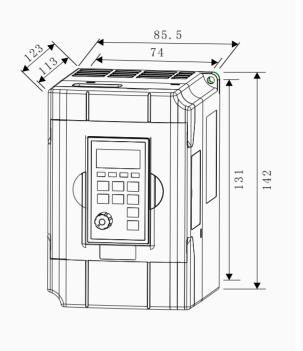
Produ	ict selectior	ı		Dimension						
Model	Output Power (KW)	Output Current (A)	W (mm)	H (mm)	D (mm)	W1 (mm)	H1 (mm)	Mounting Aperture (mm)		
SC500-2S-0P7S	0.75	4								
SC500-2S-1P5S	1.5	7	90	187	133	80	177	4.5		
SC500-2S-2P2S	2.2	9.6								
SC500-4T-0P7S	0.75	2.8								
SC500-4T-1P5S	1.5	4.4	90	187	133	80	177	4.5		
SC500-4T-2P2S	2.2	5.8								
SC500-4T-4P0S	4.0	10	100	207	142	90	197	4.5		
SC500-4T-5P5S	5.5	13	130	247	162	115	236.5	5		
SC500-4T-7P5S	7.5	17	130	241	102	115	230.3	5		

Quality

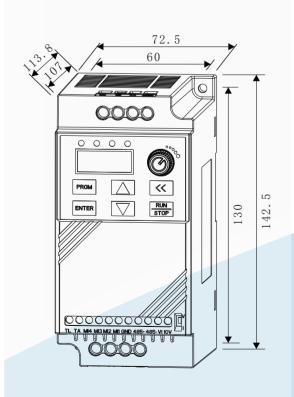
SC20 & SC20-M

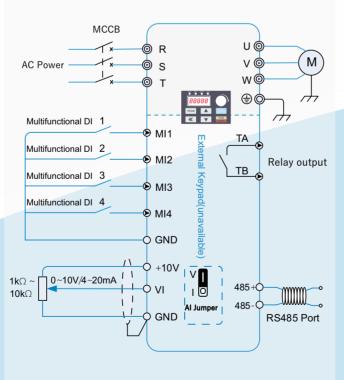


Based on years of experience in frequency converter R&D and application, two simple and economical frequency converters are launched, both of which have high cost performance. Its structure design is compact, and its hardware and software design fully considers the requirements of overheating and overload in practical application. It has been mature and applied in many industrial sites.



Dimension& Diagram





SC20-M type has no build-in braking unit

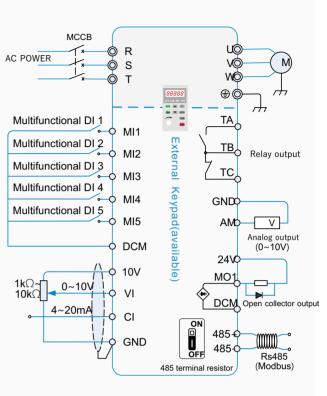


 Assembly line, fan, water pump, food, printin and other low-power application industries.



SC20 Type has no build-in braking unit

Performanc



Quality

Assembly line, fan, water pump, food, printing and dyeing, ceramics, packaging, pharmaceutical



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Application field



Printing & Dyeing



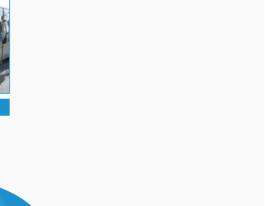
Textile







Rubber machinery







Motor Solution







Stone industry



Oilfield Industry



Dan mi



Building elevator







Performanc



