

SC 500 - A Series

Dedicated Frequency Inverter for Air Compressor



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Production details

Production and test name	Test standards and details	Explanation
Automatic 3-proof paint spraying line	Strictly selected high-quality 3-proof paint, uniform spraying, good protection performance.	Better waterproof, dustproof, anti-corrosion performance, better environmental adaptability.
Fully automatic veneer test bench(ATE)	Strictly test more than 200 parameter indicators.	100% tested, 100% passed.
Automatic welding	Machine welding, leak-proof welding, false welding, welding point is more perfect and reliable	Avoid many problems caused by artificial welding.
Fully automatic machine performance test	Test once after production is completed; Test again after aging; Every terminal, every performance is strictly tested; 100% full load test.	More stringent testing standards ensure that every factory machine can withstand market inspections.
High temperature aging test	50°C high temperature, 24 hours.	Perform strict aging tests.
R & D testing	1. EMS test 2. EMI test 3. TEMP and humidity test 4. Anti-static test 5. Drop test 6. Vibration test 7. Surge test 8. Environmental test (salt spray test)	Strictly implement the testing standards of first-class brands.

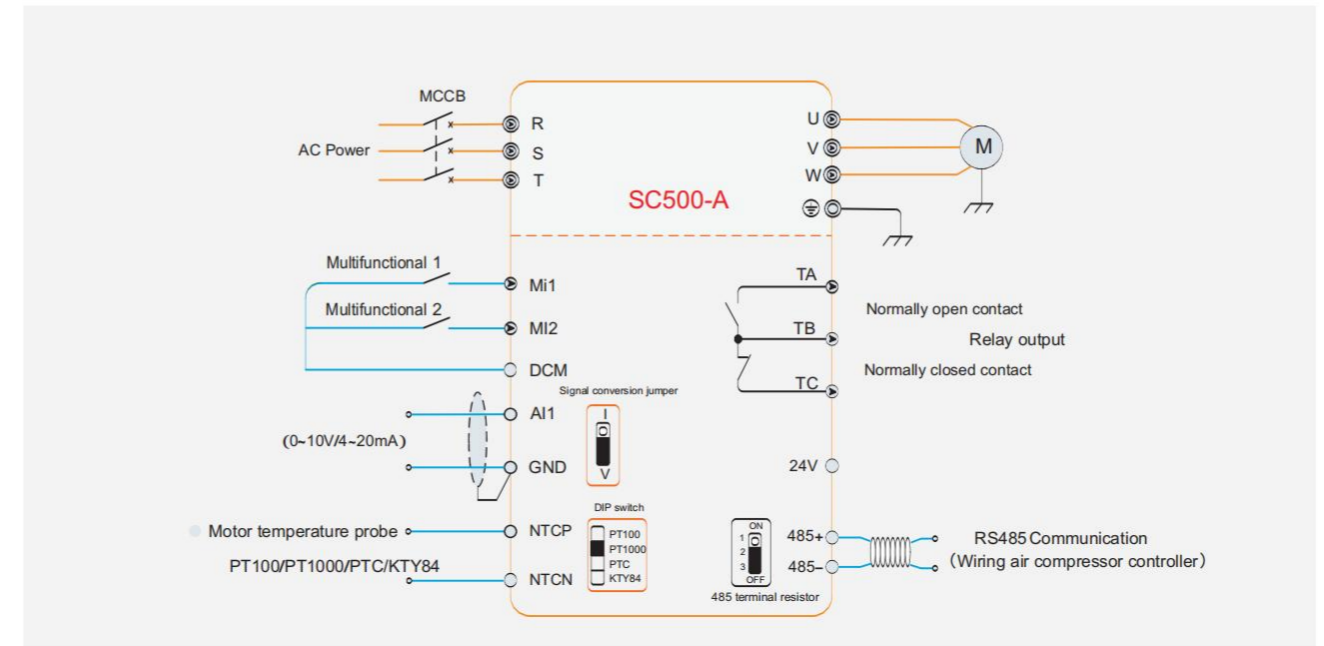
Products Show



Product Introduce

SC500-A series frequency inverter are dedicated inverter for air compressor, compatible with asynchronous and synchronous motors, and are widely used in various types of air compressors.

SC500-A series frequency inverter integrates special control functions for the air compressor industry, optimized vector control, and excellent dynamic response speed, ensure the gas speed and energy saving effect produced by the air compressor.



Application field




Advantages of SOCON

01

Start without jitter


SC500-A series inverter runs smoothly and without jitter during the process of starting the air compressor, ensuring long-term safe and reliable operation of the air compressor system.



02

Motor temperature detection


SC500-A integrates the motor temperature detection terminal, and can detect four types of temperature sensors: PT1000; PT100; PTC; KTY84 through the switch of the DIP switch, which can independently set the motor temperature protection value to ensure the safe and reliable operation of the motor.



03

Synchronous + Asynchronous


SC500-A series inverter integrates the control software of asynchronous motor and synchronous motor, which is suitable for most air compressor types on the market and has a wider range of applications.



04

Simple control terminal


For the air compressor system, the SC500-A inverter only retains a few terminals. In field application, the wiring is simple, avoiding waste of terminals and miswiring.



05

1+1>2


SC500-A series inverter cooperates with domestic first-class air compressor controller manufacturers, stable operation, simple parameter setting, convenient operation, and parameter display at a glance.



06

Accurate constant pressure


SC500-A optimizes vector control technology, with fast response speed, stable pressure, and accurate constant pressure control.



07

Strong overload capacity


120%, Long running
150%, 120s
160%, 60s
180%, 10s
200%, 1s



08

High starting torque


0.5Hz/150%, open loop vector;
1Hz/100%, V/F control.
The high starting torque of SC500-A ensures the smooth starting process of the air compressor, and while controlling the soft start of the motor, it also prolongs the life of the whole air compressor.



09

More resistant to high temperatures


SC500-A adopts independent air duct design and we have selected a large margin radiator, fully equipped with IGBT and electrolytic capacitors, to ensure that it can operate stably and reliably for a long time in the environment of high temperature operation of the air compressor.



10

Perfect protection function

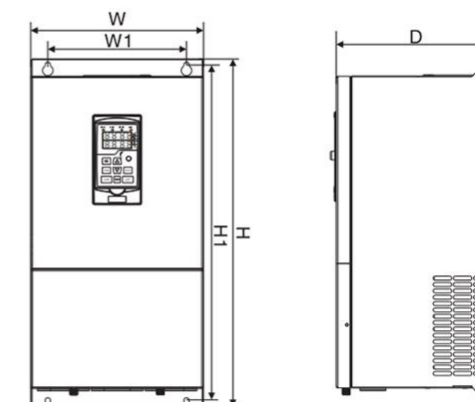
More than 30 protection functions ensure long-term stable and safe operation of the air compressor system.



Model rule

SC 500	- 4T	- 011	A
Series	Voltage Level	Power	Type
SC 500 Series VFD	2S:1PH 220V 2T: 3PH 220V 4T: 380V~460V	1P5:1.5kW 011: 11kW 110:110kW	Air compressor dedicated

Dimension



Product Selection

Model	Output Power (KW)	Output Current (A)	Dimension					
			H (mm)	W (mm)	D (mm)	H1 (mm)	W1 (mm)	Diameter (mm)
SC500-4T-7P5A	7.5	17	247	130	162	236.5	115	5
SC500-4T-011A	11	25	272	160	201	259	146	5.2
SC500-4T-015A	15	32	313	211	205	299	196	6.5
SC500-4T-018A	18.5	37	418	252	206.9	399	201	9
SC500-4T-022A	22	45	603	299	276.7	581	240	9
SC500-4T-030A	30	60	643	338	312	619	280	11
SC500-4T-037A	37	75	1126	410	383.7	776	320	12
SC500-4T-045A	45	90	1472	650	430.2	1046.8	520	13
SC500-4T-055A	55	110						
SC500-4T-075A	75	152						
SC500-4T-090A	90	176						
SC500-4T-110A	110	210						
SC500-4T-132A	132	253						
SC500-4T-160A	160	304						
SC500-4T-185A	185	340						
SC500-4T-200A	200	380						
SC500-4T-220A	220	426						
SC500-4T-250A	250	465						
SC500-4T-280A	280	520						