



Shanghai Sigriner STEP Electric Co., Ltd.

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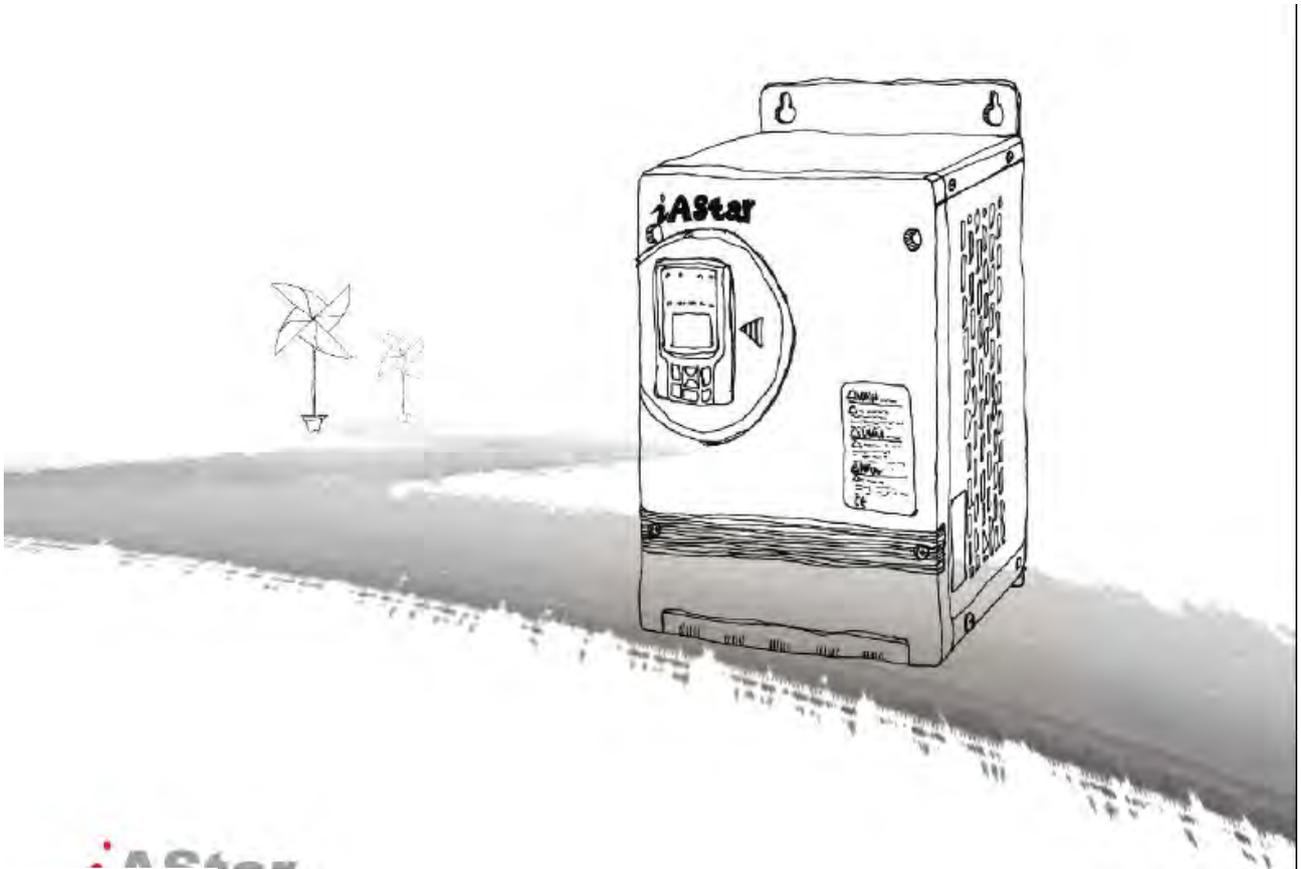
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AS500 Series

High Performance Vector Inverter

-- Sophisticated, Robust, Reliable



iAStar

With Creative Science and Technology You Will find Such is The World

🌱 Company Introduction

Shanghai Sigriner STEP Electric Co., Ltd is a subsidiary of Shanghai STEP Electric Corporation. Shanghai STEP Electric Corporation is an enterprise group and was founded in 1995. The registered trademark is “STEP” and the registered capital 200 million Yuan. STEP Group mainly specializes in R&D, manufacture and sales of control and drive systems, is a high-tech listed enterprise that provides services for global industrial and machinery manufacturing industry. It owns the following subsidiaries in China: Shanghai STEP Elevator Components Co., Ltd., Shanghai STEP Electric Wire & Cable Co., Ltd., Shanghai STEP Software Technology Co., Ltd., Shanghai Sigriner STEP Electric Co., Ltd. and the following overseas companies: STEP Sigriner Elektronik GmbH (Germany) and Hong Kong International STEP Holding Co., Ltd.

STEP came into the A-share market publicly on December 24, 2010 while the opening bell of Shenzhen Stock Exchange was sounded.

Stock: STEP; stock code: 002527.

In 2006, Shanghai STEP Electric Corporation invested in and established the Shanghai Sigriner STEP Electric Co., Ltd, having a modern R&D and manufacture facility of drive product, with area of 30000 square meters, equipped with the first class test instruments and production equipments in the world. And advanced management systems and strict quality controls are implemented to make sure of providing clients with drive products and services of high quality. The company owns various series of products, including high/low voltage fan/pump inverter, high/low voltage vector inverter, four-quadrant inverter, elevator inverter, crane inverter, integrated driving controller, energy feedback unit, door inverter, AC servo system, etc.

As utilization of the STEP global strategy, the products have been exported to over 30 countries and regions in Europe, North America, and Asia. In China, STEP has set up 18 agencies and liaison offices, with sales and services covering the entire country.

STEP insists in the enterprise spirit: Face the world; pursue the best, stay always ahead of the line. It strives to provide the best control, drive and energy-saving products to our customers and benefits the society and the personnel, as well as desires to be an international high-tech enterprise in electric industry step by step!

🌱 COMPANY CULTURE

STEP Spirit: Face the world, pursue the best, stay always ahead of the line.

STEP Value: Faith, innovation, excellence.

STEP Tenet: Customer satisfaction, employee pride, community benefit.

STEP Mission: Provide the best control, drive and energy-saving products to our customers, and benefit the society and the personnel.

STEP vision: To be an international high-tech enterprise in electric industry.





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1. Product Introduction

AS500 Series inverters are the latest inverters designed by Shanghai Sigriner STEP Electric Co., Ltd, which are special for Chinese market. The product adopts international leading speedless sensor vector control technology, closed loop vector control and torque control technologies, so that it not only has a control performance just excellent as same as the international high-end inverter, meanwhile, it also by combining the characteristics of applications in China, further strengthens the reliability of product, adaptability to environment, customized and industry-oriented design, as well as better meets the demands of various fan, water pump applications.



1 AS500 Series High Performance Vector Inverters

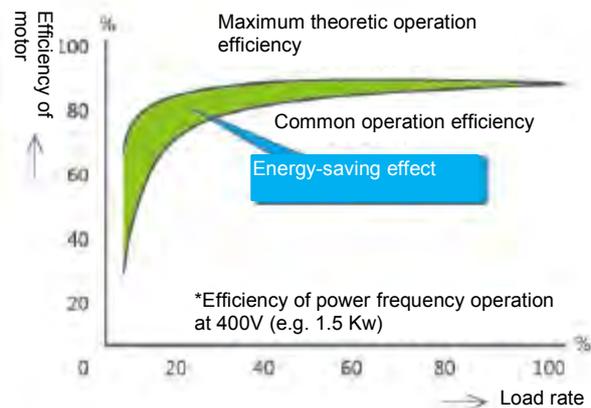
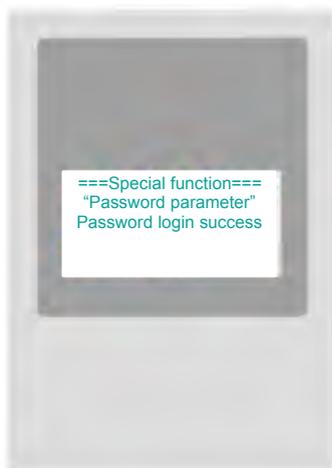


- 2. AS160 Series Fan/Water Pump Inverter
- 3. AS450 General Vector Inverters
- 4. AS500 Series 660V High Performance Vector Inverter
- 5. AS210 Series Servo System
- 6. AS300 Series Door Inverter
- 7. AS320 Series Elevator Inverter
- 8. AS.RG (Energy Feedback Unit)
- 9. AS700 Series Port Cabinet Inverter
- 10. AS800 Series Vector High Voltage Inverter

2. Features

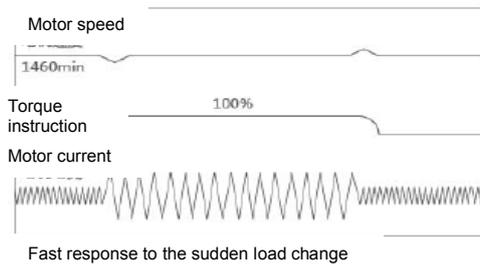
Reliable protective function for machinery
 With user password setting, the operation safety of the system is improved efficiently.

High-efficient energy-saving operation method
 With the high-efficiently driven energy-saving operation method and new PWM dead zone compensation technology, the loss of motor is reduced efficiently and the energy-saving rate is maximized.



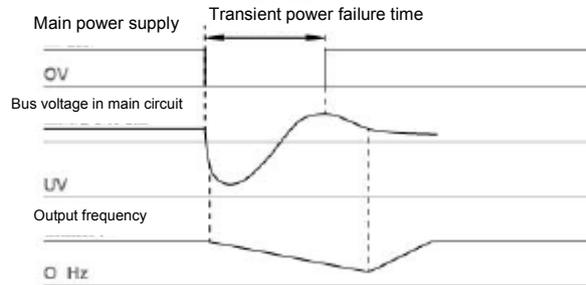
Fast dynamic response

Due to the advanced motor model control, the fast dynamic response is available even without PG.



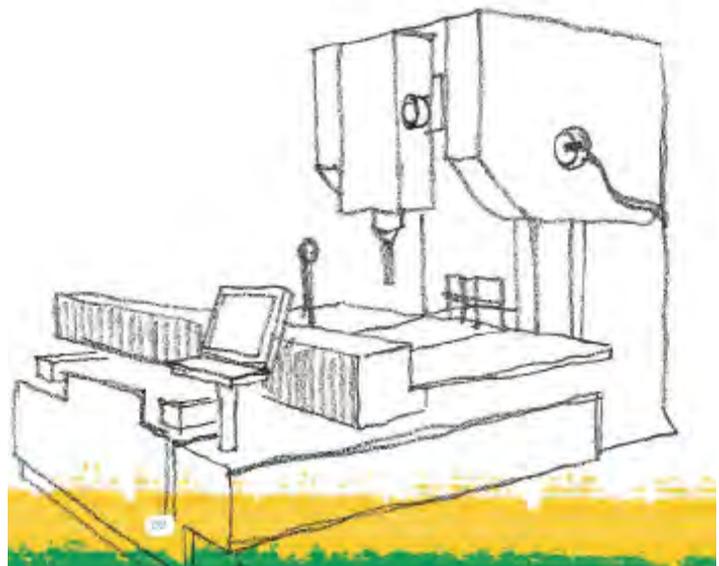
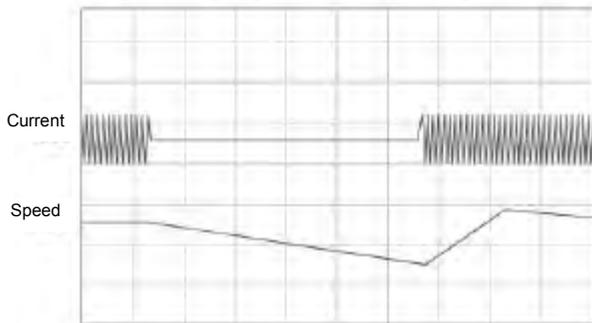
Strong grid adaptability capacity

Automatic voltage regulation function: When the grid voltage is changed, it can keep the output voltage constant automatically. With special transient function, ensure the inverter in operation under power failure.



Smooth track start

At any time, the no-impact smooth start can be realized perfectly against the rotating motor.



🔧 Caring application functions

Several frequency setting method, to meet the complicated and changing site demands;
 Special PID control function, to facilitate the process control;
 Hopping frequency control function, to avoid the mechanical resonance point effectively;
 Power-on self-check function, to provide safety and reliability for every startup.

🔧 Operation with low noise

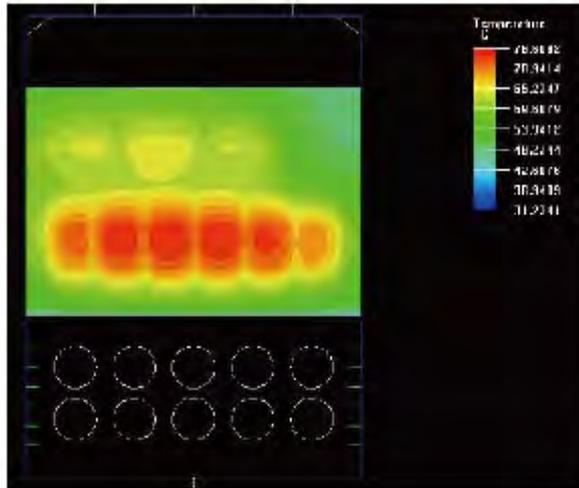
With international advanced carrier modulation mode, not only restrain electromagnetic interference, but also reduce the harsh noise.



Note: Carry out frequency analysis to the noise values, and compare the peak values.

🔧 Perfect design in heat dissipation structure

Independent air duct, compact structure design, three-proofings (moisture, salt spray, fungus) design of whole machine, and overheat alarm protection.



The maximum temperature rise of inverter at 40 °C will not exceed 30 °C , which is far lower than the national standard.

🔧 Reliable product design

With components of long service life, the service life of the inverter reaches 10 years above.

With low-inductance bus technology, the bus inductance is significantly reduced, which prevents the important components (such as IGBT) from breakdown and greatly increases the safety of the module.

All-around protection for whole machine.

High-precision current detection and protection.

All-around switching power supply protection.

Component s	Service life
Capacitor of main circuit	10 years
Capacitor of control circuit	10 years

3. Application Functions

🌀 Brake function

- Superior performance

Brake release current is settable, which protects mechanical brake unit, and ensures the smooth movement

High torque start, preventing load drop due to insufficient torque, etc



🌀 High-speed lifting

- When the load is light or empty, the inverter will calculate the maximum speed automatically according to the load, in order to increase the working efficiency of equipment.

🌀 PID regulator

- Simplicity of implementation
Special menu

In most cases, the factory settings are capable to meet all requirements.

All variables of PID regulator can be displayed, to facilitate commissioning.

- Superior performance

Independent regulator without external options

Given and feedback from and to several sources

Filtering and correction of given values



Load balance

- Apply to mechanically coaxial coupling of several motors

Realize the load balance by correcting the speed of one or more motors positioned mechanically
This correction is a function of load.

This function applies to any motor driven or four-quadrant regenerative power generation status.

- Application type

Conveying belt, centrifuge and lifting motion of cranes

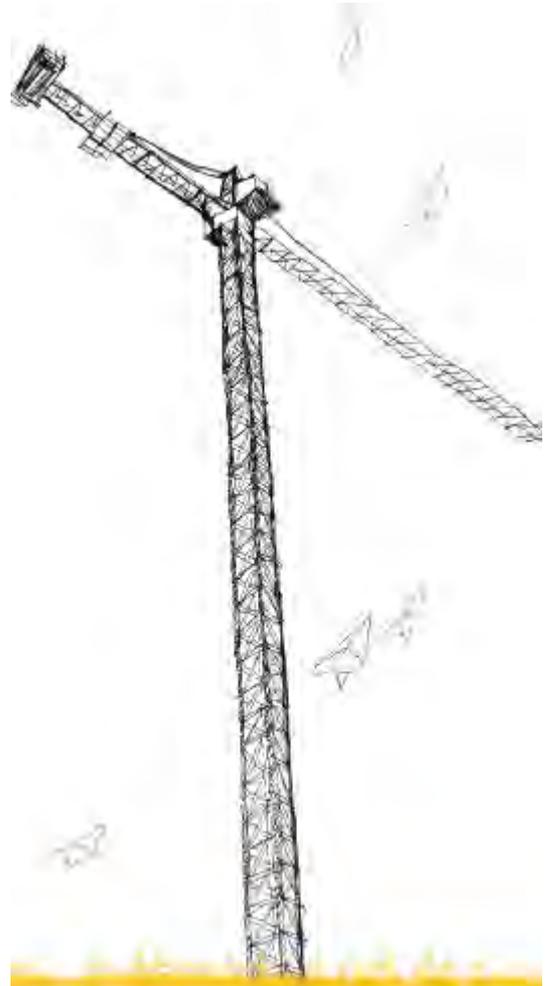
Master and slave control

Flexible coupling

- Master driving unit adopts speed control.
- Slave driving unit follows speed given of master driving unit.
- For closed-loop control, the encoder of master motor feeds back to slave driving unit.
- The impulse input can be used as any given method (speed given, PI, sum ...).

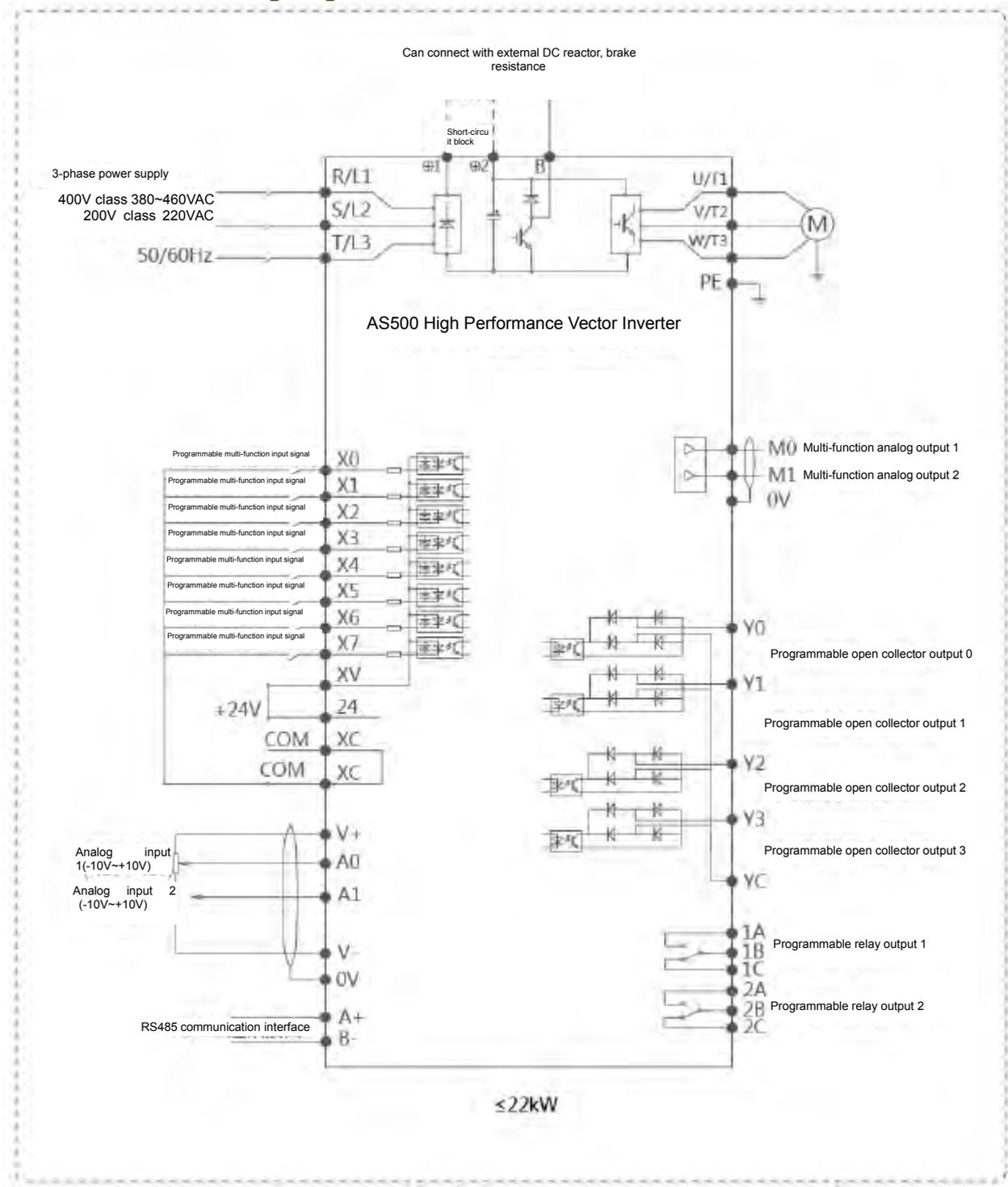
Rigid coupling

- Master driving unit adopts speed control.
- Slave driving unit follows the torque given of master driving unit.
- Torque analog of master driving unit is output to slave driving unit, and this analog input is set as given limit or torque command.

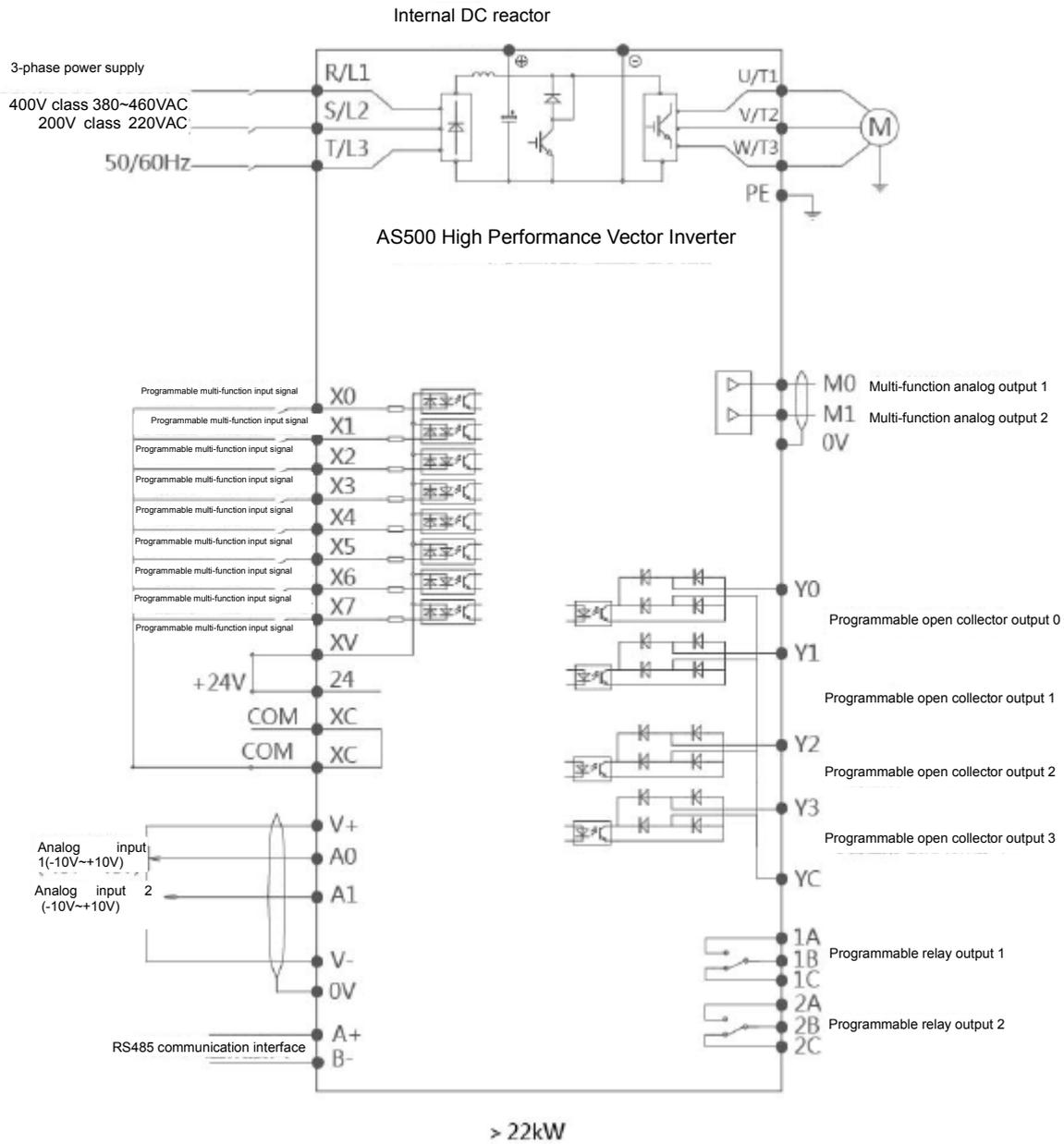


4. Standard Wiring Diagram

AS500 Terminal Wiring Diagram



AS500 Terminal Wiring Diagram



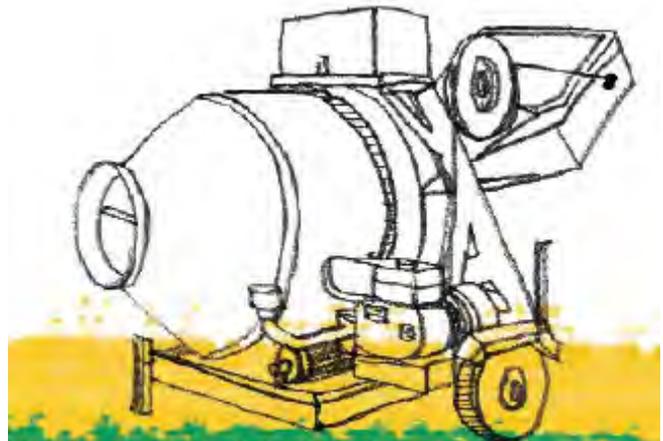
Control circuit terminal function

Y1 Y3 YC 24 XV X1 X3 X5 X7 SC OV OV AO A1

1A 1B 1C 2A 2B 2C

Y0 Y2 XC XC X0 X2 X4 X6 A+ B- M0 M1 V+ V-

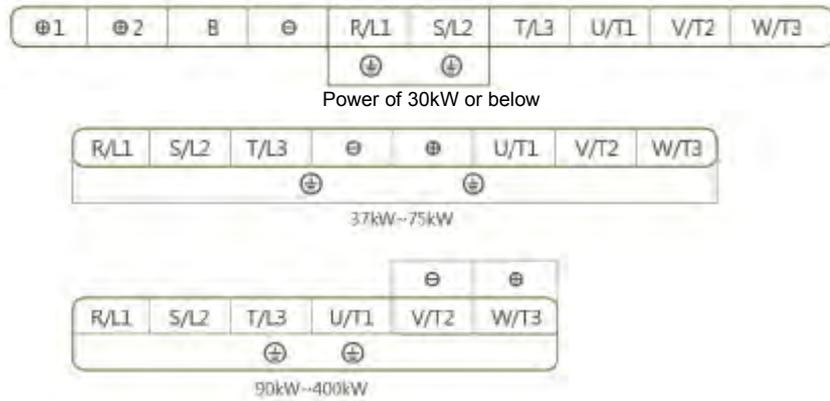
Designation	Terminal Code	Description of Signal	Remarks				
Digital input terminal	X0	Multi-function input 1 (Function code P30.00)	Contact input, so that the input signal is effective when the contact is closed. The function can be selected by the parameters of function code P30. Digital input circuit specifications are as follows: <table border="1" style="margin: 10px auto;"> <tr> <td>Internal power supply</td> <td>+24 VDC</td> </tr> <tr> <td>Maximum load current</td> <td>200 mA</td> </tr> </table>	Internal power supply	+24 VDC	Maximum load current	200 mA
	Internal power supply	+24 VDC					
	Maximum load current	200 mA					
	X1	Multi-function input 2 (Function code P30.01)					
	X2	Multi-function input 3 (Function code P30.02)					
	X3	Multi-function input 4 (Function code P30.03)					
	X4	Multi-function input 5 (Function code P30.04)					
	X5	Multi-function input 6 (Function code P30.05)					
	X6	Multi-function input 7 (Function code P30.06)					
	X7	Multi-function input 8 (Function code P30.07)					
24	Internal +24VDC power output						
XV	Input signal common terminal						
XC	Internal 24V power supply 0V						
Analog input	A0	Multi-function analog input 1 (Function code P30.01)	Voltage input signal: 0 ~ +10V, may be used as analog speed given signal input.				
	A1	Multi-function analog input 2 (Function code P30.07 (voltage))	External analog input signal: 0 ~ +10V/0~20mA, may be used as analog signal input.				
	V+	+10V power output	+10VDC power output terminal used for analog input, with permissible maximum current of 20 mA.				
	V-	-10V power output	-10VDC power output terminal used for analog input, with permissible maximum current of 20 mA.				
	0V	Reference ground for analog input signal	Reference ground for analog input signal				



 **Control circuit terminal function (continued)**

Designation	Terminal Code	Description of Signal	Remarks								
Relay output	1A	Programmable relay output (Function code P31.00)	Programmable relay output function can be selected by the parameters of function code P31. 1 The contact specifications are as follows for switching contact: <table border="1" data-bbox="908 488 1358 786"> <thead> <tr> <th>Item</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>Rated capacity</td> <td>5A/250VAC 5A/30VDC</td> </tr> <tr> <td>When the switching frequency is 120 times/min</td> <td>Failure rate P level 10mA/5V</td> </tr> <tr> <td>Action time</td> <td>Less than 10ms</td> </tr> </tbody> </table>	Item	Description	Rated capacity	5A/250VAC 5A/30VDC	When the switching frequency is 120 times/min	Failure rate P level 10mA/5V	Action time	Less than 10ms
	Item	Description									
	Rated capacity	5A/250VAC 5A/30VDC									
	When the switching frequency is 120 times/min	Failure rate P level 10mA/5V									
	Action time	Less than 10ms									
	1B	1A-1B: NO contact (make contact)									
1C	1B-1C: NC contact (break contact)										
2A	Programmable relay output (Function code P31.01)										
2B	2A-2B: NO contact (make contact)										
2C	2B-2C: NC contact (break contact)										
Open collector output terminal of transistor	Y0	Programmable open collector output 1 (Function code P31.02)	Programmable open collector output functions can be selected by parameters of function code P31. Drive capacity: No more than DC30V, 20 mA.								
	Y1	Programmable open collector output 2 (Function code P31.03)									
	Y2	Programmable open collector output 2 (Function code P31.04)									
	Y3	Programmable open collector output 2 (Function code P31.05)									
	YC	Programmable open collector output common terminal									
Analog output terminal	M0	Programmable analog output 1 (Function code P33.00)	Programmable analog output functions can be selected by parameters of function code P33.00, P33.03. May be used for monitoring output and input from other devices.								
	M1	Programmable analog output 2 (Function code P33.03)									
	0V	Reference ground for analog output signal	Reference ground for analog output signal								
485 communication terminal	A+	485 communication signal +	485 communication signal terminals								
	B-	485 communication signal -									
	SC	Signal ground	485 communication signal ground								

Main circuit terminal layout



Terminal Symbol	Designations and Functions of Terminals
①	Connected to external DC reactor, short-circuited when shipping.
②	
② (⊕)	
B	External braking resistor connection
⊖	DC bus negative output terminal
R/L1	AC power input for main circuit, connected to 3-phase input power supply
S/L2	
T/L3	
U/T1	Inverter output, connected to 3-phase asynchronous motor
V/T2	
W/T3	

5. Technical Specifications

Power input	Input power	380V~460V (-15%~+10%), 3-phase power supply
	Input frequency	45~65Hz
	Permissible voltage variation	Voltage unbalance factor < 3%
	Transient voltage dips	For 3-phase AC 380V~460V power supply, when input voltage < AC300V, under-voltage protection after 15ms (in the case of 85% load)
Power output	Motor output voltage	0VAC~Input voltage
	Output frequency	V/F control: 0.00~300.00Hz, Vector control: 0.00~120.00Hz
	Overload class	150%, 60s
	Efficiency (full load)	≥0.94
	Accuracy of output frequency	±0.01% (digital instruction -10~+45℃) ±0.1% (analog instruction 25±10℃)
Digital input/output	Photocoupler isolation input	8-way, 24V high/low effective level is settable. Input functions are definable.
	Open collector output	4-way. Output functions are definable.
	Relay output	2-way. NO and NC double contacts, contact capacity: resistive, 5A 250VAC or 5A 30VDC; Output functions are definable.
Analog input/output	Analog voltage input	1-way -10~+10 VDC, 1-way -10~+10 V accuracy 0.1%
	Analog voltage output	2-way, -10~+10 VDC, accuracy 0.1%
Encoder input	PG card power supply	5V, 12V, 300mA
	PG card signal	Open collector, push-pull, differential, SIN/COS increment type, Endat absolute type, Resolver type
	PG card frequency division output	OA and OB orthogonal, frequency division coefficient: 0/2/4/8/16/32/64/128 (optional)

Control characteristics	Control method	V/F control	Opened-loop vector control	Closed-loop vector control
	Starting torque	2.50Hz 150%	0.5Hz 150%	0.00Hz 150%
	Range of speed regulation	1 : 50	1 : 200	1 : 1000
	Accuracy of speed control	± 2%	± 0.2%	± 0.02%
	Torque precision	± 5% (closed-loop control)		
	Carrier frequency	2~8k(Hz); carrier frequency may be adjusted automatically according to the load characteristics.		
	Frequency setting resolution	0.01Hz (digital instruction), ±0.06Hz/120Hz (analog instruction 11bit + unsigned)		
	Operation command channel	Operation panel given, control terminal given, communication given		
	Frequency given channel	Operation panel given, digital/analog given, communication given, performance function given		
	Torque boost	Automatic torque boost; manual torque boost		
	V/F curve	User-defined V/F curve, linear V/F curve and 5 kinds of drop torque characteristic curves		
	Automatic voltage regulation (AVR)	Regulate the duty cycle of output PWM signal automatically according to fluctuation of bus voltage so as to relieve the effect on the output voltage fluctuation by fluctuation of grid voltage		
	Instantaneous power-down disposal	At the time of instantaneous power-down, control by bus voltage to realize uninterrupted operation		
	Energy consumption braking capacity	Built-in braking unit for 22kW and below class, external braking unit for 22kW above		
	DC braking capacity	Braking current: 0.0 ~ 100.0% rated current		

Unique functions	Parameter copy	Parameter upload and download by the standard operation panel, with indication of copy progress
	Process PID	For closed-loop control of process
	Torque control	Torque/speed control can be switched over by terminals, with several torque given methods
	Zero servo	Zero speed position locking available
	Common DC bus	Common DC bus power supply for all series multiple inverters

Motor protection	Rotor locking
	Motor overload
	Speed limit
	Torque limit

Inverter protection	Output current limit
	Torque limit
	Inverter overload
	IGBT I ² t protection
	Input power undervoltage/overvoltage
	DC bus undervoltage/overvoltage
	IGBT overheat
	Radiator overheat
	Power supply fault
	Analog input signal loss (loss of speed reference value)
	Abnormal communication
	Encoder connection fault
	Self-tuning fault

Environmental conditions	Location	Install vertically in a well ventilated electrical cabinet. For installation instruction in details, please refer to the Instruction.
	Ambient temperature	-10~+40℃
	Temperature derating	Ambient temperature > 40 ℃
	Altitude	< 1000m
	Height derating	> 1000 m, for each 100m lift, rated output current reduces 1% (3000 m at utmost)
	Ambient humidity	5 ~ 95%, no condensation
	Vibration	The following vibration conditions are met: 3.5 m/s ² , 2~9Hz; 10 m/s ² , 9~120Hz;
	Storage temperature	-40~+70℃
	Protection degree	IP20

Others	Cooling method	Forced air cooling
	Installation method	In cabinet
	Certification	CE

6. Selection and Ordering

Product series model

AS500 4 T 0075

Model	Description
AS500	General

Code	Voltage class
4	400V

Code	Voltage phases
T	3-phase
S	Single phase



Code	Applicable motor power
01P1	1.1kW
02P2	2.2kW
03P7	3.7kW
05P5	5.5kW
07P5	7.5kW
0011	11kW
0015	15kW
18P5	18.5kW
0022	22kW
0030	30kW
0037	37kW
0045	45kW
0055	55kW
0075	75kW
0090	90kW
0110	110kW
0132	132kW
0160	160kW
0185	185kW
0200	200kW
0220	220kW
0250	250kW
0280	280kW
0315	315kW
0355	355kW

 **Product series description**

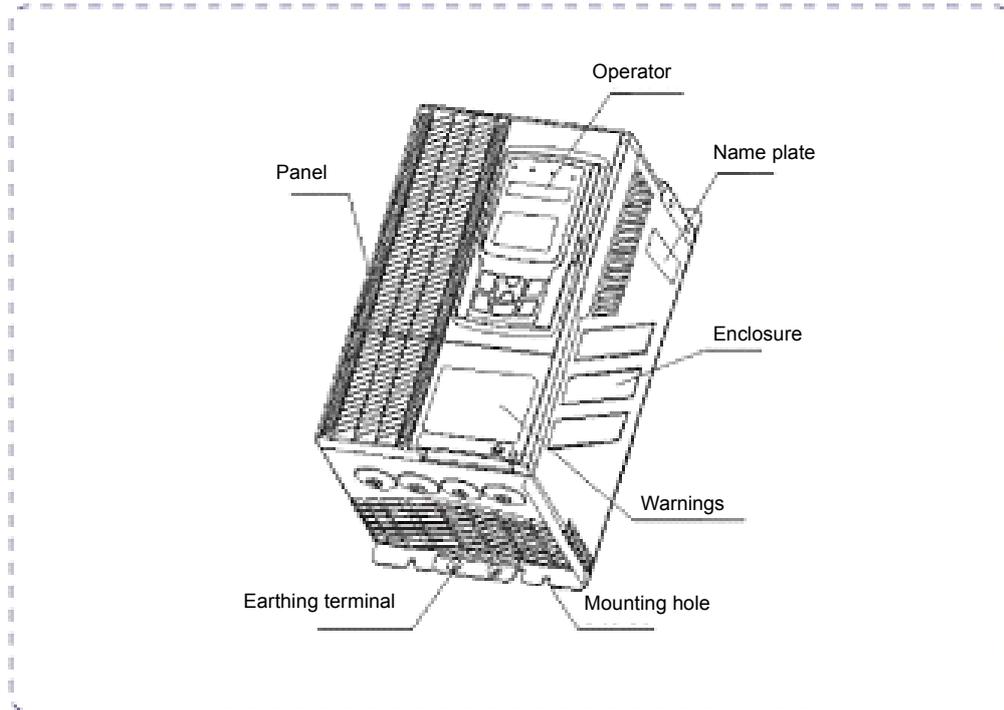
Rated input	Size	Stable operation (40°C, heavy load)				
		Inverter model AS500	Rated output current (A)	Applicable motor (kW)	Overload 150% (1 min)	
200~240V	1	2T01P1	6	1.1	9	
		2T02P2	12	2.2	18	
		2T03P7	18	3.7	27	
380~460V	1	4T01P1	3.5	1.1	5.3	
		4T02P2	6.2	2.2	9.3	
		4T03P7	9	3.7	13.5	
		4T05P5	13	5.5	19.5	
		2	4T07P5	19	7.5	28.5
			4T0011	27	11	40.5
	3	4T0015	34	15	51	
		4T18P5	41	18.5	61.5	
		4T0022	48	22	72	
	4	4T0030	65	30	97.5	
		4T0037	80	37	120	
	5	4T0045	96	45	144	
		4T0055	128	55	192	
		4T0075	160	75	240	
	6	4T0090	195	90	292.5	
		4T0110	240	110	360	
	7	4T0132	270	132	405	
		4T0160	302	160	453	
		4T0185	370	185	528	
		4T0200	390	200	585	
		4T0220	426	220	639	
	8	4T0250	480	250	720	
		4T0280	520	280	780	
		4T0315	600	315	900	
	9	4T0355	650	355	975	

Note: 1. Rated input voltage 380~460V;

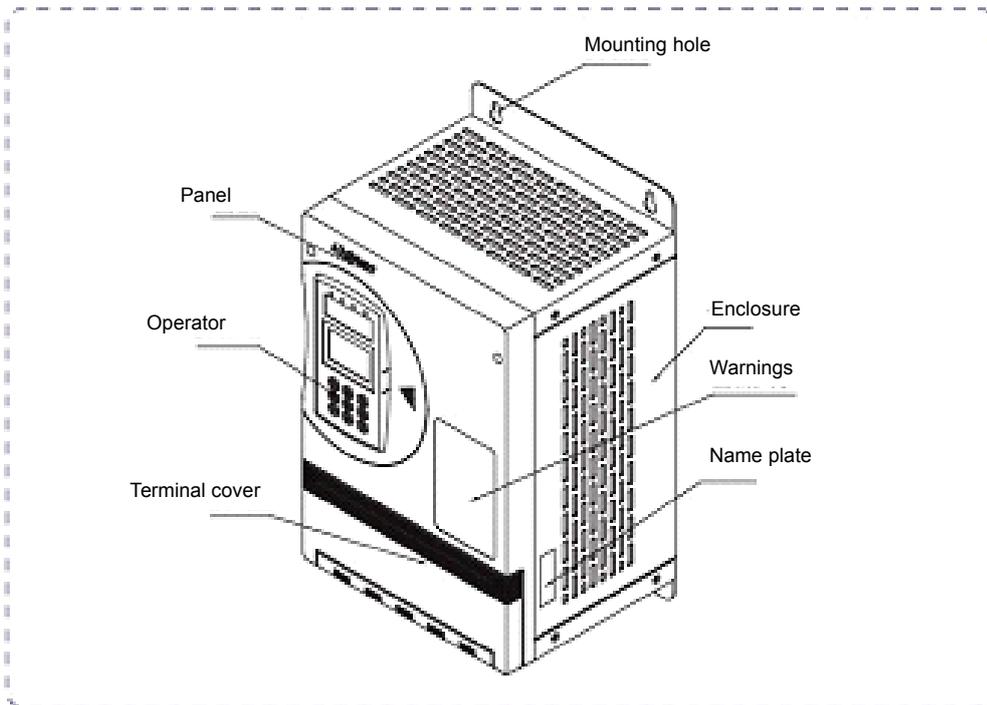
2. Please contact STEP Corporation for rated power, higher power and voltage class of standard 4-pole AC motor (1500r/min). Be sure to check the motor nameplate to ensure selected inverter compatible with the motor.

Inverter appearance

Power class of AS500-4T05P5 and below



Power class of AS500-4T07P5 to AS450-4T0022



🔧 Installation dimensions

Size	Inverter model AS500	A (mm)	B (mm)	H (mm)	W (mm)	D (mm)	Installation aperture Φ (mm)	Installation			Fastening torque (Nm)	Mass (kg)
								Bolt	Nut	Washer		
1	4T01P1	100	288.5	300	160	166	5.0	4M4	4M4	4 Φ 4	2.5	4.5
	4T02P2											
	4T03P7											
	4T05P5											
2	4T07P5	165.5	357	379	222	182	7.0	4M6	4M6	4 Φ 6	3	8
	4T0011											
3	4T0015	165.5	392	414	232	182	7.0	4M6	4M6	4 Φ 6	3	10.3
	4T18P5											
	4T0022											
4	4T0030	200	510	530	330	288	9.0	4M8	4M8	4 Φ 8	9	23
	4T0037											31
5	4T0045	200	585	610	330	310	13.0	4M12	4M12	4 Φ 12	18	42
	4T0055											42
6	4T0075	320	718	750	430	350	13.0	4M12	4M12	4 Φ 12	18	60
	4T0090		768	800								81
	4T0110											90
7	4T0132	374	844	880	500	350	13.0	4M12	4M12	4 Φ 12	18	107
	4T0160											120
	4T0185											130
	4T0200											135
	4T0220											135
8	4T0250	500	997	1030	630	370	14.0	4M12	4M12	4 Φ 12	18	147
	4T0280											147
	4T0315											147
	4T0355											147

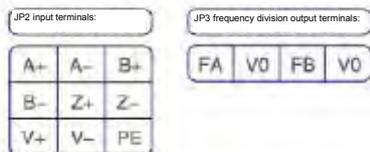
7. Accessories



PG Card

ABZ incremental PG card

ABZ incremental PG card (model: AS.T025) can receive the output signals from two kinds of encoders, which means it can be equipped with encoder with open collector signal or push-pull signal.



PG Card

SIN/COS PG Card

SIN/COS PG card supports maximum input bandwidth 20KHz, can receive SIN/COS differential output signals from encoders, and thus may be equipped with an encoder with SIN/COS differential output signals.

Symbols of JP3 Terminals

FA	V0	FB	V0
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Symbols of JP2 Terminals (14-pin socket)

1	2	3	4	5	6	7
NC	NC	R-	R+	B-	B+	A-
8	9	10	11	12	13	14
A+	NC	NC	NC	NC	0V	V+

SIN/COS PG card can receive SIN/COS differential output signals from encoder.

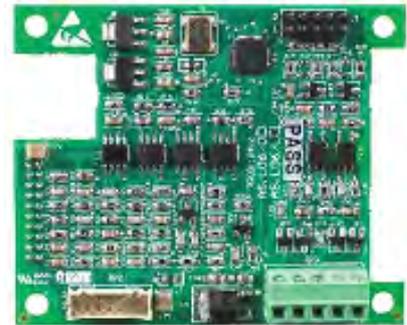
Wiring with encoder



Resolver type PG card

Wiring diagram:

J6		J5	
PIN1	EXCOUT	PIN1	FA
PIN2	EXCNOUT	PIN2	G24
PIN3	SININ+	PIN3	FB
PIN4	SININ-	PIN4	G24
PIN5	COSIN+	PIN5	+12V
PIN6	COSIN-		
PIN7	GND		
PIN8	GND		



8. Service Commitment

When you contact products of Sigriner STEP for the first time, you will find their differences. Our experts own rich experiences and may help you select inverters applicable to your process. From the initial technical specifications to production, delivery and installation, we will comply with all your requirements. Sigriner STEP's services and supports are not only limited to telephone assistance. At different stages of installation, startup, maintenance and troubleshooting, our representatives will provide technical services and supports for you for 24 hours per day, 7 days per week.

Range of our services

- Round-the-clock service 24/7/365
- Preventive maintenance
- Training
- Spares sales
- Upgrading
- Repair and replacement
- Professional services (harmonic analysis, power quality research, electrical system application, remote diagnosis, etc.)

Our commitment

Sigriner STEP is honorable to its reputation in long-term product services. We commit to provide supports in the whole service life. However long the service life of product is, we shall never give up our responsibilities in product services and will ensure your full satisfaction.

Convenient local services

Because of our long-term field service for all customers, we own numerous professional service personnel. Each one of our service representatives has received all-around special training.

9. After-sales service network



Domestic service network

Domestic market

5 agencies

14 liaison offices

Agencies

Beijing, Shanghai, Guangzhou, Wuhan, Jinan

Liaison offices

Dalian, Shenyang, Tianjin, Shijiazhuang, Zhengzhou, Chongqing, Xi'an, Hangzhou, Wuxi, Nanxun, Wujiang, Changsha, Shenzhen, Fuzhou, etc.

Overseas network

Overseas companies

Germany, Hong Kong

Overseas sales

Germany, England, Denmark, Scotland, Canada, Japan, Brazil, Chile, Singapore, Australia, India, Pakistan, Turkey, Saudi Arabia, South Korea, Hong Kong, Macao, Taiwan, etc.