

SY2000 SERIES GENERAL FREQUENCY INVERTER

CATALOGUE



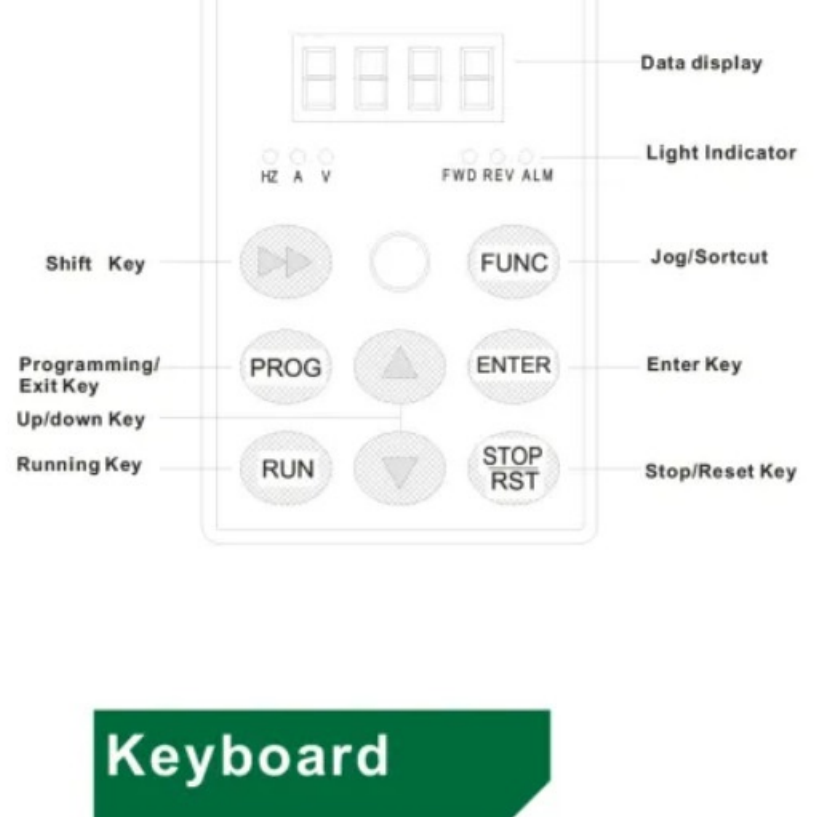
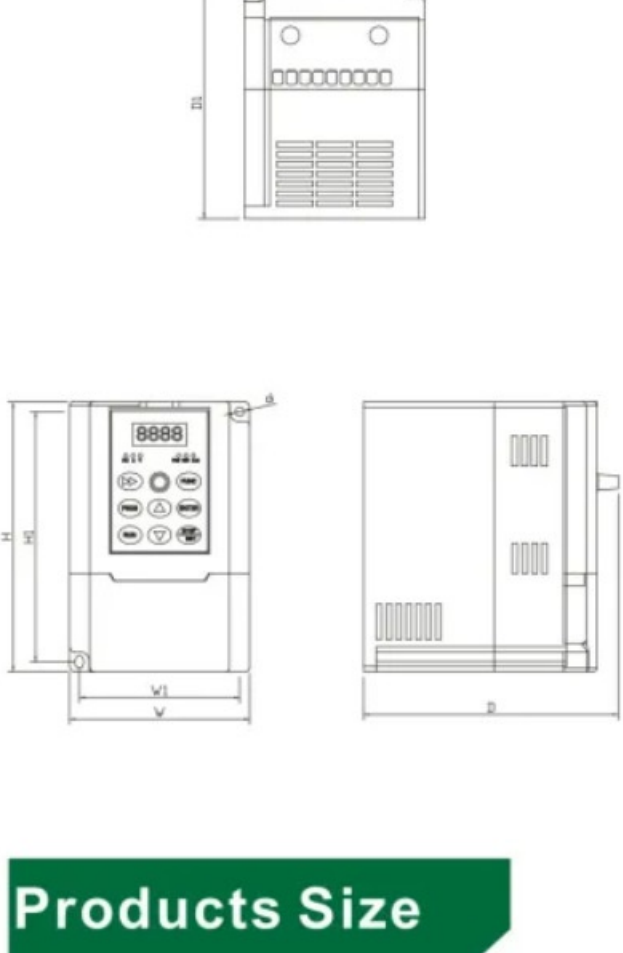
SHANGHAI SANYU INDUSTRY CO., LTD

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Product size

Model	Installation Dimensions			Dimensions			Package Dimensions			Weight (KG)	
	W1(mm)	H1(mm)	D1(mm)	W(mm)	H(mm)	D(mm)	Length	Width	Height		
1 PH 220V	SY2000-0R4G-S2	89	140	128.5	100	151	141.5	185	125	170	1.33
	SY2000-0R7G-S2										
	SY2000-1R5G-S2										
	SY2000-2R2G-S2										
3 PH 380V	SY2000-0R7G-4	89	140	128.5	100	151	141.5	185	125	170	1.33
	SY2000-1R5G-4										
	SY2000-2R2G-4										
	SY2000-004G-4	108	202	155	120	215	165	245	145	190	2.33
	SY2000-5R5G-4										
SY2000-7R5G-4											



Products Size

Keyboard

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Product description

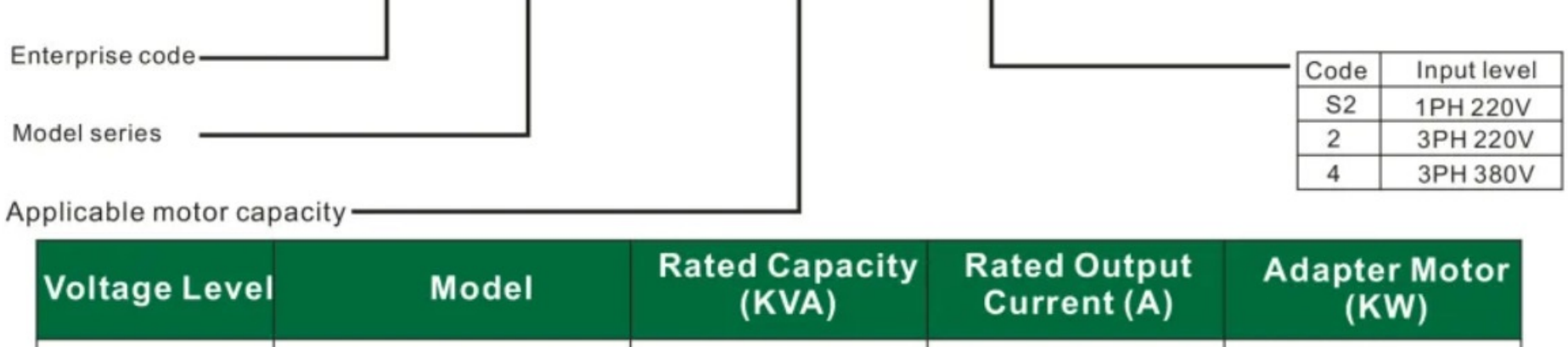
SY2000 frequency inverter is a multi-functional and wide application frequency inverter for small power machines market. It can be widely used in various kinds of processing machinery, water pumps, conveyors and fans.

- One inverter can control 3 motors, soft start 2 motors for power frequency working, 1 motor for variable frequency working
- V/F control, advanced V/F control, V/F separation control, electric current vector control
- Standard MODBUS communication;
- Process PID control;
- 16 section speed control;
- 0-3000HZ high frequency output;
- Multi point V/F curve set;
- Speed tracking function, automatic search motor speed, start again without stopping the motor;
- Single and cycle counting function;
- Integrated With a multi function input and output port, and switching capacity can be set as delay time;
- Integrated with protection as over current, over voltage, under voltage, over temperature, over load and so on, it can save the fault information;
- With a wide selection of DC braking, magnetic flux braking, resistance energy consumption, the internal brake unit;
- Over current stall, over voltage stall, and response to the load mutation.
- Integrated with simple PLC function



Product selection

SY2000 -1R5G -4



Voltage Level	Model	Rated Capacity (KVA)	Rated Output Current (A)	Adapter Motor (KW)
1Phase 220V	SY2000-0R4G-S2	1.0	2.5	0.4
	SY2000-0R7G-S2	1.4	4.0	0.75
	SY2000-1R5G-S2	2.6	7.0	1.5
	SY2000-2R2G-S2	3.8	10.0	2.2
	SY2000-004G-S2	14	16.0	4.0
	SY2000-5R5G-S2	20	20.0	5.5
3Phase 380V	SY2000-0R4G-4	1.2	1.6	0.4
	SY2000-0R7G-4	1.5	2.3	0.75
	SY2000-1R5G-4	3.7	3.7	1.5
	SY2000-2R2G-4	4.7	5.0	2.2
	SY2000-004G-4	6.1	8.5	4.0
	SY2000-5R5G-4	11	13.0	5.5
	SY2000-7R5G-4	14	17.0	7.5
	SY2000-011G-4	20	25.0	11.0
	SY2000-015G-4	24	32.0	15.0
	SY2000-018G-4	26	37.0	18.5

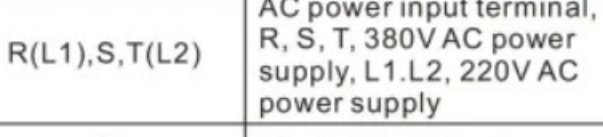
Specifications

Function description	Specification
Rated input voltage	1PH 220(-15%)~240V(+10%) 3PH 220(-15%)~240V(+10%) 3PH380V(-15%)~440V(+10%)
Rated input frequency	50HZ or 60HZ; Allowed range 47HZ~63HZ
Rated output voltage	Equal to the input voltage, the error is less than 5%
Rated output frequency	50HZ or 60HZ; +/-5%
Control mode	V/F control / flux vector control
Maximum output frequency	Low frequency mode:0~300HZ;High frequency mode:0~3000HZ
Speed ratio	1:100
Overload capacity	150% rated current one minute, 180% rated current 5 seconds, 200% rated current 1 second
Analog input resolution	No more than 20mV
Terminal switch input resolution	No more than 2mS
Analog input and output	Input 2, 1 for 0~10V, 1for 4~20mA;Output2 for 0~10V/4~20mA
Digital input and output	5 ordinary input, 1 Y terminal output (with ordinary digital input and output), 2 way programmable relay output
Communication	485 communication (support MODBUS protocol bus)
Installation method	Wall mounting
Ambient Temp.	-10-50°C, (At 40~50°C, please use it by derating)
Cooling mode	Single phase forced air cooling 0.4-0.75KW natural cooling; Three phase 0.4-0.75KW natural cooling, three-phase 380v 1.5-2.2KW forced air cooling
Fault protection function	Provide a dozen kinds of fault protection function: over current, over voltage, under voltage, over temperature, over load and so on.
Brake unit	Built in
Speed Tracking and Restart Function	Smooth restart during operation, instantaneous stop and restart

Product wiring diagram

Main circuit terminal

R(L2) S T(L1) PB P+ U V W G



Terminal name	Function description
R(L1),S,T(L2)	AC power input terminal, R, S, T, 380V AC power supply, L1, L2, 220V AC power supply
G	Earthing terminal
U, V, W	Inverter output terminal, the three-phase AC motor
P+, BR	External braking resistor connection terminal

