

SY8600

220V SERIES

Inverter model	Input voltage	Rated oupt power (KW)	Rated input current (A)	Rated output current (A)	Appllicable motor (KW)
SY8600-0R7G-2	Three-phase 220V	0.75	5.5	5	0.75
SY8600-1R5G-2	voltage range -15%~+15%	1.5	8.3	7.5	1.5
SY8600-2R2G-2		2.2	12	10	2.2

380V SERIES

Inverter model	Input voltage	Rated oupt power (KW)	Rated input current (A)	Rated output current (A)	Appllicable motor (KW)
SY8600-0R7G-4	Three-phase 380V voltage range: -15%~+15%	0.75	3.5	2.5	0.75
SY8600-1R5G-4		1.5	6.2	3.8	1.5
SY8600-2R2G-4		2.2	9.2	5.5	2.2
SY8600-004G/5R5P-4		4.0/5.5	14.9/21.5	9.0/13.0	4.0/5.5
SY8600-5R5G/7R5P-4		5.5/7.5	21.5/27.9	13.0/17.0	5.5/7.5
SY8600-7R5G/011P-4		7.5/11.0	27.9/39	17.0/24.0	7.5/11.0
SY8600-011G/015P-4		11.0/15.0	39/50.3	24.0/30.0	11.0/15.0
SY8600-015G/018P-4		15.0/18.5	50.3/60	30.0/39.0	15.0/18.5
SY8600-018G/022P-4		18.5/22.0	60/69.3	39.0/45.0	18.5/22.0
SY8600-022G/030P-4		22.0/30.0	69.3/86	45.0/60.0	22.0/30.0
SY8600-030G/037P-4		30.0/37.0	86/104	60.0/75.0	30.0/37.0
SY8600-037G/045P-4		37.0/45.0	104/124	75.0/91.0	37.0/45.0
SY8600-045G/055P-4		45.0/55.0	124/150	91.0/112.0	45.0/55.0
SY8600-055G/075P-4		55.0/75.0	150/160	112.0/150.0	55.0/75.0
SY8600-075G/090P-4		75.0/90.0	160/176	150.0/176.0	75.0/90.0
SY8600-090G/110P-4		90.0/110.0	176/196	176.0/210.0	90.0/110.0
SY8600-110G/132P-4		110.0/132.0	196/232	210.0/253.0	110.0/132.0
SY8600-132G/160P-4		132.0/160.0	232/282	253.0/304.0	132.0/160.0
SY8600-160G/185P-4		160.0/185.0	282/326	304.0/350.0	160.0/185.0
SY8600-185G/200P-4		185.0/200.0	326/352	350.0/380.0	185.0/200.0
SY8600-200G/220P-4	200.0/220.0	352/385	380.0/426.0	200.0/220.0	
SY8600-220G/250P-4	220.0/250.0	385/437	426.0/470.0	220.0/250.0	
SY8600-250G/280P-4	250.0/280.0	437/491	470.0/520.0	250.0/280.0	
SY8600-280G/315P-4	280.0/315.0	491/580	520.0/600.0	280.0/315.0	
SY8600-315G/350P-4	315.0/350.0	580/624	600.0/650.0	315.0/350.0	
SY8600-350G/400P-4	350.0/400.0	624/670	650.0/690.0	350.0/400.0	



HIGH PERFORMANCE VECTOR CONTROL INVERTER SY8600 SERIES

(0.4~400kW)

Applications

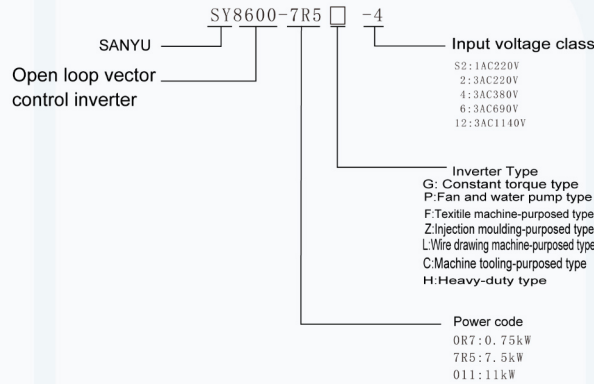
SY8600 is widely used in many industrial field, especially for water pump, one inverter can ran 3 pumps. CNC machines, textile machinery, plastic machinery, food machinery, printing machines, packing machines, woodworking machinery, winding machinery, mining machinery, lifting machinery accessories industry.



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Printed with ecological paper.
2011.07

Denomination rules



CONNECTION

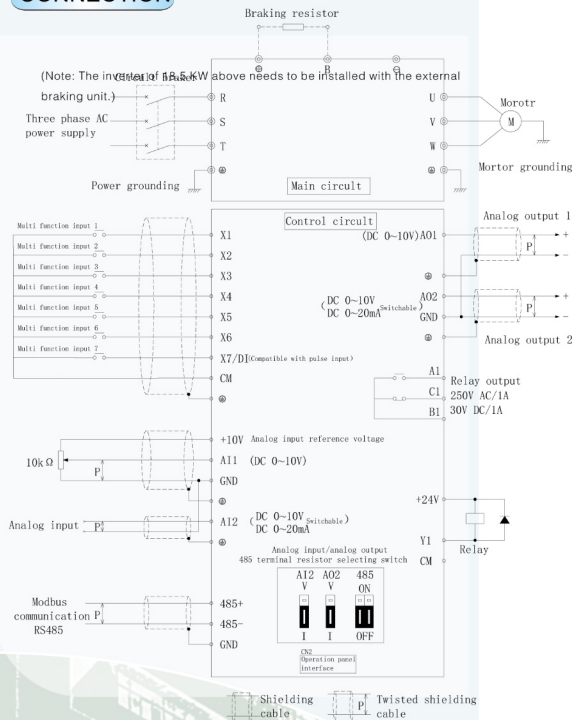


Fig.3-6 Terminal wiring diagram (take SY8600-015G-4/018P-4 as an example)

SY8600 INVERTER TECHNICAL CHARACTERS

- The control mode is various, and it is commonly used
- The motor parameters can be automatically recognized.
- When the frequency is 0.5Hz, the torque output will be 150%.
- Zero speed torque output.
- Super-silent running.
- Trip suppression to achieve more stable running
- The quick menu design.
- Simple PLC, PID adjustment
- The structure is compact and legerity
- Built-in RS-485 communication interface, standards MODBUS protocol.
- 25 types of protection functions.

Technical specification

Item		Specification
Basic Spec.	Frequency	400.00Hz
	Carrier frequency	1.0~15.0KHz
	Resolution of input frequency	Digital setting: 0.01Hz Analog setting: Max frequency ×0.1%
	Control mode	Open loop vector control V/F control
	Start torque	G type: 0.5Hz/150% P type: 0.5Hz/100% C type: 0.5Hz/200%
	Speed regulation range	1:100
	Speed stabilization accuracy	±0.5%
	Overload capacity	G type 150% of rated current for 60s; 180% of rated current for 1s P type 120% of rated current for 60s; 150% of rated current for 1s C type 180% of rated current for 60s; 200% of rated current for 1s
	Torque increase	Automatic torque increase Manual torque increase 0.1%~30%
	V/F curve	Two modes: Straight line type, 2.0 power
Individual function	Acc./Dec. curve	Straight-line or S-curve acceleration and deceleration mode; two kinds os acceleration and deceleration time; range of acceleration and deceleration time: 0.1~3600.0s
	DC brake	DC braking frequency:0.0HZ~10.00HZ;braking time:0~50.0s; braking operation current:0.0~150%
	Jogging control	Jogging frequency range:0.00HZ~p.13;jogging acceleration and deceleration time:0.0~3600.0s
	Multi-speed running	8-segment speed control
	Multi-in PID	Realizing the process closed loop control system conveniently
	AVR	When the mains voltage makes the change, it can automatically keep the output voltage constan.
	Common DC bus function	Realizing the funtions of common DC bus for many inverters
	JOG key	Programmable key: Jog/forward&reverse rotation seitchover/clearing UP/Down setting.
	Wobble frequency control for spinning	Multi triangular wave frequency control functions
	Timing control	Timing control function: setting time range 0~65535h
Input/output	Running command channel	Three channels: Operation panel setting, control terminal setting, serial communication port setting
	Frequency source	Digital setting, analog voltage setting, analog current setting, serial port setting, etc.
	Input terminal	Two analog input terminals, hereint,No.4 terminal is used for voltage input, and No.5 terminal is used for voltage or current input
Display and Environment	Output terminal	One open collector output, two relays output One analog terminal, 1/4~20mA or 0~10V available for it, can realize the output of analog quantities such as setting frequency and output frequency.
	LED	Displaying parameters
	LCD	Option, displayed in Chinese
	Parameter locking	preventing other persons setting the parameters
	Protection function	Short-circuit protection, input/output phase-failure protection, over-current protection, under-voltage protection, over-voltage protection, over-load protection, over-heat protection, etc.
	Option	LCD operation panel, multi-function input/output expansion card, braking component, communication wire, etc.
	Service location	Indoors, free from direct sunlight, dust, corrosive gas, cumbustible gas, oil mist, water vapor, drip or salt, etc.
	Altitude	Lower than 1,000m
	Ambient temp.	-10℃~+40℃ (At 40℃~50℃, Please use it by derating)
	Humidity	Less than 95%RH, no water condensation.
Vibration	Less than 5.9m/s2	
Storage temp.	-20℃~+60℃	