






# VEVOR

**Affordable. Reliable. Home Improvement.**

**Universal Ac Motor**

**MODEL: SYT-0.5HP-4P-B34 / SYT-1HP-4P-B34 / SYT-3HP-4P-B3 /  
SYO-5HP-4P-B3 / SYT-5HP-2P-B3**

## VEVOR Support Center

1	<b>SYT-0.5HP -4P-B34</b>		4	<b>SYO-5HP -4P-B3</b>	
2	<b>SYT-1HP -4P-B34</b>		5	<b>SYT-5HP -2P-B3</b>	
3	<b>SYT-3HP -4P-B3</b>				

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This is the original instruction, please read all manual instructions carefully before operating. VEVOR reserves a clear interpretation of our user manual. The appearance of the product shall be subject to the product you received. Please forgive us that we won't inform you again if there are any technology or software updates on our product.

### **SAFETY WARNINGS AND PRECAUTIONS**

1. Voltage, frequency and the wiring style should be consistent with the motor nameplate, power supply voltage should be maintained at plus or minus 5% of the rated operating range.
2. No more than 1000 meters above sea level.
3. Ambient air temperature not exceeding 45°C .
4. The motor must have a good grounding device.

5. Before option must measure 500-volt megohm table winding insulation resistance to ground, and its value should be more than 0.2 megohm, or to be dried.
6. Before starting pull action shaft, it should be flexible rotation, no friction and collisions, running should be smooth and lightly, without stagnation and the noise, if found the strange noise, overheating, burning smell, smoke or slow speed of the phenomenon, should immediately turn off power, shutdown inspection, repair it.
7. The surrounding environment should keep clean and dry and well ventilated.
8. When the motors are not allowed backward in the slow, not frequent start, Capacitor-running motors can not belong-term light-load use.
9. Bearing grease should be changed every six months, to fill the bearing chamber is about 60% of the gap is appropriate
10. Check whether the motor fastening is fasten.
11. Check whether the turn is right, if don't, then in accordance with the following methods of grafting. (A.the introduction of three-phase line can be any swap  
2.B.any swap the main section of single-phase winding circumstances leading to side can help.)
12. According to the rated motor power continuous operation, the heating part of the maximum permissible temperature rise shall not exceed the following requirements.
13. Winding Temperature rise:115k, Core:115k.
14. This series of motors using environment and conditions: can be used in wet dusty place, but should always pay attention to cleaning and inspection to prevent the extended, dust, iron and other foreign body broken motor interior.
15. Motor routine maintenance:  
Electrical outlet box part of the electrical contacts should be kept clean and good contacts, whether the motor air inlet plug, so as not to affect the motor life. Regular maintenance should be a half a year, check the motor remove dust and oil, grease and abrasion.
16. The motor running check:  
When motor is operated it should always be paid attention to whether the load data in current with requirement, whether the bearing has phenomena of heat and leakage, if found abnormal or sound, should be stopped immediately for inspection. Until fault is identified, do not do Starting test

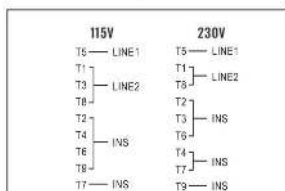
## TECHNICAL INFO

Model NO	<b>SYT-0.5HP-4P-B34</b>	<b>SYT-1HP-4P-B34</b>	<b>SYT-3HP-4P-B3</b>
Horsepower	0.5HP	1HP	3HP
Frame size	56	56	184T
Rated current	8.3A/4.1A	13.2A/6.6A	13.6A
shaft Length	1.88"	1.88"	3.56"
shaft Diameter	5/8" keyed shat	5/8" keyed shaft	1.125" keyed shaft
Rated speed	1725 RPM	1725 RPM	1725 RPM
phase	one/ single phase	one/ single phase	one/ single phase
voltage	115V / 230V	115V / 230V	230V
Frequency	60 HZ	60 HZ	60 HZ
Rotation	CCW/CW	CCW/CW	CCW/CW
Enclosure	TEFC	TEFC	TEFC
Insulation	F	F	F
service Factor	1.15	1.15	1.15
Duty	cont. S1	cont. S1	cont. S1
class of protection	IP23	IP23	IP23
DES-AMB	40 °C	40 °C	40 °C
protection	overload protection with Manual Reset		

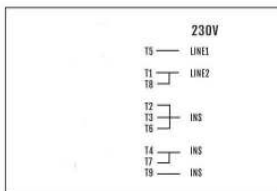
Model NO	<b>SYO-5HP-4P-B3</b>	<b>SYT-5HP-2P-B3</b>
Horsepower	5HP	5HP
Frame size	184T	56
Rated current	18A	18.2A
shaft Length	3.56"	2.44"
shaft Diameter	1.125" keyed shat	0.875" keyed shaft
Rated speed	1725 RPM	3450 RPM
phase	one/ single phase	one/ single phase
voltage	230V	230V
Frequency	60 HZ	60 HZ
Rotation	CCW/CW	CCW/CW
Enclosure	ODP	TEFC
Insulation	F	F
service Factor	1.15	1.15
Duty	cont. S1	cont. S1
class of protection	IP23	IP23
DES-AMB	40 °C	40 °C
protection	overload protection with Manual Reset	/

## CONNECTION METHOD

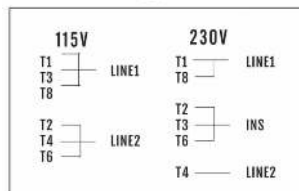
4P



4P



2P



**Explanation:**

- 1) The factory settings are all 115v/60Hz voltage wiring methods;
- 2) 1~T9 are the motor lead wire numbers
- 3) INS stands for parallel connection
- 4) LNE1 and LINE2 represent power lines;
- 5) The change from CCW to CW is the exchange of T6 and T8

**Connection Method (2p)Two Stage Motor****115V**

- 1) T1, T3, and T8 are connected in parallel to power line 1
- 2) T2, T4, and T6 are connected in parallel to power line 2

**230V**

- 1) T1 and T8 are connected in parallel to power supply LINE1,
- 2) T2, T3, and T6 are connected in parallel;
- 3) T4 connection power LINE2

**Four stage motor connection method (4P )****115V**

- 1) T5 connected to power LINE1;
- 2) T1, T3, and T8 are connected to power supply LINE2) T2, T4, T6, T7, and T9 are connected in parallel;

**230V**

- 1) T5 connected to power LINE1;
  - 2) T1 and T8 are connected to power supply LINE2.
  - 3) T2, T3, and T6 are connected in parallel;
- T4 and T7 are connected in parallel 5) T9 is empty

**Note:** If the motor you purchased is single-voltage, you can connect the motor leads directly to the power cord.

**WARNING:**

The lead wire used by this motor should be above 10AWG. And the length of the power cord should not exceed 10 meters.

**COMMON PROBLEMS AND REMEDIES****Problem 1:**

When you receive the motor, please check whether the front shaft of the motor can

rotate. if you find that manual rotation is not possible.

**Solution:**

The concentricity of the motor may be damaged during transportation. You can hammer the shaft, front end cover and back end cover with a wooden hammer or a rubber hammer to adjust the concentricity. Until the shaft of the motor can be turned flexibly manually.

**Problem 2:**

The motor does not work when it is powered on.

**Solution:**

- 1) Please check the power supply to make sure the output voltage is correct.
- 2) Please check the wiring carefully to make sure it's the same as the wiring diagram.
- 2) Please press the red protector button, hear the clear "click" reset sound then reconnect the power, start the motor.

**Problem 3:**

After the motor is powered on, it rotates slowly and cannot be started normally.

**Solution:**

- 1) Please check the power supply to make sure the output voltage is correct.
- 2) Please check the wiring carefully to make sure it's the same as the wiring diagram.
- 3) Check the capacitance of the motor to ensure that the capacitance is in good condition.

**Problem 4:**

After running for a period of time, the motor heats up and stops working

**Solution:**

Motor overloaded running, protector function. After half an hour of cooling,press the red protector button to reset and try again

