

User Manual

DIGITAL PHASE SHIFTER

Purpose to correct use, please read the user manual carefully before using the DPS.

- Please ensure the user manual to be handed over to the end-user and the person in charge of maintenance.
- After reading and understanding the user manual, keep it in a place where the user can always find it.

MY-PS-**15** MY-PS-**20** MY-PS-**25**

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Est. 1973 Variable speed motor specialty maker MYUNG YOUN ELECTRONICS CO., LTD.

BE SURE TO READ AND FULLY UNDERSTAND THE FOLLOWINGS **BEFORE USE**

CAUTION

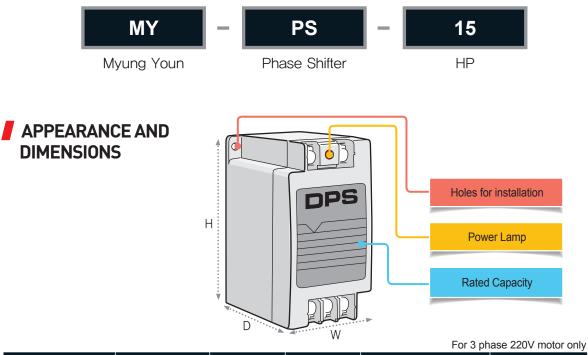
- This product should be used only for 3 phase 220V motor.
- One DPS unit should be used only for one motor that meets DPS specifications.
- 3 phase voltages are output when the motor is running.
- Connecting only U, W lines for control wires of eletronic switch, brake, magnetic contactor, etc.
- Only 1 phase of motor brake is allowed. (3 phase brake does not work.)
- If the motor overheats, check the current indicated on the motor nameplate. (Use motor load less than 80% of rated capacity of the motor.)
- Never use DPS model that does not meet motor capacity. (causes motor overheating) * Never use DPS capacity 2 levels higher than rated motor capacity. It may cause overheating or trouble. ex) Motor 15HP : DPS MY-PS-20 model(o) DPS MY-PS-25 model(x)
- If you find smoke, strange smell or noise, turn off the switch immediately, disconnect the plug from the power socket, and contact our service center. Continued use may cause fire or electric shock.



WARNING

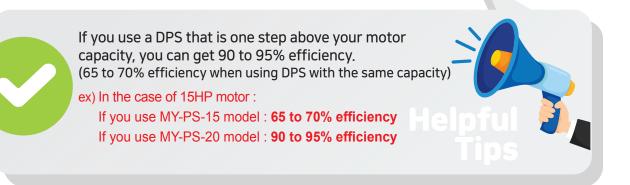
- Use this DPS only for operation 3 phase motor(220V) from single phase power(220V) supply.
- As the DPS has no protection device, install safety circuit breaker at the input terminal to use it
- In the event of abnormality, cut off the power immediately. (There is a danger of electric shock.)
- Do not move or install the product in the condition with the current flowing or exposed. (There is a danger of fire or electric shock.)
- Be sure to cut off the power switch in the event of power failure during operation. (When the power is restored, it restarts automatically, which may cause an unexpected accident.)
- Do not disassemble, assemble, or modify the DPS.

CHECKING MODEL NAME



Model	Rated Capacity (HP)	Current (A)	Frequency (Hz)	Dimension $(W \times H \times D)$	Holes for installation (Ø)
MY-PS-15	15	45	50/60	145×227×126	5
MY-PS-20	20	60	50/60	145×227×126	5
MY-PS-25	25	76	50/60	145×227×126	5

* Product specifications are subject to change without prior notice purpose to improve the quality.

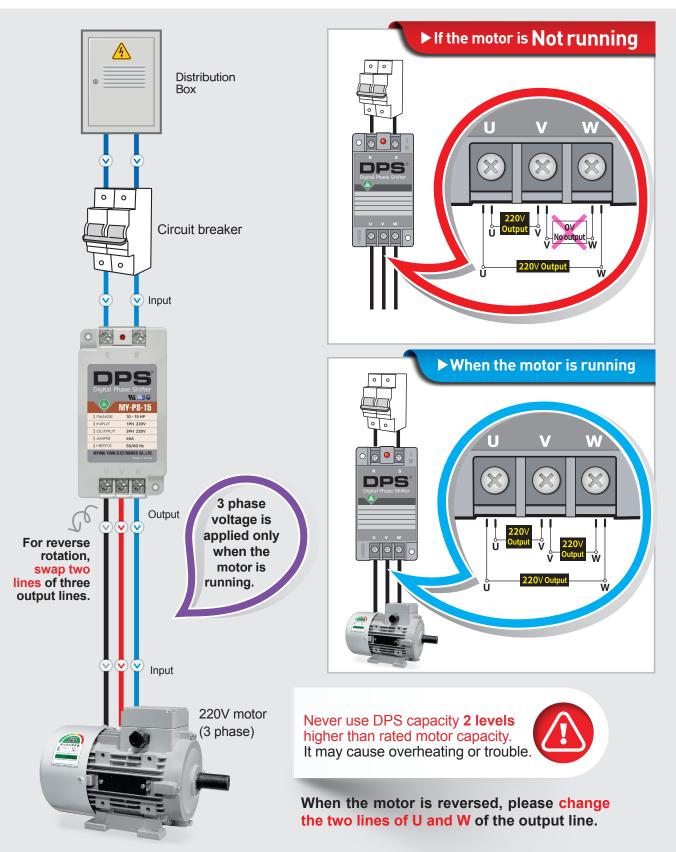


Q/A USING FOR DPS

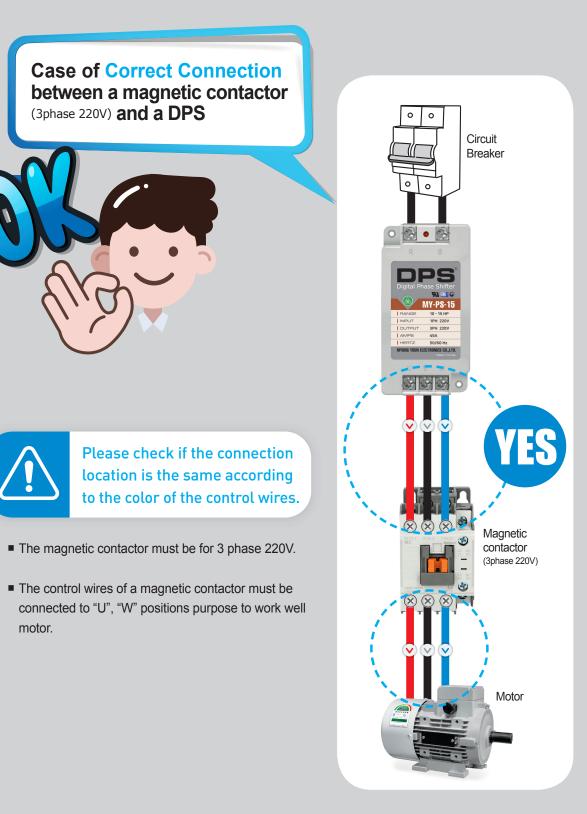
Question	Answer
 Only 2 phases come out from the DPS's output voltage. 	3 phase voltages are output only when the motor is running. When the motor is not running, it is normal for only single phase output to come out.
DPS output voltage and current are irregular.	Initially, there may be voltage and current imbalances, but when the load take more than 50%, the voltage and current will soon balance. This phenomenon occurs in the process of making three phases from single phase.
The motor runs well at first, then suddenly the breaker was tripped.	Check the capacity of the breaker. You need to select twice the capacity of the motor rated current. e.g. Motor 15A : Breaker 30A
The power of the DPS is checked, but the motor is not running.	Check the DPS and motor connections (check whether the magnetic control lines are connected to U and W of DPS's output).
Connected the DPS to the motor and running the motor, but the voltages and current value are too high.	Check the capacity of the DPS and motor. If the DPS capacity is too large for the motor capacity, that happens. Or, please check whether two motors are installed in the machine. It should be used only for one DPS per one motor.
Is DPS available when the machine has 2~3 motors?	Originally, you should use one DPS for only one motor. However, if the start and stop times of the motor are the same, you could use one DPS for multiple motors.
The DPS LED power does not come on in spite of entering power.	Please contact the head office after checking the input power.
The motor runs well by connecting the DPS, but suddenly it doesn't work well.	Check the magnet switch connection, overload capacity, and breaker capacity (twice the motor rated current). And check for the overload.
The motor is operated too weak.	Check if the input voltage and power volume are normal and check the motor load.Also, make sure that the magnetic conrol line is connected to the U and W positions of the DPS output.
How should the magnet switch, overload, and breaker capacities be selected?	When using the above products, it should be selected as twice the capacity of the rated current of the motor.
The motor slows down and does not run smoothly.	Please check the load volume of the motor and use the load less than 85% (overcurrent phenomenon caused by overloading).
There's a lot of noise when the motor is running.	Check the DPS and motor capacity (The motor is noisy and generates heat when using a DPS with a specification higher than the appropriate capacity).
The current of Motor output is too high and overheating occurs.	Please check if the motor capacity and DPS capacity are properly selected. e.g. MY-PS-15 model : Used for 10HP motor MY-PS-20 mode I: Used for 15HP motor
Is DPS available for sunbeds, welders, ovens, and tenning machines?	You can use it after contacting our head office. However, it is slightly less efficient than when used in motors. (approximately 70%)

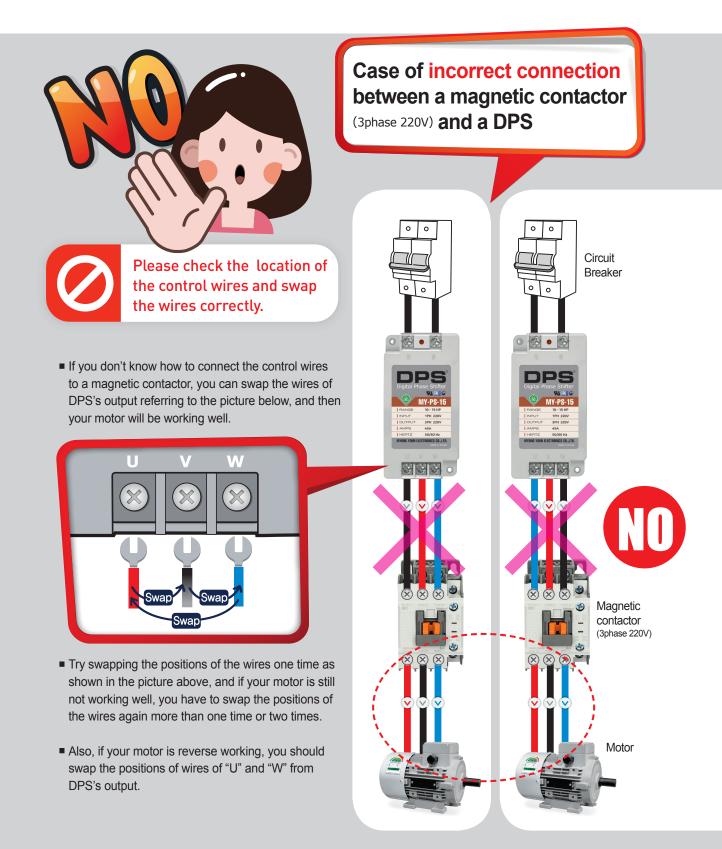
DPS CONNECTION DIAGRAM

VOLTAGE CHECK DIAGRAM



Example of a connection between a DPS and a magnetic contactor





APPLICATION

- All appliances driven by 3 phase motor
- All industrial or household motors
- Hoists
- Compressors
- Conveyor motors
- Agitators
- Food processing machines
- For hydraulic motors
- Document shredders
- The product can be connected quickly and easily everywhere for use.

- Meat cutters
- Agricultural machinery
- Woodworking machines
- Portable air conditioner
- Pumps
- Air blowers
- Machines for ceramic use
- Fan motors
- Portable packing machines
- Cutters

WARRANTY

Warranty is guaranteed for one year from the date of purchase if the product fails while in use.

Also, we will repair or replace the product for free.

However, even if the failure is caused by the customer's negligence or natural disasters, it is charged to customer.

THE FOLLOWING CASES ARE NOT COVERED BY THE WARRANTY.

- Careless handling of users (submergence, external impact, overload, etc.)
- Natural disasters (fire, earthquakes, floods, etc.)
- Product has been disassembled or modified by user
- Failure caused by abnormal working environment
- Excessive voltage application out of range
- Failure or damage due to unreasonable operation or user error

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