RF Wireless Receiver (Model 0020027 S1PFA-AC380)

Feature:

Application: It can be used in rolling blinds, rolling doors, projection screens, awnings, pumps, winches, conveyors or other equipments with AC motor. It can remotely control the AC motor to rotate in the forward or reverse direction.

Wireless control, easy to install. Universal Power Supply: AC 75~400V, working with the motor of AC 110V, AC 120V, AC 220V, AC 240V, AC 380V.

High Power: Each channel can work at maximum current 30A.

With 3 manual buttons: You can press the manual buttons to control the equipments.

With limit control terminals: You can connect external limit switches to control the equipments.

With manual control terminals: You can connect external manual switches to control the equipments.

With external telescopic antenna, the receiver have a farther working range.

You can rotate the motor in the positive or reversal direction with the transmitter (remote control) from any place within a reliable distance.

Wireless RF signal can pass through walls, floors, doors or windows.

With characteristics of reverse power protection and over current protection.

Reliable control: The code has thousands of different combinations, and the receiver only works with the transmitter which use the same code. One/several transmitters can control one/several receivers simultaneously.

You can use two or more units in the same place.

Receiver Parameters:

Model No.: S1PFA-AC380 Power Supply (Operating Voltage): AC 75~400V (110V/120V/220V/240V/380V) Wire range for the terminals: 22-12 AWG Working Frequency: 433.92MHz Channel: 2 CH Control Modes: Interlocking, Momentary Static Current: ≤6mA Maximum Load Current: 30 A / each channel Operating Temperature: -20 ° C to +70 ° C Case size: 138mm x 85mm x 40mm

Matching Transmitters:

The receiver can work with different transmitters, such as model CV-4-2 (500M) or CB-4 (1000M) etc.

Working Range:

With a transmitter (such as CV-4-2) to form a complete set, the maximum working distance can reach 500M in an open ground.

The maximum working distance is a theoretical data, it shall be operated in an open ground, no barriers, no any interference. But in the practice, it will be hindered by trees, walls or other constructions, and will be interfered by other wireless signals. Therefore, the actual distance may not reach this maximum working distance.

If you want to have a further working range, you can use a powerful transmitter, such as CB-4 transmitter.

Usage (with the transmitter CV-4-2):

The receiver can be used to control AC 380V pumps, motors and other equipments by the 380V contactors, and it can't directly connected to the 380V equipments.

Notice: The receiver is relay output, not DC/AC power output. Initial state of relay output terminals: Two terminals are Normally Open.

Wiring:

1) If you want to control the AC 110V or 220V motor, you can connect the receiver, the motor and the AC power according following circuit diagram 1, then you use the transmitter to control the motor.

2) If you want to control a AC 380V motor, you can connect the receiver, the 380V contactor, the 380V motor and the 380V power according following circuit diagram 2, then you use the transmitter to control the AC 380V motor.

Setting different control modes:

We have set the receiver as Interlocking mode before delivery. If you want to use other control modes, do as following operation:

1) Setting Interlocking mode: When the receiver is in the status of LEARNING, press button 🔺 or 🔻 of the transmitter.

Mode Interlocking (working with transmitter CV-4-2): Press -> On; Press another button -> Off.

Press button **A** of the transmitter: The motor rotates in the forward direction.

Press button I of the transmitter: The motor stops.

- Press button $\mathbf{\nabla}$ of the transmitter: The motor rotates in the reversal direction.
- Press button I of the transmitter: The motor stops.

2) Setting Momentary mode: When the receiver is in the status of LEARNING, press any button of the transmitter. Mode Momentary (working with transmitter CV-4-2): Press and hold -> On; Release -> Off.

Press and hold button **A** of the transmitter: The motor rotates in the forward direction.

Release button \blacktriangle : The motor stops.

Press and hold button $\mathbf{\nabla}$ of the transmitter: The motor rotates in the reversal direction. Release button $\mathbf{\nabla}$: The motor stops.

Setting limit control modes:

1) When the receiver is in the status of LEARNING, if you press button 🔺 or the left button 🔳 of the transmitter, the limit function is normally open mode.

You can connect two normally open limit switches to limit control terminals according following circuit diagram 3, then you can use limit switches to stop the motor.

When motor rotates in forward direction, if you connect limit switch "UP", the motor will stop automatically.

When motor rotates in reversal direction, if you connect limit switch "Down", the motor will stop automatically.

2) When the receiver is in the status of LEARNING, if you press button **V** or the right button **I** of the transmitter, the limit function is normally closed mode.

You can connect two normally closed limit switches to limit control terminals according following circuit diagram, then you can use limit switches to stop the motor.

When motor rotates in forward direction, if you disconnect limit switch "UP", the motor will stop automatically.

When motor rotates in reversal direction, if you disconnect limit switch "Down", the motor will stop automatically.

Manual buttons:

Press manual button **A** of the receiver: The motor rotates in the forward direction.

Press manual button Image: file of the receiver: The motor stops.

Press manual button **V** of the receiver: The motor rotates in the reversal direction.

Press manual button 📕 of the receiver: The motor stops.

Installing external manual switches:

You can connect three external manual switches (normally open type) to manual control terminals according following circuit diagram 3, then you can use external manual switches to control the motor.

When press manual switch "UP": The motor rotates in the forward direction.

When press manual switch "Stop": The motor stops.

When press manual switch "Down": The motor rotates in the reversal direction.

When press manual switch "Stop": The motor stops.

How to pair the transmitter to the receiver:

1) Press the setting button of the receiver for 5~6 seconds until signal LED on the receiver flashes 3 times, then release the setting button. The receiver enters into status of LEARNING.

2) Press any button on transmitter within 5 seconds. If signal LED flashes 5 times, it means learning is successful.

3) The receiver can learn several transmitters with different codes.

Delete all transmitters:

We have learned the transmitter to the receiver. If you don't want the receiver to work with the transmitter, you can delete all codes of the transmitters which are stored in the receiver.

Operation: Pressing the setting buttons of the receiver for 12~15 seconds until the signal LED on the receiver flashes 5 times, then release the setting button. That means all stored codes have been deleted successfully.



Circuit Diagram 1





