

AC Servo Energy-saving Motor

Instruction Manual

Model: SCM9140C-D

Voltage: 160-250V

Output Power: 400 - 750W

Frequency: 50/60Hz

Speed: 1000-3800RPM

The great characteristic of **Digital Control AC Servo Energy-saving Motor** is used with 32 bits special motor control processor with advanced meticulous control algorithm. The current wave is used with 180 degree Sine-wave Drive. This motor was made with rare earth permanent magnetic materials, it is more reliable and greater output power, and fits ultra wide voltage range. It is the ideal replacement of Brushless DC Energy-saving Motor.

⊙ Rotation Speed Key

It is to be used for changing motor rotation speed. The motor rotation speed can be adjusted between 1000rpm and 3800rpm. Rotation speed can be adjusted circularly by pressing both of the Rotation Speed Key and Mode Key for around 6 seconds, till the LED showing rotation light-spot, then press Rotation Speed Key, every 200rpm can be adjusted by each press. While settings, LED is showing the first two figures as the rotation speed. For example, 3800rpm, LED is showing 38, showing duration is 5 seconds.

⊙ Operational Mode Key

It is to be used for choosing the motor operational mode. This motor system supports two kinds of operational mode: P1 and P2. P1 mode is applicable to make clothes, P2 mode is applicable to make shoes and luggage, ect.

⊙ Rotation Direction Key

Press this key for a little bit long time(Press time is more than 5 seconds), the motor rotation direction can be changed. After finishing setting, LED is showing clockwise direction or counterclockwise direction circling, it shows motor rotation direction.

⊙ Needle Positioning Setting

The default setting of this motor in factory is Up-Needle positioning. If the Needle Positioning needs to be adjusted to Down-Needle positioning, the setting steps are: First, press **Rotation Speed Key**, and press **Rotation Direction Key** at the same time, LED is showing "01", then press **Rotation Direction Key**, adjust it to "12", press **Rotation Speed Key** to confirm current setting, LED is showing "01", then press **Rotation Direction Key**, adjust it to "00", press **Rotation Speed Key** to confirm current setting. (If it needs to recover UP-Needle positioning, please repeat above setting steps, choose "01")

When the Needle is at the state of Down-Needle positioning, please stamp the front of pedal, the Needle will be upraised to Up-Needle positioning.

* Above operation keys will be effective ONLY under the state of motor stop running.

⊙ Error Code Table

During motor is working, if overload or overcurrent occurred or other faults, motor will stop running, and the LED panel will show error code. In this case, the motor should be power off, solving it as per the error code, till there is no signal showing on LED panel, then power it on again, then the motor will be in normal work condition.

Fault Description	Error Code
Over current alarm	E1
Motor HALL signal fault alarm	E2
Speed regulation plate error alarm	E3
Locked rotor alarm	E9
Overload alarm	EE