

CCM6DS-T 30A PWM DC Motor Speed Controller

1.Introduction:

CCM6DS-T is a DC12V-80V 30A 0%~100% PWM DC Motor Speed Controller with 30Amp Fuse. It can drive DC motor up to 30A with a CCM6DS-K control display panel. It is easy to use and can be directly connected to the motor and to adjust motor's speed.

2.Feature:

1>.0%~100% PWM Duty Cycle Adjust Speed: It adopts PWM duty cycle speed regulation technology which can achieve very smooth speed regulation with adjustable range is 0%~100% in output frequency 21KHz. It can also set the maximum/minimum speed limit value.

2>.Slow Start & Slow Stop: It has built-in slow start time and stop time to protect the motor and controller from stable changes. Avoid sudden acceleration or sudden stop, so as to ensure the service life of the motor. Users can adjust the time for 0~10s according to your own needs.

3>.Separated Driver and Control Panel. It has an independent key control panel, which makes setting parameters easier and has an LED display, so you can see the set parameters more clearly and can meet your needs more precisely. It can also meet the installation methods in different applications.

4>.Short Circuit Protection:There is a insulated plastic sheet between PCB and aluminum housing which can prevents the circuit from directly touching the housing and effectively prevents short circuit.

5>.30A High Current Output. It can drive up to 30A motor equipment with efficient built-in heat sink and cooling shell on driver and plastic shell for key control panel.

3.Parameter:

1>.Product Name:CCM6DS-T 12-80V 30A PWM DC Motor Speed Controller

2>.Work Voltage:DC 12V - 80V

3>.Drive Current:30A(Max)

4>.Control Power:12V/250W;24V/350W;48V/500W and so on;

5>.Duty cycle:0%~100%(Adjustable)

6>.Work Frequency:21KHz

7>.Work Temperature:-20℃~85℃

8>.Work Humidity:5%~85%RH

9>.CCM6DS-T Size:110*77*36mm

10>.CCM6DS-K Size:92*69*13mm

4.Set Parameter:

1>.Press 'MENU' button enter into set mode and switch parameter SET1~SET5.

2>.Press 'UP' and 'DOWN' buttons to change parameter value.Keep press can change value quickly.

3>.The first bit is mode and the remaining 3 bits is mode parameter value.

4>.E.g: display '2.010' means that the current display mode is SET2 and the parameter value is '010'.

5>.Press 'RUN/STOP' button to save parameter and exit set mode to start running.

6>.'SET1' Function: 000-100 and display as '1.xxx' which is used to set motor slow start time. Time from starting to 100% speed. Set time range is 0~10.0s and the default value is 1s. So 'xxx' is 000 to 100. Note: '090' means 9.0s.

7>.'SET2' Function: 000-100 and display as '2.xxx' which is used to set motor slow stop time. Time from press stop button to complete stop. Set time range is 0~10.0s and the default value is 1s. So 'xxx' is 000 to 100. Note: '090' means 9.0s.

8>.'SET3' Function: 000-080 and display as '3.xxx' which is used to set minimum speed value. Set range is 0%~80% and the default value is 0%. So 'xxx' is 000 to 80. Note: '070' means 70%. This value must be less than SET4.

9>.'SET4' Function: 000-100 and display as '4.xxx' which is used to set maximum speed value. Set range is 0%~100% and the default value is 100%. So 'xxx' is 000 to 100. Note: '070' means 70%. This value must be greater than SET3.

10>.'SET5' Function: 001, 002, 005, 010, 015, 020, 025 and display as '5.xxx' which is used to set speed regulation step size value. In normal display status, each time you press the 'UP' or 'DOWN' button, the speed changes 1%, 2%, 5%, 10%, 15%, 20%, 25%.

5.Use Steps:

1>.Select the matching power supply and DC motor.

2>.Connect DC motor at output terminal which has mark 'MOTOR +' and 'MOTOR -' as wiring diagram.

3>.Connect motor driver and button/display panel by 5Pin wire.

4>.Input work voltage at input terminal which has mark 'INPUT+' and 'INPUT-' as wiring diagram.

Note:The positive and negative poles of the power supply must be connected correctly.

5>.Set parameter and adjust motor speed.

6.Note:

- 1>.It can output voltage same to input voltage.So the input voltage must match the motor's work voltage.
- 2>.Please pay attention to the positive and negative poles of the power supply. It can't be connected reversely.
- 3>.It just can input DC power supply.

7.Application:

- 1>.Cooling equipment control
- 2>.Heating equipment control
- 3>.Irrigation system
- 4>.Lamp adjust brightness

8.Package:

- 1>.1pcs CCM6DS-T 12-80V 30A PWM DC Motor Speed Controller
- 2>.1pcs CCM6DS-K Button/Display Control Panel
- 3>.1pcs 20cm PH2.0-5Pin Wire



