

controller open (c) end, and open the blade. Similarly, P1. 1 output low, P1. 2 output is high, the relay KB action, its normally open contact is closed, B-side head 24V output voltage, the drive motor controller close (c) side, and close the leaves. When P1. 1, P1. 2 are low, A, B ends are not connected to 24VD power supplies, motor controllers aren't controlled by the SCM. When P1. 1, P1. 2 are high, A, B ends are connected to 24VD power supplies, motor controllers are controlled, but remain stationary, see next section circuit, in order to avoid malfunction, it should be avoided that P1. 1, P1. 2 are high there.

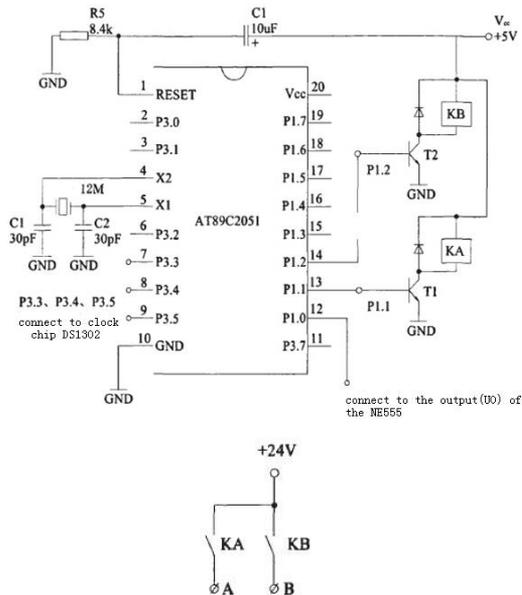


Figure 4. circuit diagram of the SCM controller AT89C2051

5. MOTOR CONTROLLER

Each motor controller is drive the inversion by their respective motor. The motor controller can accept the respective manual, remote switch control and the unified control of the microcontroller output signal which can be run separately for each motor and can be unified under the control of movement in the chip, shown in Figure 5.

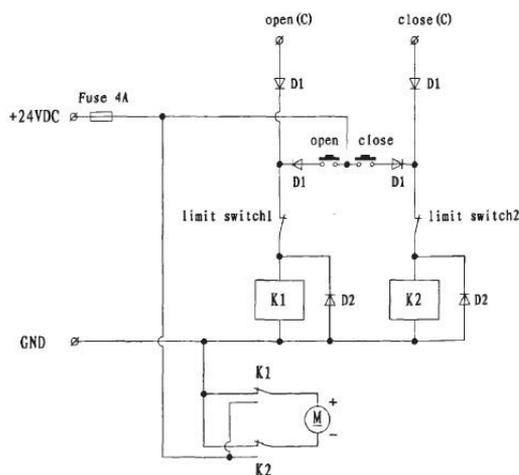


Figure 5. Circuit of Motor controller

ACKNOWLEDGMENT

The amount of building energy consumption is rising year by year in China, total energy consumption in the proportion of from the end of 1970 s vary 10% to 27. 8% in recent years. However, the biggest energy consumption of building is heating and air conditioning point, it is reported that our country in heating and air conditioning on all energy consumption of building the total energy consumption by 55%. Saving energy consumption is imperative. As an effective method of energy saving, construction sunshade will gradually applied in wide. The building combined with photovoltaic, especially it is by the intelligent control system, the design of shading and (pv) power will be further optimized to take the shading of summer and winter heating into account, it also tracks the photovoltaic devices to improve light of generating capacity and is a very worth research and extension of the emerging technology, so it has the very broad development prospects.

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