

英文说明书

NK63时控开关

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Figure 7

6.2.2.2 Press "M" + "P" to enter current date adjust status, press "<" to select the adjusted position, press ">" and "V" to plus and minus, adjust the display date of the product to current date, such as current March 15, 2012 shall be set to "03.15", see Figure 8.



Figure 8

6.2.3 Adjustment for daylight saving time
6.2.3.1 After completing the operation in 6.2.2.2, go on to press "M" + "P" keys to adjust the daylight saving time. When the daylight saving time mode need to be turned off, press "M" + "P" to directly enter the current clock status. The daylight saving time function is off by default, as shown in Figure 9.



Figure 9

6.2.3.2 If the daylight saving time function is turned on, press ">" "<" to select an operating mode of daylight saving time (European mode, American mode, and free mode in sequence). Please refer to Figure 10.

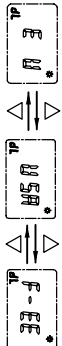


Figure 10

6.2.3.3 If selecting European or American mode, press "M" + "P" to directly enter the current clock status; if choosing free setting mode, press "M" + "P" to enter the setting status of free mode, as illustrated in Figure 11.



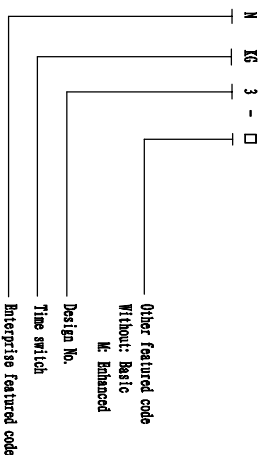
Figure 11

6.2.3.4 Setting for turning on daylight saving time: first press ">" "<" to choose the month in which daylight saving time will be turned on. After completion of month setting, press "M" + "P" keys and then ">" "<" to set up a Sunday when daylight saving time will be turned on. Following this, press "M" + "P" keys and ">" "<" again to select the specific time for activating daylight saving time.

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- Function and Scope
NK63 time switch (hereinafter referred to as "time switch") is mainly used as time control elements in the circuit with AC frequency of 50Hz (or 60Hz), rated control power voltage of 220V at most and DC current of 3A at most, such as being used to regulate control switch-on and off of street lamps, advertising light boxes and other equipments, the product may be used to adjust the switch-on and off time everyday according to the latitude.
The product complies with the requirements of Standard IEC 60947-5-1.
- Model and Its Meaning



- Normal Operating Condition and Installation Condition
- Ambient air humidity: -5°C~+40°C, and the average temperature is no more than +35°C in 24h.
- Altitude: no more than 2000m.
- Humidity: the relative air humidity of the installation site shall be no more than 50% when the maximum temperature is +40°C, while it can be higher under lower temperature. Special measures shall be taken for the condensation occasionally formed due to temperature change.
- Pollution level: 3.
- In the medium risk explosion hazard and no gas that is enough to corrode metal and destroy the installation and the place shall not have severe conductive dust.
- In the place where is provided with anti-snow and anti-rain equipment but not be full of water steam.
- In the place without significant shake, shock and vibration.
- Installation class: II.
- Transport and Storage Conditions: -25°C to +55°C.
- Power voltage change scope: 85%~110% rated operating voltage.
- Protection grade: IP20.
- Main Technical Parameters
- Rated control power voltage: 50Hz/60Hz AC220V.

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6.2.3.5 When the operation in 6.2.3.4 is finished, continue to press "M" + "P" keys to enter the setting for deactivating daylight saving time based on the steps in 6.2.3.4. After completion, press "M" + "P" to directly enter the current clock status.

6.2.4 Current time adjustment
Press button "M" for 3s to cancel the keyboard lockout, so that "0" may disappear, you can press "<" to select the adjusted position and press ">" and "V" to plus and minus, so as to adjust the display time to the current time, see Figure 12.



Figure 12

6.2.5 Timing parameters (switch-on/off time) setting
6.2.5.1 After finish operation in 6.2.4, press "M" to set the timing parameters, see Figure 13.



Figure 13

6.2.5.2 10W (first switch-on) time setting: press "<" respectively to set 10W time, and the corresponding position flashes, press ">" and "V" to plus and minus, the latitude adjustment function, after setting hour, press "<" to enter latitude and setting mode, by then, screen flashing, and press ">" and "V" to switch on/off the latitude adjustment function, after finishing this, press "M" to enter 10PF (first switch-off) time setting, see Figure 14.



Figure 14

6.2.5.3 10PF (first switch-off) time setting: set 10PF time according to steps specified in 6.2.5.2.

6.2.5.4 Continue to press "M" or ">" "<" "<" "<" the screen will display "00:00", "00:00", "00:00" on the left, set switch time and date mode of other groups by referring to the above steps. For redundant time period, please press "P" to remove the time of other groups, so that the liquid-crystal display will show "0:00:00", see Figure 15, and then, press "P" to recall.



Figure 15

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- Rated Insulation Voltage: AC415V.
- Conventional thermal current: 16A.
- Category of the control circuit: AC-15.
- Rated working current: AC-15 240V/3A 415V/1.9A.
- Rated working current: AC-15 240V/3A 415V/1.9A.
- Timing error: $\pm 24s$.
- Time control scope: 1min~24h.
- Mechanical life: >30,000 times.
- Electric endurance: >10,000 times.
- Installation method: Device installed, guide tracked.
- Anti-Interference tolerance sees Table 1.

Table 1 Anti-Interference Tolerance

Item	Test grade
Static discharge tolerance	4kV (discharge)
Indirect electromagnetic field tolerance	3kV/m (field intensity 10V/m)
Surge voltage tolerance	2kV (line to line to power wire 8kV)
Open circuit test voltage (UL950 to line)	Open circuit test voltage (UL950 to line)

- Outline, Installation Dimension and Wiring Method
- Outside dimension and installation dimension see Figure 1.

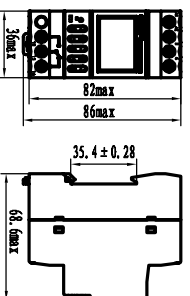


Figure 1 Outside dimensions and installation dimensions of NK63

- Wiring method
- Direct control method
Power of the controlled appliance is supplied in single-phase, of which the working current is no more than the rated value of this switch. Direct control method may be adopted, wiring method see Figure 2, for load with great current, please adopt AC contactor expansion control method.
- Single-phase expansion method

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- Power of the controlled appliance is supplied in single-phase, of which the working current exceeds the rated value of this switch. Please adopt AC contactor expansion control method, see Figure 3.
- Three-phase operating method
Power of the controlled appliance is supplied in three-phase, so external AC contactor is required.
- The coil voltage of the controlled contactor is AC 220V 50Hz, so its wiring method sees Figure 4.
- Mechanical life: >30,000 times.
- Electric endurance: >10,000 times.
- Installation method: Device installed, guide tracked.
- Anti-Interference tolerance sees Table 1.

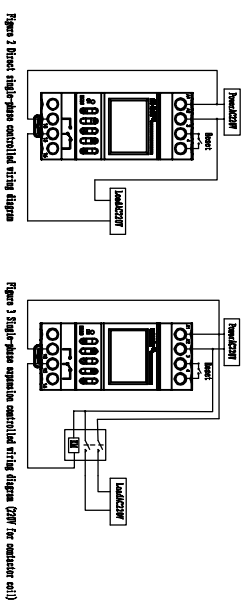


Figure 2 Single-phase expansion wiring diagram (220V for outdoor coil)

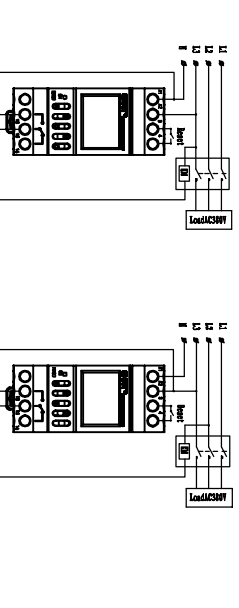


Figure 3 Three-phase expansion wiring diagram (220V for outdoor coil)

- Setting and Use
This product panel is set with five buttons, namely "M(mode)", "P(program)", "<" (left)", ">" (right)", and "V(adjust)", so it can adjust correspondingly date (D), latitude (L), hour (H) and minute (Min), and it can also set second (Sec) in clock status.
- Setting process for timing switch parameters (see Figure 6).
- Press button "M" for 3s to cancel the keyboard lockout, so that "0" may disappear.
- Current latitude and date adjustment
6.2.2.1 Press button "M" + "P" to enter latitude setting interface. Press "<" ">" and "V" to adjust latitude, for example, local latitude 30° N shall be adjusted to "30.30"; while local latitude 15° S shall be adjusted to "3.15", see Figure 7.

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Figure 16

6.3 After locking the switch, press "M" and "<" at the same time to switch manual/automatic status. Continuously press the combination, the screen will show "0PF", "AUTO OFF", "OFF" and "ON AUTO" successively, see Figure 17. When the circuit shall be on and off temporarily in the process of operation, the combination buttons can be used to adjust the switch to ON and OFF; if the time switch shall work automatically according to the set time, the combination button shall be used to adjust the switch to "ON AUTO" or "AUTO OFF", then the time switch may work as set time, so as to achieve automatic control, see Figure 17.

Figure 17 Manual/automatic time switch setting process

- Notes
- The switch coil can only be connected to AC 220V power supply, no other power supply shall be connected.
- When automatic control function cannot be achieved, please check whether the automatic status at the lower right corner of the screen starts.
- If the latitude function of some group of setting time is open, the set time may be automatically adjusted by changing the current latitude and date, so please check once more the set time after changing the latitude and date.
- If any problem were detected, short the 3, 4 terminal to reset the device, the programme needs to be reloaded.
- When the product life ends, please recycle the product or its spare parts; for the materials that cannot be recycled, please handle properly to protect our environment.

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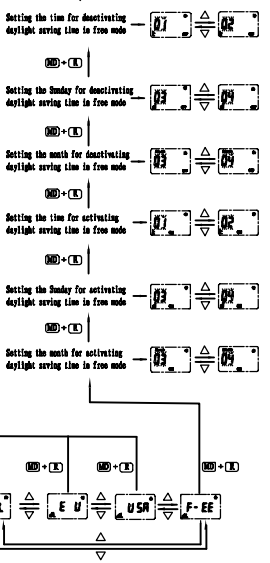


Figure 6 Setting for Time Switch Parameters

Note: Under any setting status, press "M" for 3 seconds to enter the current clock status. European mode: Daylight saving time begins at 1:00 on the last Sunday of March every year and ends at 1:00 on the last Sunday of October. American mode: Daylight saving time is from 2:00 on the second Sunday every March to 2:00 on the first Sunday of November.

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