Figure 10 LCD display (set free mode daylight saying time on) $\boxed{04:050 \atop 09:050} \triangle \left(10:050 \atop 09:050\right) \triangle \left(10:050 \atop 09:050\right) \triangle \left(10:050 \atop 09:050\right) \triangle \left(10:050 \atop 09:050\right) \triangle \left(10:050 \atop 09:09:09\right) \triangle \left(10:050 \atop 09:0$ Figure 11 LCD display (set free mode daylight saying time off)

Press " \(\nabla \)" key the clock character flashes press "OK" key to enter the clock setting state, press " > " key to select the bit to be adjusted, press " \ " key or "∇" key to operate and set the clock to the current time. Figure 12 shows. After the setting is completed, press "OK" to save, then press "OK" to exit.

(.... Figure 12 LCD display (set clock)

3.2.2.6 Timing settings

3.2.2.6.1 Press the "∇" key, the "!5° character flashes, and press the "OK" key to enter the timing setting state (1 ON, first turn on). Press the " > " key to select the bit to be adjusted, and press the " \(\Lambda \) key or " \(\nabla \) key to set the clock and timing latitude functions, as shown in Figure 13. The character " appears to indicate that the group of timing latitude functions is turned on. After the setting is completed press the "OK" key to save

Figure 13 LCD display (set the first group to power on)

3.2.2.6.2 Press the * \(\Lambda \) key to enter the timer setting state (1 OFF first off). The setting is the same as 3.2.2.6.1, as shown in Figure 14. After setting is completed,

3.2.2.6.3 Continue to press the "△" key to display (2 ON, 2 OFF ... 16 ON, 16 OFF) in sequence. Refer to the above steps to set whether the switch time and latitude function of the remaining groups need to be turned on. Press "OK" to save, then press "OK" to exit. For the extra time period, please press the "S" key to eliminate the remaining groups of time so that the LCD displays "--:--", and press the "S" key again to recover as shown in Figure 15.

Figure 14 LCD display (set the first group of power off)

| △ 00:00 | S | - 17.5 • | △ | 77.5 • | △ | 77.5 • | △ | 77.5 • | △ | 77.5 • | △ | 77.5 • | 6.5 • | 77.5 • | 6.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77.5 • | 77 Figure 15 LCD display (the remaining timing setting time is eliminated)

3.2.2.7 Switch mode setting

Press "

¬ " kev. "ON AUTO OFF" character flashes, press "OK" kev to enter switch mode setting state, press " > " key, switch mode character flashes, press "∧" key or "∇" key to set switch mode. As shown in Figure 16

Figure 16 LCD display (switch mode selection)

To enable the product to achieve automatic control, if the product needs to control the load on the switch mode should be set to "ON ALITO": if the product needs to control the load off the switch mode should be set to "ALITO OFF" So that the product can work automatically at the set time. After setting, press "OK" to save, then press "OK" to exit

After the above settings are completed, press and hold the "S" key for 3 seconds the product returns to the clock mode. Standby for 30s or press the "OK" key for 3s, the product locks automatically and " A " appears.

In any state, you can press the "OK" key and the ">" key simultaneously for 3s to reset

3.2.2.10 Switching mode switching

In the unlocked state, press the "OK" key and the " ∇ " key at the same time to quickly switch between manual / automatic state. Press this key combination continuously, and "OFF", "AUTO OFF", "ON", "ON AUTO", as shown in Figure 17.

In order to protect the environment, the product or product parts should be disposed of according to the industrial waste treatment process or he sent to the recycling station for assortment dismantling and recycling



QC PASS

NKG3 Time Switch IFC/FN 60947-5-1

(JDO Check 10)

Test date: Please see the packing

ZHEJIANG CHINT ELECTRICS CO., LTD.

Zheijang Chint Electrics Co., Ltd.

Add: No.1, CHINT Road, CHINT Industrial Zone North Baixiang. Yueging, Zheijang 325603.P.R.China

E-mail: global-sales@chint.com Website: http://en.chint.com



CHNT

Time Switch

User Instruction





(NO:2020.03)

CHNT

150N AUTO OFF

3 2 2 3 Latitude setup

3.2.2.4 Daylight saving time(DST) setting

March and ends at 1:00 on the last Sunday in October.

March and ends at 2:00 on the first Sunday in November. March and ends at 200 on the mass at 200 on the ma

NKG3 Time Switch

User Instruction

Standard: IEC/EN 60947-5-1

♠ Safety Warning

- 1 Only professional technicians are allowed for installation and maintenance
- 2 Installation in any damp, condensed-phase environment with inflammable and explosive gas is
- 3 When the product is being installed or maintained, the power must be switched off.
- 4 You are prohibited from touching the conductive part when the product is operating.
- [5] The product shall be stored, installed and used in accordance with the rated control power supply voltage and specified conditions indicated in the user instructions

Use Purpose

NKG3 time switch (hereinafter referred to as relay) is mainly used in automatic control circuits with frequency of AC 50Hz/60Hz, rated control power supply voltage up to 240V and rated operating current up to 3A for timed connection and disconnection of various equipment such as road lamps and

Kev Technical Parameters

Table 1 Ambient Conditions			
Normal use conditions	Ambient temp.: -5°C~+40°C; average value within 24h not exceeding +35°C; altitude not exceeding 2,000m.		
Atmospheric conditions	RH shall not exceed 50% when maximum temperature is +40°C; in case of lower temperature, higher RH is allowed. Measures should be taken against occasional condensation due to temperature change.		
Installation category	п		
Transport and storage conditions	-25°C~+55°C		

Table 2 Product Specifications and Main Technical Parameters

Model	NKG3	
Installation method	Guide rail type	
Operating method	Manual on, manual off, automatic on/off, latitude function; daylight saving time function	
Number of programmable groups	16 groups	
Time control range	1min~24h	
Timing error	±2s/d	
Contact number	1 group change-over	

Installation

3.1 Outline and installation dimensions: see Figure 1, unit: mm.

Table 3 Technical parameters of main circuit and auxiliary circuit

Figure 17 LCD display (manual switching)

time to the product action, turn on the load, and the red indicator light is on.

4.1 The terminal of the timer switch should be tightened on a regular basis.

replacement, mount the battery cover and connect the power supply.

safety measures such as secondary circuit protection should be taken.

ngram error

atituda DCT

or date setup

imina setup

The automatic

function is not

4.2 Power should be cut off during regular maintenance to ensure personal safety. Please pay attention to the electrode when replacing the battery. After battery

4.3 Avoid squeezing the product; the product should be stored in a well-

4.4 For equipment that may cause material economic losses or personal safety.

Table 5 Analysis and Troubleshooting of Faults

torminals

2 2 2 A in this order

ccording to 3 2 2 6

according to 3227

Troubleshooting method

Press the "OK" key and " > " key at the sam

he product runs outside the set time range.

atitude DST or date setup error Check the

function settings in accordance with 3.2.2.2

Check if the timing setup is removed

Check if the on/off mode is selected

time for 3s or reset by shorting the 3 and 4

Wire correctly according to the wiring diagram, turn on the power, set the

3 2 2.11 Wiring use

ventilated place

The system is

dead or shows

ahnormality

The product

runs outside the

Product cannot

achieve automatic

set time range.

Maintenance

Symptoms Cause analysis

No.	Product specifications	NK	G3
1	Rated control supply voltage Us (V), frequency (Hz)	AC220V, AC230V, AC240V, 50Hz/60Hz	
2	Allowable fluctuation range of rated control power supply voltage	85%Us~	110%Us
3	Agreed free air heating current Ith (A)	1	6
4	Rated duty system	Uninterrupted or 8h	
5	Rated operating voltage Ue(V)	AC240V	AC415V
6	Utilization category and rated operating	AC-	-15
	current Ie(A)	3A	1.9A
7	Rated insulation voltage Ui (V)	41	5V
8	Rated impulse withstand voltage Uimp (kV)	4	1
9	Enclosure protection class (if applicable)	IP:	20
10	Pollution class	Clas	ss 3
11	Type and maximum value of short circuit protection	RT36-0	00/16A
12	Size of terminal tightening screw (or nut)	М	13
13	Torque of terminal tightening screw (N·m)	0.	.5
14	Electrical life / mechanical life (10,000 times)	10/:	100

Table 4 Immunity to Interference

No.	Test type	Test level
1	Electrostatic discharge immunity test	8kV (air discharge)
2	RF electromagnetic field immunity test	10V/m
3	Electrical fast transient/burst immunity test	2kV/5kHz on the power supply side
4	Surge immunity test	1kV (wire to wire)

3.2 Installation, commissioning and operation

3.2.1 Wiring method

3.2.1.1 Single phase direct control

Direct control method is applicable if the controlled load uses single phase power supply and its operating current is not higher than the rated value of this time switch, see Figure 2 for wiring method; for load with big inrush starting current, please expand the capacity of AC contactor. 3.2.1.2 Single phase expanded capacity control

If the controlled load uses single phase power supply and its operating current is higher than the rated value of this time switch, please expand the capacity of AC contactor (coil voltage AC220V), see Figure 3 for wiring method. 3.2.1.3 3-phase control

If the controlled load uses 3-phase power supply, an external AC contactor is

a) Control contactor coil voltage: AC220V 50Hz/60Hz, see Figure 4 for wiring method:

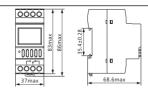


Figure 1 Outline and installation dimensions

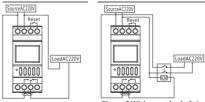
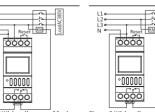


Figure 2 Wiring method of single phase control

Figure 3 Wiring method of single phase expanded capacity control (contactor coil AC220V)

b) Control contactor coil voltage: AC380V 50Hz/60Hz, see Figure 5 for wiring



control (contactor coil AC220V)

Figure 4 Wiring diagram of 3-phase Figure 5 Wiring diagram of 3-phase control (contactor coil AC380V)

When users read this manual, please recognize the keys on the product panel. The front panel of this product is equipped with five keys: "OK", "S (Set)", * ▷ (Right)*, * △ (+)*, and * ▽ (-)*. You need to unlock the product before setting up the product

Press and hold the "OK" key for 3s to cancel the keyboard lock function, and * 🗀 * is blanked, as shown in Figure 6.

08:00nn

Figure 6 LCD display (after unlocking settings)

Press and hold the "S" key for 3s, the product enters the setting mode, and the date characters at the top of the display flash. Press the "OK" key to enter the

Press the " ▷ " key to select the bit to be adjusted. Press the " △ " key or " \to " key to set the current date, as shown in Figure 7. After the setting is completed, press "OK" to save, then press "OK" to exit.

completed, press "OK" to save. Press the " \(\nabla \) " key to enter the daylight saving time (OFF) setting state, which is set in the same manner as in 3.2.2.4.2, and it is set to turn off the month,

 $\begin{array}{c|c} \hline 180801000 & \hline \\ \hline 108:0000 & \hline \end{array} \\ 18:0801 & \hline \\ \end{array} \\ \begin{array}{c|c} \hline \\ 18:0801 & \hline \\ \end{array} \\ \begin{array}{c|c} \hline \\ 18:0801 & \hline \\ \end{array} \\ \begin{array}{c|c} \hline \\ 19:0801 & \hline \\ \end{array}$

Figure 7 LCD display (set week)

the latitude setting state, press the " > " key to select the position to be adjusted, press the " \(\Delta \) " key or " \(\nabla \) " key to operate and set to the current latitude. As

shown in Figure 8. " 5 " Means south latitude, and " [] " means north latitude.

After the setting is completed, press "OK" to save, then press "OK" to exit.

Figure 8 LCD display (set clock)

3.2.2.4.1 Press the " ♥ " key, the character " # " flashes, press the "OK" key to enter the daylight saving time setting state, press the " > " key, the summer time

mode character flashes, and then press the " Δ " key or " ∇ " key to operate,

"F! (Europe)", "!! SR (USA)", and "F - FF (Free)" modes, as shown in Figure 9.

European mode: Daylight saving time starts from 1:00 on the last Sunday in

US mode: Daylight saving time starts from 2:00 on the second Sunday in

Figure 9 LCD display (set daylight saving time) 3.2.2.4.2 Set " F - FF (Free)" mode, press "OK" key to enter the daylight saving

time ON setting state, press " ▷ " key, select the bit to be adjusted, press " △ "

key or "

" key to operate, and set to turn on Month, the first Sunday of the

opening month, and at some time, as shown in Figure 10. After the setting is

Select the required daylight saving time mode, including " DFF (Off)"

After the selection is completed, press "OK" to save, then press "OK" to exit,

Press the " ∇ " key, the character " 🖨 " flashes, press the "OK" key to enter