Table 5 Working modes

		-	
No.	Working mode	Function	
1	Mo Tu We Th Fr Sa Su	Same working hours per day	
2	Mo Tu We Th Fr Sa	Same working hours from Monday to Saturday	
3	Mo Tu We Th Fr	Same working hours from Monday to Friday	
4	SA SU	Same working hours on Saturday and Sunday	
5	Mo Tu We	Same working hours on Monday, Tuesday and Wednesda	
6	TH FR SA	Same working hours on Thursday, Friday and Saturda	
7	Mo We Fr	D WE FR Same working hours on Monday, Wednesday and Frid	
8	TU TH SA	Same working hours on Tuesday, Thursday and Saturda	
9	Mo/Tu/We/Th/Fr/Sa/Su	Daily working hours vary	
Note	1: All operating modes only to the set procedure.	y need to be set once to ensure operation accordin	

Note 2: Mo TU WE TH FR SA SU are the abbreviations of Monday.Tuesday. Modporday Thursday Saturday Sunday



3.2.2.4.2 Press the " \wedge " key to enter the timer setting state (1 OFF, the first time off). The setting is the same as 3,2,2,4,1, as shown in Figure 10. After setting is completed, press "OK" to save.



3.2.2.4.3 Continue to press the " Λ " key to display in sequence (2 ON 2 OFE 16 ON 16 OFE) Refer to the above steps to set the switch time and week mode for the remaining groups. Save, then press "OK" to exit. For the extra time period, please press the "S" key to eliminate the remaining groups of time and make the LCD display "--: --: __" , as shown in Figure 11. Press the "S" key again to resume.

A 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 forbidden

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.

Mo Tu WE TH FR SA SU 10FF 20N 20N 150FF Figure 11 LCD display (the remaining timing setting time is eliminated) 3 2 2 5 Switch mode setting

Press " V" key, "ON AUTO OFF" character flashes, press "OK" key to enter switch mode setting state, press " \triangleright " key, switch mode character flashes, press " \wedge " key or " ∇ " key to set switch mode. As shown in Figure 12



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 AUTO" : if the product needs to control the load off the switch mode should be set to "AUTO OFF" So that the product can work automatically at the set time After setting, press "OK" to save, then press "OK" to exit. 3 2 2 6 Lock settings

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 " [] appears. 3227 Recet

In any state, you can press the "OK" key and the " D " key simultaneously for 3s to reset. 3 2 2 8 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 13 3.2.2.9 Wiring use

Connect the wiring correctly according to the wiring diagram, turn on the power, set the time, the product will move, and the red indicator light will be on 07

NKG3-M time switch (hereinafter referred to as time switch) 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

Table 1 Ambient Conditions

Table 2 Product Specifications and Main Technical Parameters

16 groups

1s~168h

01

±2s/d

Guide rail type

1 group change-over

Ambient temp.: -5°C~+40°C; average value within 24h not

RH shall not exceed 50% when maximum temperature is +40°C

n case of lower temperature, higher RH is allowed. Measures

NKG3-M

Manual on manual off automatic on/off

should be taken against occasional condensation due to

eeding +35°C; altitude not exceeding 2,000m.

Use Purpose

Normal use

nditions

Atmospheric

onditions

category

Transport and

storage condition

installation method

Operating method

Time control range

Timing error

Contact number

Model

Number of programmable groups

road lamps and advertising light boxes.

2 Key Technical Parameters

temperature change.

-25°C~+55°C

ןר:28, <u>™+</u> ור:28, ג ON ا2:28 المعالية Figure 13 LCD display (manual switching)

A Maintenance

4.1 The terminal of the timer switch should be tightened on a regular basis. 4.2 Power should be cut off during regular maintenance to ensure personal safety. Please nay attention to the electrode when replacing the battery After battery replacement mount the battery cover and connect the power

4.3 Avoid squeezing the product: the product should be stored in a wellventilated place

44 For equipment that may cause material economic losses or personal safety safety measures such as secondary circuit protection should be taken

Table 6 Fault Analysis and Troubleshooting

Symptoms	Cause analysis	Troubleshooting method			
Show abnormal or freeze	Product program disorder	Press the "OK" key and " D" key at the same time for 3s or reset by shorting terminals 3 and 4.			
Product works at non-set times	Timing setting error	Check whether the timing setting is set according to 3.2.2.4.3.			
Product cannot achieve automatic control	Automatic function is not turned on	Check if the automatic function is turned on at the bottom right of the product display.			

▲ Environmental Protection

In order to protect the environment, the product or product parts should be disposed of according to the industrial waste treatment process.

Table 3 Technical parameters of main circuit and auxiliary circuit

	B 1 1 10 11		
No.	Product specifications NKG3-M		i3-M
1	Rated control supply voltage Us (V), frequency (Hz)	AC220V, A AC240V, 5	AC230V, i0Hz/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 Uninterrupte		pted or 8h
5	Rated operating voltage Ue(V)	AC240V	AC415V
~	Utilization category and rated operating	AC-15	
6	current Ie(A)	3A	1.9A
7	Rated insulation voltage Ui (V)	415V	
8	Rated impulse withstand voltage Uimp (kV)	4	
9	Enclosure protection class (if applicable) IP20		20
10	Pollution class	Class 3	
11	Type and maximum value of short circuit protection	RT36-00/16A	
12	Size of terminal tightening screw (or nut) M3		13
13	Torque of terminal tightening screw (N·m)	tening screw (N·m) 0.5	
14	Electrical life / mechanical life (10,000 times)	10/100	

Table 4 Immunity to Interference

	•	
۱o.	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 Installation

3.1 Outline and installation dimensions: see Figure 1, unit: mm. 02



CHNT

QC PASS

NKG3-M

Time Switch

IEC/EN 60947-5-1

(JDO Check 10)

Test date: Please see the packing

ZHEJIANG CHINT ELECTRICS CO., LTD.

CHNT

NKG3-M Time Switch User Instruction

3 2 2 1 Unlock settings

Reset

0000

°00000

0000

SourceAC220V

and " 🗂 " is blanked, as shown in Figure 6.

CHNT

NKG3-M Time Switch

User Instruction

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

Standard: IEC/EN 60947-5-1



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 required.

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

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

3.2.2 Settings and Usage

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)", " \triangleright (Right)", " \land (+)", and " \bigtriangledown (-)". 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.

0000 Figure 3 Wiring method of single Figure 2 Wiring method phase expanded capacity control



04

and the week character above the display flashes. Press the "OK" key to enter the week setting state, press the " D * key, the day of the week character flashes, press the " Δ " key or " ∇ " key to set the current week, as shown in Figure 7. After the setting is completed, press "OK" to save, then press "OK" to exit.
Image: Sign of the second

3.2.2.3 Clock settings

3.2.2.2 Week setting

Press the " ∇ " key, the clock character flashes, press the "OK" key to enter the clock setting state, press the " \triangleright " key to select the bit to be adjusted, press the " $\check{\Delta}$ " key or " ∇ " key to operate and set the clock to the current time, such as Figure 8 shows. After the setting is completed, press "OK" to save, then press "OK" to exit.

08:0000

AUTO OFF Figure 6 LCD display (after unlocking settings)

Press and hold the "S" key for 3s, the product enters the setting mode,



3.2.2.4 Timing settings 3.2.2.4.1 Press the "V" key, the "GOFF" character flashes, and press the "OK" key to enter the timing setting state (1 ON, first turn on). Press the " \triangleright " key to select the bit to be adjusted, and press the " \triangle " key or " ∇ " key to set the clock and week work mode (see Table 5), as shown in Figure 9. After the setting is completed, press "OK" to save.

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