



NKG3 Time Switch

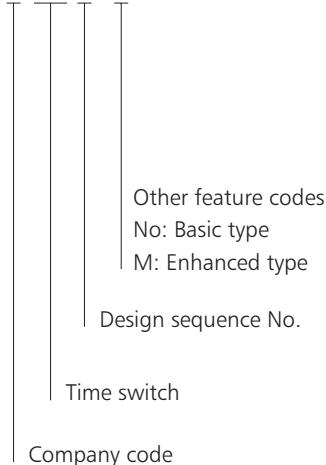
1. General

NKG3 time switch (hereinafter referred to as time switch) is used in automatic control circuits with a frequency of AC 50Hz(or 60Hz), a rated control supply voltage of up to 220V and a rated operational current of 3A to provide timed on-off control for street lamps, advertising lamps and similar equipment.



2. Type designation

N K G 3 - □



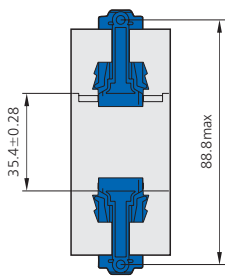
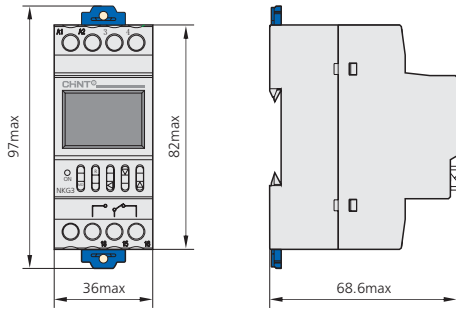
3. Technical data

Working voltage	85%~110% rated voltage AC50Hz AC220V
Working mode	Manual switch and automatic switch; switching time can be adjusted automatically by latitude Daylight saving time function (optional)
Programmable quantity	8-on 8-off
Time control range	1min~ 24h
Timing error	≤2s/day
Output mode	Group I conversion contact
Contact capacity	Ue/Ie:AC-15 220V/3A ; Ith: 16A
Electrical life	1×10 ⁵
Mechanical life	3×10 ⁵
Ambient temperature	-5°C~40°C
Power consumption	≤4.5VA
Installation method	Device type, guide rail type

Item	Severity level
Electrostatic discharge immunity	±8×(1±10%)kV (air discharge)
Radiated electromagnetic field immunity	Test electric field strength: 10×(1±10%)V/m
Fast transient immunity	For power line:2×(1±10%)kVduration:1min
Surge (impact) immunity	For power line:2×(1±10%)kV
RF conduction immunity	Open circuit test voltage: 10V,frequencyscope:150kHz~80MHz
Voltage sage immunity	Sag 30% in half a cycle,sag 60% in 5 cycles and 50 cycles,sag 100% in 250 cycles

4. Overall and mounting dimensions (mm)

4.1 Profile and installation dimension

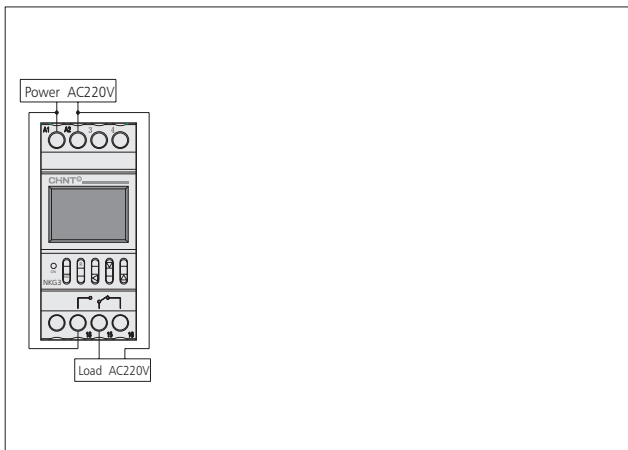


4.2 Connection mode

4.2.1 Direct control mode

If the electrical apparatus under control is single-phase supplied and has an operational current not greater than the rated value of the switch, direct control mode can be used, as shown in Figure 1. For lamp loads with a large starting impulse current, AC contactor expansion control mode should be used.

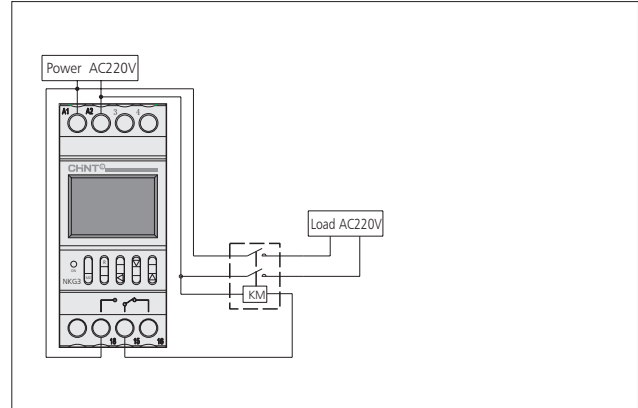
Figure 1 Connection diagram of single-phase direct control



4.2.2 Single expansion mode

If the electrical apparatus under control is single-phase supplied and has an operational current greater than the rated value of the switch, AC contactor expansion control mode should be used, as shown in Figure 2.

Figure 2 Connection diagram of single-phase expansion control (contactor coil: 220V)

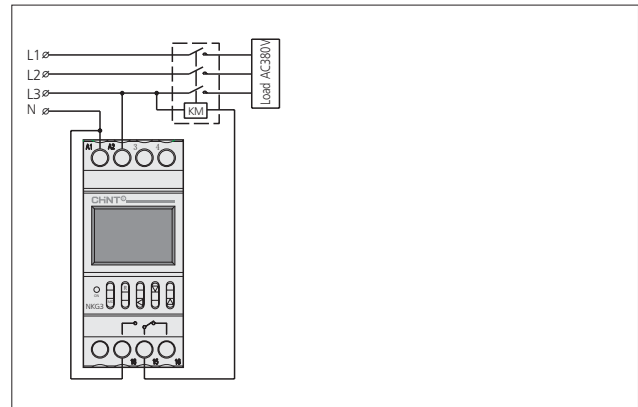


4.2.3 Three-phase operating mode

If the electrical apparatus under control is three-phase supplied, an external AC contactor is required.

a. If the coil voltage of the control contactor is AC220V 50Hz, the connection mode shown in Figure 4 should be used.

Figure 4 Connection diagram of three-phase control (contactor coil: 220V)



b. If the coil voltage of the control contactor is AC380V 50Hz, the connection mode shown in Figure 5 should be used.

Figure 5 Connection diagram of three-phase control (contactor coil: 380V)

