

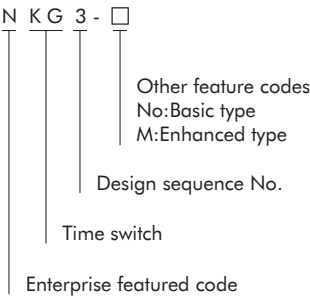


# NKG3-M Time Switch

## 1. General

NKG3-M 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 road lamps and advertising light boxes. Standards:IEC 60947-5-1.

## 2. Type designation

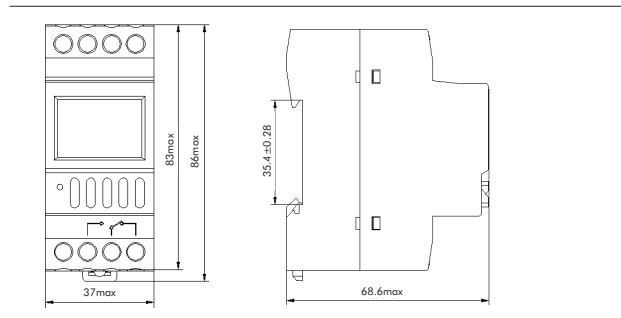


## 3. Technical data

| Rated control supply voltage                                      | AC220V, AC230V, AC240V, 50Hz/60Hz         |
|---|---|
| Allowable fluctuation range of rated control power supply voltage | 85%Us~110%Us                              |
| Operating method  | Manual on, manual off, automatic on/off   |
| Number of programmable groups                                     | 16 groups                                 |
| Time control range  | 1s~168h                                   |
| Timing error  | ±2s/d                                     |
| Contact number  | 1 group change-over                       |
| Contact capacity  | Ue/Ie: AC-15 240V/3A, 415V/1.9A; Ith: 16A |
| Electrical life / mechanical life (10,000 times)                  | 10/100                                    |
| Ambient temp  | -5℃ ~+40℃                                 |
| Installation method   | Guide rail type                           |

## 4. The Drawing

### 4.1 overall and mounting dimension

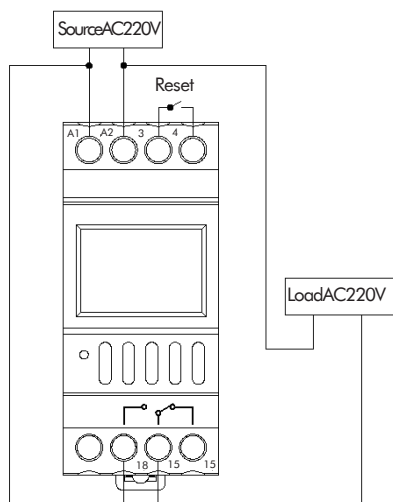


### 4.2 Connection mode

#### 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.

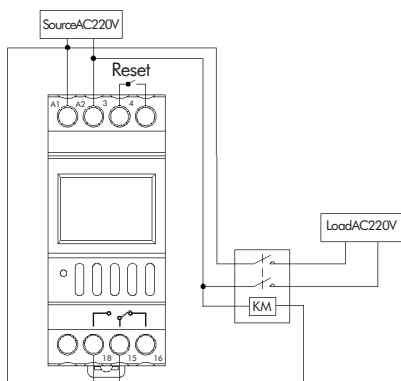
Figure 1 Connection diagram of single-phase direct control



#### 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)

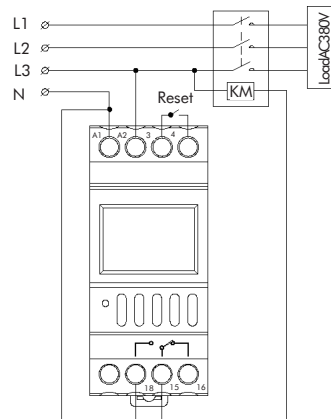


#### 4.2.3 Three-phase operating mode

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 3 should be used.

Figure 3 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 4 should be used.

Figure 4 Connection diagram of three-phase control (contactor coil: 380V)

