

15-18	
Figure 18 O	peration time
sequence chart	of type Di delay

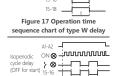


Figure 15 Operation time

, ____

1 × +





Figure 20 Operation time sequence chart of type B delay

Notes: The time scale on the relay enclosure is only for reference, it does not indicate the actual delay time of the relay, please check with delay value during operation; turning the knob during the delay process will affect the delay time, please complete the delay time setup before connecting power; please wait for at least 1s before re-applying voltage after disconnecting power, otherwise the reset can be unreliable or the delay can be inaccurate.

4 Maintenance

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

4.2 Avoid squeezing the product; the product should be stored in a wellventilated place.

Table 5 Fault Analysis and Troubleshooting

Symptoms	Cause analysis	Troubleshooting method	
The power indicator does not light up after the relay is powered-on.	The power supply pin is not connected or the connection is not correct or the connection is disconnected; power is not connected or the control power supply voltage is not consistent with rated control power supply voltage.	Select power supply voltage that is consistent with product rated control power supply voltage and conduct wiring properly according to product instruction.	
Power is on, but the relay cannot function normally.	The relay control wiring is not correct or disconnected; the preset delay value is not correct; the control power supply voltage is outside the fluctuation range.	Select power supply voltage that is consistent with product rated control power supply voltage and conduct wiring properly according to product instruction.	

5 A Environmental Protection

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



NJS5 Series Time Delay Relay IEC/EN 60947-5-1

(JDQ Check 10)

Test date: Please see the packing

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CHNT

NJS5 Series

Time Delay Relay

User Instruction

CHNT

NJS5 Series Time Delay Relay

User Instruction

Standard: IEC/EN 60947-5-1

Figure 7

Wiring method of NJS5-B

Figure 9

Wiring method of NJS5-M2

A1-A2

ON &

(NO:2020.11)

- 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.

1 Use Purpose

NJS5 series time delay relay (hereinafter referred to as relay) is mainly used as time control component in the control circuit with AC frequency of 50Hz/60Hz, rated control power supply voltage up to 400V and DC rated control power supply voltage up to 24V for connecting and disconnecting the circuit at preset time.

2 Key Technical Parameters

Table 1 Ambient Conditions

Normal use conditions	Ambient temp.: $-5^{\circ}C \sim +40^{\circ}C$; average value within 24h not exceeding $+35^{\circ}C$; 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	-25°C~+55°C

Table 2 Best door Considerations and Main Trabated Bessesses

Table 2 Product Specifications and Main Technical Parameters						
Model	NJS5-A	NJS5-A NJS5-B NJS5-Y		NJS5-M1	NJS5-M2	
Operation method	Power-on delay	Interval delay	Star/delta start delay	Power-on delay (multi-stage)	Multi-delay mode (multi-stage)	
Number of contacts	Delay 1 change-over sets		Delayed 2 groups NO	Delay 1 change-over sets		
Installation method	Equipment type,Rail mounting					
Setting error	Relative setting error≤10%					
Reset time	≤1s					

Model	NJS5-A	NJS5-B	NJS5-Y	NJS5-M1	NJS5-M2
Delay range	0 0 1	0.5s~5s 1s~10s 3s~30s 6s~60s .2min~2mi .3min~3mi .5min~5mi min~10mi min~20mi	n n n	0.1s~1s 1s~10s 0.1min~1min 1min~10min 0.1h~1h 1h~10h 0.1d~1d 1d~10d (multi-stage)	0.1s~1s 1s~10s 10s~100s 1min~10min 10min~100min 1h~10h 10h~100h (multi-stage)

No.	Product model	NJS5-A	NJS5-B	NJS5-Y	NJS5-M1	NJS5-M2
1	Rated control power supply voltage Us(V), frequency (Hz)	AC220V, AC380V, 50Hz/60Hz		AC380V, 50Hz/ 60Hz	AC110V, AC220V, AC230V, AC380V, AC400V,	AC110V, AC220V, AC230V, AC240V, AC380V, AC400V, 50Hz/60Hz, DC24V
2	Allowable fluctuation range of rated control power supply voltage		85%Us~:		Js~110%Us	
3	Agreed free air heating current Ith (A)			5		
4	Rated operating voltage Ue(V)	AC240V		AC415V	DC220V	
5	Utilization category and rated	AC	-15	AC-15	DC	-13
Э	operating current Ie(A)	0.7	5A	0.47A	0.2	!7A
6	Rated insulation voltage Ui(V)	415V				
7	Rated impulse withstand voltage Uimp(kV)	4				
8	Enclosure protection class (if applicable)	IP20		IP20		
9	Pollution class	Class 3				

Table 2 (continued)

el	NJS5-A	NJS5-B	NJS5-Y	NJS5-M1	NJS5-M2	No.	Product model
		0.5s~5s 1s~10s		0.1s~1s 1s~10s	0.1s~1s 1s~10s	10	Type and maximum value of sho circuit protection
nge	0	3s~30s 6s~60s 2min~2mi	n	0.1min~1min 1min~10min 0.1h~1h	10s~100s 1min~10min	11	Size of terminal tightening screw (or nut)
	0	.3min~3mi .5min~5mi	n	1h~10h 0.1d~1d	10min~100min 1h~10h 10h~100h	12	Torque of terminal tightening screw (N·m)
		min~10mi min~20mi		1d~10d (multi-stage)	(multi-stage)	13	Electrical life/mechanical life (10000 times)

Table 3 Main Circuit and Auxiliary Circuit Technical Parameters

Table 3 (continued)

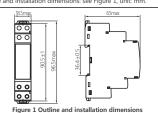
о.	Product model	NJS5-A	NJS5-B	NJS5-Y	NJS5-M1	NJS5-M2
0	Type and maximum value of short circuit protection	RT36-00/6A				
1	Size of terminal tightening screw (or nut)	M3				
2	Torque of terminal tightening screw (N·m)	0.5				
3	Electrical life/mechanical life (10000 times)	3/100 10/100			100	

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 Installation

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



3.2 Panel drawing: see Figure 2~ Figure 5; wiring diagram: see Figure 6~ Figure 9; operation time sequence chart: see Figure 10~ Figure 20.

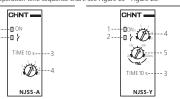


Figure 2 NJS5-A/B panel drawing Figure 3 NJS5-Y panel drawing

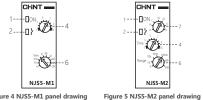


Figure 4 NJS5-M1 panel drawing

- 1: Power indicator (red LED) 2: Operating indicator (green LED)
- 3: Delay range
- 4: Delay time t adjustment
- 5: Star-delta conversion time t ' adjustment (20ms~300ms)
- 6: Delay range and ON / OFF setup
- 7: Delay function adjustment (NJS5-M2 delay type: A, H, C, W, Di, D, B , see Figure 14~ Figure 20 for details)

Figure 6 Wiring method of NJS5-A/NJS5-M1



Figure 8



Figure 10 Operation time sequence chart of NJS5-A



Figure 12 Operation time sequence chart of NJS5-Y

