



NGZP 72 - S

ON-delay multi-range time relay

- Multi-voltage for AC/DC 24 to 240 V
- 1 function, ON-delay
- Setting range from 0.1 s to 300 h divided into 16 switchable time ranges
- Remote potentiometer connection
- 1 instantaneous changeover contact and 1 timed changeover contact

wheel.

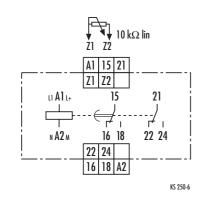
• 2 LEDs for function display

Time ranges

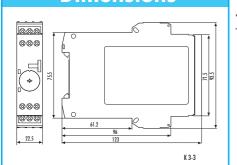
Setting range from 0.1 s to 300 h divided

info:					
<u><</u> 0.1	to	1 s	1.5	to	30 min
0.15	to	3 s	3	to	60 min
0.5	to	10 s	5	to	100 min
1.5	to	30 s	0.15	to	3 h
5	to	100 s	0.5	to	10 h
15	to	300 s	1.5	to	30 h
0.5	to	10 min	5	to	100 h
50	to	1000 s	15	to	300 h

Connection diagram



Dimensions



Ordering designation

NGZP 72 - S

Price code: 52.1

Remote potentiometer FP 10 k

Accessories

Price code: 98.1

Fund	ctions
Function code 11-ON = ON-	
tA = Operating time t_1 = Break time, must be > recovery time 1 t_2 = Break time, must be > recovery time 2	LED green Energizing quantity FD 250-4
	Control signal for energizing quantity Settable time Fixed time Settable cycletime
LED green excitation	5-fold function
	Time not running Energizing quantity ON
	Time running Delayed contact in operated condition
	Time running Delayed contact in normal condition
	Time running Delayed contact in normal or operated condition
	Time not running Energizing quantity OFF

Note

Features

The time range is set with the RANGE selector switch and displayed in the window next to it. The required delay time is set with a setting

Connecting a remote potentiometer allows you to set parameters from further away. When a remote potentiometer is used, set the time setting wheel to the right-hand stop above the largest value. Operation without remote potentiometer does not require a jumper on the device.

LEDs show the state of the excitation input and the position of the contacts. You can monitor

the countdown on a flashing LED.

Setting the time delay

The device is designed for multi-voltage. Connect phase L1 or L + to terminal A1 and neutral N or M to terminal A2.

You can change the delay time during operation. The change is effective immediately.

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	al data
Device type	NGZP 72 - S
Product norm (Time relays)	EN 61812-1:1999-08
Relay function according to IEC 60050	445-01-02 + 445-01-05
Function diagram	FD 250 - 4
Function display	2 LEDs green
Ambient operating temperature range	- 25 to + 60 °C
Input circuit	
Rated voltage A1 - A2	AC/DC 24 to 240 V
Rated power AC	3.5 VA/1.7 W
Rated power DC	1.6 W
Rated voltage limits	70 to 110 %
Rated frequency f _n	50 to 60 Hz ± 5 %
Release value of input voltage	≥ AC/DC 10 V; permissible line
(line capacitance approx. 150 pF/m)	capacitance 0.2 μF
Parallel load permitted	A1-A2 yes
Internal one-way rectifier	A1 - A2 no
Time circuit	
Time setting / number of time ranges	analog (internal/external)/16
Setting ranges for time delay	from ≤ 0.1 s to 300 h divided into:
	≤ 0.1 to 1 s 1.5 to 30 m
	0.15 to 3 s 3 to 60 m 0.5 to 10 s 5 to 100 m
	1.5 to 30 s 0.15 to 3 h
	5 to 100 c 0.5 to 10 k
	5 to 100 s 0.5 to 10 h 15 to 300 s 1.5 to 30 h
	0.5 to 10 min 5 to 100 h
	50 to 1000 s 15 to 300 h
Recovery time 1/2	$\leq 50/\leq 50$ ms
Minimum ON time 1/2	- / - ms
Setting tolerance	$\leq \pm 5 \%$
Repeatability (to set value)	$\leq \pm 0.01 \ \% + \pm 10 \ ms$
Influence of temperature (within range)	≤±0.002 %
Influence of voltage (within range)	≤±0.002 %
Output circuit	
	1 instantaneous changeover contact an
Contact equipment	1 timed changeover contact
Contact material	AgNi 90/10
Rated operating voltage	AC/DC 24 to 240 V
Rated value for limiting continuous current Ith	5 A
Minimum contact load	\geq AC/DC 5 V/ \geq 10 mA
Utilization category according to	AC-15 U _e AC 230 V, I _e 3 A
IEC 60947 - 5 - 1	DC-13 U _e DC 24 V, I _e 2 A
Permissible switching frequency	≤ 3600 switching cycles/h
Mechanical service life	30 x 10 ⁶ switching cycles
Electrical service life	
20/2 A, AC 250 V, $\cos \varphi = 0.3$	0.12 x 10 ⁶ switching cycles AC–15
Operate time / release time for excitation A1 - A2	40 ms
Other data	
Clearance/creepage distances to IEC 60664 - 1	
Contamination level	3 outside, 2 inside
Overvoltage category	
	AC/DC 275 V
Rated voltage	
Protoction class housing / tours in the	IP 40/IP 20
Protection class housing / terminals acc. to	
IEC 60529	
IEC 60529 Interference immunity acc. to IEC 61000 - 4	Test level 3
IEC 60529 Interference immunity acc. to IEC 61000 - 4 Dimensions (housing)	К 3-3
IEC 60529 Interference immunity acc. to IEC 61000 - 4 Dimensions (housing) Terminal connection diagram	K 3-3 KS 250-6
IEC 60529 Interference immunity acc. to IEC 61000 - 4 Dimensions (housing) Terminal connection diagram Connection cross sections single or fine wire	K 3 - 3 KS 250 - 6 1 x 0,2 to 6 or 2 x 0,2 to 2,5 mm ²
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IEC 60529 Interference immunity acc. to IEC 61000 - 4 Dimensions (housing) Terminal connection diagram Connection cross sections single or fine wire fine wire with connector sleeve	K 3 - 3 KS 250 - 6 1 x 0,2 to 6 or 2 x 0,2 to 2,5 mm ² 1 x 0,4 to 4 or 2 x 0,2 to 1,5 mm ²
IEC 60529 Interference immunity acc. to IEC 61000 - 4 Dimensions (housing) Terminal connection diagram Connection cross sections single or fine wire fine wire with connector sleeve Weight	K 3 - 3 KS 250 - 6 1 x 0,2 to 6 or 2 x 0,2 to 2,5 mm ² 1 x 0,4 to 4 or 2 x 0,2 to 1,5 mm ² 0.14 kg