

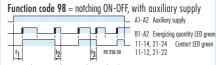


NGF 32

Notching relay with auxiliary supply

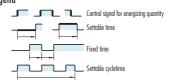
- Multi-voltage for AC/DC 24 to 240 V
- 1 function, notching
- 2 changeover contacts
- 2 LEDs for function display

Functions



- tη = Time between switching on auxiliary supply and energizing quantity, must be > recovery time 2
- t2 = Make time, must be > minimum ON time 1 t3 = Break time, must be > recovery time 2

Lenend



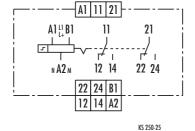
Time ranges

Features

After the auxiliary supply (A1 - A2) has been switched on, the notching relay switches its two changeover contacts to operated condition with the rising edge of the energizing quantity (B1 - A2). The changeover contacts are returned to normal condition with the next rising edge of the energizing quantity. This occurs alternately when the energizing quantity is switched on. When the auxiliary supply is switched off the changeover contacts switch to normal condition.

Connection diagram

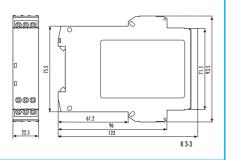
LEDs show the state of the excitation input and the position of the contacts.



Note

The device is designed for multi-voltage. Connect phase L1 or L + to terminal A1 and B1 and neutral N and/or M to terminal A2.

Dimensions



Ordering designation

NGF 32

Price code: 90.1



Technical data	
Device type	NGF 32
Product norm (Time relays)	EN 61812-1:1999-08
Relay function	Aliche I of de I
according to IEC 60050 (445) Function diagram	Notching relay with auxiliary supply FD 250 -50
Function display	2 LEDs green
Ambient operating temperature range	-25 to + 60 °C
Input circuit	
Rated voltage A1 - A2, A1 - B1	AC/DC 24 to 240 V
Rated power AC	3.5 VA/1.7 W
Rated power DC Rated voltage limits	1.6 W 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) Rated current on control connection (B1 - A2)	capacitance 0.2 μF 1 mA
Rated power on control connection (B1 - A2)	1 mA < 0.25 W
Parallel load permitted	A1-A2 yes
Internal one-way rectifier	A1-A2 no
Function times	
Recovery time 1/2	$0/\leq 25 \text{ ms}$
Minimum ON time 1/2	≤ 25/- ms
Output circuit	
Contact equipment	2 changeover contacts
Contact material	AgNi 90/10
Rated operating voltage	AC/DC 24 to 240 V
Rated value for limiting continuous current Ith Minimum contact load	5 A ≥ AC/DC 5 V/≥ 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 Mechanical service life	≤ 3600 switching cycles/h 30 x 10 ⁶ switching cycles
Electrical service life	30 x 10° switching cycles
$20/2$ 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 Overvoltage category	3 outside, 2 inside III
Rated voltage	AC/DC 275 V
Protection class housing / terminals acc. to IEC 60529	IP 40/IP 20
Interference immunity acc. to IEC 61000-4	Test level 3
Dimensions (housing) Terminal connection diagram	K 3 - 3 KS 250 - 25
Connection cross sections single or fine wire	1 x 0,2 to 6 or 2 x 0,2 to 2,5 mm ²
fine wire with connector sleeve	1×0.4 to 4 or 2×0.2 to 1.5 mm ²
Weight	0.13 kg
General Technical Specification	NGG Catalogue