

## Technical data

## Device type

Product norm (Time relays)
Relay function
according to IEC 60050
Function diagram
Function display
Ambient operating temperature range

## Input circuit

Rated voltage A1 - A2
Rated power AC
Rated power DC
Rated voltage limits
Rated frequency $f_{n}$
Release value of input voltage
(line capacitance approx. $150 \mathrm{pF} / \mathrm{m}$ )
Parallel load permitted
Internal one-way rectifier

## Time circuit

Time setting / number of time ranges Setting ranges for time delay
-

Fixed transit time
Recovery time
Setting tolerance
Repeatability (to set value)
Influence of temperature (within range)
Influence of voltage (within range)

## Output circuit

## Contact equipment

Contact material
Rated operating voltage
Rated value for limiting continuous current lth
Minimum contact load
Utilization category according to
IEC 60947-5-1
Permissible switching frequency
Mechanical service life
Electrical service life
$20 / 2 \mathrm{~A}, \mathrm{AC} 250 \mathrm{~V}, \cos \varphi=0.3$
Operate time / release time for excitation A1-A2

## Other data

Clearance/creepage distances to IEC 60664-1 Contamination level
Overvoltage category
Rated voltage
Protection class housing / terminals acc. to 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

## General Technical Specification

NGD 32
EN 61812-1:1999-08

445-01-10 + 445-01-08
FD 250-45
2 LEDs green
-25 to $+60^{\circ} \mathrm{C}$

AC/DC 24 to 240 V
3.5 VA/1.7 W
1.6 W

70 to $110 \%$
50 to $60 \mathrm{~Hz} \pm 5 \%$
$\geq \mathrm{AC} / \mathrm{DC} 10 \mathrm{~V}$; permissible line
capacitance $0.2 \mu \mathrm{~F}$
A1-A2 yes
A1-A2 no
analog/1
from 0.5 s to 100 s , available in ranges:
0.5 to 10 s
1.5 to 30 s
5.0 to 100 s
$100 \mathrm{~ms} \leq \pm 2 \%$
$\leq 50 \mathrm{~ms}$
$\leq \pm 5 \%$
$\leq \pm 0.01 \%+ \pm 10 \mathrm{~ms}$
$\leq \pm 0.002 \%$
$\leq \pm 0.002 \%$

2 NO contacts
AgNi 90/10
AC/DC 24 to 240 V
5 A
$\geq \mathrm{AC} / \mathrm{DC} 5 \mathrm{~V} / \geq 10 \mathrm{~mA}$
AC-15 Ue AC $230 \mathrm{~V}, \mathrm{le} 3 \mathrm{~A}$
DC-13 Ue DC 24 V , le 2 A
$\leq 3600$ switching cycles/h
$30 \times 10^{6}$ switching cycles
$0.12 \times 106$ switching cycles AC-15 40 ms

3 outside, 2 inside
III
AC/DC 275 V
IP 40/IP 20
Test level 3
K 3-2
KS 250-22
$1 \times 0,2$ to 6 or $2 \times 0,2$ to $2,5 \mathrm{~mm}^{2}$
$1 \times 0,4$ to 4 or $2 \times 0,2$ to $1,5 \mathrm{~mm}^{2}$
0.11 kg

NGG Catalogue

