## Electromechanical time Relay

## SZM 51 for single voltage

Function: ON-delay (AV)
1 time range
Contact equipment: 1 timed changeover

## SZM 51



## Function Diagram

SZM 51


## Connection Diagram

KS 5148/2

SZM 51


Dimensions
for DIN-rail acc. to EN 50022


## General

AV (see page $\mathrm{S} 1 / 3$ ).
Infinitely variable time setting within a range is carried out with the aid of a transparent rotary knob.
The time-remaining indicator moves during operation from the set time in the direction of zero.

## Function

Upon application of the supply voltage and elapsing of the preselected delay time, the contact is actuated.
Upon de-energization, the sliding armature is decoupled from the gear train and the contact reverts to its off-position. A torsion spring resets the timing gear to zero.

## Note

- Re-energization during the reset movement has to be avoided
- The mounting position of the SMZ 51 can only be on a vertical flat face or with a maximum inclination of 15 o


## Product Description

The electromechanical time relay SZM 51 has a single setting range and is available in the following time ranges:


## Accessories

Cover Z 29 (sealable transparent cover)
Price code for accessories (see page S 1/72).

## IECHNICAL DATA

FUNCTION according to DIN VDE 0435 Part 110:04.89
Point 3.12
Function display
Function diagram

## POWER SUPPLY

Rated voltage $U_{N}$

Rated consumption: motor at 50 Hz and $\mathrm{U}_{\mathrm{N}}(\mathrm{AC})$
Rated consumption: motor at 50 Hz and $U_{N}(A C)$
Rated consumption: coil at 50 Hz and $U_{N}(\mathrm{AC})$
Rated consumption: coil at 50 Hz and $\mathrm{U}_{\mathrm{N}}(\mathrm{AC})$
Rated frequency
Operating voltage range

## TIME CIRCUIT

Time setting/Number of time range
Available time ranges at $50 \mathrm{~Hz} / 60 \mathrm{~Hz}$

Recovery time
Minimum switch-ON time
Release value
Permissible parallel load
nternal rectifier
Average of the error related to the full-scale value

Dispersion related to the full-scale value

## OUTPUT CIRCUI

Contact equipment
Contact material
Available modifications
Switching voltage $U_{n}$
V AC/DC
Maximum continuous current $I_{n}$
, AC/DC
Application category according to EN 60947-5-1:1991

| Permissible switching frequency | switching cycles $/ \mathrm{h}$ |
| :--- | ---: |
| Mechanical service life | switching cycles |
| Response time | ms |

Release time

## SZM 51

Electromechanical time relay for single voltage
ON-delay time relay
Pointer for operating time
FD 0032

## 244248 110-120-230 240

115125
ca. 3,3
ca. 2,2
-
50 or 60
0,8 to $1,1 \times U_{N}$

## analog/l

0,4 to 10; / 0,4 to 8
1,0 to 30; / 1,0 to 25
2,0 to 60 / 2,0 to 50
$\leq 4 \%$ of the operating time
$\geq 15$
yes
at standard duty:
Setting range $30 \mathrm{~s} ; \pm 4 \%$
Setting range $60 \mathrm{~s} ; \pm 4$
Setting range $10 \mathrm{~s} ; \pm 6 \%$
$\pm 1$

1 timed changeover
Ag Cu
Ag Pd 70/30* or Au Ni 5* 230/230

5
$A C-15 U_{e} 230 \mathrm{VAC}, \mathrm{I}_{\mathrm{e}} 2 \mathrm{~A}$
DC-13 Ue $24 \mathrm{~V} D C, I_{\mathrm{e}} 2 \mathrm{~A}$
1200
$5 \times 10^{6}$ or $10^{4}$ motor operations
$\leq 200$ at full scale 10 s and 30 s
$\leq 300$ at full scale 60 s

4
III
3 outside, 2 inside
250
2,21
IP 30/IP 20
EN 50081-1:03.93, -2:03.94
EN 50082-2:1995
-10 to +45
S 3-12
KS 5148/2
0,2
cover Z 29
page i. 4
page i. 5
*) Price: upon request

