



Electronic Interval ON and OFF Time Relay

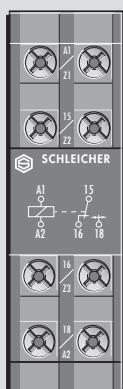
KSY 51 for single voltage

Function: interval ON and OFF (EAW)

Fixed interval time

Contact equipment: 1 passing changeover

KSY 51



Function

EAW (see page K 2/3).

The function setting must be preset by connecting the respective terminals (see Connection Diagram), whether wiping at energization, de-energization, or energization and de-energization.

Jumper Z1/Z2 inserted = wiping at energization

Jumper Z2/Z3 inserted = wiping at de-energization

Without jumper inserted = wiping at energization and de-energization

Product Description

The electronic interval ON and OFF time relay KSY 51 is available with a fixed interval time of 0,5 s.

Interval Time

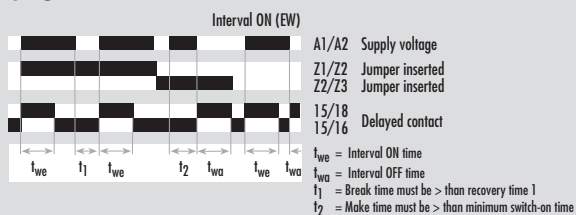
0,5 s

2

Function Diagram

FD 0015

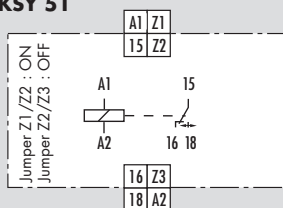
KSY 51



Connection Diagram

KS 0306/1

KSY 51



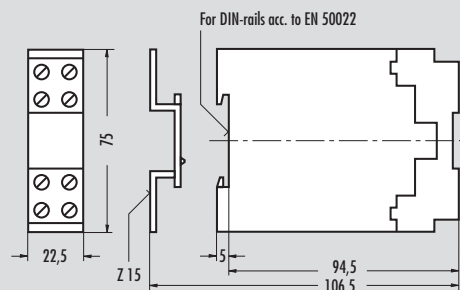
Accessories

Adaptor Z 15 (to be fixed with 2 screws type M4)
The housing can be snapped onto the adaptor.

Price code for accessories: see page K 2/71

Dimensions

K 1-12





TECHNICAL DATA

FUNCTION according to DIN VDE 0435 Part 1 110:04.89

Function display
Function diagram

Point 3.4
Point 3.5

POWER SUPPLY

Rated voltage U_N V AC/DC

Rated consumption at 50 Hz and U_N (AC) VA

Rated consumption at 50 Hz and U_N (AC) W

Rated consumption DC W

Starting current inrush A/ms

Rated frequency Hz

Operating voltage range

TIME CIRCUIT

Time setting/Number of time ranges

Available time ranges: interval ON time s

interval OFF time s

Recovery time 1 ms

Minimum switch-ON time (upon application of the rated voltage) s

Release value % U_N

Repeat cycle starting with

Permissible parallel load yes

Internal rectifier no

Average of the error % $\leq \pm 35$

Dispersion % ± 10 ms $\leq \pm 2$

Influence of the energizing quantity or supply voltage %/% $\Delta U_N \leq 1,2$

Influence of the ambient temperature %/K $\leq 0,5$

OUTPUT CIRCUIT

Contact equipment

Contact material Ag-alloy; gold-plated

Switching voltage U_n V AC/DC 230/230

Maximum continuous current I_n A 5

Application category according to EN 60947-5-1:1991 AC-15 U_e 230 V AC, I_e 2 A
DC-13 U_e 24 V DC, I_e 2 A

Permissible switching frequency switching cycles/h 3600

Mechanical service life switching cycles 20×10^6

Response time ms ca. 20

Release time ms -

GENERAL DATA

Creepage and clearance distances between circuits according to DIN VDE 0110-1:04.97: rated surge voltage kV 4

Over voltage category III

Contamination level 3 outside, 2 inside

Design voltage V AC 250

Test voltage U_{eff} 50 Hz acc. to DIN VDE 0110-1, Table A.1 kV 2,21

Protection class housing/terminals acc. to DIN VDE 0470 Sec. 1:11.92 IP 30/IP 20

Radiated noise EN 50081-1:03.93, -2:03.94

Noise immunity EN 50082-2:1995

Ambient temperature, working range °C -20 to + 60

Dimensions K 1-12

Connection diagram KS 0306/1

Weight kg 0,14

Accessories adaptor Z 15

Approvals page i.4

GENERAL TECHNICAL SPECIFICATIONS

KSY 51

Electronic interval time relay for single voltage, selectable function

Interval ON time relay and Interval OFF time relay

-

FD 0015

	24	42-48	60	110-127	230
Rated consumption at 50 Hz and U_N (AC) VA	1,2	2,4	2,2	2,0	2,4
Rated consumption at 50 Hz and U_N (AC) W	0,9	1,8	1,5	1,6	1,8
Rated consumption DC W	0,6	1,0	0,8	0,9	1,0
Starting current inrush A/ms	,7/100	,8/30	,6/30	,2/50	,2/50
Rated frequency Hz	50 to 60				
Operating voltage range	0,8 to 1,1 x U_N				

fixed/1

ca. 0,5

ca. 0,5

ca. 200 on standard duty

ca. 3 after longer shutdown

ca. 3

-

-

yes

no

$\leq \pm 35$

$\leq \pm 2$

$\leq 1,2$

$\leq 0,5$

1 passing changeover

Ag-alloy; gold-plated

230/230

5

AC-15 U_e 230 V AC, I_e 2 A

DC-13 U_e 24 V DC, I_e 2 A

3600

20×10^6

ca. 20

-

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

-20 to + 60

K 1-12

KS 0306/1

0,14

adaptor Z 15

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page i.5

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