



Digital Multi-Range Time Relays

DZD 72-S LK, DZD 72 LK for single voltage

Function: ON-delay (AV)

1 setting range digital 0,01 s to 99,99 h, divided into 3 time ranges

Contact equipment: DZD 72-S LK = 1 timed and 1 instantaneous changeover

DZD 72 LK = 2 timed changeover

DZD 72-S LK, ...

72 x 72



Function

AV (see page D 3/3).

The setting of the time ranges and of the set values is done on the timer's front by means of a preselector switch with pushbuttons.

One wafer for the time ranges (s, min, h) and 4 wafers for the set value are available.

A sequence cascade of LEDs displays the timing period.

For each elapsed time portion, only one LED is lighted up at a time.

Product Description

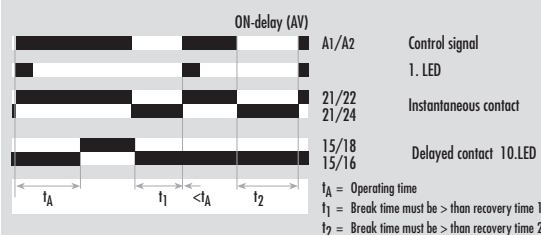
The digital multi-range time relays DZD 72-S LK, ... are available in 1 setting range, divided into 7 time ranges.

Setting Range	Time Range
0,01 s to 99,99 h	
divided into :	0,01 to 99,99 s
	0,01 to 99,99 min
	0,01 to 99,99 h

Function Diagram

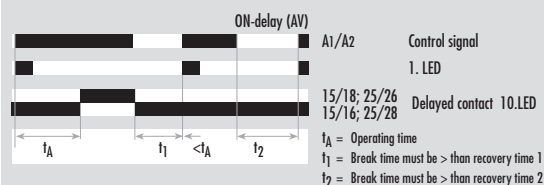
FD 0006

DZD 72-S LK



DZD 72 LK

FD 0005



Type	Standard voltage	Special voltage	Price Code
DZD 72-S LK ... 99,99 h	24 V AC/DC 110 to 127 V AC 220 to 240 V AC 50 to 60 Hz	42 V AC/DC 48 V AC/DC 60 V AC/DC 50 to 60 Hz	D 3/13.1
DZD 72 LK 99,99 h	24 V AC/DC 110 to 127 V AC 220 to 240 V AC 50 to 60 Hz	42 V AC/DC 48 V AC/DC 60 V AC/DC 50 to 60 Hz	D 3/13.2

3

Accessories

Socket connector	B 5 for panel- and surface mounting
Pin holder	B 7 for panel mounting
Cover	DA 1 for panel cutout
Lockable cover	V 4
Seal	Z 1

Price code for accessories (see page D 3/79).

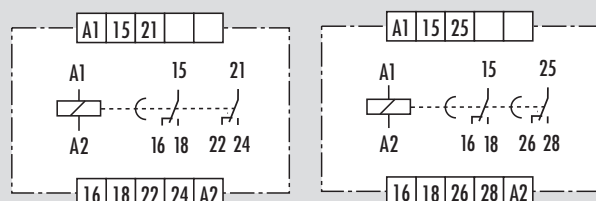
Conection Diagram

DZD 72-S LK

KS 0191/2

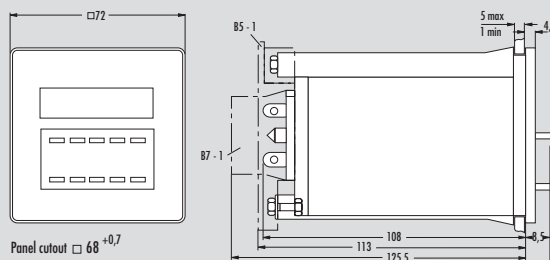
DZD 72 LK

KS 0085/4



Dimensions

D 1-29





TECHNICAL 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 voltage U_N

V AC/DC
V AC

Rated consumption at 50 Hz and U_N (AC)
Rated consumption at 50 Hz and U_N (AC)
Rated consumption DC
Rated frequency
Operating voltage range

VA
W
W
Hz

TIME CIRCUIT

Time setting/Number of time ranges
Available setting ranges

Recovery time 1/2
Minimum switch-ON time
Release value

s
min
h
ms
ms
% U_N

Permissible parallel load
Internal rectifier

Average of the error

% ± 10 ms

Dispersion

% ± 10 ms

Influence of the energizing quantity or supply voltage

%/% ΔU_N

Influence of the ambient temperature

%/K

OUTPUT CIRCUIT

Contact equipment

Contact material

Switching voltage U_n

V AC/DC

Maximum continuous current I_n

A

Application category according to EN 60947-5-1:1991

Permissible switching frequency

switching cycles/h

Mechanical service life

switching cycles

Response time of the instantaneous changeover

ms

Release time of the timed/instantaneous changeover

ms

GENERAL DATA

Creepage and clearance distances between circuits
acc. to DIN VDE 0110-1:04.97: Rated surge voltage

kV

Over voltage category

Contamination level

Design voltage

V AC

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

kV

Protection class: Housing front panel/housing rear panel/flat pin terminal

Radiated noise

Noise immunity

Ambient temperature, working range

°C

Dimensions

Connection diagram

Weight

kg

Accessories

Approvals

GENERAL TECHNICAL SPECIFICATIONS

DZD 72-S LK

Digital adjustable multi-range
time relay for single voltage
ON-delay time relay
LED sequence cascade, red
FD 0006

24	42	48	60	110-127	220-240
1,9	1,9	1,9	1,9	4,5	7,7
1,6	1,6	1,6	1,6	1,3	3,0
1,5	1,5	1,5	1,5		

50 to 60
0,8 to 1,1 x U_N

digital/3

0,01 s to 99,99 h

divided into:

0,01 to 99,99;

0,01 to 99,99;

0,01 to 99,99

ca. 30/ca. 30

-

-

yes

no

$\leq \pm 0,5$

$\leq \pm 0,5$

$\leq 0,02$

$\leq 0,025$

1 timed and 1 instantaneous 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

6000

30×10^6

ca. 10

ca. 15/ca. 10

4

III

3 outside, 2 inside

250

2,21

IP 40/IP 20/IP 00

EN 50081-1:03.93, -2:03.94

EN 50082-2:1995

-20 to + 60

D 1-29

KS 0191/2

0,29

cover DA 1, sealable cover V 4,

seal Z 1, socket connector B 5,

pin holder B 7

page i.4

page i.5

DZD 72 LK

Digital adjustable multi-range
time relay for single voltage
ON-delay time relay
LED sequence cascade, red
FD 0005

24	42	48	60	110-127	220-240
1,3	1,3	1,3	1,3	2,8	4,8
1,0	1,0	1,0	1,0	1,0	1,5
1,0	1,0	1,0	1,0		

50 to 60
0,8 to 1,1 x U_N

digital/3

0,01 s to 99,99 h

divided into:

0,01 to 99,99;

0,01 to 99,99;

0,01 to 99,99

ca. 30/ca. 60

-

-

yes

no

$\leq \pm 0,5$

$\leq \pm 0,5$

$\leq 0,02$

$\leq 0,025$

2 timed 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

6000

30×10^6

-

ca. 15

4

III

3 outside, 2 inside

250

2,21

IP 40/IP 20/IP 00

EN 50081-1:03.93, -2:03.94

EN 50082-2:1995

-20 to + 60

D 1-29

KS 0085/4

0,27

cover DA 1, sealable cover V 4,

seal Z 1, socket connector B 5,

pin holder B 7

page i.4

page i.5