



## Electronic Time Relays

**KZT 11 D for dual-voltage 24 V AC/DC and 230 V AC or 24 V AC/DC and 115 V AC or 42 V AC/DC and 60 V AC/DC**

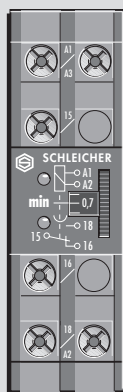
**KZT 11 for single voltage**

**Function: ON-delay (AV)**

**1 time range**

**Contact equipment: 1 timed changeover**

### KZT 11 D, ...



### Function

AV (see page K 2/3).

The time delay is set with the aid of the thumbwheel disc. Scale values are absolute related to the selected time factor.

### Product Description

The electronic time relays KZT 11 ... are single range items and are available in the following time ranges:

#### Time Range

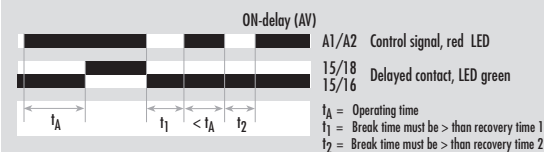
0,05	to	1 s
0,15	to	3 s
0,5	to	10 s
1,5	to	30 s
5	to	100 s
15	to	300 s
50	to	1000 s
3	to	60 min
0,15	to	3 h
0,5	to	10 h

Type	Standard voltage	Special voltage	Price Code
KZT 11 D 1 s	24 V AC/DC and 230 V AC		<b>K 2/26.1</b>
KZT 11 D 3 s			
KZT 11 D 10 s			
KZT 11 D 30 s			
KZT 11 D 100 s	24 V AC/DC and 115 V AC		
KZT 11 D 300 s			
KZT 11 D 1000 s			
KZT 11 D 60 min			
KZT 11 D 3 h	42 V AC/DC and 60 V AC/DC	50 to 60 Hz	
KZT 11 D 10 h			
KZT 11 1 s	24 V AC/DC 115 V AC 230 V AC 50 to 60 Hz	42 V AC/DC 50 to 60 Hz	<b>K 2/26.2</b>
KZT 11 3 s			
KZT 11 10 s			
KZT 11 30 s			
KZT 11 100 s			
KZT 11 300 s			
KZT 11 1000 s			
KZT 11 60 min			
KZT 11 3 h			
KZT 11 10 h			

### Function Diagram

FD 0026

#### KZT 11 D, ...



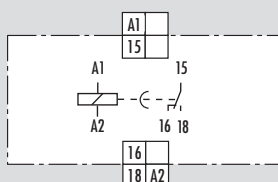
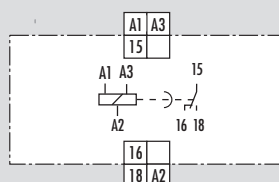
### Connection Diagram

#### KZT 11 D

KS 0290/2

#### KZT 11

KS 0080/5



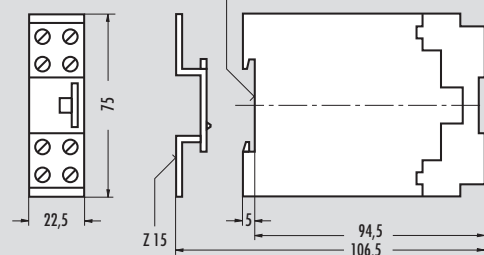
A1- A2 = 230 V AC, 115 V AC, 60 V AC/DC  
A3- A2 = 24 V AC/DC, 24 V AC/DC, 42 V AC/DC

### Dimensions

K 1-12

#### KZT 11 D

For DIN-rails acc. to EN 50022

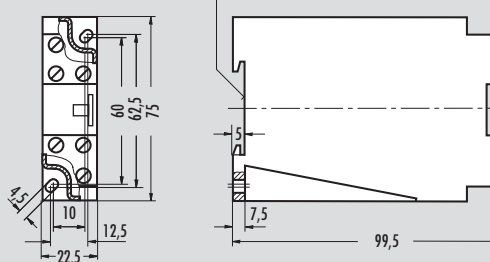


### Dimensions

K 1-7

#### KZT 11

For DIN-rails acc. to EN 50022





## TECHNICAL DATA

**FUNCTION** according to DIN VDE 0435 Part 110:04.89

Function display  
Function diagram

Point 3.12

### 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  
Starting current inrush  
Rated frequency  
Operating voltage range

VA  
W  
W  
A/ms  
Hz

### TIME CIRCUIT

Time setting/Number of time ranges  
Available time ranges

Recovery time 1/2  
Minimum switch-ON time  
Release value  
Permissible parallel load  
Internal rectifier  
Average of the error  
Dispersion  
Influence of the energizing quantity or supply voltage  
Influence of the ambient temperature

s  
s  
s  
min  
h  
ms  
ms  
%  $U_N$   
%  
%  $\pm 10$  ms  
%/ %  $\Delta U_N$   
%/K

### OUTPUT CIRCUIT

Contact equipment  
Contact material  
Switching voltage  $U_n$   
Maximum continuous current  $I_n$   
Application category according to EN 60947-5-1:1991

V AC/DC  
A

Permissible switching frequency  
Mechanical service life  
Response time  
Release time

switching cycles/h  
switching cycles  
ms  
ms

### GENERAL DATA

Creepage and clearance distances between circuits acc. to DIN VDE 0110-1:04.97: Rated surge voltage  
Over voltage category  
Contamination level  
Design voltage  
Test voltage  $U_{eff}$  50 Hz acc. to DIN VDE 0110-1, Table A.1  
Protection class housing/terminals acc. to DIN VDE 0470 Sec. 1:11.92  
Radiated noise  
Noise immunity

kV  
III  
V AC  
kV  
EN 50081-1:03.93, -2:03.94  
EN 50082-2:1995

Ambient temperature, working range  
Dimensions  
Connection diagram  
Weight  
Accessories  
Approvals

°C  
kg

### GENERAL TECHNICAL SPECIFICATIONS

## KZT 11 D

ON-delay time relay for dual-voltage with two different supply voltage connections  
ON-delay time relay  
1 LED green, 1 LED red  
FD 0026

24	115	24	230	42	60
1,6	4,5	1,6	8	1,3	1,6
1,4	1,4	1,4	1,4	1,1	1,5
0,9	0,9	0,9	0,8	1,2	
,7/3	1/5	,7/3	,7/5	,8/1	,1/2,5
50 to 60					
0,8 to 1,1 x $U_N$					

analog/1  
0,05 to 1; 0,15 to 3; 0,5 to 10;  
1,5 to 30; 5 to 100; 15 to 300;  
50 to 1000;  
3 to 60;  
0,15 to 3; 0,5 to 10  
ca. 40/ca.80  
-  
 $\geq 15$   
yes  
no  
diagram 4, page i.5  
 $\leq \pm 0,5$   
 $\leq 0,02$   
 $\leq 0,025$

1 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  
3600  
20 x 10<sup>6</sup>  
-  
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 0290/2  
0,12  
adaptor Z 15  
page i.4

page i.5

## KZT 11

ON-delay time relay for single voltage

ON-delay time relay  
1 LED green, 1 LED red  
FD 0026

24	42	115	230
1,6	1,3	4,5	8,0
1,4	1,1	1,4	1,4
0,9	0,8		
,7/3	,8/1	1/5	,7/5
50 to 60			
0,8 to 1,1 x $U_N$			

analog/1  
0,05 to 1; 0,15 to 3; 0,5 to 10;  
1,5 to 30; 5 to 100; 15 to 300;  
50 to 1000;  
3 to 60;  
0,15 to 3; 0,5 to 10  
ca.40/ca.80  
-  
 $\geq 15$   
yes  
no  
diagram 4, page i.5  
 $\leq \pm 0,5$   
 $\leq 0,02$   
 $\leq 0,025$

1 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  
3600  
20 x 10<sup>6</sup>  
-  
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 1-7  
KS 0080/5  
0,12  
-  
page i.4

page i.5

