



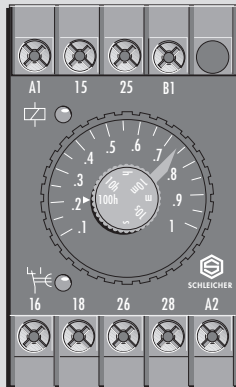
## Electronic Multi-Range Time Relays

**SZT 720 for single voltage**  
**SZT 820 for single voltage**

**Function: OFF-delay (RV)** with auxiliary supply  
**1 setting range, divided into 7 time ranges**

**Contact equipment: SZT 720 = 2 timed changeover**  
**SZT 820 = 2 timed changeover**

### SZT 720, ...



### Function

RV (see page S 1/3).

The setting of the time ranges is done on the timer's front by means of a selector switch. Infinitely variable time setting within a range is carried out with the aid of a transparent rotary knob.



### Product Description

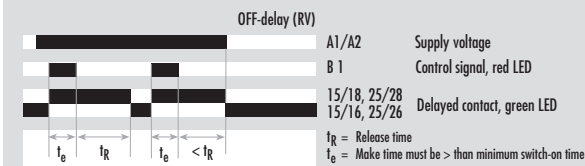
The electronic multi-range time relays SZT 7..., SZT 82... are available in 1 setting range, divided into 7 time ranges.

Setting Range	Time Range
<b>0,1 s to 100 h</b> divided into :	0,1 to 1 s
	1 to 10 s
	0,1 to 1 min
	1 to 10 min
	0,1 to 1 h
	1 to 10 h
	10 to 100 h

### Function Diagram

FD 0037

#### SZT 720, SZT 820

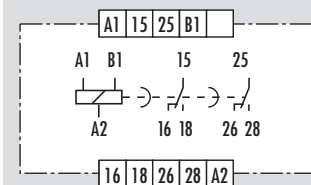


Type	Standard voltage	Special voltage	Price Code
SZT 720 100 h	24 V AC/DC 110 to 127 V AC 220 to 240 V AC 50 to 60 Hz	42 V AC/DC 48 V AC/DC 60 V AC/DC 50 to 60 Hz	<b>S 1/25.1</b>
SZT 820 100 h	110 to 127 V DC 220 V DC 240 V DC		<b>S 1/25.2</b>

### Connection Diagram

KS 0121/3

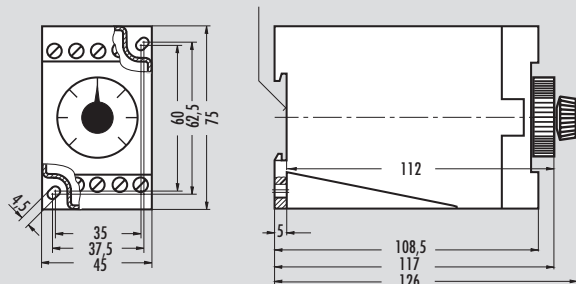
#### SZT 720, SZT 820



### Dimensions

S 3-9

For DIN-rail acc. to EN 50022





## TECHNICAL DATA

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

Point 3.16

Function display  
Function Diagram

### POWER SUPPLY

Rated voltage $U_N$	V AC/DC
Rated voltage $U_N$	V AC
Rated voltage $U_N$	V DC
Rated consumption at 50 Hz and $U_N$ (AC)	VA
Rated consumption at 50 Hz and $U_N$ (AC)	W
Rated consumption at $U_N$ (DC)	W
Starting current inrush	A/ms
Rated frequency	Hz
Operating voltage range	
Rated current for the energizing quantity at (B1)	mA

### TIME CIRCUIT

Time setting/Number of time ranges	
Setting range available	
	s
	min
	h
	h
Recovery time 1/2	ms
Minimum switch-ON time	ms
Release value	% $U_N$
Repeat cycle starting with	
Permissible parallel load	
Internal rectifier	
Average of the error	
Dispersion	% $\pm 10$ ms
Influence of the energizing quantity or supply voltage	%/% $\Delta U_N$
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	ms
Release time	ms

### GENERAL DATA

Creepage and clearance distances between circuits according 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/terminals acc. to DIN VDE 0470 Sec. 1:11.92	
Radiated noise	
Noise immunity	
Ambient temperature, working range	°C
Dimensions	
Connection diagram	
Weight	kg
Accessories	
Approvals	

### GENERAL TECHNICAL SPECIFICATIONS

## SZT 720

Electronic, single voltage, multi-range time relay  
OFF-delay time relay with auxiliary supply  
1 LED green, 1 LED red  
FD 0037

24	42	48	60	110-127	220-240
2,5	2,8	3,3	2,5	4,5	8,2
1,4	1,7	2,1	1,4	1,6	2,0
1,2	1,3	1,7	1,7		
1500/2	730/2	570/3	700/3	550/1	500/5
50 to 60					
0,8 to 1,1 x $U_N$					
$\leq 3$					

analog/7
setting range 0,1 s to 100 h
divided into:
0,1 to 1; 1 to 10;
0,1 to 1; 1 to 10;
0,1 to 1; 1 to 10;
10 to 100
ca. 3000 after longer shutdown/-
ca. 20
$\geq 15$
-
yes
yes
diagram 1, page i.5
$\leq \pm 0,5$
$\leq 0,02$
$\leq 0,025$

2 timed changeover
AgCdO
250/300
5
AC-15 $U_e$ 230 V AC, $I_e$ 2 A
DC-13 $U_e$ 24 V DC, $I_e$ 2 A
6000
$30 \times 10^6$
ca. 20
ca. 75

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
S 3-9
KS 0121/3
0,18
cover Z 29
page i.4

page i.5

## SZT 820

Electronic, single voltage, multi-range time relay  
OFF-delay time relay with auxiliary supply  
1 LED green, 1 LED red  
FD 0037

110-127	220	240
2,1	2,4	2,7
70/2	30/10	30/10
50 to 60		
0,8 to 1,1 x $U_N$		
$\leq 1,5$		

analog/7
setting range 0,1 s to 100 h
divided into:
0,1 to 1; 1 to 10;
0,1 to 1; 1 to 10;
0,1 to 1; 1 to 10;
10 to 100
ca. 3000 after longer shutdown/-
ca. 20
$\geq 15$
-
yes
yes
diagram 1, page i.5
$\leq \pm 0,5$
$\leq 0,02$
$\leq 0,025$

2 timed changeover
AgCdO
250/300
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AC-15 $U_e$ 230 V AC, $I_e$ 2 A
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6000
$30 \times 10^6$
ca. 10
ca. 50

4
III
3 outside, 2 inside
250
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EN 50081-1:03.93, -2:03.94
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-20 to + 60
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