



Electronic Time Relays

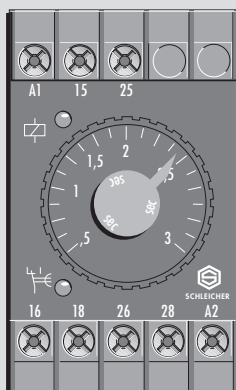
SZT 12 for single voltage

Function: ON-delay (AV)

1 time range

Contact equipment: 2 timed changeover

SZT 12



Function

AV (see page S 1/3).

Infinitely variable time setting within a range is carried out with the aid of a transparent rotary knob.



Product Description

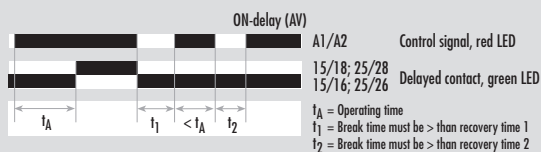
The electronic time relay SZT 12 is designed for a single range and is available in the following time ranges:

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
0,5	to 10 min
1,5	to 30 min

Function Diagram

FD 0026

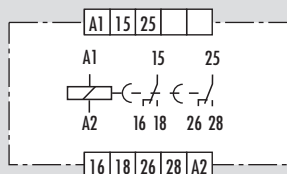
SZT 12



Connection Diagram

KS 0085/4

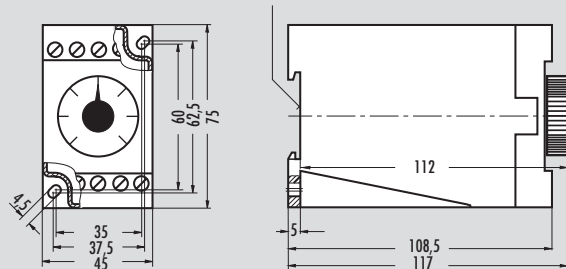
SZT 12



Dimensions

S 3-9

For DIN-rail acc. to EN 50022



Accessories

Cover Z 29 (sealable transparent cover)

Price code for accessories (see page S 1/72).



TECHNICAL DATA

FUNCTION according to DIN VDE 0435 Part 1 10:04.89

Function display Point 3.12
Function Diagram

POWER SUPPLY

Rated voltage U_N V AC
Rated consumption at 50 Hz and U_N (AC) VA
Rated consumption at 50 Hz and U_N (AC) W
Starting current inrush A/ms
Rated frequency Hz
Operating voltage range

TIME CIRCUIT

Time setting/Number of time ranges
Setting range available s
Recovery time 1/2 ms
Minimum switch-ON time ms
Release value % U_N
Repeat cycle starting with
Permissible parallel load yes
Internal rectifier no
Average of the error diagram 4, page i.5
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 ms
Release time ms

GENERAL DATA

Creepage and clearance distances between circuits according to DIN VDE 01 10-1:04.97: rated surge voltage kV
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 01 10-1, Table A.1 kV 2,21
Protection class housing/terminals acc. to DIN VDE 0470 Sec. 1:11.92
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 S 3-9
Connection diagram KS 0085/4
Weight kg 0,17
Accessories cover Z 29
Approvals page i.4

GENERAL TECHNICAL SPECIFICATIONS

SZT 12

Electronic, single voltage time relay

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

230-240

5,5
1,8
,5/5
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;
0,5 to 10; 1,5 to 30
ca. 40/ca. 80
-
 ≥ 15
-
yes
no
diagram 4, page i.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 30/IP 20
EN 50081-1:03.93, -2:03.94
EN 50082-2:1995

-20 to + 60
S 3-9
KS 0085/4
0,17
cover Z 29
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