



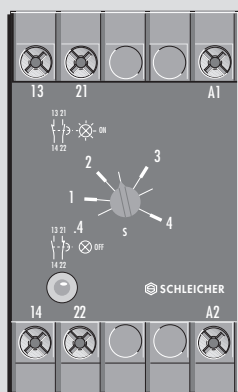
Capacitor Short Time Relay

SZCZ 120, SZCZ 140 for single voltage

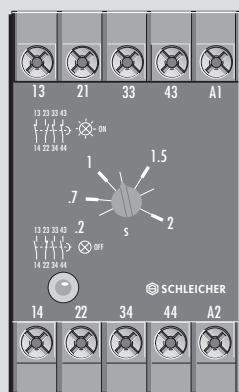
Function: OFF-delay (RV) without auxiliary supply with forced contact
1 time range (the setting is resistant against ext. shocks and vibrations)

Contact equipment: SZCZ 120 = 1 timed NO and 1 timed NC
SZCZ 140 = 3 timed NO and 1 timed NC

SZCZ 120



SZCZ 140



Function

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

Upon application of the power supply at terminals A1/A2, the output relay is energized. The time delay (OFF-delay time t_R) can be correctly performed only if the power supply has been applied for the indicated min. switch-ON time (t_1) and after it is removed. The output relay goes into its off-position after the selected OFF-delay time t_R has elapsed.

Note

If the power supply is applied for a shorter time than the min. switch-ON time (t_1), the OFF-delay time t_R can be shortened as well. Even under these conditions the output relay goes always into its off-position.

Product Description

The capacitor short-time relays SZCZ 120 and SZCZ 140 have a single setting range and are available with the following time ranges:

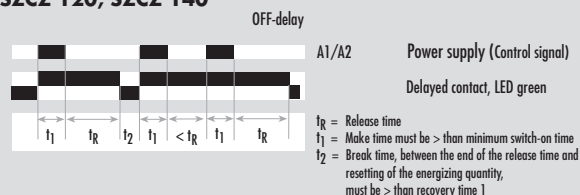
Time Range	
0,4 to 4 s	SZCZ 120
0,2 to 2 s	SZCZ 140

Type	Standard voltage
SZCZ 120 4 s	110 V AC 50 to 60 Hz
SZCZ 140 2 s	110 V AC 50 to 60 Hz

Function Diagram

FD 0133

SZCZ 120, SZCZ 140



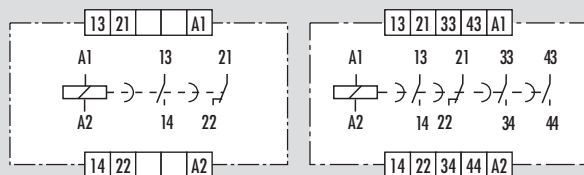
Connection Diagram

SZCZ 120

KS 0353

SZCZ 140

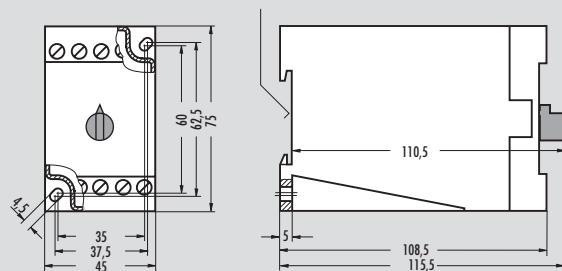
KS 0354



Dimensions

for DIN-rail acc. to EN 50022

S 3-1





TECHNICAL DATA

FUNCTION according to DIN VDE 0435 Part 1 110:04.89

Point 3.15

Function display
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

Available time range s

Recovery time 1/2 ms

Minimum switch-ON time (t_1) ms

Release value % U_N

Repeat cycle starting with

Permissible parallel load yes

Internal rectifier no

Average of the error -

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

Minimum voltage U_n V AC/DC

Minimum continuous current I_n mA

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 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 S 3-1

Connection diagram KS 0353

Weight kg 0,15

SZCZ 120

Capacitor short-time relay for single voltage
OFF-delay time relay without auxiliary supply with forced contact
1 LED, green
FD 0133

110

2,2

2,2

3,3/80

50 to 60

0,8 to 1,1 x U_N

analog/1

0,4 to 4

0/-

ca. 400

> 10

-

yes

no

-

$\leq \pm 0,5$

$\leq 0,02$

$\leq 0,025$

1 timed NO, 1 timed NC

forced contact

Ag-Alloy with 2 μ m Au

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

DC-12

DC-5

3600

10 x 10⁶

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

S 3-1

KS 0353

0,15

SZCZ 140

Capacitor short-time relay for single voltage
OFF-delay time relay without auxiliary supply with forced contact
1 LED, green
FD 0133

110

2,2

2,2

3,3/40

50 to 60

0,8 to 1,1 x U_N

analog/1

0,2 to 2

0/-

ca. 250

> 10

-

yes

no

-

$\leq \pm 0,5$

$\leq 0,02$

$\leq 0,025$

3 timed NO, 1 timed NC

forced contact

Ag-Alloy with 2 μ m Au

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

DC-12

DC-5

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III

3 outside, 2 inside

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IP 30/IP 20

EN 50081-1:03.93, -2:03.94

EN 50082-2:1995

-20 to + 60

S 3-1

KS 0354

0,15