



Auxiliary Relays

SS 34, SS 12 for single voltage

Function: switching relay

Contact equipment: SS 34 = 4 changeover

SS 12 = 2 changeover

SS 34, ...



Function

The non-delay type auxiliary relays are specially used to switch currents and voltages in auxiliary and control circuit systems.

Product Description

The auxiliary relays SS 34 and SS 12 are available in the following voltages:

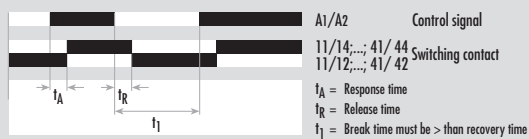
| Type | Standard voltage | Special voltage | Price Code |
|-------|--|------------------------------------|-----------------|
| SS 34 | 24 V AC 110 V AC 230 V AC 50 or 60 Hz | 42 V AC 240 V AC 50 or 60 Hz | S 1/65.1 |
| SS 12 | 24 V AC 110 V AC 230 V AC 50 to 60 Hz | 42 V AC 240 V AC 50 to 60 Hz | S 1/65.2 |

1

Function Diagram

FD 0044

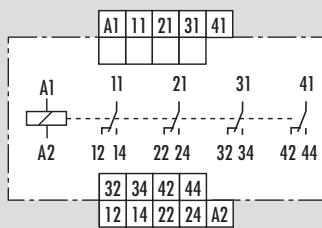
SS 34, ...



Connection Diagram

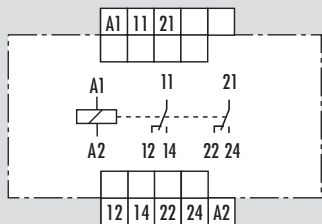
KS 5114/2

SS 34



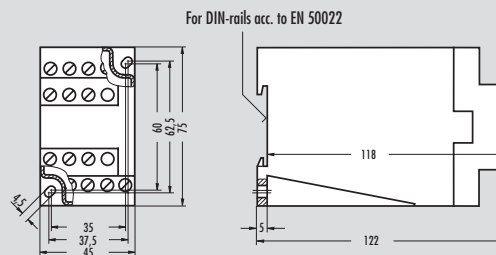
KS 5176/2

SS 12



Dimensions

S 3-6





TECHNICAL DATA

FUNCTION according to DIN VDE 0435 Part 1 110:04.89

Point 2.1

Function display
Function diagram

POWER SUPPLY

Rated voltage U_N V AC

Rated consumption: motor at 50 Hz and U_N (AC) switching on VA
Rated consumption: motor at 50 Hz and U_N (AC) switching on W
Rated consumption: coil at 50 Hz and U_N (AC) holding VA
Rated consumption: coil at 50 Hz and U_N (AC) holding W
Rated frequency Hz
Operating voltage range

TIME CIRCUIT

Time setting/Number of time ranges
Available time ranges
Recovery time
Minimum switch-ON time ms
Release value % U_N
Permissible parallel load
Internal rectifier

OUTPUT CIRCUIT

Contact equipment
Contact material
Available modifications
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
Approvals

GENERAL TECHNICAL SPECIFICATIONS

SS 34

Auxiliary relay for single voltage

Switching relay
-
FD 0044

24 42 110 230 240

ca. 18
ca. 6,5
ca. 5,2
ca. 1,8
50 or 60
0,8 to 1,1 x U_N

-/-

-

-

-

-

≥ 15

yes

-

4 changeover
Ag Cu
Ag Pd 70/30* or Ag Cd O*
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
10 x 10°
≤ 25
≤ 30

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

- 10 to + 55
S 3-6
KS 5114/2
0,42
page i.4

page i.5

*) Price: upon request

SS 12

Auxiliary relay for single voltage

Switching relay
-
FD 0044

24 42 110 230 240

ca. 2,2
ca. 1,8
50 to 60
0,8 to 1,1 x U_N

-/-

-

-

-

-

≥ 15

yes

yes

2 changeover
Ag Cu
Ag Pd 70/30* or Ag Cd O*
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 x 10°
≤ 30
≤ 60

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

- 10 to + 55
S 3-6
KS 5176/2
0,32
page i.4

page i.5

*) Price: upon request