



CONTACTOR RELAY, 2NO+2NC DC 24V,
SZ S00, SCREW TERMINAL

General technical data:

Product brand name		SIRIUS
Product designation		contactor relay
Size of the contactor		S00
Protection class IP / frontal/front side		IP20
Degree of pollution		3
Insulation voltage / with degree of pollution 3 / rated value	V	690
Installation altitude / at a height over sea level / maximum	m	2000
Ambient temperature		
• during transport	°C	-55 ... 80
• during storage	°C	-55 ... 80
• during the operating phase	°C	-25 ... 60
Resistance against shock		10g / 5 ms and 5g / 10 ms
Impulse voltage resistance / rated value	kV	6
Item designation		
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		K
• according to DIN EN 61346-2		K
Mechanical operating cycles as operating time		
• of the contactor / typical		30000000

- of the contactor with added auxiliary switch block / typical
- of the contactor with added electronics-compatible auxiliary switch block / typical

10000000

10000000

Control circuit:**Type of voltage / of the controlled supply voltage**

DC

Control supply voltage / 1

- for DC / rated value

V

24

Operating range factor control supply voltage rated value / of solenoid

- for DC

0.8 ... 1.1

Holding power / of solenoid / with DC

W

4

Pull-in power / of the solenoid / with DC

W

4

Resistive loss / of the magnet coil / at DC / typical

W

4

Auxiliary circuit:**Product extension / auxiliary switch**

Yes

Identification number and letter for switching elements

22 E

Contact reliability / of the auxiliary contacts

1 faulty switching per 100 million (17 V, 1 mA)

Number of NC contacts / for auxiliary contact

2

- instantaneous switching

2

- delayed switching

0

- asynchronous switching

0

- lagging switching

0

Number of NO contacts / for auxiliary contact

2

- instantaneous switching

2

- delayed switching

0

- asynchronous switching

0

- leading switching

0

Number of changeover contacts

- for auxiliary contact

0

Operating current / of the auxiliary contacts

- at AC-12 / maximum

A

10

- at AC-15

- at 230 V

A

10

- at 400 V

A

3

- at 500 V

A

2

- at 690 V

A

1

- with 1 current path

- at DC-12

- at 24 V

A

6

- at 110 V
- at 220 V
- at DC-13
- at 24 V
- at 110 V
- at 220 V

A	3
A	1
A	6
A	1
A	0.3

Short-circuit:

Design of the fuse link / for short-circuit protection of the auxiliary switch

- required

Fuse gL/gG: 10 A, miniature circuit breaker C 6 A
(short-circuit current $I_k < 400$ A)

Installation/mounting/dimensions:

Built in orientation

vertical

Type of mounting

screw and snap-on mounting onto 35 mm standard mounting rail

Width

mm 45

Height

mm 57.5

Depth

mm 72

Distance, to be maintained, to the ranks assembly

- forwards
- backwards
- upwards
- downwards
- sideways

mm 0
mm 0
mm 0
mm 0
mm 0

Distance, to be maintained, to earthed part

- forwards
- backwards
- upwards
- downwards
- sideways

mm 6
mm 0
mm 6
mm 6
mm 6

Distance, to be maintained, conductive elements

- forwards
- backwards
- upwards
- downwards
- sideways

mm 0
mm 0
mm 0
mm 0
mm 0

Connections:

Design of the electrical connection

- for auxiliary and control current circuit

screw-type terminals

Type of connectable conductor cross section		
	• for auxiliary contact	
	• solid	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), 2x 4 mm ²
	• stranded wire	
	• with wire end processing	2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²)
	• for AWG conductors / for auxiliary contacts	2x (20 ... 16), 2x (18 ... 14), 2x 12

Certificates/approvals:

Verification of suitability

CE / UL / CSA / CCC

Safety:

B10 value / with high demand rate

- according to SN 31920

1000000

Proportion of dangerous failures

- with low demand rate / according to SN 31920
- with high demand rate / according to SN 31920

%

40

%

75

Failure rate (FIT value) / with low demand rate

- according to SN 31920

FIT

100

T1 value / for proof test interval or service life

- according to IEC 61508

a

10

Protection against electrical shock

finger-safe

Further information:

Information- and Downloadcenter (Catalogs, Brochures,...)

<http://www.siemens.com/industrial-controls/catalogs>

Industry Mall (Online ordering system)

<http://www.siemens.com/industrial-controls/mall>

CAX-Online-Generator

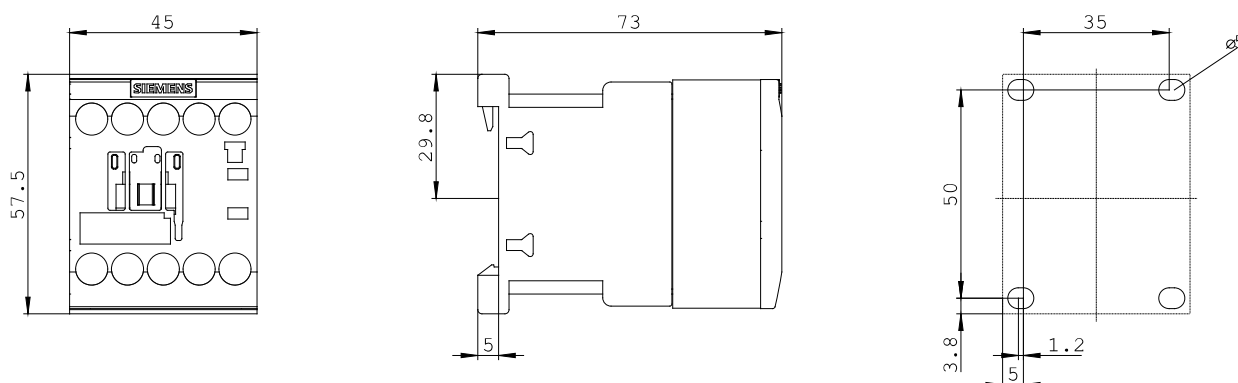
<http://www.siemens.com/cax>

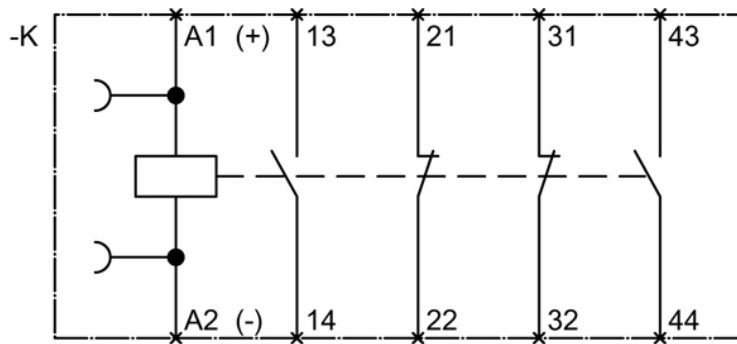
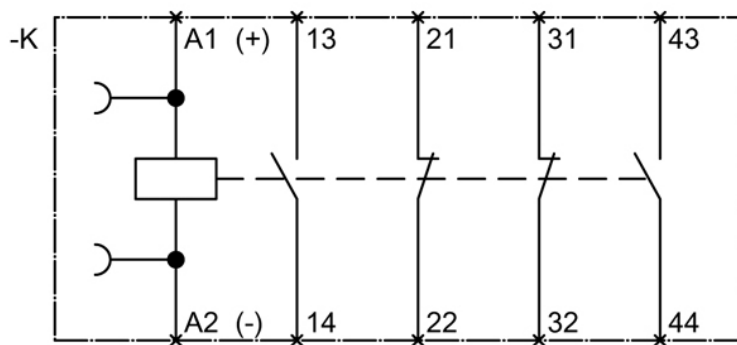
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RH2122-1BB40/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH2122-1BB40





last change:

Sep 20, 2010