



COUPLING CONTACTOR RELAY,
3NO+1NC DC 24V, 0.7...1.25*US,
W. INTEGRATED DIODE 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

Control circuit:		
Design of the surge suppressor		with diode
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		0.7 ... 1.25
Holding power / of solenoid / with DC	W	2.8
Pull-in power / of the solenoid / with DC	W	2.8
Resistive loss / of the magnet coil / at DC / typical	W	2.8

Auxiliary circuit:		
Product extension / auxiliary switch		No
Identification number and letter for switching elements		31 E
Contact reliability / of the auxiliary contacts		1 faulty switching per 100 million (17 V, 1 mA)
Number of NC contacts / for auxiliary contact • instantaneous switching • delayed switching • asynchronous switching • lagging switching		1 1 0 0 0
Number of NO contacts / for auxiliary contact • instantaneous switching • delayed switching • asynchronous switching • leading switching		3 3 0 0 0
Number of changeover contacts • for auxiliary contact		0
Operating current / of the auxiliary contacts • at AC-12 / maximum • at AC-15 • at 230 V • at 400 V • at 500 V • at 690 V • with 1 current path • at DC-12 • at 24 V • at 110 V • at 220 V	A A A A A A A A	10 10 3 2 1 6 3 1

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

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
- stranded wire
 - with wire end processing
- for AWG conductors / for auxiliary contacts

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm²

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)

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

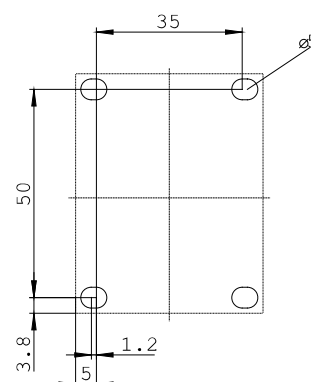
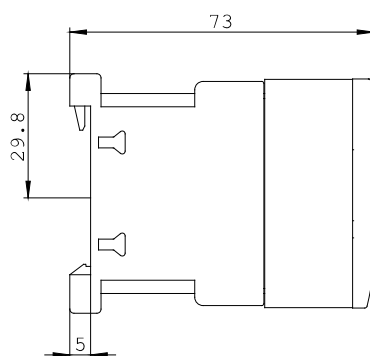
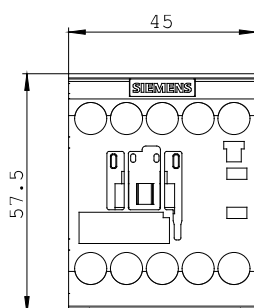
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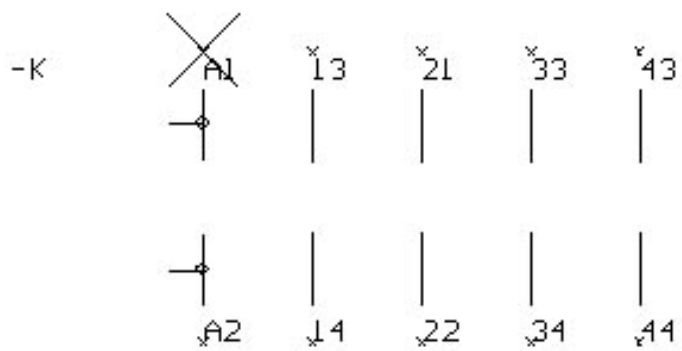
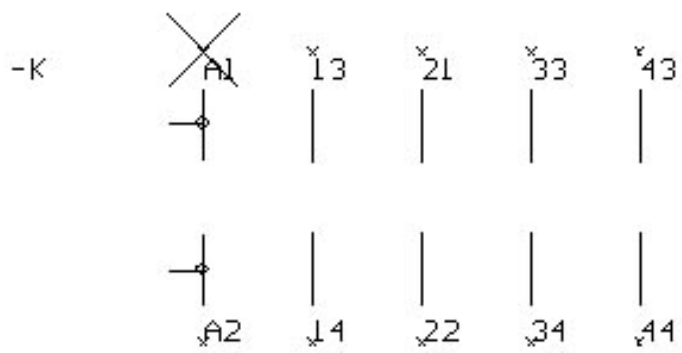
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<http://support.automation.siemens.com/WW/view/en/3RH2131-1JB40/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH2131-1JB40





last change:

Sep 20, 2010