



CONTACTOR RELAY, 2NO+2NC,
AC 110 V 50 HZ / 120 V 60 HZ SCREW CONNECTION,
SIZE S00

General technical data:

product brand name		SIRIUS
Product designation		contactor relay
Size of contactor		S00
Protection class IP / on the front		IP20
Degree of pollution		3
Insulation voltage / with degree of pollution 3 / Rated value	V	690
Installation altitude / at height above sea level / maximum	m	2,000
Ambient temperature		
• during transport	°C	-55 ... +80
• during storage	°C	-55 ... +80
• during operation	°C	-25 ... +60
Contact reliability		one incorrect switching operation of 100 million switching operations (17 V, 1 mA)
Shock resistance		10g / 5 ms and 5g / 10 ms
Surge voltage resistance / Rated value	kV	6
Reference code		
• acc. to DIN EN 61346-2		K
• acc. to DIN 40719 extended according to IEC 204-2 / acc. to IEC 750		K
• acc. to DIN EN 81346-2		K

Mechanical service life (switching cycles)		
• of the contactor / typical		30,000,000
• of the contactor with added auxiliary switch block / typical		10,000,000
• of the contactor with added electronics-compatible auxiliary switch block / typical		5,000,000

Control circuit/ Control:		
Type of voltage / of the control supply voltage		AC
Control supply voltage frequency		
• 1 / Rated value	Hz	50
• 2 / Rated value	Hz	60
Control supply voltage		
• with AC / at 50 Hz / Rated value	V	110
• with AC / at 60 Hz / Rated value	V	120
Operating range factor control supply voltage rated value / of the magnet coil		
• with AC		
• at 50 Hz		0.8 ... 1.1
• with AC		
• at 60 Hz		0.85 ... 1.1
Apparent pick-up power / of the magnet coil / with AC	V·A	27
Apparent holding power / of the magnet coil / with AC	V·A	4.6
Inductive power factor		
• with closing power of the coil		0.8
• with the holding power of the coil		0.27

Auxiliary circuit:		
Product expansion / 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 contacts		2
• delayed switching		0
• instantaneous contact		2
• make-before-break switching		0
• lagging switching		0
Number of NO contacts / for auxiliary contacts		2
• instantaneous contact		2
• delayed switching		0
• make-before-break switching		0
• leading contact		0
Number of CO contacts		

• for auxiliary contacts		0
• of the auxiliary contacts / instantaneous contact		0
Operating current		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V / Rated value	A	6
• at 400 V / Rated value	A	3
• at 500 V / Rated value	A	2
• at 690 V / Rated value	A	1
Operating current / with 1 current path		
• at DC-12		
• at 24 V / Rated value	A	10
• at 110 V / Rated value	A	3
• at 220 V / Rated value	A	1
• at DC-13		
• at 24 V / Rated value	A	10
• at 110 V / Rated value	A	1
• at 220 V / Rated value	A	0.27

Short-circuit:

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

fuse gL/gG: 10 A

Installation/ mounting/ dimensions:

mounting position		+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
Mounting type		screw and snap-on mounting
Width	mm	45
Height	mm	57.5
Depth	mm	72
Spacing required / with side-by-side mounting	mm	0

Connections/ terminals:

Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
Type of connectable conductor cross-section		
• for auxiliary contacts		
• solid		2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²), 2x 4 mm ²
• finely stranded		
• with core 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), 1x 12

Certificates/ approvals:

Certificate of suitability

CSA / UL / CCC / GL / LRS / BV / DNV / RMRS / RINA

General Product Approval

Functional Safety /
Safety of
Machinery

Declaration of
Conformity



CCC



CSA



UL

[Type Examination](#)



EG-Konf.

Test Certificates

[Special Test
Certificate](#)

[Type Test
Certificates/Test
Report](#)

Shipping Approval



ABS



BUREAU
VERITAS



DNV



GL



LRS



PRS

Shipping Approval

other



RINA



RMRS

[other](#)

[Environmental
Confirmations](#)

Safety related data:

Proportion of dangerous failures

- with high demand rate / acc. to SN 31920
- with low demand rate / acc. to SN 31920

%	75
%	40

Protection against electrical shock

finger-safe

T1 value / for proof test interval or service life / acc. to IEC 61508

a	20
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B10 value / with high demand rate

- acc. to SN 31920
- Note

1,000,000
With 0.3 x le

Further information:

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

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

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/>

Cax online generator

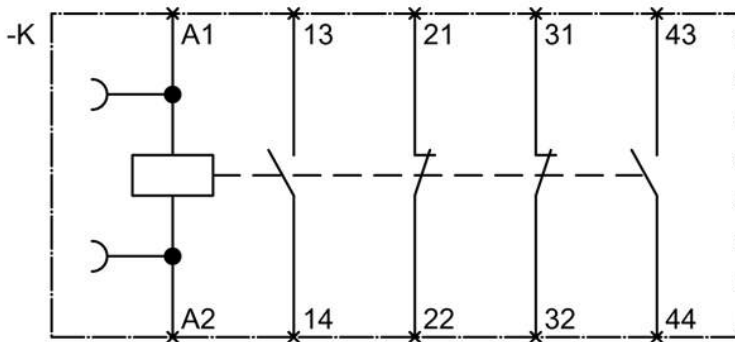
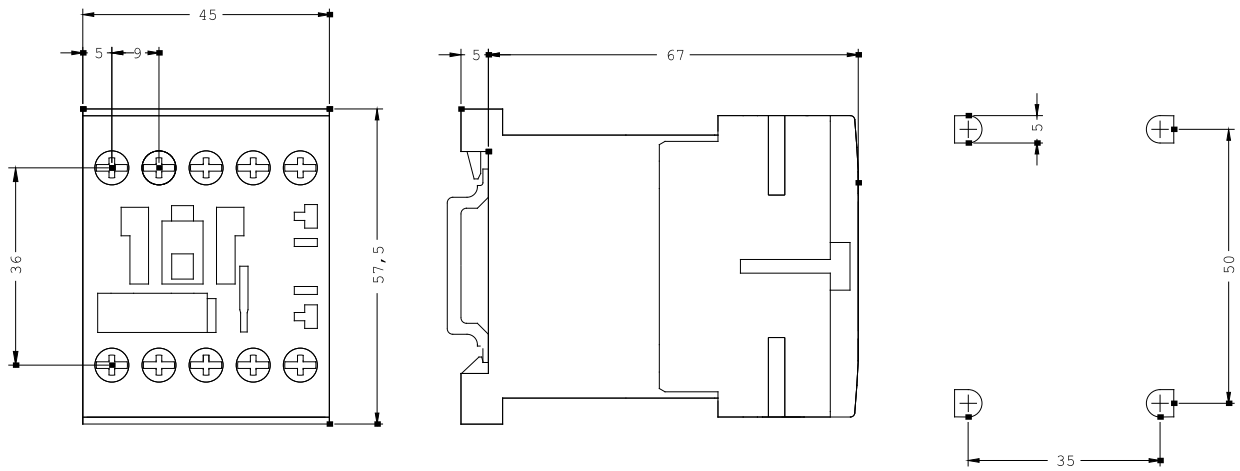
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RH1122-1AK60/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH1122-1AK60



last change:

Nov 3, 2014