



CONTACTOR RELAY, 3NO+1NC, DC 24 V,  
SCREW CONNECTION, SIZE S00

**General details:**

product brand name	SIRIUS	
Product designation	contactor relay	
Size of the 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 a height over sea level / maximum	m	2,000
Ambient temperature		
• during transport	°C	-55 ... +80
• during storage	°C	-55 ... +80
• during operating	°C	-25 ... +60
Contact reliability	one incorrect switching operation of 100 million switching operations (17 V, 1 mA)	
Resistance against shock	10g / 5 ms and 5g / 10 ms	
Impulse voltage resistance / rated value	kV	6
Item designation		
• according to DIN EN 61346-2		K
• according to DIN 40719 extendable after IEC 204-2 / according to IEC 750		K
• according to DIN EN 81346-2		K

<b>Mechanical operating cycles as operating time</b>			
• 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
<b>Control circuit:</b>			
<b>Type of voltage / of the controlled supply voltage</b>			DC
<b>Control supply voltage</b>			
• for DC / rated value	V	24	
<b>operating range factor control supply voltage rated value / of the magnet coil</b>			
• for DC			0.8 ... 1.1
<b>Pull-in power / of the solenoid / for DC</b>	W	3.2	
<b>Holding power / of the solenoid / for DC</b>	W	3.2	
<b>Auxiliary circuit:</b>			
<b>Product extension / auxiliary switch</b>			Yes
<b>Identification number and letter for switching elements</b>			31 E
<b>Contact reliability / of the auxiliary contacts</b>			1 faulty switching per 100 million (17 V, 1 mA)
<b>Number of NC contacts / for auxiliary contacts</b>		1	
• delayed switching		0	
• instantaneous switching		1	
• asynchronous switching		0	
• lagging switching		0	
<b>Number of NO contacts / for auxiliary contacts</b>		3	
• instantaneous switching		3	
• delayed switching		0	
• asynchronous switching		0	
• leading switching		0	
<b>Number of changeover contacts</b>			
• for auxiliary contacts		0	
• of the auxiliary contacts / instantaneous switching		0	
<b>Operating current</b>			
• 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	
<b>Operating current / with 1 current path</b>			

• at DC-12	A	10
• at 24 V / rated value	A	3
• at 110 V / rated value	A	1
• at 220 V / rated value	A	0.27
• at DC-13	A	10
• at 24 V / rated value	A	1
• at 110 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
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#### 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
Type of mounting		screw and snap-on mounting
Width	mm	45
Height	mm	57.5
Depth	mm	72
Distance, to be maintained, to the ranks assembly / sideways	mm	0

#### Connections:

Design of the electrical connection / for auxiliary and control current circuit		screw-type terminals
Type of the connectable conductor cross-section		
• for auxiliary contacts		
• solid		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>
• finely stranded		2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )
• with conductor end processing		2x (20 ... 16), 2x (18 ... 14), 1x 12
• for AWG conductors / for auxiliary contacts		

#### Certificates/approvals:

Verification of suitability	CSA / UL / CCC / GL / LRS / BV / DNV / RMRS / RINA
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General Product Approval	Functional Safety / Safety of Machinery	Declaration of Conformity
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[Type Examination](#)



EG-Konf.

#### Test Certificates

[Special Test Certificate](#)    [Type Test Certificates/Test Report](#)

#### Shipping Approval



#### Shipping Approval

other



[other](#)

[Environmental Confirmations](#)

#### Safety:

Proportion of dangerous failures			
• with high demand rate / according to SN 31920	%	75	
• with low demand rate / according to SN 31920	%	40	
Protection against electrical shock		finger-safe	
T1 value / for proof test interval or service life / according to IEC 61508	a	20	
B10 value / with high demand rate			
• according to SN 31920		1,000,000	
• note		With 0.3 x Ie	

#### 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

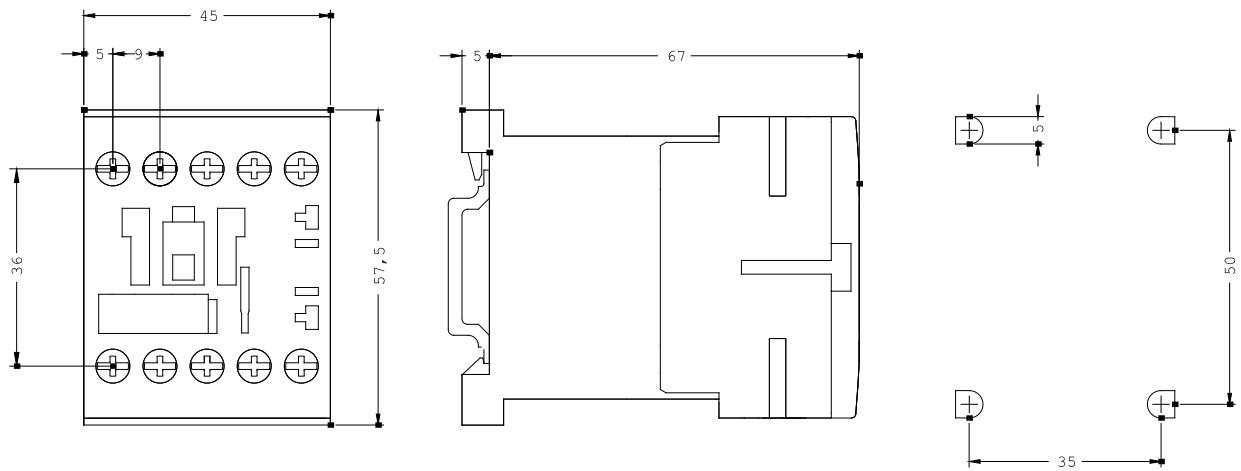
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RH1131-1BB40/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RH1131-1BB40](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH1131-1BB40)



last change:

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