



CONTACTOR RELAY, 3NO+1NC,
AC 42V 50/60HZ, SCREW CONNECTION,
SIZE S00 MOUNTING POSITION VERTICAL

General technical data:		
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
Reference code		
• according to DIN EN 61346-2		K
• according to DIN 40719 extended according to IEC 204-2 / according to IEC 750		K
• according to DIN EN 81346-2		K

Mechanical operating cycles as operating time		
• 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:		
Voltage type / of control feed voltage		AC
Control supply voltage frequency		
• 1 / rated value	Hz	50
• 2 / rated value	Hz	60
Control supply voltage		
• at 50 Hz / at AC / rated value	V	42
• at 60 Hz / at AC / rated value	V	42
Operating range factor control supply voltage rated value / of the magnet coil		
• at 50 Hz		
• for AC		0.8 ... 1.1
• at 60 Hz		
• for AC		0.85 ... 1.1
Apparent pull-in power / of the solenoid / for AC	V·A	27
Apparent holding power / of the solenoid / for AC	V·A	4.6
Inductive power factor		
• with the pull-in power of the coil		0.8
• with the pull-in power of the coil		0.27

Auxiliary circuit:		
Product extension / auxiliary switch		Yes
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 contacts		1
• delayed switching		0
• instantaneous switching		1
• asynchronous switching		0
• lagging switching		0
Number of NO contacts / for auxiliary contacts		3
• instantaneous switching		3
• delayed switching		0
• asynchronous switching		0
• leading switching		0
Number of changeover contacts		

• for auxiliary contacts		0
• of the auxiliary contacts / instantaneous switching		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:

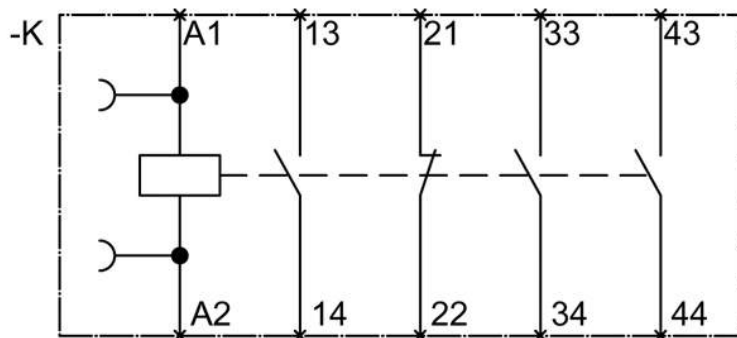
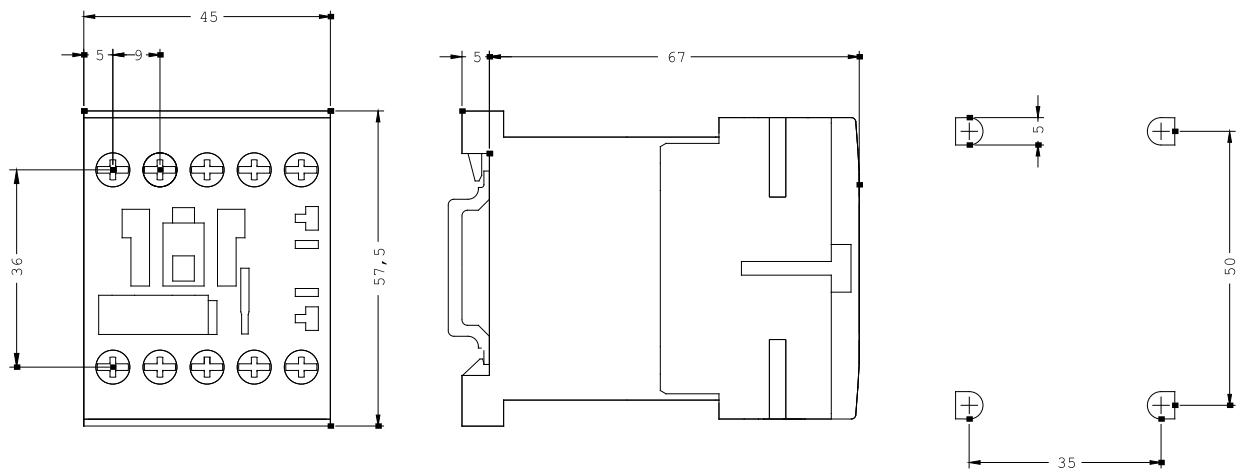
mounting position		standing, on horizontal mounting surface
Mounting type		screw and snap-on mounting
Width	mm	45
Height	mm	57.5
Depth	mm	72
Distance, to be maintained, to the ranks assembly / sideways	mm	0

Connections/ terminals:

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 ²), 2x (0.75 ... 2.5 mm ²), 2x 4 mm ²
• finely stranded		
• with conductor 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:

Verification of suitability		CSA / UL / CCC / GL / LRS / BV / DNV / RMRS / RINA	
General Product Approval		Functional Safety / Safety of Machinery	Declaration of Conformity
 CCC	 CSA	 EAC	 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 / 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) 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/3RH1131-1AD00-1AA0/all			
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH1131-1AD00-1AA0			



last change:

Jul 21, 2014