



CONTACTOR RELAY, 3NO+1NC, DC 220 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
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:		
Type of voltage / of the controlled supply voltage		DC
Control supply voltage / 1	V	220
• for DC / rated value		
Working range factor supply voltage rated value / of the magnet coil		
• for DC		0.8...1.1
Pull-in power / of the solenoid / for DC	W	3.2
Holding power / of the solenoid / for DC	W	3.2

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	0	
• for auxiliary contacts	0	
• of the auxiliary contacts / instantaneous switching		
Operating current / of the auxiliary contacts		
• at AC-12 / maximum	A	10
• at AC-15		
• at 230 V	A	6
• 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	10
• at 110 V	A	3
• at 220 V	A	1
• at DC-13		
• at 24 V	A	10
• at 110 V	A	1
• at 220 V	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:		
Built in orientation	with vertical mounting surface +/-180°rotatable, with vertical mounting surface +/- 30°tiltable to the front and back	
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 /	mm	0

sidewards

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
- finely stranded
 - with conductor 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), 1x 12

Certificates/approvals:

Verification of suitability

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

General Product Approval

☒ CQC

☒ CSA

ROSTEST

Shipping Approval

☒ ABS (American Bureau of Shipping)

☒ BV (Bureau Veritas)

☒ DNV (Det Norske Veritas)

Shipping Approval

other

☒ RINA (Registro Italiano Navale)

☒ RMRS (Russian Maritime Register)

Manufacturer

Safety:

Proportion of dangerous failures

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

% 75

% 40

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

a 20

Protection against electrical shock

finger-safe

B10 value / with high demand rate / according to SN 31920

1,000,000

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

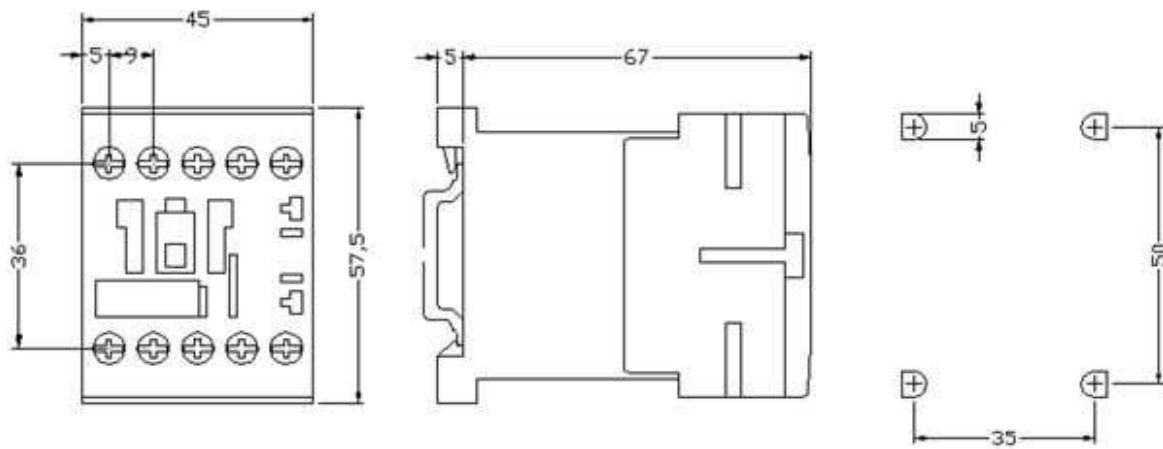
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RH1131-1BM40/all>

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

http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH1131-1BM40



last change:

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