



CONTACTOR RELAY, 3NO+1NC, DC 220V, SIZE S00, SCREW TERMINAL

product brand name	SIRIUS
Product designation	contactor relay
General technical data:	
Size of contactor	S00
Product expansion	
• Auxiliary switch	Yes
Insulation voltage	
• with degree of pollution 3 Rated value	690 V
Surge voltage resistance Rated value	6 kV
Protection class IP	
• on the front	IP20
Degree of pollution	3
Mechanical service life (switching cycles)	
• of the contactor typical	30 000 000
• of the contactor with added electronics-compatible auxiliary switch block typical	5 000 000
• of the contactor with added auxiliary switch block typical	10 000 000
Equipment marking	
• acc. to DIN EN 61346-2	K
• acc. to DIN EN 81346-2	K
Ambient conditions:	
Installation altitude at height above sea level maximum	2 000 m
Ambient temperature	

- during operation
- during storage

-25 ... +60 °C

-55 ... +80 °C

Main circuit:

No-load switching frequency

- at AC
- at DC

10 000 1/h

10 000 1/h

Control circuit/ Control:

Type of voltage of the control supply voltage

DC

Control supply voltage at DC

- Rated value

220 V

Operating range factor control supply voltage rated value of the magnet coil at DC

0.8 ... 1.1

Closing power of the magnet coil at DC

4 W

Holding power of the magnet coil for DC

4 W

Closing delay

- at DC

30 ... 100 ms

Opening delay

- at DC

7 ... 13 ms

Arcing time

10 ... 15 s

Auxiliary circuit:

Number of NC contacts

- for auxiliary contacts
- instantaneous contact

1

1

Number of NO contacts

- for auxiliary contacts
- instantaneous contact

3

3

Identification number and letter for switching elements

31 E

Operating current at AC-12 maximum

10 A

Operating current at AC-15

- at 230 V Rated value
- at 400 V Rated value
- at 500 V Rated value
- at 690 V Rated value

10 A

3 A

2 A

1 A

Operating current with 1 current path at DC-12

- at 24 V Rated value
- at 110 V Rated value
- at 220 V Rated value
- at 440 V Rated value
- at 600 V Rated value

10 A

3 A

1 A

0.3 A

0.15 A

Operating current with 2 current paths in series at DC-12	
• at 24 V Rated value	10 A
• at 60 V Rated value	10 A
• at 110 V Rated value	4 A
• at 220 V Rated value	2 A
• at 440 V Rated value	1.3 A
• at 600 V Rated value	0.65 A
Operating current with 3 current paths in series at DC-12	
• at 24 V Rated value	10 A
• at 60 V Rated value	10 A
• at 110 V Rated value	10 A
• at 220 V Rated value	3.6 A
• at 440 V Rated value	2.5 A
• at 600 V Rated value	1.8 A
Operating frequency at DC-12 maximum	1 000 1/h
Operating current with 1 current path at DC-13	
• at 24 V Rated value	10 A
• at 110 V Rated value	1 A
• at 220 V Rated value	0.3 A
• at 440 V Rated value	0.14 A
• at 600 V Rated value	0.1 A
Operating current with 2 current paths in series at DC-13	
• at 24 V Rated value	10 A
• at 60 V Rated value	3.5 A
• at 110 V Rated value	1.3 A
• at 220 V Rated value	0.9 A
• at 440 V Rated value	0.2 A
• at 600 V Rated value	0.1 A
Operating current with 3 current paths in series at DC-13	
• at 24 V Rated value	10 A
• at 60 V Rated value	4.7 A
• at 110 V Rated value	3 A
• at 220 V Rated value	1.2 A
• at 440 V Rated value	0.5 A
• at 600 V Rated value	0.26 A
Operating frequency at DC-13 maximum	1 000 1/h
Design of the miniature circuit breaker	

<ul style="list-style-type: none"> for short-circuit protection of the auxiliary circuit up to 230 V 	C characteristic: 6 A; 0.4 kA
Contact reliability of the auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
UL/CSA ratings:	
Contact rating of the auxiliary contacts acc. to UL	A600 / Q600
Short-circuit:	
Design of the fuse link <ul style="list-style-type: none"> 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 onto 35 mm standard mounting rail
Height	57.5 mm
Width	45 mm
Depth	73 mm
Required spacing <ul style="list-style-type: none"> for grounded parts <ul style="list-style-type: none"> at the side for live parts <ul style="list-style-type: none"> at the side 	6 mm 6 mm
Connections/ Terminals:	
Type of electrical connection <ul style="list-style-type: none"> for auxiliary and control current circuit 	screw-type terminals
Type of connectable conductor cross-section <ul style="list-style-type: none"> for auxiliary contacts <ul style="list-style-type: none"> single or multi-stranded finely stranded with core end processing for AWG conductors for auxiliary contacts 	2x (0,5 ... 1,5 mm ²), 2x (0,75 ... 2,5 mm ²), 2x 4 mm ² 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) 2x (20 ... 16), 2x (18 ... 14), 2x 12
Safety related data:	
B10 value with high demand rate acc. to SN 31920	1 000 000; With 0.3 x I _e
Proportion of dangerous failures <ul style="list-style-type: none"> with low demand rate acc. to SN 31920 with high demand rate acc. to SN 31920 	40 % 73 %
Product function <ul style="list-style-type: none"> positively driven operation acc. to IEC 60947-5-1 	Yes
T1 value for proof test interval or service life acc. to IEC 61508	20 y
Certificates/ approvals:	

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity	Test Certificates
--------------------------	---------------------------------------	---------------------------	-------------------



[Baumusterbescheinigung](#)



[Typprüfbescheinigung/Werkszeugnis](#)

Test Certificates	Shipping Approval
-------------------	-------------------

[spezielle Prüfbescheinigung](#)



Shipping Approval	other
-------------------	-------



[Umweltbestätigung](#)



Further information

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

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

Industry Mall (Online ordering system)

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

Cax online generator

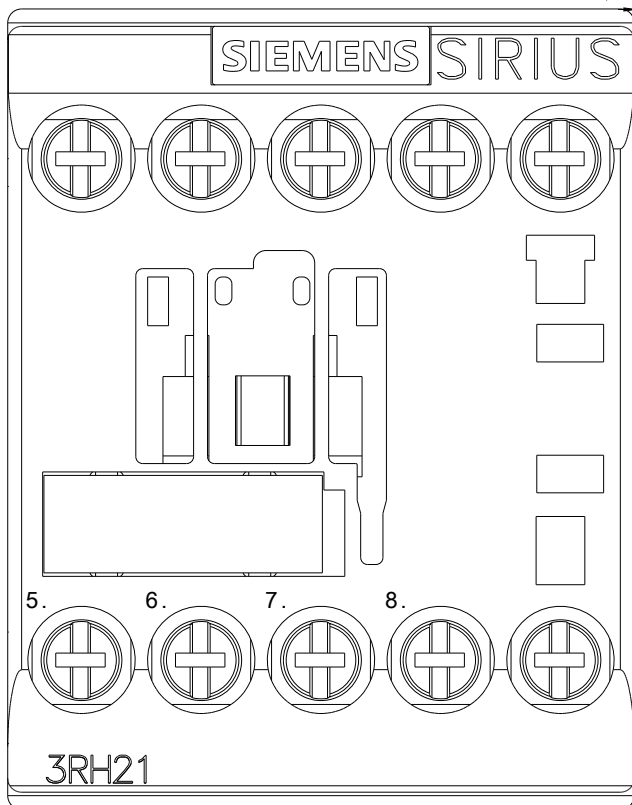
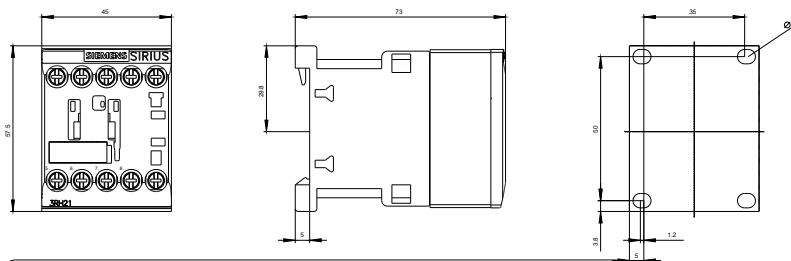
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH21311BM40>

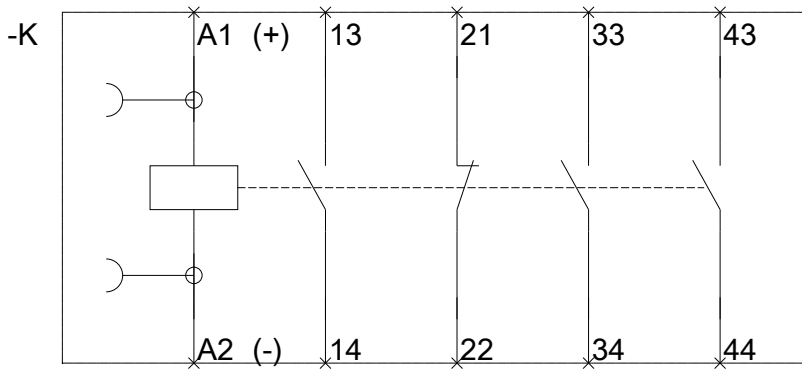
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

<https://support.industry.siemens.com/cs/ww/en/ps/3RH21311BM40>

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH21311BM40&lang=en





last modified:

29.06.2015