



CONTACTOR RELAY, 4NO, AC 24V, 50/60 HZ, SIZE S00, SCREW TERMINAL

<b>product brand name</b>	SIRIUS
<b>Product designation</b>	contactor relay
<b>General technical data:</b>	
<b>Size of contactor</b>	S00
<b>Product expansion</b>	Yes
<ul style="list-style-type: none"> <li>• Auxiliary switch</li> </ul>	Yes
<b>Insulation voltage</b>	690 V
<ul style="list-style-type: none"> <li>• with degree of pollution 3 Rated value</li> </ul>	690 V
<b>Surge voltage resistance Rated value</b>	6 kV
<b>Protection class IP</b>	IP20
<ul style="list-style-type: none"> <li>• on the front</li> </ul>	IP20
<b>Degree of pollution</b>	3
<b>Mechanical service life (switching cycles)</b>	
<ul style="list-style-type: none"> <li>• of the contactor typical</li> </ul>	30 000 000
<ul style="list-style-type: none"> <li>• of the contactor with added electronics-compatible auxiliary switch block typical</li> </ul>	5 000 000
<ul style="list-style-type: none"> <li>• of the contactor with added auxiliary switch block typical</li> </ul>	10 000 000
<b>Equipment marking</b>	
<ul style="list-style-type: none"> <li>• acc. to DIN EN 61346-2</li> </ul>	K
<ul style="list-style-type: none"> <li>• acc. to DIN EN 81346-2</li> </ul>	K
<b>Ambient conditions:</b>	
<b>Installation altitude at height above sea level maximum</b>	2 000 m
<b>Ambient temperature</b>	

- 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

AC

##### Control supply voltage at AC

- at 50 Hz Rated value
- at 60 Hz Rated value
- Rated value

24 V

24 V

50 Hz

##### Control supply voltage frequency 2 Rated value

60 Hz

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

- at 50 Hz
- at 60 Hz

0.8 ... 1.1

0.85 ... 1.1

##### Apparent pick-up power of the magnet coil at AC

37 V·A

##### Inductive power factor with closing power of the coil

0.8

##### Apparent holding power of the magnet coil at AC

5.7 V·A

##### Inductive power factor with the holding power of the coil

0.25

##### Closing delay

- at AC

8 ... 33 ms

##### Opening delay

- at AC

4 ... 15 ms

##### Arcing time

10 ... 15 s

#### Auxiliary circuit:

##### Number of NO contacts

- for auxiliary contacts
- instantaneous contact

4

4

##### Identification number and letter for switching elements

40 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

10 A

<ul style="list-style-type: none"> <li>• at 110 V Rated value</li> <li>• at 220 V Rated value</li> <li>• at 440 V Rated value</li> <li>• at 600 V Rated value</li> </ul>	3 A 1 A 0.3 A 0.15 A
<b>Operating current with 2 current paths in series at DC-12</b>	
<ul style="list-style-type: none"> <li>• at 24 V Rated value</li> <li>• at 60 V Rated value</li> <li>• at 110 V Rated value</li> <li>• at 220 V Rated value</li> <li>• at 440 V Rated value</li> <li>• at 600 V Rated value</li> </ul>	10 A 10 A 4 A 2 A 1.3 A 0.65 A
<b>Operating current with 3 current paths in series at DC-12</b>	
<ul style="list-style-type: none"> <li>• at 24 V Rated value</li> <li>• at 60 V Rated value</li> <li>• at 110 V Rated value</li> <li>• at 220 V Rated value</li> <li>• at 440 V Rated value</li> <li>• at 600 V Rated value</li> </ul>	10 A 10 A 10 A 3.6 A 2.5 A 1.8 A
<b>Operating frequency at DC-12 maximum</b>	1 000 1/h
<b>Operating current with 1 current path at DC-13</b>	
<ul style="list-style-type: none"> <li>• at 24 V Rated value</li> <li>• at 110 V Rated value</li> <li>• at 220 V Rated value</li> <li>• at 440 V Rated value</li> <li>• at 600 V Rated value</li> </ul>	10 A 1 A 0.3 A 0.14 A 0.1 A
<b>Operating current with 2 current paths in series at DC-13</b>	
<ul style="list-style-type: none"> <li>• at 24 V Rated value</li> <li>• at 60 V Rated value</li> <li>• at 110 V Rated value</li> <li>• at 220 V Rated value</li> <li>• at 440 V Rated value</li> <li>• at 600 V Rated value</li> </ul>	10 A 3.5 A 1.3 A 0.9 A 0.2 A 0.1 A
<b>Operating current with 3 current paths in series at DC-13</b>	
<ul style="list-style-type: none"> <li>• at 24 V Rated value</li> <li>• at 60 V Rated value</li> <li>• at 110 V Rated value</li> <li>• at 220 V Rated value</li> <li>• at 440 V Rated value</li> </ul>	10 A 4.7 A 3 A 1.2 A 0.5 A

<ul style="list-style-type: none"> <li>• at 600 V Rated value</li> </ul>	0.26 A
<b>Operating frequency at DC-13 maximum</b>	1 000 1/h
<b>Design of the miniature circuit breaker</b> <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary circuit up to 230 V</li> </ul>	C characteristic: 6 A; 0.4 kA
<b>Contact reliability of the auxiliary contacts</b>	1 faulty switching per 100 million (17 V, 1 mA)

#### UL/CSA ratings:

<b>Contact rating of the auxiliary contacts acc. to UL</b>	A600 / Q600
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#### Short-circuit:

<b>Design of the fuse link</b> <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>	fuse gL/gG: 10 A
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#### Installation/ mounting/ dimensions:

<b>mounting position</b>	+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface
<b>Mounting type</b>	screw and snap-on mounting onto 35 mm standard mounting rail
<b>Height</b>	57.5 mm
<b>Width</b>	45 mm
<b>Depth</b>	73 mm
<b>Required spacing</b> <ul style="list-style-type: none"> <li>• for grounded parts <ul style="list-style-type: none"> <li>— at the side</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— at the side</li> </ul> </li> </ul>	6 mm  6 mm

#### Connections/ Terminals:

<b>Type of electrical connection</b> <ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>	screw-type terminals
<b>Type of connectable conductor cross-section</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— single or multi-stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• for AWG conductors for auxiliary contacts</li> </ul>	2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) 2x (20 ... 16), 2x (18 ... 14), 2x 12

#### Safety related data:

<b>B10 value with high demand rate acc. to SN 31920</b>	1 000 000; With 0.3 x I <sub>e</sub>
<b>Proportion of dangerous failures</b> <ul style="list-style-type: none"> <li>• with low demand rate acc. to SN 31920</li> <li>• with high demand rate acc. to SN 31920</li> </ul>	40 % 73 %
<b>Product function</b> <ul style="list-style-type: none"> <li>• positively driven operation acc. to IEC 60947-5-1</li> </ul>	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
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[Baumusterbescheinigung](#)



[spezielle Prüfbescheinigungen](#)

### Test Certificates

### Shipping Approval

[Typprüfbescheinigung/Werkszeugnis](#)



### 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**

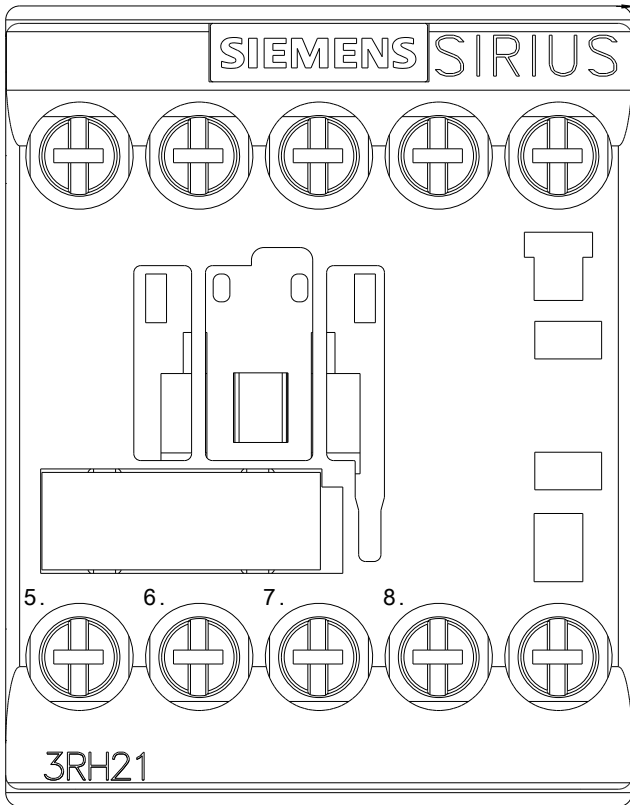
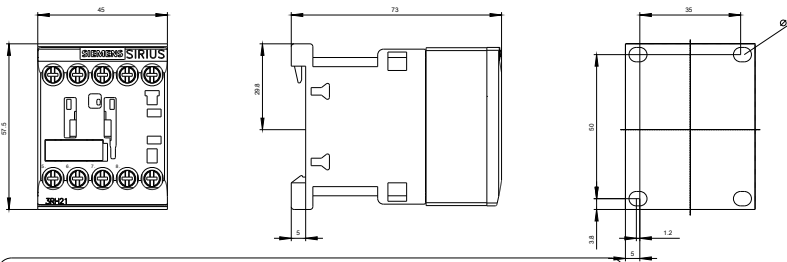
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH21401AB00>

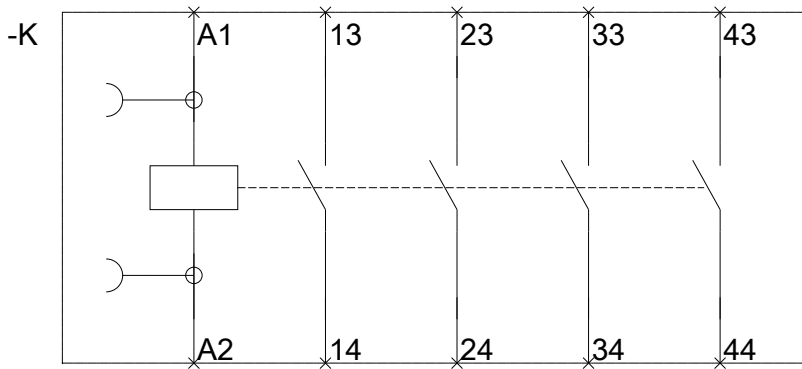
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RH21401AB00>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH21401AB00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH21401AB00&lang=en)





last modified:

29.06.2015