



CONTACTOR, AC-3 4 KW/400 V, AC-1 18 A, CC 24 V 50/60 HZ, 4-POLE, 2 NO + 2 NC, SIZE S00, SCREW CONNECTION

Figure similar

<b>product brand name</b>	SIRIUS
<b>Product designation</b>	power contactor
<b>General technical data:</b>	
<b>Size of contactor</b>	S00
<b>Insulation voltage</b>	
• Rated value	690 V
<b>Degree of pollution</b>	3
<b>Mechanical service life (switching cycles)</b>	
• 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
<b>Protection class IP</b>	
• on the front	IP20
<b>Equipment marking</b>	
• acc. to DIN EN 61346-2	Q
• acc. to DIN EN 81346-2	Q
<b>Ambient conditions:</b>	
<b>Installation altitude at height above sea level maximum</b>	2 000 m
<b>Ambient temperature</b>	
• during operation	-25 ... +60 °C
• during storage	-55 ... +80 °C

**Main circuit:**

<b>Number of poles for main current circuit</b>	4
<b>Number of NC contacts for main contacts</b>	2
<b>Number of NO contacts for main contacts</b>	2
<b>Connectable conductor cross-section in main circuit at AC-1</b>	
• at 60 °C minimum permissible	2.5 mm <sup>2</sup>
• at 40 °C minimum permissible	2.5 mm <sup>2</sup>
<b>Operating current</b>	
• at AC-1 up to 690 V	
— at ambient temperature 40 °C Rated value	18 A
— at ambient temperature 60 °C Rated value	16 A
• at AC-2 at AC-3 at 400 V	
— per NO contact Rated value	9 A
— per NC contact Rated value	9 A
<b>Operating current</b>	
• with 1 current path at DC-1	
— at 24 V Rated value	16 A
— at 110 V Rated value	2.1 A
— at 220 V Rated value	0.8 A
— at 440 V Rated value	0.6 A
• with 2 current paths in series at DC-1	
— at 24 V Rated value	16 A
— at 110 V Rated value	12 A
— at 220 V Rated value	1.6 A
— at 440 V Rated value	0.8 A
<b>Operating current</b>	
• with 1 current path at DC-3 at DC-5	
— at 24 V per NC contact Rated value	16 A
— at 24 V per NO contact Rated value	16 A
— at 110 V per NC contact Rated value	0.075 A
— at 110 V per NO contact Rated value	0.15 A
— at 220 V per NC contact Rated value	0.375 A
— at 220 V per NO contact Rated value	0.75 A
• with 2 current paths in series at DC-3 at DC-5	
— at 110 V per NC contact Rated value	0.175 A
— at 110 V per NO contact Rated value	0.35 A
— at 24 V per NC contact Rated value	16 A
— at 24 V per NO contact Rated value	16 A
<b>Operating power</b>	
• at AC-2 at AC-3	
— at 230 V per NC contact Rated value	3 kW

— at 230 V per NO contact Rated value	3 kW
— at 400 V per NC contact Rated value	4 kW
— at 400 V per NO contact Rated value	4 kW
<b>Active power loss at AC-3 at 400 V for rated value of the operating current per conductor</b>	0.7 W
<b>Operating frequency</b>	
• at AC-1 maximum	1 000 1/h

#### Control circuit/ Control:

<b>Type of voltage of the control supply voltage</b>	AC
<b>Control supply voltage with AC</b>	
• at 50 Hz Rated value	24 V
• at 60 Hz Rated value	24 V
<b>Operating range factor control supply voltage rated value of the magnet coil with AC</b>	
• at 50 Hz	0.8 ... 1.1
• at 60 Hz	0.85 ... 1.1
<b>Apparent pick-up power of the magnet coil with AC</b>	27 V·A
• at 50 Hz	27 V·A
<b>Inductive power factor with closing power of the coil</b>	0.8
• at 50 Hz	0.8
<b>Apparent holding power of the magnet coil with AC</b>	4.4 V·A
• at 50 Hz	4.4 V·A
<b>Inductive power factor with the holding power of the coil</b>	0.27
• at 60 Hz	0.27
<b>Closing delay</b>	
• with AC	8 ... 35 ms
• for DC	25 ... 100 ms
<b>Arcing time</b>	10 ... 15 ms
<b>Control version of the switch operating mechanism</b>	conventional
<b>Residual current of the electronics for control with signal &lt;0&gt;</b>	
• with AC at 230 V maximum permissible	0.003 A

#### Auxiliary circuit:

<b>Number of NC contacts</b>	
• for auxiliary contacts	
— instantaneous contact	0
<b>Number of NO contacts</b>	
• for auxiliary contacts	
— instantaneous contact	0
<b>Operating current at AC-12 maximum</b>	10 A
<b>Operating current at AC-15</b>	

<ul style="list-style-type: none"> <li>• at 230 V Rated value</li> <li>• at 400 V Rated value</li> </ul>	<p>6 A</p> <p>3 A</p>
<b>Operating current at DC-12</b> <ul style="list-style-type: none"> <li>• at 60 V Rated value</li> <li>• at 110 V Rated value</li> <li>• at 220 V Rated value</li> </ul>	<p>6 A</p> <p>3 A</p> <p>1 A</p>
<b>Operating current 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> </ul>	<p>10 A</p> <p>2 A</p> <p>1 A</p> <p>0.3 A</p>
<b>Contact reliability of the auxiliary contacts</b>	<p>1 faulty switching per 100 million (17 V, 1 mA)</p>

### Short-circuit:

<b>Design of the fuse link</b> <ul style="list-style-type: none"> <li>• for short-circuit protection of the main circuit <ul style="list-style-type: none"> <li>— with type of assignment 1 required</li> <li>— with type of assignment 2 required</li> </ul> </li> <li>• for short-circuit protection of the auxiliary switch required</li> </ul>	<p>fuse gL/gG: 35 A</p> <p>fuse gL/gG: 20 A</p> <p>fuse gL/gG: 10 A</p>
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### Installation/ mounting/ dimensions:

<b>mounting position</b>	<p>with vertical mounting surface +/-180° rotatable, with vertical mounting surface +/- 30° tiltable to the front and back</p>
<b>Mounting type</b> <ul style="list-style-type: none"> <li>• Side-by-side mounting</li> </ul>	<p>screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022</p> <p>Yes</p>
<b>Height</b>	<p>57.5 mm</p>
<b>Width</b>	<p>45 mm</p>
<b>Depth</b>	<p>72 mm</p>
<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> </ul>	<p>6 mm</p>

### Connections/ Terminals:

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

### Type of connectable conductor cross-section

- for auxiliary contacts
  - solid
  - single or multi-stranded
  - finely stranded with core end processing
- for AWG conductors for auxiliary contacts

2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>), max. 2x (0.75 ... 4 mm<sup>2</sup>)

2x (0,5 ... 1,5 mm<sup>2</sup>), 2x (0,75 ... 2,5 mm<sup>2</sup>), max. 2x (0,75 ... 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), 1x 12

### Certificates/ approvals:

#### General Product Approval

#### Functional Safety/Safety of Machinery



[Type Examination](#)

#### Declaration of Conformity

#### Test Certificates

#### Shipping Approval



EG-Konf.

[Special Test Certificate](#)



ABS



GL



LRS



RINA

#### Shipping Approval

#### other



RMRS

[Environmental Confirmations](#)

[Confirmation](#)

[other](#)

### 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

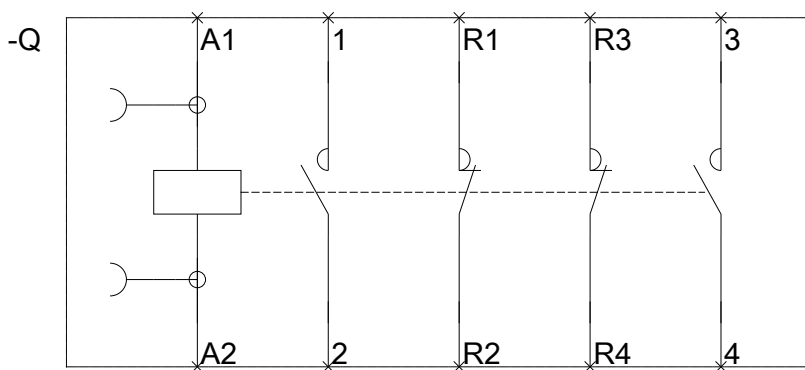
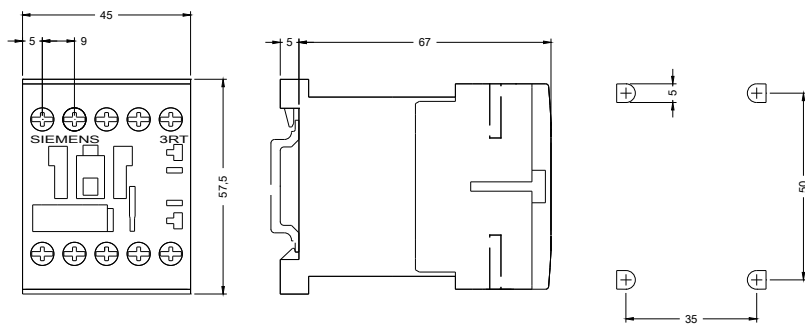
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT15161AB00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RT15161AB00>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RT15161AB00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT15161AB00&lang=en)



last modified:

02.06.2015