

Contactor relay, 3 NO + 1 NC 42 V DC Screw terminal size S00 !!!  
 Phased-out product !!! Successor is SIRIUS 3RH2



Figure similar

<b>Product brand name</b>	SIRIUS
<b>Product designation</b>	Auxiliary contactor
<b>General technical data</b>	
<b>Size of contactor</b>	S00
<b>Product extension</b>	
• Auxiliary switch	Yes
<b>Insulation voltage</b>	
• with degree of pollution 3 rated value	690 V
<b>Degree of pollution</b>	3
<b>Surge voltage resistance rated value</b>	6 kV
<b>Protection class IP</b>	
• on the front	IP20
<b>Shock resistance</b>	10g / 5 ms and 5g / 10 ms
<b>Mechanical service life (switching cycles)</b>	
• of 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
Reference code acc. to DIN EN 81346-2	K
Reference code acc. to DIN EN 61346-2	K

#### Ambient conditions

<b>Installation altitude at height above sea level</b>	
• maximum	2 000 m

#### Control circuit/ Control

<b>Type of voltage of the control supply voltage</b>	DC
<b>Control supply voltage at DC</b>	
• rated value	42 V
<b>Operating range factor control supply voltage rated value of magnet coil at DC</b>	
• initial value	0.8
• Full-scale value	1.1
<b>Closing power of magnet coil at DC</b>	3.2 W
<b>Holding power of magnet coil at DC</b>	3.2 W

#### Auxiliary circuit

<b>Number of NC contacts for auxiliary contacts</b>	1
• instantaneous contact	1
• delayed switching	0
• lagging switching	0
• make-before-break switching	0
<b>Number of NO contacts for auxiliary contacts</b>	3
• instantaneous contact	3
• delayed switching	0
• leading contact	0
• make-before-break switching	0
<b>Number of CO contacts</b>	
• for auxiliary contacts	0
• of auxiliary contacts instantaneous contact	0
<b>Identification number and letter for switching elements</b>	31 E
<b>Operating current at AC-12 maximum</b>	10 A
<b>Operating current at AC-15</b>	
• at 230 V rated value	6 A
• at 400 V rated value	3 A
• at 500 V rated value	2 A
• at 690 V rated value	1 A
<b>Operating current at 1 current path at DC-12</b>	
• 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> </ul>	<p>3 A</p> <p>1 A</p>
<b>Operating current at 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> </ul>	<p>10 A</p> <p>1 A</p> <p>0.27 A</p>
<b>Contact reliability of auxiliary contacts</b>	<p>1 faulty switching per 100 million (17 V, 1 mA)</p>

### Short-circuit protection

<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>	<p>fuse gL/gG: 10 A</p>
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### Installation/ mounting/ dimensions

<b>Mounting position</b>	<p>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface</p>
<b>Mounting type</b>	<p>screw and snap-on mounting</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>• with side-by-side mounting <ul style="list-style-type: none"> <li>— at the side</li> </ul> </li> </ul>	<p>0 mm</p>

### Connections/Terminals

<b>Type of electrical connection</b> <ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>	<p>screw-type terminals</p>
<b>Type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid</li> <li>— finely stranded with core end processing</li> </ul> </li> <li>• at AWG conductors for auxiliary contacts</li> </ul>	<p>2x (0.5 ... 1.5 mm<sup>2</sup>), 2x (0.75 ... 2.5 mm<sup>2</sup>), 2x 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>

### Safety related data

<b>B10 value</b> <ul style="list-style-type: none"> <li>• with high demand rate acc. to SN 31920</li> </ul>	<p>1 000 000; With 0.3 x I<sub>e</sub></p>
<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>	<p>40 %</p> <p>75 %</p>
<b>T1 value for proof test interval or service life acc. to IEC 61508</b>	<p>20 y</p>

### Certificates/approvals

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity
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[Type Examination Certificate](#)



Declaration of Conformity	Test Certificates	Marine / Shipping
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[Miscellaneous](#)

[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



Marine / Shipping	other	Railway
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[Confirmation](#)

[Special Test Certificate](#)

#### Further information

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

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

##### Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH1131-1BD40>

##### Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1131-1BD40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1131-1BD40>

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

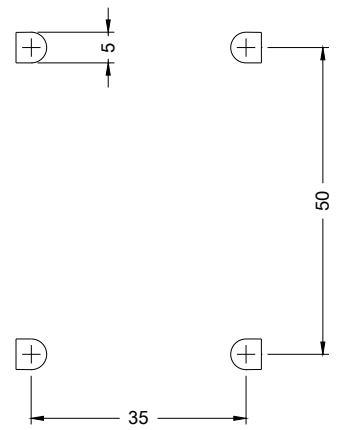
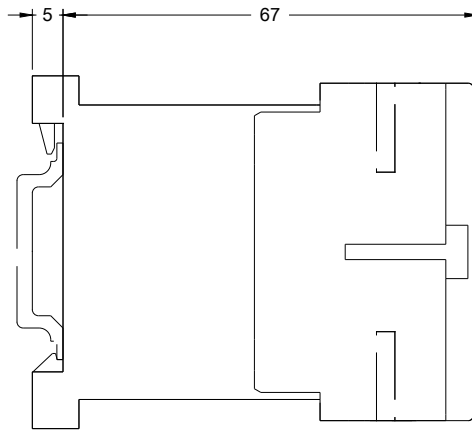
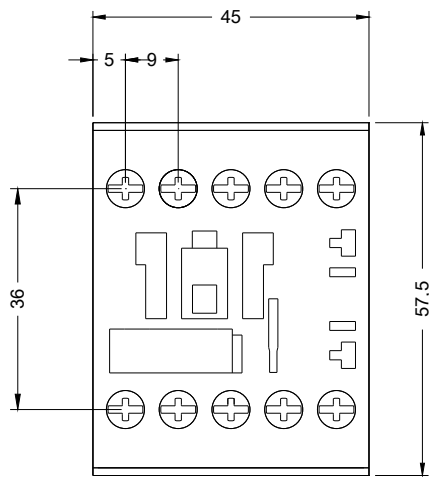
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH1131-1BD40&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1131-1BD40&lang=en)

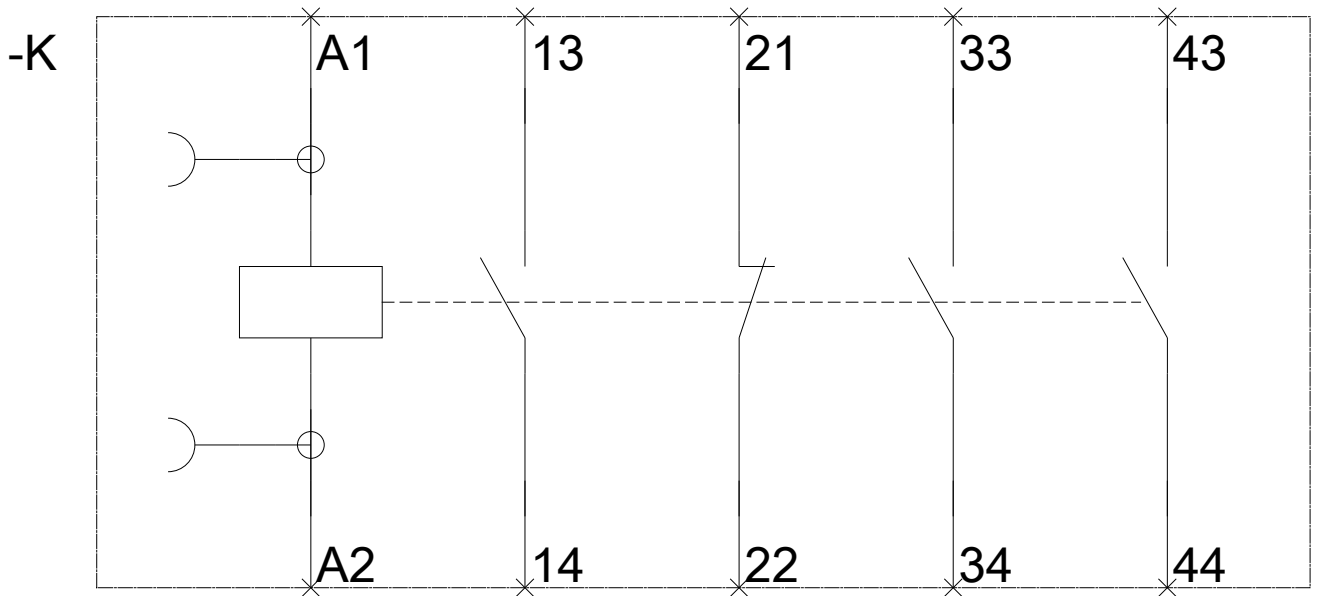
##### Characteristic: Tripping characteristics, I<sup>t</sup>, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1131-1BD40/char>

##### Further characteristics (e.g. electrical endurance, switching frequency)

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH1131-1BD40&objecttype=14&gridview=view1>





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