

Contactor relay, 4 NO 230 V AC 50 / 60 Hz Screw terminal size S00  
!!! Phased-out product !!! Successor is SIRIUS 3RH2 Preferred  
successor type is >>3RH2140-1AP00<<



Product brand name	SIRIUS
Product designation	Auxiliary contactor
General technical data	
Size of contactor	S00
Product extension	Yes
Insulation voltage	690 V
Degree of pollution	3
Surge voltage resistance rated value	6 kV
Protection class IP	IP20
Shock resistance	10g / 5 ms and 5g / 10 ms
Mechanical service life (switching cycles)	30 000 000
of contactor typical	5 000 000
of the contactor with added electronics-compatible auxiliary switch block typical	10 000 000
of the contactor with added auxiliary switch block typical	

Reference code acc. to DIN EN 81346-2	K
Reference code acc. to DIN EN 61346-2	K
<b>Ambient conditions</b>	
Installation altitude at height above sea level	
• maximum	2 000 m
<b>Control circuit/ Control</b>	
Type of voltage of the control supply voltage	AC
Control supply voltage at AC	
• at 50 Hz rated value	230 V
• at 60 Hz rated value	230 V
Control supply voltage frequency	
• 1 rated value	50 Hz
• 2 rated value	60 Hz
Operating range factor control supply voltage rated value of magnet coil at AC	
• at 50 Hz	0.8 ... 1.1
• at 60 Hz	0.85 ... 1.1
Apparent pick-up power of magnet coil at AC	27 V·A
Inductive power factor with closing power of the coil	0.8
Apparent holding power of magnet coil at AC	4.6 V·A
Inductive power factor with the holding power of the coil	0.27
<b>Auxiliary circuit</b>	
Number of NC contacts for auxiliary contacts	0
• instantaneous contact	0
• delayed switching	0
• lagging switching	0
• make-before-break switching	0
Number of NO contacts for auxiliary contacts	4
• instantaneous contact	4
• delayed switching	0
• leading contact	0
• make-before-break switching	0
Number of CO contacts	
• for auxiliary contacts	0
• of auxiliary contacts instantaneous contact	0
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	6 A

<ul style="list-style-type: none"> <li>• at 400 V rated value</li> <li>• at 500 V rated value</li> <li>• at 690 V rated value</li> </ul>	3 A 2 A 1 A
<b>Operating current at 1 current path at DC-12</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>	10 A 3 A 1 A
<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>	10 A 1 A 0.27 A
<b>Contact reliability of auxiliary contacts</b>	1 faulty switching per 100 million (17 V, 1 mA)

### 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>	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
<b>Height</b>	57.5 mm
<b>Width</b>	45 mm
<b>Depth</b>	72 mm
<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>	0 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-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>	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

### Safety related data

<b>B10 value</b> <ul style="list-style-type: none"> <li>• with high demand rate acc. to SN 31920</li> </ul>	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 % 75 %

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
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[Type Examination Certificate](#)



EG-Konf.

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

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



ABS



BUREAU VERITAS



LRS

Marine / Shipping	other	Railway
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PRS



RINA



RMRS



DNVGL.COM/AF

[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=3RH1140-1AP00>

**Cax online generator**

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1140-1AP00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1140-1AP00>

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

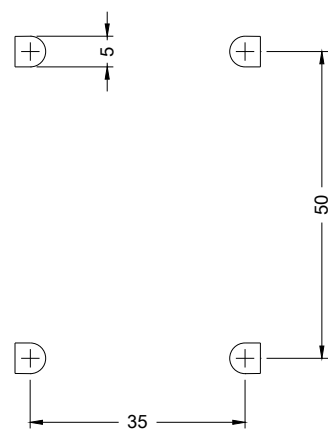
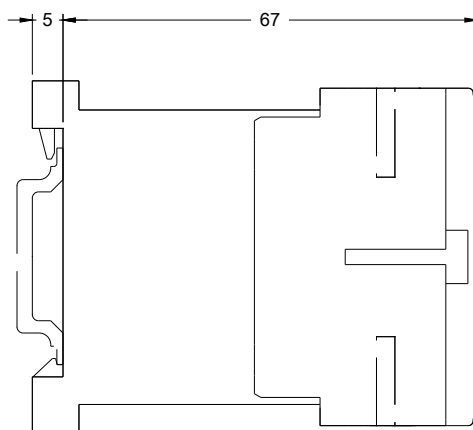
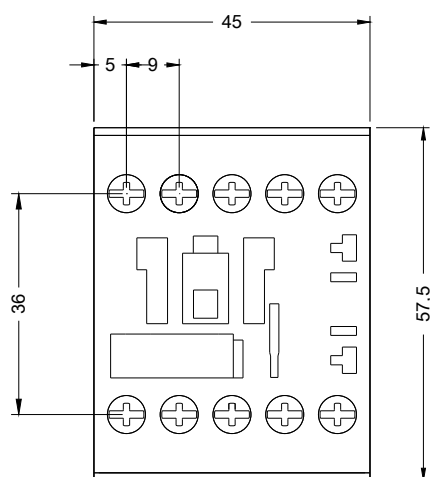
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH1140-1AP00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1140-1AP00&lang=en)

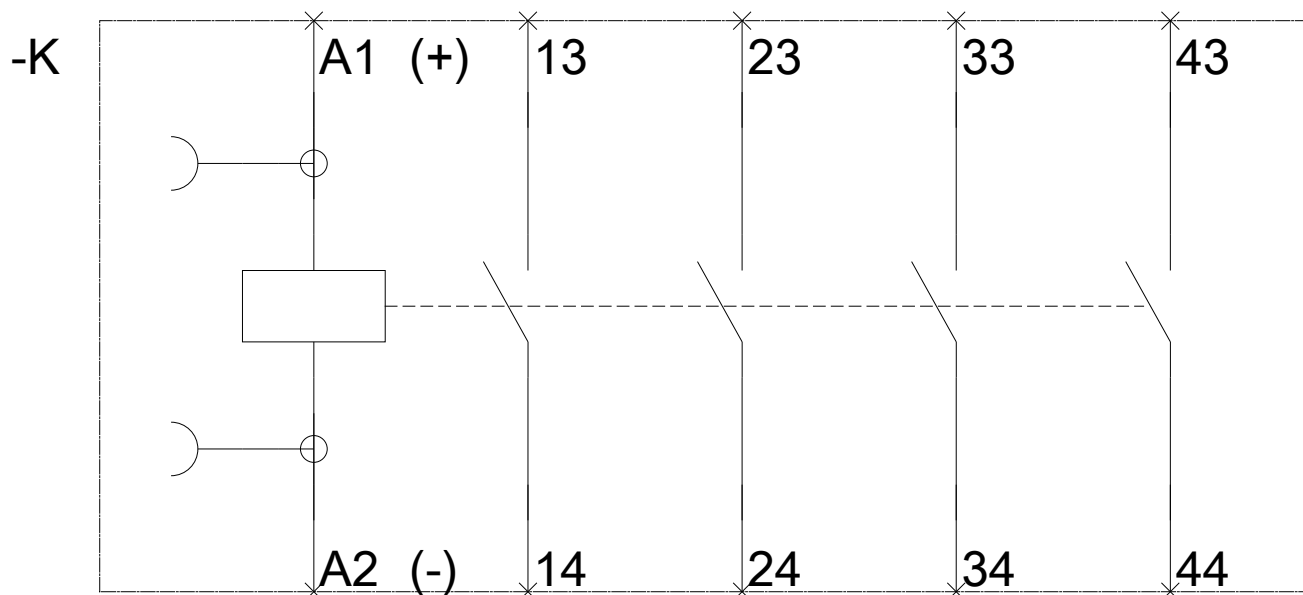
**Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current**

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1140-1AP00/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH1140-1AP00&objecttype=14&gridview=view1>





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05/06/2019