

## Data sheet

## 3RH1921-1FA31

attachable block, 4-pole, 3 NO + 1 NC, EN 50005

General technical data	
Product brand name	SIRIUS
Suitability for use	Contact relay and power contactor
Protection class IP on the front	IP20
Ambient temperature	
• during storage	-55 ... +80 °C
• during operation	-25 ... +60 °C
Mechanical service life (switching cycles) typical	10 000 000
Electrical endurance (switching cycles) at AC-15 at 230 V typical	200 000
Contact reliability	one incorrect switching operation of 100 million switching operations (17 V, 5 mA)
Contact reliability of auxiliary contacts	1 faulty switching per 100 million (17 V, 1 mA)
Insulation voltage with degree of pollution 3 rated value	690 V
Surge voltage resistance rated value	6 kV
Auxiliary circuit	
Number of NC contacts for auxiliary contacts	
• instantaneous contact	1
Number of NO contacts for auxiliary contacts	
• instantaneous contact	3
Operating current of auxiliary contacts at AC-12	
• at 24 V	10 A
• at 230 V	10 A
• maximum	10 A
Operating current	
• of auxiliary contacts	
— at AC-14	
— at 125 V	6 A
— at 250 V	6 A
— at AC-15	
— at 24 V	6 A
— at 230 V	6 A
— at 400 V	3 A
• at AC-15 at 690 V rated value	1 A
Operating current	

- of auxiliary contacts at DC-12
  - at 24 V 10 A
  - at 110 V 3 A
  - at 220 V 1 A
- 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
- 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 current**

- of auxiliary contacts at DC-13
  - at 24 V 6 A
  - at 60 V 2 A
  - at 110 V 1 A
  - at 220 V 0.3 A
- 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
- 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

**Installation/ mounting/ dimensions**

<b>Mounting type</b>	snap-on mounting
<b>Width</b>	44 mm

Height	38 mm
Depth	51 mm

### Connections/Terminals





Type of electrical connection for auxiliary and control current circuit	screw-type terminals
Type of connectable conductor cross-sections <ul style="list-style-type: none"> <li>for auxiliary contacts <ul style="list-style-type: none"> <li>finely stranded</li> <li>with core end processing</li> </ul> </li> <li>at 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 (20 ... 16), 2x (18 ... 14)


### Safety related data

Product function Mirror contact acc. to IEC 60947-4-1 <ul style="list-style-type: none"> <li>Note</li> </ul>	Yes with 3RT1
Product function positively driven operation acc. to IEC 60947-5-1	No

### Certificates/approvals

General Product Approval	Functional Safety/Safety of Machinery	Declaration of Conformity
 CCC  CSA  UL  EAC	<a href="#">Type Examination</a>	 CE EG-Konf.

Test Certificates	Shipping Approval
<a href="#">Type Test Certificates/Test Report</a> <a href="#">Special Test Certificate</a>	 ABS  BUREAU VERITAS  Lloyd's Register LRS  RINA

Shipping Approval	other	Railway
 RMRS	<a href="#">Confirmation</a>	<a href="#">Vibration and Shock</a>

### 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=3RH1921-1FA31>

**Cax online generator**

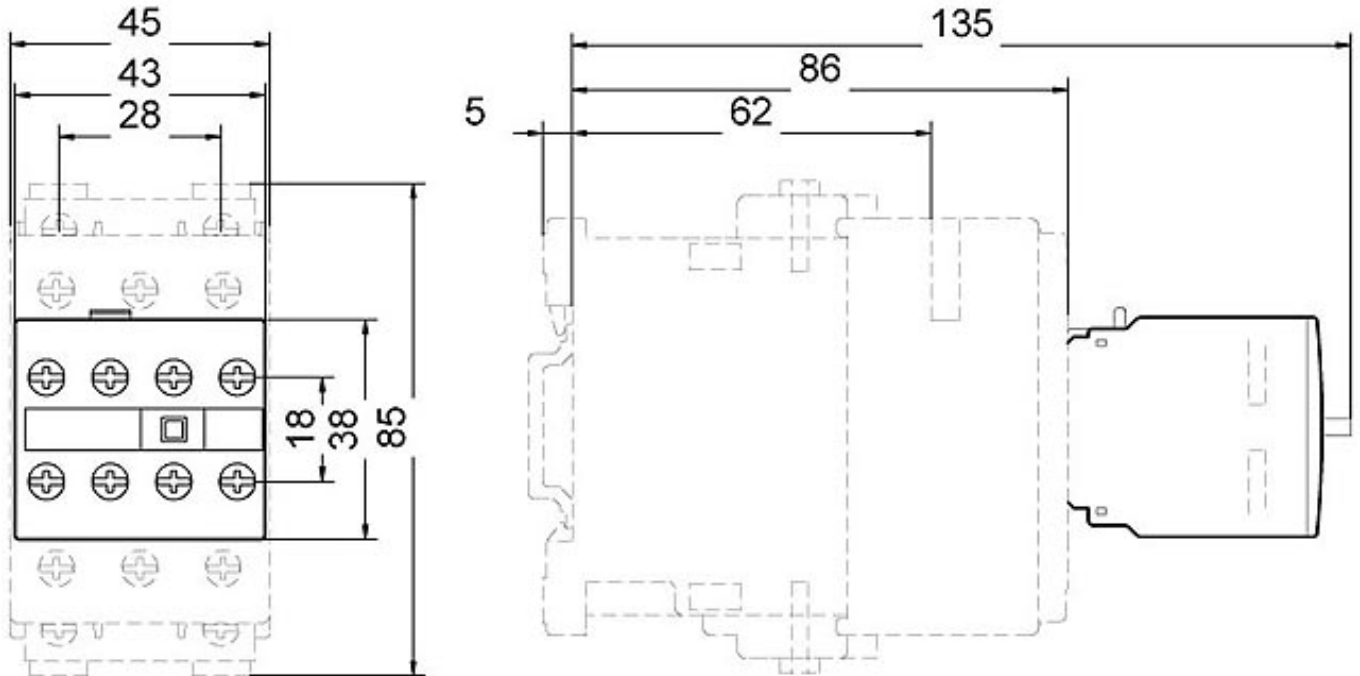
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1921-1FA31>

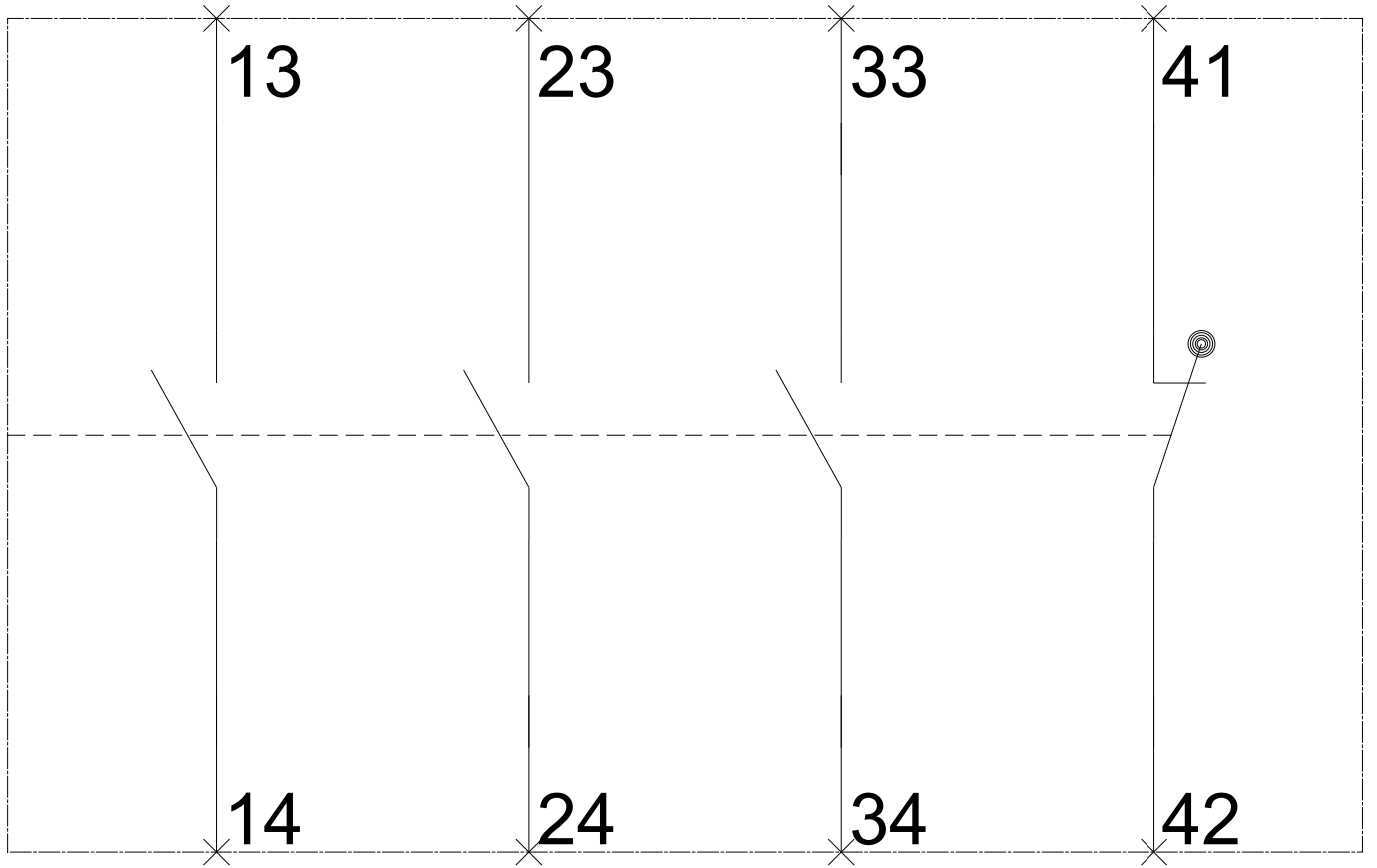
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1921-1FA31>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH1921-1FA31&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1921-1FA31&lang=en)





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