

CONTACTOR RELAY, 3NO+3PE, DC 12 V, SCREW  
CONNECTION, SIZE S00



Figure similar

|                                                                                     |                           |
|-------------------------------------------------------------------------------------|---------------------------|
| product brandname                                                                   | SIRIUS                    |
| Product designation                                                                 | contactor relay           |
| General technical data                                                              |                           |
| Size of contactor                                                                   | S00                       |
| Product extension                                                                   |                           |
| • Auxiliary switch                                                                  | Yes                       |
| Insulation voltage                                                                  |                           |
| • with degree of pollution 3 rated value                                            | 690 V                     |
| Degree of pollution                                                                 | 3                         |
| Surge voltage resistance rated value                                                | 6 kV                      |
| Protection class IP                                                                 |                           |
| • on the front                                                                      | IP20                      |
| Shock resistance                                                                    | 10g / 5 ms and 5g / 10 ms |
| Mechanical service life (switching cycles)                                          |                           |
| • of contactor typical                                                              | 30 000 000                |
| • of the contactor with added electronics-compatible auxiliary switch block typical | 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>                                                                                     |                |
| <ul style="list-style-type: none"> <li>• during operation</li> </ul>                                           | -25 ... +60 °C |
| <ul style="list-style-type: none"> <li>• during storage</li> </ul>                                             | -55 ... +80 °C |
| <ul style="list-style-type: none"> <li>• during transport</li> </ul>                                           | -55 ... +80 °C |
| <b>Control circuit/ Control</b>                                                                                |                |
| <b>Type of voltage of the control supply voltage</b>                                                           | DC             |
| <b>Control supply voltage at DC</b>                                                                            |                |
| <ul style="list-style-type: none"> <li>• rated value</li> </ul>                                                | 12 V           |
| <b>Operating range factor control supply voltage rated value of magnet coil at DC</b>                          | 0.8 ... 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          |
| <b>Auxiliary circuit</b>                                                                                       |                |
| <b>Number of NC contacts</b>                                                                                   |                |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>                                     | 1              |
| — instantaneous contact                                                                                        | 1              |
| — delayed switching                                                                                            | 0              |
| — lagging switching                                                                                            | 0              |
| — make-before-break switching                                                                                  | 0              |
| <b>Number of NO contacts</b>                                                                                   |                |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>                                     | 3              |
| — instantaneous contact                                                                                        | 3              |
| — delayed switching                                                                                            | 0              |
| — leading contact                                                                                              | 0              |
| — make-before-break switching                                                                                  | 0              |
| <b>Number of CO contacts</b>                                                                                   |                |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>                                     | 0              |
| <ul style="list-style-type: none"> <li>• of auxiliary contacts instantaneous contact</li> </ul>                | 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>                                                                              |                |
| <ul style="list-style-type: none"> <li>• at 230 V rated value</li> </ul>                                       | 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<br>2 A<br>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<br>3 A<br>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<br>1 A<br>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 |
|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------|

### 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<br>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)<br>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 %<br>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



CCC



CSA



UL



[Baumusterbescheinigung](#)



EG-Konf.

### Test Certificates

[Typprüfbescheinigung/Werkszeugnis](#)

[spezielle Prüfbescheinigung](#)



ABS



BUREAU VERITAS



DNV



GL



RINA



RMRS

### Shipping Approval

### other



LRS



PRS

[Umweltbestätigung](#)

[sonstig](#)

### other

[Bestätigungen](#)

## 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=3RH1131-1BA40>

Cax online generator

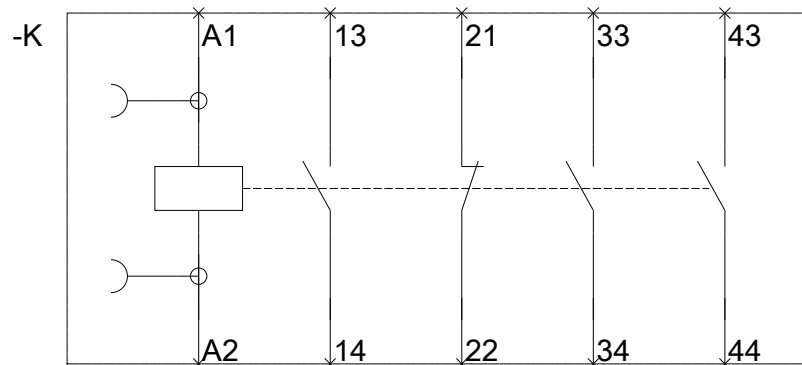
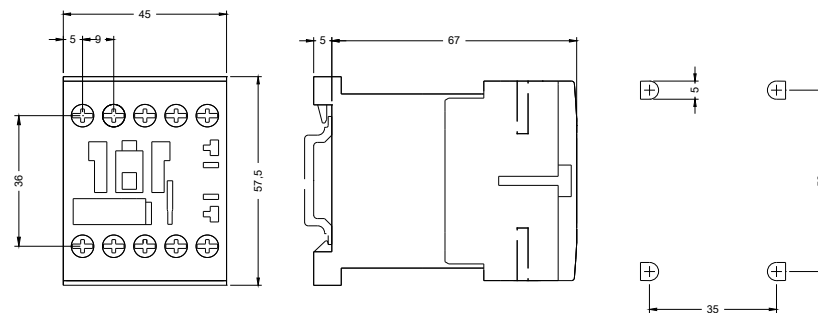
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1131-1BA40>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1131-1BA40>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH1131-1BA40&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1131-1BA40&lang=en)



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