

CONTACTOR RELAY, 4 NO, AC 110 V 50 HZ / 120 V 60 HZ CAGE  
CLAMP-CONN., SIZE S00



Figure similar

|                                                                                     |                           |
|-------------------------------------------------------------------------------------|---------------------------|
| product brand name                                                                  | 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>                                                           | AC             |
| <b>Control supply voltage at AC</b>                                                                            |                |
| <ul style="list-style-type: none"> <li>• at 50 Hz rated value</li> </ul>                                       | 110 V          |
| <ul style="list-style-type: none"> <li>• at 60 Hz rated value</li> </ul>                                       | 120 V          |
| <b>Control supply voltage frequency 1 rated value</b>                                                          | 50 Hz          |
| <b>Control supply voltage frequency 2 rated value</b>                                                          | 60 Hz          |
| <b>Operating range factor control supply voltage rated value of magnet coil at AC</b>                          |                |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> </ul>                                                   | 0.8 ... 1.1    |
| <ul style="list-style-type: none"> <li>• at 60 Hz</li> </ul>                                                   | 0.85 ... 1.1   |
| <b>Apparent pick-up power of magnet coil at AC</b>                                                             | 27 V·A         |
| <b>Inductive power factor with closing power of the coil</b>                                                   | 0.8            |
| <b>Apparent holding power of magnet coil at AC</b>                                                             | 4.6 V·A        |
| <b>Inductive power factor with the holding power of the coil</b>                                               | 0.27           |
| <b>Auxiliary circuit</b>                                                                                       |                |
| <b>Number of NC contacts</b>                                                                                   |                |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>                                     | 0              |
| <ul style="list-style-type: none"> <li>— instantaneous contact</li> </ul>                                      | 0              |
| <ul style="list-style-type: none"> <li>— delayed switching</li> </ul>                                          | 0              |
| <ul style="list-style-type: none"> <li>— lagging switching</li> </ul>                                          | 0              |
| <ul style="list-style-type: none"> <li>— make-before-break switching</li> </ul>                                | 0              |
| <b>Number of NO contacts</b>                                                                                   |                |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul>                                     | 4              |
| <ul style="list-style-type: none"> <li>— instantaneous contact</li> </ul>                                      | 4              |
| <ul style="list-style-type: none"> <li>— delayed switching</li> </ul>                                          | 0              |
| <ul style="list-style-type: none"> <li>— leading contact</li> </ul>                                            | 0              |
| <ul style="list-style-type: none"> <li>— make-before-break switching</li> </ul>                                | 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> | 40 E                                            |
| Operating current at AC-12 maximum                             | 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                                            |
| • at 110 V rated value                                         | 3 A                                             |
| • at 220 V rated value                                         | 1 A                                             |
| <b>Operating current at 1 current path at DC-13</b>            |                                                 |
| • at 24 V rated value                                          | 10 A                                            |
| • at 110 V rated value                                         | 1 A                                             |
| • at 220 V rated value                                         | 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>                                  |                  |
| • for short-circuit protection of the auxiliary switch required | 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>                | 60 mm                                                                                                                                |
| <b>Width</b>                 | 45 mm                                                                                                                                |
| <b>Depth</b>                 | 73 mm                                                                                                                                |
| <b>Required spacing</b>      |                                                                                                                                      |
| • with side-by-side mounting |                                                                                                                                      |
| — at the side                | 0 mm                                                                                                                                 |

#### Connections/Terminals

|                                                     |                       |
|-----------------------------------------------------|-----------------------|
| <b>Type of electrical connection</b>                |                       |
| • for auxiliary and control current circuit         | Cage Clamp terminals  |
| <b>Type of connectable conductor cross-sections</b> |                       |
| • for auxiliary contacts                            |                       |
| — solid                                             | 2x (0.25 ... 2.5 mm²) |
| — finely stranded with core end processing          | 2x (0.25 ... 1.5 mm²) |

- finely stranded without core end processing
- at AWG conductors for auxiliary contacts

2x (0.25 ... 2.5 mm<sup>2</sup>)

2x (24 ... 14)

## Safety related data

### B10 value

- with high demand rate acc. to SN 31920

1 000 000; With 0.3 x I<sub>e</sub>

### Proportion of dangerous failures

- with low demand rate acc. to SN 31920
- with high demand rate acc. to SN 31920

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



[Baumusterbescheinigung](#)



EG-Konf.

### Test Certificates

### Shipping Approval

[spezielle Prüfbescheinigungen](#)

[Typprüfbescheinigung/Werkszeugnis](#)



ABS



BUREAU VERITAS



DNV



GL

### Shipping Approval

### other



LRS



PRS



RINA



RMRS

[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=3RH1140-2AK60>

**Cax online generator**

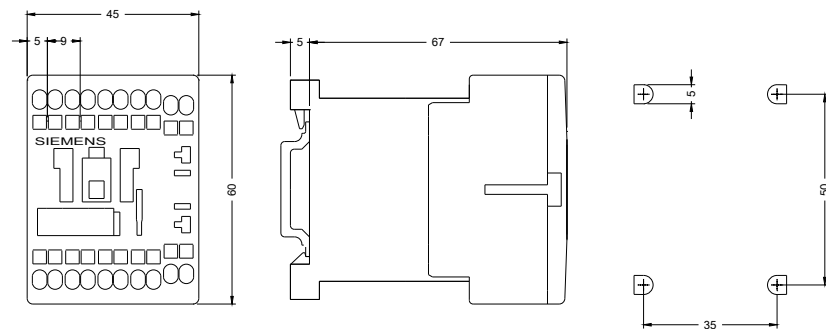
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1140-2AK60>

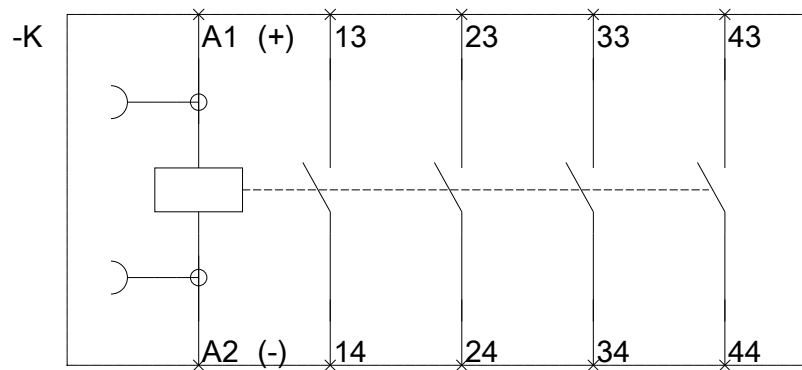
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1140-2AK60>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH1140-2AK60&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1140-2AK60&lang=en)





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