

CONTACTOR RELAY, 4NO+4NC, AC 110 V, 50 HZ, SCREW CONNECTION, SIZE S00



|                                            |                           |
|--------------------------------------------|---------------------------|
| product brandname                          | SIRIUS                    |
| Product designation                        | contactor relay           |
| General technical data                     |                           |
| Size of contactor                          | S00                       |
| Product extension                          |                           |
| • Auxiliary switch                         | No                        |
| 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                     | 10 000 000                |
| Equipment marking                          |                           |
| • acc. to DIN EN 61346-2                   | K                         |
| • acc. to DIN EN 81346-2                   | K                         |

|                                                                                       |                |
|---------------------------------------------------------------------------------------|----------------|
| <b>Ambient conditions</b>                                                             |                |
| <b>Installation altitude at height above sea level maximum</b>                        | 2 000 m        |
| <b>Ambient temperature</b>                                                            |                |
| • during operation                                                                    | -25 ... +60 °C |
| • during storage                                                                      | -55 ... +80 °C |
| • during transport                                                                    | -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>                                                   |                |
| • at 50 Hz rated value                                                                | 110 V          |
| • at 60 Hz rated value                                                                | 110 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> |                |
| • at 50 Hz                                                                            | 0.8 ... 1.1    |
| • at 60 Hz                                                                            | 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>                                                          |                |
| • for auxiliary contacts                                                              | 4              |
| — instantaneous contact                                                               | 4              |
| — delayed switching                                                                   | 0              |
| — lagging switching                                                                   | 0              |
| — make-before-break switching                                                         | 0              |
| <b>Number of NO contacts</b>                                                          |                |
| • for auxiliary contacts                                                              | 4              |
| — instantaneous contact                                                               | 4              |
| — 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>                        | 44 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                                            |
| • 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>                | 57.5 mm                                                                                                                              |
| <b>Width</b>                 | 45 mm                                                                                                                                |
| <b>Depth</b>                 | 111 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         | screw-type terminals                                  |
| <b>Type of connectable conductor cross-sections</b> |                                                       |
| • for auxiliary contacts                            |                                                       |
| — solid                                             | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² |
| — finely stranded with core end processing          | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)           |
| • at AWG conductors for auxiliary contacts          | 2x (20 ... 16), 2x (18 ... 14), 1x 12                 |

### Safety related data

|                                          |                                      |
|------------------------------------------|--------------------------------------|
| <b>B10 value</b>                         |                                      |
| • with high demand rate acc. to SN 31920 | 1 000 000; With 0.3 x I <sub>e</sub> |
| <b>Proportion of dangerous failures</b>  |                                      |

- with low demand rate acc. to SN 31920 40 %
- with high demand rate acc. to SN 31920 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](#)



### Test Certificates

### Shipping Approval

[spezielle Prüfbescheinigungen](#)

[Typprüfbescheinigung/Werkszeugnis](#)



### other

[Umweltbestätigung](#)

[sonstig](#)

[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=3RH1344-1AF00>

### Cax online generator

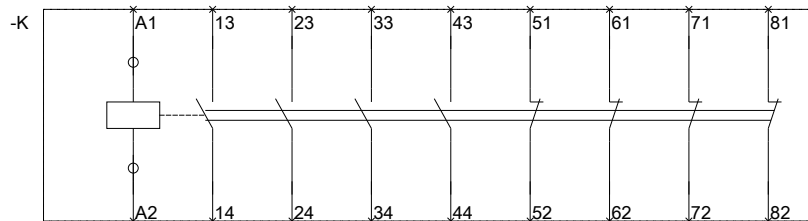
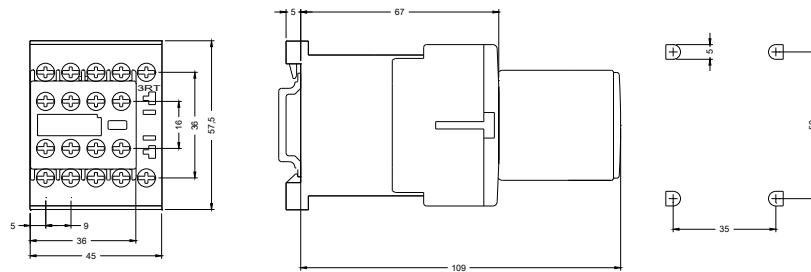
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH1344-1AF00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RH1344-1AF00>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH1344-1AF00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH1344-1AF00&lang=en)



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