

CONTACTOR RELAY, 4NO+4NC, AC 230 V,  
50/60 HZ, SCREW CONNECTION, SIZE S00



General technical data:

|                                                                                 |    |                                                                                    |
|---------------------------------------------------------------------------------|----|------------------------------------------------------------------------------------|
| product brand name                                                              |    | SIRIUS                                                                             |
| Product designation                                                             |    | contactor relay                                                                    |
| Size of the contactor                                                           |    | S00                                                                                |
| Protection class IP / on the front                                              |    | IP20                                                                               |
| Degree of pollution                                                             |    | 3                                                                                  |
| Insulation voltage / with degree of pollution 3 / rated value                   | V  | 690                                                                                |
| Installation altitude / at a height over sea level / maximum                    | m  | 2,000                                                                              |
| Ambient temperature                                                             |    |                                                                                    |
| • during transport                                                              | °C | -55 ... +80                                                                        |
| • during storage                                                                | °C | -55 ... +80                                                                        |
| • during operating                                                              | °C | -25 ... +60                                                                        |
| Contact reliability                                                             |    | one incorrect switching operation of 100 million switching operations (17 V, 1 mA) |
| Resistance against shock                                                        |    | 10g / 5 ms and 5g / 10 ms                                                          |
| Impulse voltage resistance / rated value                                        | kV | 6                                                                                  |
| Reference code                                                                  |    |                                                                                    |
| • according to DIN EN 61346-2                                                   |    | K                                                                                  |
| • according to DIN 40719 extended according to IEC 204-2 / according to IEC 750 |    | K                                                                                  |
| • according to DIN EN 81346-2                                                   |    | K                                                                                  |

|                                                                                       |  |     |                                                 |
|---------------------------------------------------------------------------------------|--|-----|-------------------------------------------------|
| <b>Mechanical operating cycles as operating time</b>                                  |  |     | 10,000,000                                      |
| • of the contactor / typical                                                          |  |     |                                                 |
| <b>Control circuit/ Control:</b>                                                      |  |     |                                                 |
| <b>Voltage type / of control feed voltage</b>                                         |  |     | AC                                              |
| <b>Control supply voltage frequency</b>                                               |  |     |                                                 |
| • 1 / rated value                                                                     |  | Hz  | 50                                              |
| • 2 / rated value                                                                     |  | Hz  | 60                                              |
| <b>Control supply voltage</b>                                                         |  |     |                                                 |
| • at 50 Hz / at AC / rated value                                                      |  | V   | 230                                             |
| • at 60 Hz / at AC / rated value                                                      |  | V   | 230                                             |
| <b>Operating range factor control supply voltage rated value / of the magnet coil</b> |  |     |                                                 |
| • at 50 Hz                                                                            |  |     | 0.8 ... 1.1                                     |
| • for AC                                                                              |  |     |                                                 |
| • at 60 Hz                                                                            |  |     | 0.85 ... 1.1                                    |
| • for AC                                                                              |  |     |                                                 |
| <b>Apparent pull-in power / of the solenoid / for AC</b>                              |  | V·A | 27                                              |
| <b>Apparent holding power / of the solenoid / for AC</b>                              |  | V·A | 4.6                                             |
| <b>Inductive power factor</b>                                                         |  |     |                                                 |
| • with the pull-in power of the coil                                                  |  |     | 0.8                                             |
| • with the pull-in power of the coil                                                  |  |     | 0.27                                            |
| <b>Auxiliary circuit:</b>                                                             |  |     |                                                 |
| <b>Product extension / auxiliary switch</b>                                           |  |     | No                                              |
| <b>Identification number and letter for switching elements</b>                        |  |     | 44 E                                            |
| <b>Contact reliability / of the auxiliary contacts</b>                                |  |     | 1 faulty switching per 100 million (17 V, 1 mA) |
| <b>Number of NC contacts / for auxiliary contacts</b>                                 |  |     | 4                                               |
| • delayed switching                                                                   |  |     | 0                                               |
| • instantaneous switching                                                             |  |     | 4                                               |
| • asynchronous switching                                                              |  |     | 0                                               |
| • lagging switching                                                                   |  |     | 0                                               |
| <b>Number of NO contacts / for auxiliary contacts</b>                                 |  |     | 4                                               |
| • instantaneous switching                                                             |  |     | 4                                               |
| • delayed switching                                                                   |  |     | 0                                               |
| • asynchronous switching                                                              |  |     | 0                                               |
| • leading switching                                                                   |  |     | 0                                               |
| <b>Number of changeover contacts</b>                                                  |  |     |                                                 |
| • for auxiliary contacts                                                              |  |     | 0                                               |
| • of the auxiliary contacts / instantaneous switching                                 |  |     | 0                                               |
| <b>Operating current</b>                                                              |  |     |                                                 |

|                                                |   |      |
|------------------------------------------------|---|------|
| • at AC-12 / maximum                           | A | 10   |
| • at AC-15                                     |   |      |
| • at 230 V / rated value                       | A | 6    |
| • at 400 V / rated value                       | A | 3    |
| • at 500 V / rated value                       | A | 2    |
| • at 690 V / rated value                       | A | 1    |
| <b>Operating current / with 1 current path</b> |   |      |
| • at DC-12                                     |   |      |
| • at 24 V / rated value                        | A | 10   |
| • at 110 V / rated value                       | A | 3    |
| • at 220 V / rated value                       | A | 1    |
| • at DC-13                                     |   |      |
| • at 24 V / rated value                        | A | 10   |
| • at 110 V / rated value                       | A | 1    |
| • at 220 V / rated value                       | A | 0.27 |

#### Short-circuit:

**Design of the fuse link / 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>Width</b>                                                        | mm | 45                                                                                                                                   |
| <b>Height</b>                                                       | mm | 57.5                                                                                                                                 |
| <b>Depth</b>                                                        | mm | 111                                                                                                                                  |
| <b>Distance, to be maintained, to the ranks assembly / sideways</b> | mm | 0                                                                                                                                    |

#### Connections/ terminals:

|                                                                                        |  |                                                       |
|----------------------------------------------------------------------------------------|--|-------------------------------------------------------|
| <b>Design of the electrical connection / for auxiliary and control current circuit</b> |  | screw-type terminals                                  |
| <b>Type of the connectable conductor cross-section</b>                                 |  |                                                       |
| • for auxiliary contacts                                                               |  |                                                       |
| • solid                                                                                |  | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), 2x 4 mm² |
| • finely stranded                                                                      |  |                                                       |
| • with conductor end processing                                                        |  | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)           |
| • for AWG conductors / for auxiliary contacts                                          |  | 2x (20 ... 16), 2x (18 ... 14), 1x 12                 |

#### Certificates/ approvals:

|                                    |  |                                                    |
|------------------------------------|--|----------------------------------------------------|
| <b>Verification of suitability</b> |  | CSA / UL / CCC / GL / LRS / BV / DNV / RMRS / RINA |
|------------------------------------|--|----------------------------------------------------|

|                          |                                               |                              |
|--------------------------|-----------------------------------------------|------------------------------|
| General Product Approval | Functional Safety /<br>Safety of<br>Machinery | Declaration of<br>Conformity |
|--------------------------|-----------------------------------------------|------------------------------|



[Type Examination](#)



|                   |                   |
|-------------------|-------------------|
| Test Certificates | Shipping Approval |
|-------------------|-------------------|

[Special Test  
Certificate](#)

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other

[other](#)

[Environmental  
Confirmations](#)

#### Safety related data:

|                                                                                    |   |               |
|------------------------------------------------------------------------------------|---|---------------|
| <b>Proportion of dangerous failures</b>                                            |   |               |
| • with high demand rate / according to SN 31920                                    | % | 75            |
| • with low demand rate / according to SN 31920                                     | % | 40            |
| <b>Protection against electrical shock</b>                                         |   | finger-safe   |
| <b>T1 value / for proof test interval or service life / according to IEC 61508</b> | a | 20            |
| <b>B10 value / with high demand rate</b>                                           |   |               |
| • according to SN 31920                                                            |   | 1,000,000     |
| • note                                                                             |   | With 0.3 x Ie |

#### Further information:

**Information- and Downloadcenter (Catalogs, Brochures,...)**

<http://www.siemens.com/industrial-controls/catalogs>

**Industry Mall (Online ordering system)**

<https://mall.industry.siemens.com/>

**Cax online generator**

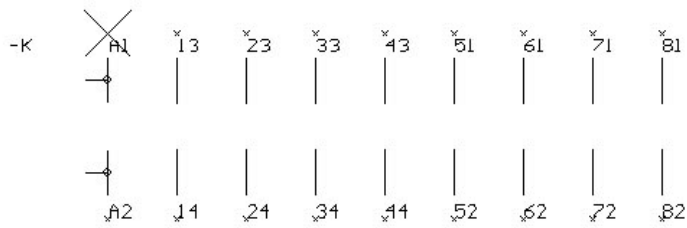
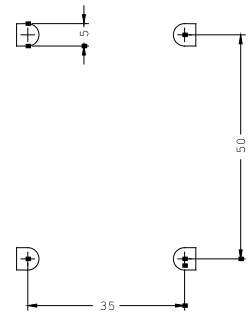
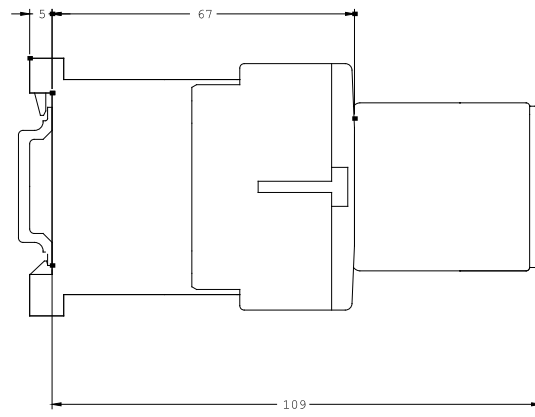
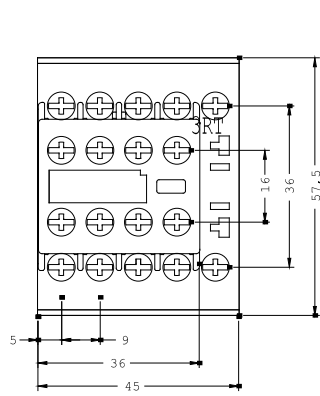
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RH1344-1AP00/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RH1344-1AP00](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RH1344-1AP00)



last change:

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