



CONTACTOR RELAY, 3NO+1NC, AC 24 V, 50 HZ, SCREW CONNECTION, SIZE S00

Figure similar

|                     |                 |
|---------------------|-----------------|
| product brand name  | SIRIUS          |
| Product designation | contactor relay |

General technical data:

|                                                                                     |            |
|-------------------------------------------------------------------------------------|------------|
| Insulation voltage                                                                  |            |
| • with degree of pollution 3 Rated value                                            | 690 V      |
| Degree of pollution                                                                 | 3          |
| Surge voltage resistance Rated value                                                | 6 kV       |
| Mechanical service life (switching cycles)                                          |            |
| • of the contactor typical                                                          | 30 000 000 |
| • of the contactor with added electronics-compatible auxiliary switch block typical | 5 000 000  |
| • of the contactor with added auxiliary switch block typical                        | 10 000 000 |
| Protection class IP                                                                 |            |
| • on the front                                                                      | IP20       |
| Equipment marking                                                                   |            |
| • acc. to DIN EN 61346-2                                                            | K          |
| • acc. to DIN EN 81346-2                                                            | K          |

Control circuit/ Control:

|                                                |       |
|------------------------------------------------|-------|
| Type of voltage of the control supply voltage  | AC    |
| Control supply voltage with AC                 |       |
| • at 50 Hz Rated value                         | 24 V  |
| • at 60 Hz Rated value                         | 24 V  |
| • Rated value                                  | 50 Hz |
| Control supply voltage frequency 2 Rated value | 60 Hz |

|                                                                                             |              |
|---------------------------------------------------------------------------------------------|--------------|
| <b>Operating range factor control supply voltage rated value of the magnet coil with AC</b> |              |
| • at 50 Hz                                                                                  | 0.8 ... 1.1  |
| • at 60 Hz                                                                                  | 0.85 ... 1.1 |

#### Auxiliary circuit:

|                                                                |                                                 |
|----------------------------------------------------------------|-------------------------------------------------|
| <b>Number of NC contacts</b>                                   |                                                 |
| • for auxiliary contacts                                       | 1                                               |
| — instantaneous contact                                        | 1                                               |
| — delayed switching                                            | 0                                               |
| — lagging switching                                            | 0                                               |
| — make-before-break switching                                  | 0                                               |
| <b>Number of NO contacts</b>                                   |                                                 |
| • for auxiliary contacts                                       | 3                                               |
| — instantaneous contact                                        | 3                                               |
| — delayed switching                                            | 0                                               |
| — leading contact                                              | 0                                               |
| — make-before-break switching                                  | 0                                               |
| <b>Number of CO contacts</b>                                   |                                                 |
| • for auxiliary contacts                                       | 0                                               |
| • of the auxiliary contacts instantaneous contact              | 0                                               |
| <b>Product expansion Auxiliary switch</b>                      | Yes                                             |
| <b>Identification number and letter for switching elements</b> | 31 E                                            |
| <b>Operating current at AC-15</b>                              |                                                 |
| • at 230 V Rated value                                         | 6 A                                             |
| • at 400 V Rated value                                         | 3 A                                             |
| • at 690 V Rated value                                         | 1 A                                             |
| <b>Contact reliability of the auxiliary contacts</b>           | 1 faulty switching per 100 million (17 V, 1 mA) |

#### Short-circuit:

|                                                                 |                  |
|-----------------------------------------------------------------|------------------|
| <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>                 | 72 mm                                                                                                                                |
| <b>Required spacing</b>      |                                                                                                                                      |
| • with side-by-side mounting |                                                                                                                                      |

— at the side

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-section</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>• for 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 4 mm <sup>2</sup><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14), 1x 12 |

#### Safety related data:

|                                                                                                                                                                                  |                                      |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------|
| <b>B10 value with high demand rate acc. to SN 31920</b>                                                                                                                          | 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 %                         |
| <b>T1 value for proof test interval or service life acc. to IEC 61508</b>                                                                                                        | 20 y                                 |
| <b>Protection against electrical shock</b>                                                                                                                                       | finger-safe                          |

#### Mechanical data:

|                          |     |
|--------------------------|-----|
| <b>Size of contactor</b> | S00 |
|--------------------------|-----|

#### Ambient conditions:

|                                                                                                                                                   |                                                    |
|---------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|
| <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><li>• during storage</li><li>• during transport</li></ul> | -25 ... +60 °C<br>-55 ... +80 °C<br>-55 ... +80 °C |

#### Certificates/ approvals:

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



[Type Examination](#)



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

[Type Test Certificates/Test Report](#)

[Special Test Certificate](#)



| Shipping Approval | other |
|-------------------|-------|
|-------------------|-------|



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#### Further information

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

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

**Industry Mall (Online ordering system)**

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

**Cax online generator**

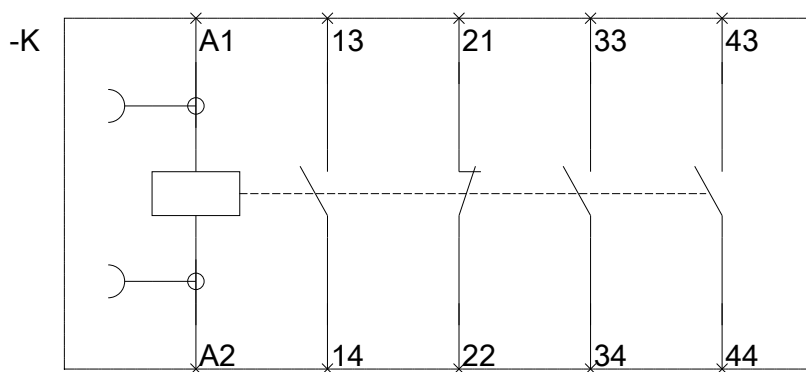
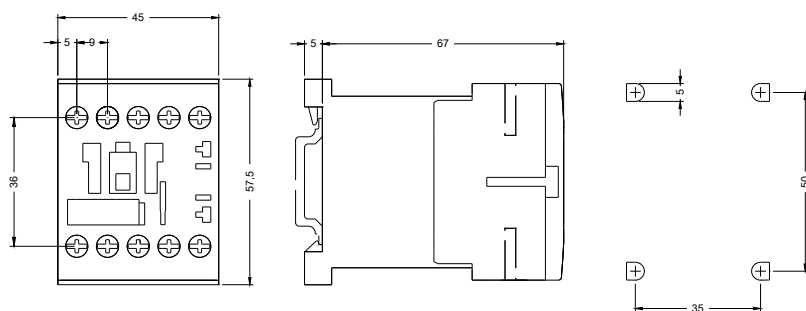
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH11311AB00>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RH11311AB00>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RH11311AB00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RH11311AB00&lang=en)



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