



CONTACTOR RELAY, 3NO+1NC, AC 240V, 50/60 HZ, SIZE S00, SCREW TERMINAL

Figure similar

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

General technical data:

|   |    |            |
|---|----|------------|
| <b>Insulation voltage</b>   |    |            |
| <ul style="list-style-type: none"> <li>with degree of pollution 3 Rated value</li> </ul>  | V  | 690        |
| <b>Degree of pollution</b>  |    | 3          |
| <b>Surge voltage resistance Rated value</b>   | kV | 6          |
| <b>Mechanical service life (switching cycles)</b>   |    |            |
| <ul style="list-style-type: none"> <li>of the contactor typical</li> </ul>  |    | 30 000 000 |
| <ul style="list-style-type: none"> <li>of the contactor with added electronics-compatible auxiliary switch block typical</li> </ul> |    | 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>Protection class IP</b>  |    |            |
| <ul style="list-style-type: none"> <li>on the front</li> </ul>  |    | IP20       |
| <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          |

Control circuit/ Control:

|  |    |     |
|--|----|-----|
| <b>Type of voltage of the control supply voltage</b>                   |    | AC  |
| <b>Control supply voltage with AC</b>                                  |    |     |
| <ul style="list-style-type: none"> <li>at 50 Hz Rated value</li> </ul> | V  | 240 |
| <ul style="list-style-type: none"> <li>at 60 Hz Rated value</li> </ul> | V  | 240 |
| <ul style="list-style-type: none"> <li>Rated value</li> </ul>          | Hz | 50  |
| <b>Control supply voltage frequency 2 Rated value</b>                  | Hz | 60  |

|  |     |                             |
|--|-----|-----------------------------|
| <b>Operating range factor control supply voltage rated value of the magnet coil with AC</b>                                      |     |                             |
| <ul style="list-style-type: none"> <li>• at 50 Hz</li> <li>• at 60 Hz</li> </ul>   |     | 0.8 ... 1.1<br>0.85 ... 1.1 |
| <b>Apparent pick-up power of the magnet coil with AC</b>   | V·A | 37                          |
| <b>Apparent holding power of the magnet coil with AC</b>   | V·A | 5.7                         |
| <b>Inductive power factor</b>  |     |                             |
| <ul style="list-style-type: none"> <li>• with closing power of the coil</li> <li>• with the holding power of the coil</li> </ul> |     | 0.8<br>0.25                 |

#### Auxiliary circuit:

|  |             |   |
|--|-------------|---|
| <b>Number of NC contacts</b>   |             |   |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>— instantaneous contact</li> </ul>                              |             | 1<br>1  |
| <b>Number of NO contacts</b>   |             |   |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> <li>— instantaneous contact</li> </ul>                              |             | 3<br>3  |
| <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>  |             |   |
| <ul style="list-style-type: none"> <li>• at 230 V Rated value</li> <li>• at 400 V Rated value</li> <li>• at 690 V Rated value</li> </ul> | A<br>A<br>A | 10<br>3<br>1                                    |
| <b>Design of the miniature circuit breaker</b>   |             |   |
| <ul style="list-style-type: none"> <li>• for short-circuit protection of the auxiliary circuit up to 230 V</li> </ul>                    |             | C characteristic: 6 A; 0.4 kA                   |
| <b>Contact reliability of the auxiliary contacts</b>   |             | 1 faulty switching per 100 million (17 V, 1 mA) |

#### UL/CSA ratings:

|  |  |             |
|--|--|-------------|
| <b>Contact rating of the auxiliary contacts acc. to UL</b> |  | A600 / Q600 |
|--|--|-------------|

#### Short-circuit:

|   |  |                  |
|---|--|------------------|
| <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 onto 35 mm standard mounting rail   |
| <b>Height</b>            | mm | 57.5   |
| <b>Width</b>             | mm | 45   |
| <b>Depth</b>             | mm | 73   |

|  |    |   |
|--|----|---|
| <b>Required spacing</b>  |    |   |
| <ul style="list-style-type: none"> <li>• for grounded parts <ul style="list-style-type: none"> <li>— at the side</li> </ul> </li> <li>• for live parts <ul style="list-style-type: none"> <li>— at the side</li> </ul> </li> </ul> | mm | 6 |
|  | mm | 6 |

#### Connections/ Terminals:

|   |  |   |
|---|--|---|
| <b>Type of electrical connection</b>  |  | screw-type terminals  |
| <ul style="list-style-type: none"> <li>• for auxiliary and control current circuit</li> </ul>   |  |   |
| <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>— single or multi-stranded</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), 2x 12 |

#### Safety related data:

|   |     |                           |
|---|-----|---------------------------|
| <b>B10 value with high demand rate acc. to SN 31920</b>   |     | 1 000 000                 |
| <ul style="list-style-type: none"> <li>• Note</li> </ul>  |     | 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>73                  |
| <b>Failure rate [FIT] with low demand rate acc. to SN 31920</b>   | FIT | 100                       |
| <b>T1 value for proof test interval or service life acc. to IEC 61508</b>   | y   | 20                        |
| <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>                                 | m  | 2 000                      |
| <b>Ambient temperature</b>   |    |                            |
| <ul style="list-style-type: none"> <li>• during operation</li> <li>• during storage</li> </ul> | °C | -25 ... +60<br>-55 ... +80 |

#### Certificates/ approvals:

|  |  |   |   |   |  |
|--|--|---|---|---|--|
| General Product Approval   |  |   |   | Declaration of Conformity   | Test Certificates                        |
| <br>CCC | <br>CSA | <br>UL |  | <br>EG-Konf. | <a href="#">Special Test Certificate</a> |

|  |  |   |  |   |  |
|--|--|---|--|---|--|
| Test Certificates                                  | Shipping Approval  |   |  |   |  |
| <a href="#">Type Test Certificates/Test Report</a> | <br>ABS | <br>BUREAU VERITAS | <br>DNV | <br>GL | <br>LRS |

|  |   |   |   |  |  |
|--|---|---|---|--|--|
| Shipping Approval  | other   |   |   |  |  |
| <br>PRS | <br>RINA | <br>RMRS | <a href="#">Environmental Confirmations</a> | <br>VDE |  |

#### 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**

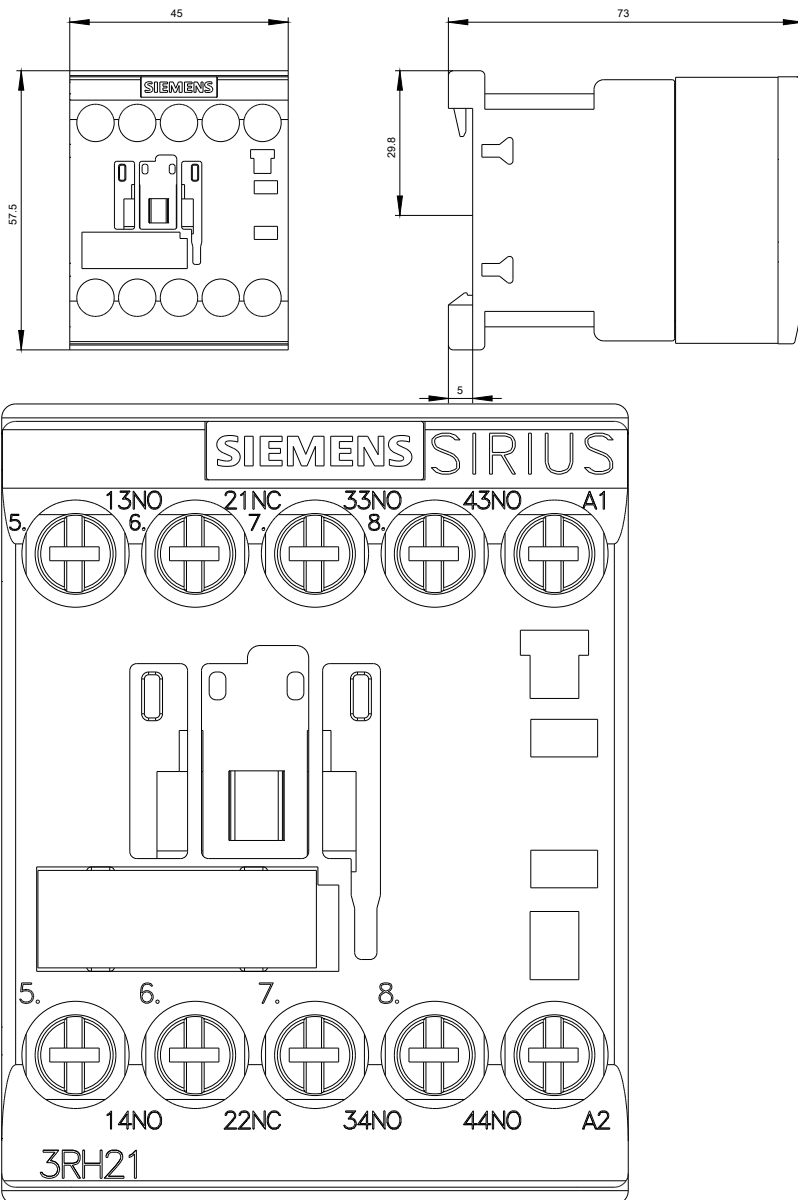
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RH21311AU00>

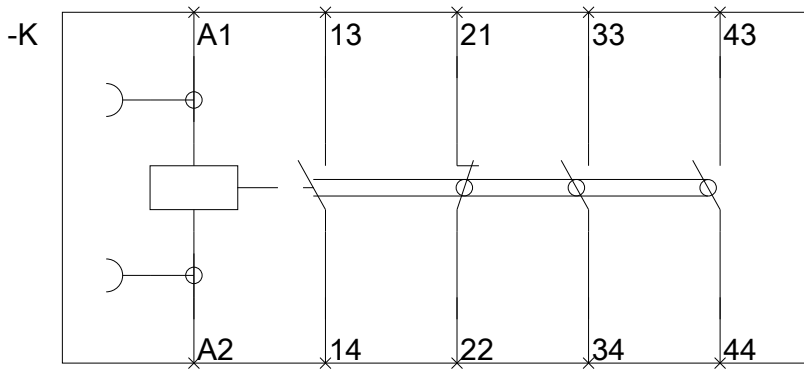
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3RH21311AU00/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3RH21311AU00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RH21311AU00&lang=en)





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