

CONTACTOR RELAY, 2NO+2NC, AC 240V, 50/60 HZ, SIZE S00, SCREW TERMINAL



Figure similar

|  |                            |
|--|----------------------------|
| product brand name                         | SIRIUS                     |
| Product designation                        | contactor relay            |
| <b>General technical data:</b>             |                            |
| Size of contactor                          | S00                        |
| Product expansion                          |                            |
| • Auxiliary switch                         | Yes                        |
| Insulation voltage                         |                            |
| • with degree of pollution 3 Rated value   | 690 V                      |
| Surge voltage resistance Rated value       | 6 kV                       |
| Protection class IP                        |                            |
| • on the front                             | IP20                       |
| Degree of pollution                        | 3                          |
| Shock resistance                           |                            |
| • at rectangular impulse                   |                            |
| — at AC                                    | 7,3g / 5 ms, 4,7g / 10 ms  |
| • with sine pulse                          |                            |
| — at AC                                    | 11,4g / 5 ms, 7,3g / 10 ms |
| Mechanical service life (switching cycles) |                            |
| • of the contactor typical                 | 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>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          |

#### 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> </ul> | -25 ... +60 °C |
| <ul style="list-style-type: none"> <li>• during storage</li> </ul>   | -55 ... +80 °C |

#### Main circuit:

|   |            |
|---|------------|
| <b>No-load switching frequency</b>                        |            |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul> | 10 000 1/h |
| <ul style="list-style-type: none"> <li>• at DC</li> </ul> | 10 000 1/h |

#### Control circuit/ Control:

|   |              |
|---|--------------|
| <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>                  | 240 V        |
| <ul style="list-style-type: none"> <li>• at 60 Hz Rated value</li> </ul>                  | 240 V        |
| <ul style="list-style-type: none"> <li>• Rated value</li> </ul>                           | 50 Hz        |
| <b>Control supply voltage frequency 2 Rated value</b>                                     | 60 Hz        |
| <b>Operating range factor control supply voltage rated value of the 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 the magnet coil at AC</b>                                    | 37 V·A       |
| <b>Inductive power factor with closing power of the coil</b>                              | 0.8          |
| <b>Apparent holding power of the magnet coil at AC</b>                                    | 5.7 V·A      |
| <b>Inductive power factor with the holding power of the coil</b>                          | 0.25         |
| <b>Closing delay</b>  |              |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                 | 8 ... 33 ms  |
| <b>Opening delay</b>  |              |
| <ul style="list-style-type: none"> <li>• at AC</li> </ul>                                 | 4 ... 15 ms  |
| <b>Arcing time</b>  | 10 ... 15 s  |

#### Auxiliary circuit:

|  |   |
|--|---|
| <b>Number of NC contacts</b>   |   |
| <ul style="list-style-type: none"> <li>• for auxiliary contacts</li> </ul> | 2 |

|  |           |
|--|-----------|
| — instantaneous contact  | 2         |
| <b>Number of NO contacts</b>                                     |           |
| • for auxiliary contacts   | 2         |
| — instantaneous contact  | 2         |
| <b>Identification number and letter for switching elements</b>   | 22 E      |
| Operating current at AC-12 maximum                               | 10 A      |
| <b>Operating current at AC-15</b>                                |           |
| • at 230 V Rated value   | 10 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       |
| • at 440 V Rated value   | 0.3 A     |
| • at 600 V Rated value   | 0.15 A    |
| <b>Operating current with 2 current paths in series at DC-12</b> |           |
| • at 24 V Rated value  | 10 A      |
| • at 60 V Rated value  | 10 A      |
| • at 110 V Rated value   | 4 A       |
| • at 220 V Rated value   | 2 A       |
| • at 440 V Rated value   | 1.3 A     |
| • at 600 V Rated value   | 0.65 A    |
| <b>Operating current with 3 current paths in series at DC-12</b> |           |
| • at 24 V Rated value  | 10 A      |
| • at 60 V Rated value  | 10 A      |
| • at 110 V Rated value   | 10 A      |
| • at 220 V Rated value   | 3.6 A     |
| • at 440 V Rated value   | 2.5 A     |
| • at 600 V Rated value   | 1.8 A     |
| <b>Operating frequency at DC-12 maximum</b>                      | 1 000 1/h |
| <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   | 0.3 A     |
| • at 440 V Rated value   | 0.14 A    |
| • at 600 V Rated value   | 0.1 A     |

|  |  |
|--|--|
| <b>Operating current with 2 current paths in series at DC-13</b>   |  |
| <ul style="list-style-type: none"> <li>• at 24 V Rated value</li> <li>• at 60 V Rated value</li> <li>• at 110 V Rated value</li> <li>• at 220 V Rated value</li> <li>• at 440 V Rated value</li> <li>• at 600 V Rated value</li> </ul> | <p>10 A</p> <p>3.5 A</p> <p>1.3 A</p> <p>0.9 A</p> <p>0.2 A</p> <p>0.1 A</p> |
| <b>Operating current with 3 current paths in series at DC-13</b>   |  |
| <ul style="list-style-type: none"> <li>• at 24 V Rated value</li> <li>• at 60 V Rated value</li> <li>• at 110 V Rated value</li> <li>• at 220 V Rated value</li> <li>• at 440 V Rated value</li> <li>• at 600 V Rated value</li> </ul> | <p>10 A</p> <p>4.7 A</p> <p>3 A</p> <p>1.2 A</p> <p>0.5 A</p> <p>0.26 A</p>  |
| <b>Operating frequency at DC-13 maximum</b>  | 1 000 1/h  |
| <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 protection

|   |                  |
|---|------------------|
| <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>  | 57.5 mm  |
| <b>Width</b>   | 45 mm  |
| <b>Depth</b>   | 73 mm  |
| <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> | <p>6 mm</p> <p>6 mm</p>  |

#### 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; 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>Product function</b>   |                                      |
| <ul style="list-style-type: none"> <li>• positively driven operation acc. to IEC 60947-5-1</li> </ul>                                       | Yes                                  |
| <b>T1 value for proof test interval or service life acc. to IEC 61508</b>   | 20 y                                 |

#### Certificates/ approvals:

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

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

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

#### 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**

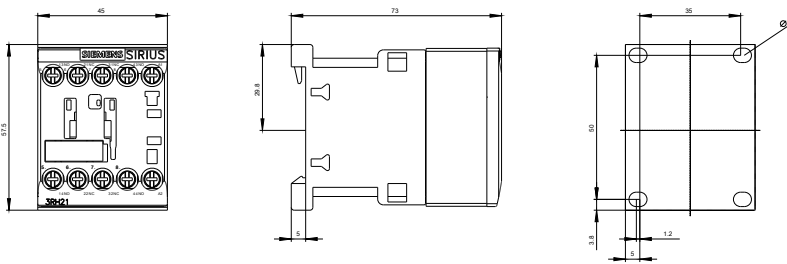
<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mfb=3RH21221AU00>

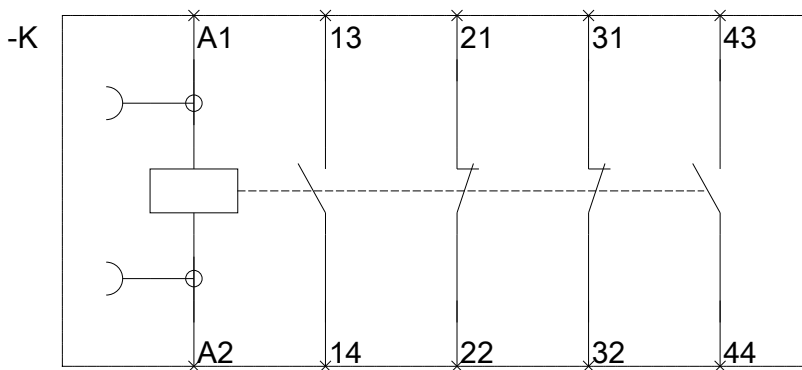
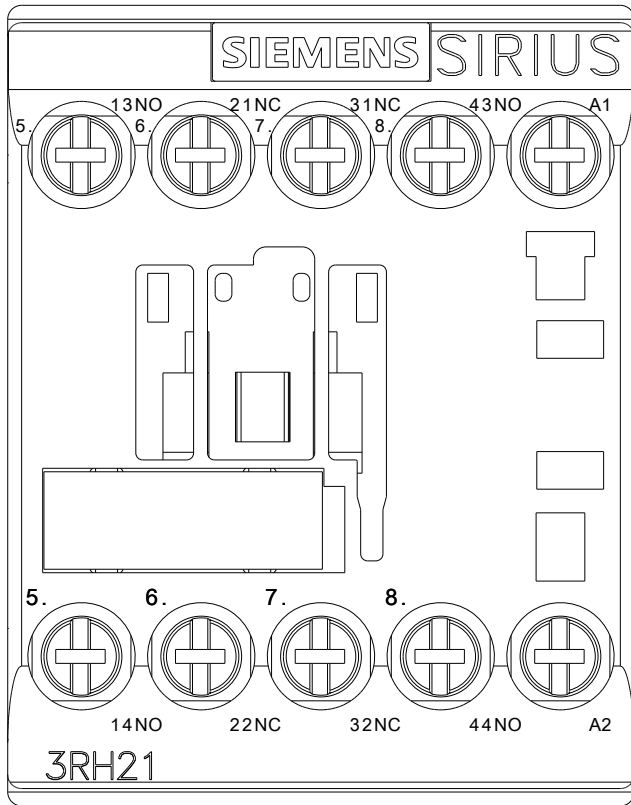
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<https://support.industry.siemens.com/cs/ww/en/ps/3RH21221AU00>

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

[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mfb=3RH21221AU00&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mfb=3RH21221AU00&lang=en)





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