## SIEMENS

## Data sheet

## 3RH2122-2BB40

Contactor relay, 2 NO + 2 NC, 24 V DC, Size S00, Spring-type terminal



| Product brand name   | SIRIUS                 |
|--|------------------------|
| Product designation  | contactor relay        |
| Product type designation                                   | 3RH2                   |
| General technical data                                     |                        |
| Size of contactor  | S00                    |
| Product extension  |                        |
| Auxiliary switch   | Yes                    |
| Insulation voltage   |                        |
| <ul> <li>with degree of pollution 3 rated value</li> </ul> | 690 V                  |
| Degree of pollution  | 3                      |
| Surge voltage resistance rated value                       | 6 kV                   |
| Protection class IP  |                        |
| • on the front   | IP20                   |
| Shock resistance at rectangular impulse                    |                        |
| • at DC  | 10g / 5 ms, 5g / 10 ms |
| Shock resistance with sine pulse                           |                        |
| • at DC  | 15g / 5 ms, 8g / 10 ms |
| Mechanical service life (switching cycles)                 |                        |
| <ul> <li>of contactor typical</li> </ul>                   | 30 000 000             |

| <ul> <li>of the contactor with added electronics-<br/>compatible auxiliary switch block typical</li> </ul> | 5 000 000  |
|--|------------|
| <ul> <li>of the contactor with added auxiliary switch<br/>block typical</li> </ul>                         | 10 000 000 |
| Reference code acc. to DIN EN 81346-2  | К          |
| Reference code acc. to DIN EN 61346-2  | К          |
|  |            |
| Ambient conditions   |            |
| Installation altitude at height above sea level  |            |
| • maximum  | 2 000 m    |
| Ambient temperature  |            |
| <ul> <li>during operation</li> </ul>   | -25 +60 °C |
| <ul> <li>during storage</li> </ul>   | -55 +80 °C |
| Main circuit   |            |
| No-load switching frequency  |            |
| • at AC  | 10 000 1/h |
| • at DC  | 10 000 1/h |
| Constral size it/ Constral   |            |
| Control circuit/ Control<br>Type of voltage of the control supply voltage                                  | DC         |
| Control supply voltage at DC   |            |
| rated value  | 24 V       |
| Operating range factor control supply voltage rated  |            |
| value of magnet coil at DC   |            |
| • initial value  | 0.8        |
| • Full-scale value   | 1.1        |
| Closing power of magnet coil at DC   | 4 W        |
| Holding power of magnet coil at DC   | 4 W        |
| Closing delay  |            |
| • at DC  | 30 100 ms  |
| Opening delay  |            |
| • at DC  | 7 13 ms    |
| Arcing time  | 10 15 ms   |
| Auxiliary circuit  |            |
| Number of NC contacts for auxiliary contacts   | 2          |
| <ul> <li>instantaneous contact</li> </ul>  | 2          |
| Number of NO contacts for auxiliary contacts   | 2          |
| <ul> <li>instantaneous contact</li> </ul>  | 2          |
| Identification number and letter for switching   | 22 E       |
| elements   |            |
| Operating current at AC-12 maximum   | 10 A       |
| Operating current at AC-15   |            |
| • at 230 V rated value   | 10 A       |
|  |            |

| • at 400 V rated value3 A• at 850 V rated value1 A• at 850 V rated value1 A• at 24 V rated value10 A• at 24 V rated value3 A• at 220 V rated value03 A• at 430 V rated value03 A• at 440 V rated value03 A• at 440 V rated value03 A• at 440 V rated value015 AOperating current with 2 current paths in series atDC-1210 A• at 600 V rated value10 A• at 600 V rated value10 A• at 600 V rated value10 A• at 600 V rated value05 A• at 600 V rated value05 A• at 600 V rated value0.65 AOperating current with 3 current paths in series atDC-120.65 A• at 600 V rated value10 A• at 600 V rated value0.65 AOperating current with 3 current paths in series atDC-120.65 A• at 600 V rated value10 A• at 100 V rated value10 A• at 100 V rated value10 A• at 200 V rated value3.6 A• at 400 V rated value10 A <trr>• at 400 V rat</trr>   |  |           |
|--|--|-----------|
| at 680 V rated value         1A           Operating current at 1 current path at DC-12   | • at 400 V rated value                       | 3 A       |
| Operating current at 1 current path at DC-12         Image: Description of the second of the sec | • at 500 V rated value                       | 2 A       |
| • at 24 V rated value10 A• at 110 V rated value3 A• at 220 V rated value1 A• at 440 V rated value0.3 A• at 400 V rated value0.15 AOperating current with 2 current paths in series at DC-12• at 24 V rated value10 A• at 20 V rated value10 A• at 20 V rated value0.65 A• at 20 V rated value0.65 A• at 20 V rated value0.66 A• at 20 V rated value0.66 A• at 800 V rated value0.66 A• at 800 V rated value10 A• at 400 V rated value10 A• at 410 V rated value10 A• at 220 V rated value10 A• at 240 V rated value  | ● at 690 V rated value                       | 1 A       |
| at 110 vrated value3 A• at 220 V rated value1 A• at 440 V rated value0.3 A• at 600 V rated value0.15 AOperafing current with 2 current paths in series at<br>DC-12V• at 60 V rated value10 A• at 60 V rated value10 A• at 60 V rated value2 A• at 60 V rated value0.65 A• at 60 V rated value10 A• at 60 V rated value0.65 A• at 60 V rated value10 A• at 210 V rated value10 A• at 210 V rated value10 A• at 220 V rated value0.1 A• at 220 V rated value10 A• at 220 V rated value3.5 A• at 400 V rated value3  | Operating current at 1 current path at DC-12 |           |
| at 20 V rated value         1 A           • at 440 V rated value         0.3 A           • at 600 V rated value         0.15 A           Operating current with 2 current paths in series at DC-12         -           • at 24 V rated value         10 A           • at 600 V rated value         10 A           • at 600 V rated value         4A           • at 220 V rated value         2A           • at 400 V rated value         0.85 A           Operating current with 3 current paths in series at DC-12         -           • at 600 V rated value         0.65 A           Operating current with 3 current paths in series at DC-12         -           • at 600 V rated value         10 A           • at 440 V rated value         100 1/h           Operating current at 1 current path at DC-13         -           • at 24 V rated value         10 A           • at 24 V rated value         10 A           • at 440 V rated value         10 A           • at 440 V rated value         10 A </td <td>• at 24 V rated value</td> <td>10 A</td>  | • at 24 V rated value                        | 10 A      |
| Control0.3 A• at 800 V rated value0.15 AOperating current with 2 current paths in series at<br>DC-1210 A• at 24 V rated value10 A• at 220 V rated value2 A• at 220 V rated value1.3 A• at 600 V rated value0.65 AOperating current with 3 current paths in series at<br>DC-120.66 A• at 600 V rated value0.67 A• at 24 V rated value0.67 A• at 24 V rated value0.67 A• at 600 V rated value0.67 A• at 600 V rated value0.67 A• at 24 V rated value0.67 A• at 24 V rated value10 A• at 600 V rated value10 A• at 600 V rated value10 A• at 600 V rated value10 A• at 24 V rated value10 A• at 20 V rated value10 A• at 24 V r  | • at 110 V rated value                       | 3 A       |
| at 800 V rated value     0.15 Å       Operating current with 2 current paths in series at<br>DC-12     10 Å       at 24 V rated value     10 Å       at 60 V rated value     10 Å       at 10 V rated value     4 Å       at 220 V rated value     2 Å       at 40 V rated value     0.65 Å       Operating current with 3 current paths in series at<br>DC-12     0.65 Å       i at 24 V rated value     0.66 Å       Operating current with 3 current paths in series at<br>DC-12     0.66 Å       i at 24 V rated value     10 Å       i at 20 V rated value     0.14 Å       i at 20 V rated value     0.14 Å       i at 20 V rated value     0.14 Å       i at 20 V rat   | • at 220 V rated value                       | 1 A       |
| Operating current with 2 current paths in series at<br>DC-12         IDA           • at 24 V rated value         10 A           • at 60 V rated value         10 A           • at 60 V rated value         2 A           • at 220 V rated value         2 A           • at 440 V rated value         0.65 A           Operating current with 3 current paths in series at<br>DC-12         0.65 A           • at 24 V rated value         10 A           • at 24 V rated value         10 A           • at 24 V rated value         0.65 A           Operating current with 3 current paths in series at<br>DC-12         0.65 A           • at 600 V rated value         10 A           • at 24 V rated value         10 A           • at 600 V rated value         10 A           • at 20 V rated value         10 A           • at 20 V rated value         10 A           • at 40 V rated value         10 A           • at 600 V rated value         10 A           • at 600 V rated value         10 A           • at 220 V rated value         0.3 A           • at 220 V rated value         0.3 A           • at 220 V rated value         0.1 A           • at 220 V rated value         0.1 A           • at 600 V rated value         0.1 A     <  | • at 440 V rated value                       | 0.3 A     |
| DC-12       10 A         • at 24 V rated value       10 A         • at 60 V rated value       10 A         • at 100 V rated value       4 A         • at 220 V rated value       2 A         • at 440 V rated value       0.65 A         Operating current with 3 current paths in series at DC-12       Value         • at 24 V rated value       10 A         • at 24 V rated value       10 A         • at 24 V rated value       10 A         • at 20 V rated value       10 A         • at 60 V rated value       10 A         • at 60 V rated value       10 A         • at 60 V rated value       1.8 A         Operating current at 1 Current path at DC-13       •         • at 20 V rated value       0.1 A         • at 20 V rated value       0.1 A         • at 600 V rated value       0.1 A         • at 600 V rated value       3.5 A         • at 20 V rated value       0.9 A <t< td=""><td>• at 600 V rated value</td><td>0.15 A</td></t<>  | • at 600 V rated value                       | 0.15 A    |
| at 80 V rated value10 A• at 110 V rated value4 A• at 220 V rated value2 A• at 440 V rated value0.65 AOperating current with 3 current paths in series at<br>DC-120.65 A• at 24 V rated value10 A• at 24 V rated value10 A• at 20 V rated value10 A• at 60 V rated value10 A• at 60 V rated value10 A• at 220 V rated value3.6 A• at 400 V rated value1.8 AOperating frequency at DC-12 maximum1000 1/hOperating frequency at DC-12 maximum1000 1/hOperating current at 1 current path at DC-13<br>• at 220 V rated value10 A• at 440 V rated value0.3 A• at 440 V rated value0.14 A• at 600 V rated value0.10 A• at 220 V rated value0.2 A• at 440 V rated value0.14 A• at 600 V rated value0.14 A <tr <td="">• at</tr>  |  |           |
|  |  |           |
| at 110 V rated value4 A• at 220 V rated value2 A• at 440 V rated value0.65 AOperating current with 3 current paths in series at<br>DC-12   | • at 24 V rated value                        | 10 A      |
| • at 220 V rated value2 A• at 440 V rated value1.3 A• at 600 V rated value0.65 AOperating current with 3 current paths in series at<br>DC-12-• at 24 V rated value10 A• at 60 V rated value10 A• at 60 V rated value10 A• at 220 V rated value3.6 A• at 440 V rated value2.5 A• at 440 V rated value1.8 AOperating frequency at DC-12 maximum1 000 1/hOperating frequency at DC-12 maximum1 0.00 1/hOperating current at 1 current path at DC-13-• at 240 V rated value0.3 A• at 440 V rated value0.1 A• at 600 V rated value0.1 AOperating current with 2 current paths in series at<br>DC-13-• at 24 V rated value0.1 A• at 24 V rated value0.1 A• at 24 V rated value0.1 A• at 20 V rated value0.1 A• at 20 V rated value0.0 A• at 20 V rated value0.1 A• at 20 V rated value0.1 A• at 20 V rated value0.1 A• at 20 V rated value0.9 A• at 400 V rated value0.9 A• at 400 V rated value0.2 A• at 600 V rated value0.1 A   | <ul> <li>at 60 V rated value</li> </ul>      | 10 A      |
| at a construction1.3 A• at 440 V rated value0.65 AOperating current with 3 current paths in series at<br>DC-120.65 A• at 24 V rated value10 A• at 24 V rated value10 A• at 60 V rated value10 A• at 10 V rated value10 A• at 220 V rated value3.6 A• at 440 V rated value2.5 A• at 60 V rated value1.8 AOperating frequency at DC-12 maximum1 000 1/hOperating current at 1 current path at DC-131• at 24 V rated value0.3 A• at 440 V rated value0.1 AOperating current with 2 current paths in series at<br>DC-130.1 AOperating current with 2 current paths in series at<br>DC-130.1 A• at 24 V rated value0.1 A• at 220 V rated value0.1 A• at 220 V rated value0.1 A• at 24 V rated value0.1 A• at 24 V rated value0.1 A• at 24 V rated value0.1 A• at 250 V rated value0.1 A• at 20 V rated value0.1 A• at 600 V rated value0.1 A• at 600 V rated value0.1 A• at 600 V rat   | • at 110 V rated value                       | 4 A       |
| • at 440 V rated value1.3 A• at 600 V rated value0.65 AOperating current with 3 current paths in series at<br>DC-12-• at 24 V rated value10 A• at 26 V rated value10 A• at 60 V rated value10 A• at 10 V rated value3.6 A• at 220 V rated value3.6 A• at 400 V rated value100 1/h• at 600 V rated value100 1/h• at 600 V rated value10 A• at 220 V rated value10 A• at 24 V rated value0.3 A• at 440 V rated value0.14 A• at 600 V rated value0.14 A• at 24 V rated value3.5 A• at 24 V rated value3.5 A• at 20 V rated value3.5 A• at 20 V rated value0.9 A• at 440 V rated value0.9 A• at 440 V rated value0.9 A• at 440 V rated value0.2 A• at 440 V rated value0.1 A  | • at 220 V rated value                       | 2 A       |
| • at 600 V rated value0.65 AOperating current with 3 current paths in series at<br>DC-12.• at 24 V rated value10 A• at 24 V rated value10 A• at 60 V rated value10 A• at 10 V rated value3.6 A• at 220 V rated value2.5 A• at 60 V rated value100 1/hOperating frequency at DC-12 maximum1000 1/hOperating current at 1 current path at DC-13.• at 24 V rated value10 A• at 24 V rated value0.3 A• at 400 V rated value0.3 A• at 400 V rated value0.1 A• at 220 V rated value0.1 A• at 220 V rated value0.1 A• at 220 V rated value0.1 A• at 600 V rated value0.1 A• at 600 V rated value0.9 A• at 600 V rated value0.9 A• at 600 V rated value0.1 A   |  | 1.3 A     |
| Operating current with 3 current paths in series at DC-1210 A• at 24 V rated value10 A• at 60 V rated value10 A• at 10 V rated value10 A• at 220 V rated value3.6 A• at 440 V rated value2.5 A• at 600 V rated value1.8 AOperating frequency at DC-12 maximum1000 1/hOperating current at 1 current path at DC-13-• at 24 V rated value10 A• at 24 V rated value0.3 A• at 440 V rated value0.14 A• at 440 V rated value0.14 A• at 600 V rated value10 A• at 220 V rated value1.1 A• at 220 V rated value1.1 A• at 220 V rated value0.3 A• at 440 V rated value0.1 AOperating current with 2 current paths in series at DC-13• at 24 V rated value0.1 A• at 24 V rated value0.1 AOperating current with 2 current paths in series at DC-13• at 24 V rated value0.2 A• at 440 V rated value0.9 A• at 24 V rated value0.1 A   |  | 0.65 A    |
| • at 24 V rated value       10 A         • at 60 V rated value       10 A         • at 10 V rated value       3.6 A         • at 220 V rated value       2.5 A         • at 600 V rated value       100 1/h         Operating frequency at DC-12 maximum       1000 1/h         Operating current at 1 current path at DC-13       -         • at 220 V rated value       10 A         • at 220 V rated value       0.3 A         • at 220 V rated value       0.14 A         • at 600 V rated value       0.14 A         • at 600 V rated value       0.14 A         • at 600 V rated value       0.14 A         • at 20 V rated value       0.14 A         • at 600 V rated value       0.14 A         • at 60 V rated value       0.9 A         • at 40 V rated value       0.9 A         • at 40 V rated value       0.2 A         • at 40 V rated value       0.1 A   |  |           |
| a at 10 V rated value10 A• at 210 V rated value3.6 A• at 420 V rated value2.5 A• at 600 V rated value1.8 AOperating frequency at DC-12 maximum1000 1/hOperating current at 1 current path at DC-13-• at 24 V rated value10 A• at 210 V rated value0.3 A• at 420 V rated value0.14 A• at 400 V rated value0.1 AOperating current with 2 current paths in series at DC-13-• at 24 V rated value0.1 A• at 20 V rated value0.1 A• at 60 V rated value0.2 A• at 40 V rated value0.9 A• at 400 V rated value0.1 A  |  | 10 A      |
| at 220 V rated value3.6 A• at 220 V rated value2.5 A• at 440 V rated value1.8 AOperating frequency at DC-12 maximum1000 1/hOperating current at 1 current path at DC-13-• at 24 V rated value10 A• at 24 V rated value0.3 A• at 200 V rated value0.14 A• at 600 V rated value0.14 A• at 24 V rated value0.1 A• at 20 V rated value0.1 A• at 20 V rated value0.1 A• at 20 V rated value0.1 A• at 40 V rated value0.1 A• at 40 V rated value0.2 A• at 40 V rated value0.1 A  | • at 60 V rated value                        | 10 A      |
| i at 440 V rated value2.5 A• at 400 V rated value1.8 AOperating frequency at DC-12 maximum1000 1/hOperating current at 1 current path at DC-13-• at 24 V rated value10 A• at 24 V rated value0.3 A• at 220 V rated value0.14 A• at 600 V rated value0.1 A• at 24 V rated value10 A• at 600 V rated value0.1 A• at 24 V rated value0.0 A• at 24 V rated value0.1 A• at 60 V rated value0.9 A• at 400 V rated value0.9 A• at 400 V rated value0.1 A• at 600 V rated value0.1 A   |  | 10 A      |
| • at 600 V rated value1.8 AOperating frequency at DC-12 maximum1000 1/hOperating current at 1 current path at DC-1310 A• at 24 V rated value10 A• at 24 V rated value0.3 A• at 220 V rated value0.14 A• at 440 V rated value0.14 A• at 600 V rated value0.14 A• at 24 V rated value0.14 A• at 24 V rated value0.14 A• at 24 V rated value0.9 A• at 24 V rated value0.10 A• at 24 V rated value0.9 A• at 240 V rated value0.9 A• at 440 V rated value0.1 A• at 600 V rated value0.1 A  | • at 220 V rated value                       | 3.6 A     |
| Operating frequency at DC-12 maximum1 000 1/hOperating current at 1 current path at DC-1310 A• at 24 V rated value10 A• at 220 V rated value0.3 A• at 440 V rated value0.14 A• at 600 V rated value0.14 A• at 600 V rated value0.1 AOperating current with 2 current paths in series at DC-130.1 A• at 220 V rated value0.0 A• at 24 V rated value0.0 A• at 220 V rated value0.1 AOperating current with 2 current paths in series at DC-130.1 A• at 24 V rated value0.1 A• at 24 V rated value0.0 A• at 220 V rated value0.0 A• at 440 V rated value0.0 A• at 440 V rated value0.1 A• at 220 V rated value0.1 A• at 220 V rated value0.1 A• at 220 V rated value0.1 A• at 600 V rated value0.1 A   | • at 440 V rated value                       | 2.5 A     |
| Operating current at 1 current path at DC-1310 A• at 24 V rated value10 A• at 24 V rated value1 A• at 110 V rated value0.3 A• at 220 V rated value0.14 A• at 600 V rated value0.1 AOperating current with 2 current paths in series at DC-1310 A• at 24 V rated value10 A• at 24 V rated value0.1 AOperating current with 2 current paths in series at DC-130.1 A• at 24 V rated value10 A• at 24 V rated value1.3 A• at 220 V rated value0.9 A• at 440 V rated value0.2 A• at 440 V rated value0.1 A  | • at 600 V rated value                       | 1.8 A     |
| • at 24 V rated value10 A• at 110 V rated value1 A• at 220 V rated value0.3 A• at 440 V rated value0.14 A• at 600 V rated value0.1 AOperating current with 2 current paths in series at DC-13Value• at 24 V rated value10 A• at 24 V rated value3.5 A• at 60 V rated value0.9 A• at 440 V rated value0.2 A• at 600 V rated value0.2 A  | Operating frequency at DC-12 maximum         | 1 000 1/h |
| • at 110 V rated value1 A• at 220 V rated value0.3 A• at 440 V rated value0.14 A• at 600 V rated value0.1 AOperating current with 2 current paths in series at DC-13   | Operating current at 1 current path at DC-13 |           |
| • at 220 V rated value0.3 A• at 440 V rated value0.14 A• at 600 V rated value0.1 AOperating current with 2 current paths in series at DC-13  | • at 24 V rated value                        | 10 A      |
| • at 440 V rated value0.14 A• at 600 V rated value0.1 AOperating current with 2 current paths in series at<br>DC-13  | • at 110 V rated value                       | 1 A       |
| • at 600 V rated value0.1 AOperating current with 2 current paths in series at<br>DC-130.1 A• at 24 V rated value10 A• at 60 V rated value3.5 A• at 10 V rated value1.3 A• at 220 V rated value0.9 A• at 440 V rated value0.1 A• at 600 V rated value0.1 A   | • at 220 V rated value                       | 0.3 A     |
| Operating current with 2 current paths in series at<br>DC-13Image: DC - 13• at 24 V rated value10 A• at 24 V rated value3.5 A• at 60 V rated value1.3 A• at 220 V rated value0.9 A• at 440 V rated value0.2 A• at 600 V rated value0.1 A   | • at 440 V rated value                       | 0.14 A    |
| DC-1310 A• at 24 V rated value10 A• at 60 V rated value3.5 A• at 110 V rated value1.3 A• at 220 V rated value0.9 A• at 440 V rated value0.2 A• at 600 V rated value0.1 A   | • at 600 V rated value                       | 0.1 A     |
| <ul> <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>0.9 A</li> <li>0.2 A</li> <li>at 600 V rated value</li> <li>0.1 A</li> </ul> Operating current with 3 current paths in series at   |  |           |
| • at 110 V rated value1.3 A• at 220 V rated value0.9 A• at 440 V rated value0.2 A• at 600 V rated value0.1 AOperating current with 3 current paths in series atV   | • at 24 V rated value                        | 10 A      |
| <ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>0.2 A</li> <li>at 600 V rated value</li> <li>0.1 A</li> </ul>   | • at 60 V rated value                        | 3.5 A     |
| • at 440 V rated value         0.2 A           • at 600 V rated value         0.1 A           Operating current with 3 current paths in series at         V  | • at 110 V rated value                       | 1.3 A     |
| • at 600 V rated value 0.1 A Operating current with 3 current paths in series at   | • at 220 V rated value                       | 0.9 A     |
| Operating current with 3 current paths in series at  | • at 440 V rated value                       | 0.2 A     |
|  | • at 600 V rated value                       | 0.1 A     |
|  |  |           |

| • at 24 V rated value   | 10 A   |  |  |
|---|--|--|--|
| • at 60 V rated value   | 4.7 A  |  |  |
| • at 110 V rated value  | 3 A  |  |  |
| • at 220 V rated value  | 1.2 A  |  |  |
| • at 440 V rated value  | 0.5 A  |  |  |
| • at 600 V rated value  | 0.26 A   |  |  |
| Operating frequency at DC-13 maximum  | 1 000 1/h  |  |  |
| Design of the miniature circuit breaker   |  |  |  |
| <ul> <li>for short-circuit protection of the auxiliary circuit<br/>up to 230 V</li> </ul> | C characteristic: 6 A; 0.4 kA  |  |  |
| Contact reliability of auxiliary contacts   | 1 faulty switching per 100 million (17 V, 1 mA)  |  |  |
| JL/CSA ratings  |  |  |  |
| Contact rating of auxiliary contacts according to UL                                      | A600 / Q600  |  |  |
| Short-circuit protection  |  |  |  |
| Design of the fuse link   |  |  |  |
| <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>         | fuse gL/gG: 10 A   |  |  |
| nstallation/ mounting/ dimensions   |  |  |  |
| Mounting position   | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |  |  |
| Mounting type   | screw and snap-on mounting onto 35 mm standard mounting rail   |  |  |
| Height  | 70 mm  |  |  |
| Width   | 45 mm  |  |  |
| Depth   | 73 mm  |  |  |
| Required spacing  |  |  |  |
| <ul> <li>with side-by-side mounting</li> </ul>  |  |  |  |
| — forwards  | 10 mm  |  |  |
| — upwards   | 10 mm  |  |  |
| — downwards   | 10 mm  |  |  |
| — at the side   | 0 mm   |  |  |
| <ul> <li>for grounded parts</li> </ul>  |  |  |  |
| — forwards  | 10 mm  |  |  |
| — upwards   | 10 mm  |  |  |
| — at the side   | 6 mm   |  |  |
| — downwards   | 10 mm  |  |  |
|   |  |  |  |
| <ul> <li>for live parts</li> </ul>  |  |  |  |
| <ul> <li>for live parts</li> <li>forwards</li> </ul>                                      | 10 mm  |  |  |
|   | 10 mm<br>10 mm   |  |  |
| — forwards  |  |  |  |

| Connections/Terminals   |                          |
|---|--------------------------|
| Type of electrical connection   |                          |
| <ul> <li>for auxiliary and control current circuit</li> </ul>                   | spring-loaded terminals  |
| Type of connectable conductor cross-sections                                    |                          |
| <ul> <li>for auxiliary contacts</li> </ul>                                      |                          |
| — single or multi-stranded  | 2x (0,5 4 mm²)           |
| <ul> <li>— finely stranded with core end processing</li> </ul>                  | 2x (0.5 2.5 mm²)         |
| <ul> <li>finely stranded without core end<br/>processing</li> </ul>             | 2x (0.5 2.5 mm²)         |
| <ul> <li>at AWG conductors for auxiliary contacts</li> </ul>                    | 2x (20 12)               |
| Safety related data   |                          |
| B10 value   |                          |
| <ul> <li>with high demand rate acc. to SN 31920</li> </ul>                      | 1 000 000; With 0.3 x le |
| Proportion of dangerous failures  |                          |
| <ul> <li>with low demand rate acc. to SN 31920</li> </ul>                       | 40 %                     |
| <ul> <li>with high demand rate acc. to SN 31920</li> </ul>                      | 73 %                     |
| Failure rate [FIT]  |                          |
| <ul> <li>with low demand rate acc. to SN 31920</li> </ul>                       | 100 FIT                  |
| Product function  |                          |
| <ul> <li>positively driven operation acc. to IEC 60947-5-</li> <li>1</li> </ul> | Yes                      |
| T1 value for proof test interval or service life acc. to IEC 61508              | 20 у                     |
| Certificates/approvals  |                          |

| General Product                         | Approval      |                   |                            | Functional<br>Safety/Safety<br>of Machinery | Declaration of<br>Conformity |
|---|---------------|-------------------|----------------------------|---|------------------------------|
| CCC                                     | (SA)          |                   | EHC                        | Type Examination<br>Certificate             | EG-Konf.                     |
| Test Certific-<br>ates                  | Marine / Ship | ping              |                            |   |                              |
| Type Test Certific-<br>ates/Test Report | ABS           | BUREAU<br>VERITAS | Lloyd's<br>Register<br>LRS | PRS   | RINA                         |
| Marine / Shippin                        | g             | other             |                            |   |                              |
| RMRS                                    | DNVGL.COM/AF  | Confirmation      |                            |   |                              |

| <sup>=</sup> urther | Intorr | mation |
|---------------------|--------|--------|
|                     |        | папон  |
|                     |        |        |

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=3RH2122-2BB40

Cax online generator

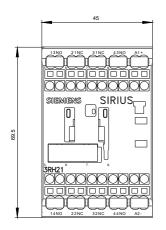
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-2BB40

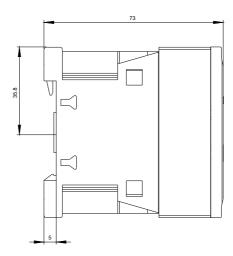
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2BB40

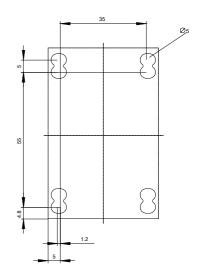
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2122-2BB40&lang=en

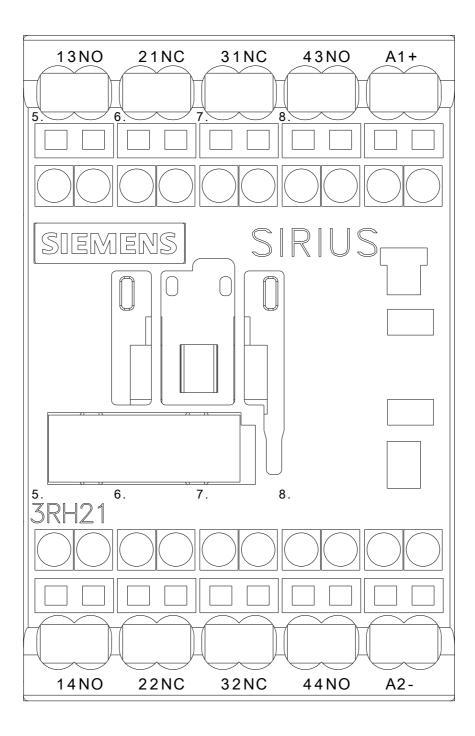
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2BB40/char

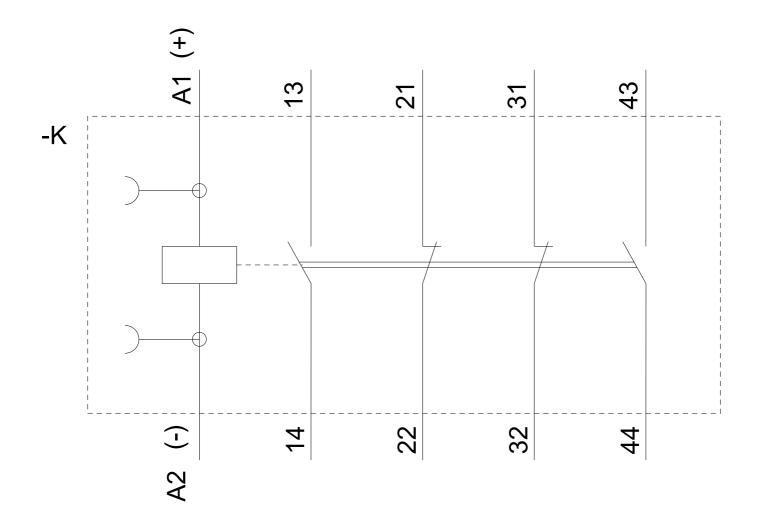
Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-2BB40&objecttype=14&gridview=view1











last modified:

12/13/2018