## SIEMENS

## Data sheet

## 3RT2017-1WB41



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO, 24 V DC 0.85-1.85\*US with varistor plugged on 3-pole, size S00 screw terminal not expandable with auxiliary switch

| product brand name  | SIRIUS                     |
|---|----------------------------|
| product designation   | Coupling relay             |
| product type designation  | 3RT2                       |
| General technical data  |                            |
| size of contactor   | S00                        |
| product extension   |                            |
| <ul> <li>function module for communication</li> </ul>   | No                         |
| auxiliary switch  | No                         |
| power loss [W] for rated value of the current at AC in hot<br>operating state                       | 3.6 W                      |
| • per pole  | 1.2 W                      |
| power loss [W] for rated value of the current without<br>load current share typical                 | 1.6 W                      |
| surge voltage resistance  |                            |
| <ul> <li>of main circuit rated value</li> </ul>   | 6 kV                       |
| <ul> <li>of auxiliary circuit rated value</li> </ul>  | 6 kV                       |
| maximum permissible voltage for safe isolation between<br>coil and main contacts acc. to EN 60947-1 | 400 V                      |
| shock resistance at rectangular impulse   |                            |
| ● at DC   | 7.3g / 5 ms, 4.7g / 10 ms  |
| shock resistance with sine pulse  |                            |
| • at DC   | 11,4g / 5 ms, 7,3g / 10 ms |
| mechanical service life (switching cycles)  |                            |
| of contactor typical  | 30 000 000                 |
| reference code acc. to IEC 81346-2  | Q                          |
| Substance Prohibitance (Date)   | 01.10.2009 00:00:00        |
| Ambient conditions  |                            |
| installation altitude at height above sea level maximum   | 2 000 m                    |
| <ul> <li>ambient temperature during operation</li> </ul>  | -25 +60 °C                 |
| <ul> <li>ambient temperature during storage</li> </ul>  | -55 +80 °C                 |
| Main circuit  |                            |
| number of poles for main current circuit  | 3                          |
| number of NO contacts for main contacts   | 3                          |
| <ul> <li>operating voltage at AC-3 rated value maximum</li> </ul>                                   | 690 V                      |
| operational current   |                            |
| • at AC-1 at 400 V at ambient temperature 40 °C rated value   | 22 A                       |
| • at AC-1   |                            |

| — up to 690 V at ambient temperature 40 °C rated value  |   |
|---|---|
|   | 22 A  |
| — up to 690 V at ambient temperature 60 °C rated value  | 20 A  |
| • at AC-3   |   |
| — at 400 V rated value  | 12 A  |
| — at 500 V rated value  | 9.2 A   |
| — at 690 V rated value  | 6.7 A   |
| at AC-4 at 400 V rated value  | 8.5 A   |
|   | 19.4 A  |
| • at AC-5a up to 690 V rated value  | 9.9 A   |
| • at AC-5b up to 400 V rated value  | 9.9 A   |
| • at AC-6a  | 7.0.4   |
| — up to 230 V for current peak value n=20 rated value   | 7.2 A   |
| — up to 400 V for current peak value n=20 rated value   | 7.2 A   |
| — up to 500 V for current peak value n=20 rated value   | 7.2 A   |
| <ul> <li>— up to 690 V for current peak value n=20 rated value</li> </ul>   | 6.7 A   |
| • at AC-6a  |   |
| <ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>   | 4.8 A   |
| <ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>   | 4.8 A   |
| <ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul>   | 4.8 A   |
| <ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul>   | 4.8 A   |
| minimum cross-section in main circuit at maximum AC-1 rated value   | 4 mm <sup>2</sup>   |
| encyclic nel evyment fer ennyew 200000 encycling  |   |
| operational current for approx. 200000 operating cycles at AC-4   |   |
|   | 4.1 A   |
| cycles at AC-4  | 4.1 A<br>3.3 A  |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current   |   |
| <ul><li>cycles at AC-4</li><li>at 400 V rated value</li><li>at 690 V rated value</li></ul>  |   |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current   | 3.3 A<br>20 A   |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1  | 3.3 A<br>20 A<br>2.1 A  |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value   | 3.3 A<br>20 A   |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 110 V rated value   | 3.3 A<br>20 A<br>2.1 A  |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value   | 3.3 A<br>20 A<br>2.1 A<br>0.8 A   |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 440 V rated value   | 3.3 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A  |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value   | 3.3 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A  |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1   | 3.3 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A   |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value  | 3.3 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A<br>20 A   |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value<br>• ut 12 V rated value<br>• ut 12 V rated value  | 3.3 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A<br>20 A<br>12 A   |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value  | 3.3 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A<br>0.6 A<br>20 A<br>12 A<br>1.6 A   |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 210 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 440 V rated value  | 3.3 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A<br>20 A<br>12 A<br>1.6 A<br>0.8 A   |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 210 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 24 V rated value<br>— at 24 V rated value<br>— at 24 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 600 V rated value   | 3.3 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A<br>20 A<br>12 A<br>1.6 A<br>0.8 A   |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 210 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 24 V rated value<br>— at 20 V rated value<br>— at 600 V rated value<br>• with 3 current paths in series at DC-1   | 3.3 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A<br>20 A<br>12 A<br>1.6 A<br>0.8 A<br>0.7 A  |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 220 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 20 V rated value<br>— at 20 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>— at 600 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 440 V rated value  | 3.3 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A<br>0.6 A<br>20 A<br>12 A<br>1.6 A<br>0.8 A<br>0.7 A<br>20 A   |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 220 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 24 V rated value<br>— at 440 V rated value<br>— at 600 V rated value  | 3.3 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A<br>0.6 A<br>20 A<br>1.2 A<br>1.6 A<br>0.8 A<br>0.7 A<br>20 A  |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 220 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 24 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 24 V rated value<br>— at 24 V rated value<br>— at 20 V rated value<br>• with 3 current paths in series at DC-1<br>— at 24 V rated value<br>— at 210 V rated value<br>— at 220 V rated value  | 3.3 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A<br>0.6 A<br>20 A<br>12 A<br>1.6 A<br>0.8 A<br>0.7 A<br>20 A<br>20 A<br>20 A   |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 210 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 220 V rated value<br>— at 600 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>— at 600 V rated value<br>— at 22 V rated value<br>— at 24 V rated value  | 3.3 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A<br>20 A<br>12 A<br>1.6 A<br>0.7 A<br>20 A<br>20 A<br>20 A<br>20 A   |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 220 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>— at 600 V rated value<br>— at 220 V rated value<br>— at 600 V rated value<br>— at 600 V rated value<br>— at 20 V rated value<br>— at 600 V rated value   | 20 A<br>21 A<br>0.8 A<br>0.6 A<br>20 A<br>12 A<br>1.6 A<br>0.8 A<br>0.7 A<br>20 A<br>20 A<br>20 A<br>1.3 A<br>1.3 A<br>1.4  |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 220 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 20 V rated value<br>— at 20 V rated value<br>— at 440 V rated value<br>— at 20 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>— at 600 V rated value<br>— at 220 V rated value<br>— at 600 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 24 V rated value<br>— at 20 V rated value<br>— at 20 V rated value<br>— at 210 V rated value<br>— at 220 V rated value  | <ul> <li>3.3 A</li> <li>20 A</li> <li>2.1 A</li> <li>0.8 A</li> <li>0.6 A</li> <li>20 A</li> <li>12 A</li> <li>1.6 A</li> <li>0.8 A</li> <li>0.7 A</li> <li>20 A</li> </ul> |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 220 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>— at 600 V rated value<br>— at 220 V rated value<br>— at 600 V rated value<br>— at 600 V rated value<br>— at 20 V rated value<br>— at 600 V rated value   | 20 A<br>21 A<br>0.8 A<br>0.6 A<br>20 A<br>12 A<br>1.6 A<br>0.8 A<br>0.7 A<br>20 A<br>20 A<br>20 A<br>1.3 A<br>1.3 A<br>1.4  |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 220 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 200 V rated value<br>— at 200 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>— at 600 V rated value<br>• with 3 current paths in series at DC-1<br>— at 24 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>— at 200 V rated value<br>— at 210 V rated value<br>— at 220 V rated value   | <ul> <li>3.3 A</li> <li>20 A</li> <li>2.1 A</li> <li>0.8 A</li> <li>0.6 A</li> <li>20 A</li> <li>12 A</li> <li>1.6 A</li> <li>0.8 A</li> <li>0.7 A</li> <li>20 A</li> </ul> |
| cycles at AC-4<br>• at 400 V rated value<br>• at 690 V rated value<br>operational current<br>• at 1 current path at DC-1<br>— at 24 V rated value<br>— at 220 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>• with 2 current paths in series at DC-1<br>— at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 600 V rated value<br>— at 600 V rated value<br>— at 600 V rated value<br>• with 3 current paths in series at DC-1<br>— at 24 V rated value<br>— at 600 V rated value<br>— at 110 V rated value<br>— at 20 V rated value<br>— at 20 V rated value<br>— at 210 V rated value<br>— at 220 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 440 V rated value<br>— at 110 V rated value<br>— at 110 V rated value | <ul> <li>3.3 A</li> <li>20 A</li> <li>2.1 A</li> <li>0.8 A</li> <li>0.6 A</li> <li>20 A</li> <li>12 A</li> <li>1.6 A</li> <li>0.8 A</li> <li>0.7 A</li> <li>20 A</li> </ul> |

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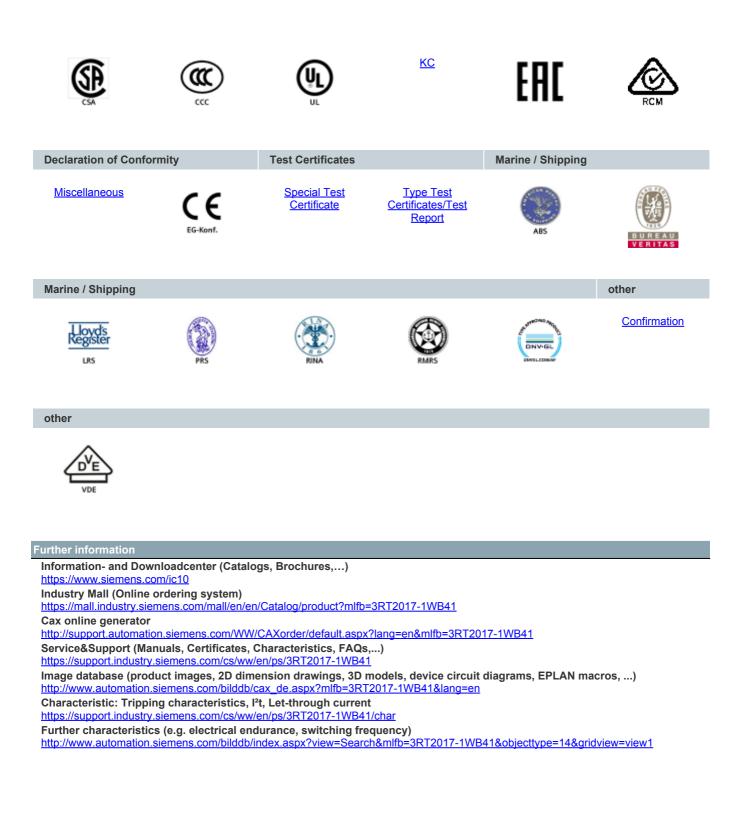
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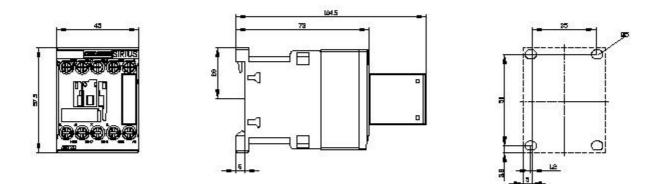
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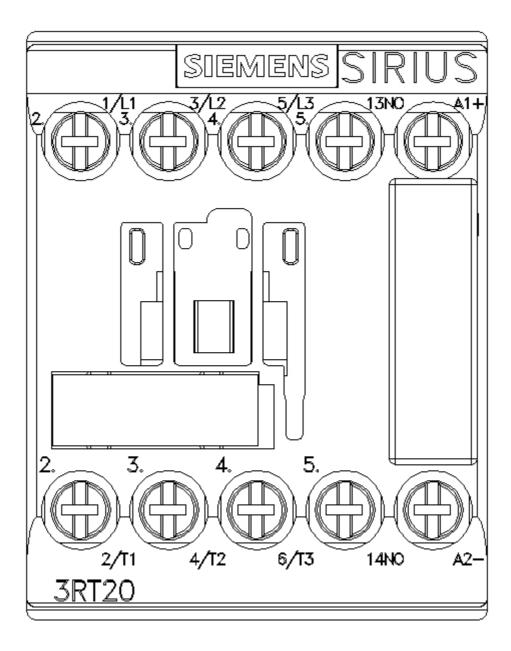
| <ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>             |   |
|--|---|
| - at 24 V rated value  | 20 A  |
| — at 110 V rated value   | 20 A  |
| — at 220 V rated value   | 1.5 A   |
| - at 440 V rated value   | 0.2 A   |
| — at 600 V rated value   | 0.2 A   |
| operating power  | 0.2 A   |
| • at AC-3  |   |
| - at 230 V rated value   | 3 kW  |
| - at 400 V rated value   | 5.5 kW  |
| — at 500 V rated value   | 5.5 kW  |
| — at 690 V rated value   | 5.5 kW  |
| operating power for approx. 200000 operating cycles                            |   |
| at AC-4  |   |
| <ul> <li>at 400 V rated value</li> </ul>                                       | 2 kW  |
| • at 690 V rated value   | 2.5 kW  |
| operating apparent power at AC-6a  |   |
| <ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>        | 2.8 kV·A  |
| <ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>        | 4.9 kV·A  |
| <ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>        | 6.2 kV·A  |
| • up to 690 V for current peak value n=20 rated value                          | 8 kV·A  |
| operating apparent power at AC-6a  |   |
| <ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>        | 1.9 kV·A  |
| <ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>        | 3.3 kV·A  |
| <ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>        | 4.1 kV·A  |
| <ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>        | 5.7 kV·A  |
| short-time withstand current in cold operating state<br>up to 40 °C            |   |
| <ul> <li>limited to 1 s switching at zero current maximum</li> </ul>           | 200 A; Use minimum cross-section acc. to AC-1 rated value |
| <ul> <li>limited to 5 s switching at zero current maximum</li> </ul>           | 123 A; Use minimum cross-section acc. to AC-1 rated value |
| <ul> <li>limited to 10 s switching at zero current maximum</li> </ul>          | 96 A; Use minimum cross-section acc. to AC-1 rated value  |
| <ul> <li>limited to 30 s switching at zero current maximum</li> </ul>          | 74 A; Use minimum cross-section acc. to AC-1 rated value  |
| <ul> <li>limited to 60 s switching at zero current maximum</li> </ul>          | 61 A; Use minimum cross-section acc. to AC-1 rated value  |
| no-load switching frequency  |   |
| • at DC  | 10 000 1/h  |
| operating frequency  |   |
| • at AC-1 maximum  | 1 000 1/h   |
| • at AC-2 maximum  | 750 1/h   |
| • at AC-3 maximum  | 750 1/h   |
| ● at AC-4 maximum  | 250 1/h   |
| Control circuit/ Control   |   |
| type of voltage of the control supply voltage                                  | DC  |
| control supply voltage at DC   |   |
| <ul> <li>rated value</li> </ul>  | 24 V  |
| operating range factor control supply voltage rated value of magnet coil at DC |   |
| initial value  | 0.85  |
| full-scale value   | 1.85  |
| design of the surge suppressor   | with varistor   |
| closing power of magnet coil at DC   | 1.6 W   |
| holding power of magnet coil at DC   | 1.6 W   |
| closing delay  |   |
| ● at DC  | 30 100 ms   |
| opening delay  |   |
| at DC  | 7 13 ms   |
| arcing time  | 10 15 ms  |
| control version of the switch operating mechanism                              | Standard A1 - A2  |
| Auxiliary circuit  |   |
| number of NO contacts for auxiliary contacts                                   | 1   |

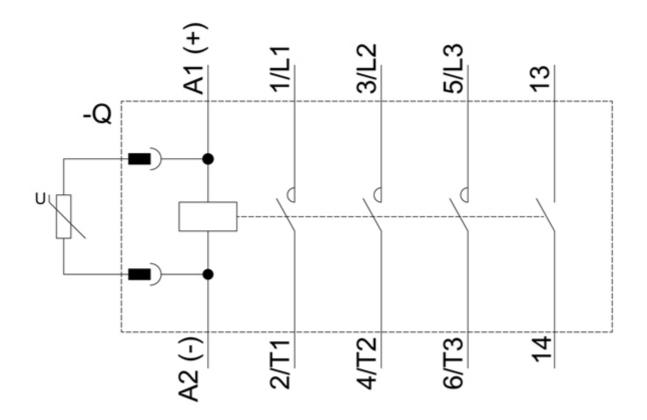
| instantaneous contact   |  |
|---|--|
| operational current at AC-12 maximum  | 10 A   |
| operational current at AC-15  |  |
| <ul> <li>at 230 V rated value</li> </ul>  | 10 A   |
| <ul> <li>at 400 V rated value</li> </ul>  | 3 A  |
| <ul> <li>at 500 V rated value</li> </ul>  | 2 A  |
| <ul> <li>at 690 V rated value</li> </ul>  | 1 A  |
| operational current at DC-12  |  |
| <ul> <li>at 24 V rated value</li> </ul>   | 10 A   |
| <ul> <li>at 48 V rated value</li> </ul>   | 6 A  |
| <ul> <li>at 60 V rated value</li> </ul>   | 6 A  |
| <ul> <li>at 110 V rated value</li> </ul>  | 3 A  |
| <ul> <li>at 125 V rated value</li> </ul>  | 2 A  |
| <ul> <li>at 220 V rated value</li> </ul>  | 1 A  |
| <ul> <li>at 600 V rated value</li> </ul>  | 0.15 A   |
| operational current at DC-13  | -  |
| at 24 V rated value   | 10 A   |
| at 48 V rated value   | 2 A  |
| at 40 V rated value   | 2 A  |
| at 10 V rated value   | 1A   |
| at 125 V rated value  | 0.9 A  |
| at 220 V rated value  | 0.3 A  |
| at 220 V lated value     at 600 V rated value   | 0.3 A<br>0.1 A   |
|   |  |
| contact reliability of auxiliary contacts   | 1 faulty switching per 100 million (17 V, 1 mA)  |
| UL/CSA ratings  |  |
| full-load current (FLA) for 3-phase AC motor  |  |
| • at 480 V rated value  | 11 A   |
| at 600 V rated value  | 11 A   |
| yielded mechanical performance [hp]   |  |
| <ul> <li>for single-phase AC motor</li> </ul>   |  |
| — at 110/120 V rated value  | 0.5 hp   |
| — at 230 V rated value  | 2 hp   |
| <ul> <li>for 3-phase AC motor</li> </ul>  |  |
| — at 200/208 V rated value  | 3 hp   |
| — at 220/230 V rated value  | 3 hp   |
| — at 460/480 V rated value  | 7.5 hp   |
| — at 575/600 V rated value  | 10 hp  |
| 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 main circuit</li> </ul>                  |  |
| <ul> <li>— with type of coordination 1 required</li> </ul>                            | gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)  |
| — with type of assignment 2 required  | gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)  |
| <ul> <li>for short-circuit protection of the auxiliary switch<br/>required</li> </ul> | gG: 10 A (500 V, 1 kA)   |
| Installation/ mounting/ dimensions  |  |
| mounting position   | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface |
| fastening method  | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715   |
| <ul> <li>side-by-side mounting</li> </ul>   | Yes  |
| height  | 58 mm  |
| width   | 45 mm  |
| depth   | 117 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>   |   |
| — forwards   | 10 mm   |
| — upwards  | 10 mm   |
| — downwards  | 10 mm   |
| — at the side  | 6 mm  |
| Connections/ Terminals   |   |
| type of electrical connection  |   |
| <ul> <li>for main current circuit</li> </ul>                                 | screw-type terminals  |
| <ul> <li>for auxiliary and control circuit</li> </ul>                        | screw-type terminals  |
| <ul> <li>at contactor for auxiliary contacts</li> </ul>                      | Screw-type terminals  |
| <ul> <li>of magnet coil</li> </ul>   | Screw-type terminals  |
| type of connectable conductor cross-sections                                 |   |
| for main contacts  |   |
| — solid  | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²                                       |
| — solid or stranded  | 2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup> |
| <ul> <li>finely stranded with core end processing</li> </ul>                 | 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )                       |
| <ul> <li>at AWG cables for main contacts</li> </ul>                          | 2x (20 16), 2x (18 14), 2x 12   |
| connectable conductor cross-section for main                                 |   |
| contacts   |   |
| • solid  | 0.5 4 mm²   |
| <ul> <li>stranded</li> </ul>   | 0.5 4 mm²   |
| <ul> <li>finely stranded with core end processing</li> </ul>                 | 0.5 2.5 mm²   |
| connectable conductor cross-section for auxiliary<br>contacts                |   |
| <ul> <li>solid or stranded</li> </ul>  | 0.5 4 mm²   |
| <ul> <li>finely stranded with core end processing</li> </ul>                 | 0.5 2.5 mm²   |
| type of connectable conductor cross-sections                                 |   |
| <ul> <li>for auxiliary contacts</li> </ul>                                   |   |
| — solid or stranded  | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²                                       |
| <ul> <li>finely stranded with core end processing</li> </ul>                 | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)   |
| <ul> <li>at AWG cables for auxiliary contacts</li> </ul>                     | 2x (20 16), 2x (18 14), 2x 12   |
| AWG number as coded connectable conductor<br>cross section for main contacts | 20 12   |
| AWG number as coded connectable conductor                                    | 20 12   |
| cross section for auxiliary contacts   |   |
| Safety related data  |   |
| B10 value with high demand rate acc. to SN 31920                             | 1 000 000   |
| 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] with low demand rate acc. to SN 31920                     | 100 FIT   |
| product function   |   |
| <ul> <li>mirror contact acc. to IEC 60947-4-1</li> </ul>                     | No  |
| T1 value for proof test interval or service life acc. to<br>IEC 61508        | 20 y  |
| protection class IP on the front acc. to IEC 60529                           | IP20  |
| touch protection on the front acc. to IEC 60529                              | finger-safe, for vertical contact from the front                                    |
| suitability for use safety-related switching OFF                             | Yes   |
| Certificates/ approvals  |   |
| General Product Approval   | EMC   |
|  |   |









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