## Data sheet 3RT2017-1CK64-3MA0



power contactor, AC-3e/AC-3, 12 A, 5.5 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, with varistor plugged on, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S00, captive auxiliary switch

| product brand name   | SIRIUS                     |
|--|----------------------------|
| product designation  | Power contactor            |
| 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  |                            |
| <ul> <li>at AC in hot operating state</li> </ul>   | 1.5 W                      |
| <ul> <li>at AC in hot operating state per pole</li> </ul>  | 0.5 W                      |
| <ul> <li>without load current share typical</li> </ul>   | 5.9 W                      |
| insulation voltage   |                            |
| <ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>                                   | 690 V                      |
| of auxiliary circuit with degree of pollution 3 rated value  | 690 V                      |
| surge voltage resistance   |                            |
| <ul> <li>of main circuit rated value</li> </ul>  | 6 kV                       |
| of auxiliary circuit rated value   | 6 kV                       |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 400 V                      |
| shock resistance at rectangular impulse  |                            |
| • at AC  | 7,3g / 5 ms, 4,7g / 10 ms  |
| shock resistance with sine pulse   |                            |
| • at AC  | 11,4g / 5 ms, 7,3g / 10 ms |
| mechanical service life (operating cycles)   |                            |
| <ul> <li>of contactor typical</li> </ul>   | 10 000 000                 |
| <ul> <li>of the contactor with added electronically optimized<br/>auxiliary switch block typical</li> </ul>  | 5 000 000                  |
| of the contactor with added auxiliary switch block typical   | 10 000 000                 |
| reference code according to IEC 81346-2  | Q                          |
| Substance Prohibitance (Date)  | 10/01/2009                 |
| Ambient conditions   |                            |
| installation altitude at height above sea level maximum  | 2 000 m                    |
| ambient temperature  |                            |
| during operation   | -25 +60 °C                 |
| during storage   | -55 +80 °C                 |
| relative humidity minimum  | 10 %                       |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum   | 95 %                       |
| Main circuit   |                            |
| number of poles for main current circuit   | 3                          |

|   | 3  |
|---|--|
| operating voltage   |  |
| <ul> <li>at AC-3 rated value maximum</li> </ul>   | 690 V  |
| at AC-3e rated value maximum  | 690 V  |
| operational current   |  |
| <ul> <li>at AC-1 at 400 V at ambient temperature 40 °C rated</li> </ul>   | 22 A   |
| value   |  |
| • at AC-1   |  |
| <ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>  | 22 A   |
| — up to 690 V at ambient temperature 60 °C rated  | 20 A   |
| value   | 2077   |
| • 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-3e  |  |
| — 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  |
| • at AC-5a up to 690 V rated value  | 19.4 A   |
| at AC-5b up to 400 V rated value  | 9.9 A  |
| • at AC-6a  |  |
| — 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  |
| — up to 690 V for current peak value n=20 rated value   | 6.7 A  |
| • at AC-6a  |  |
| — up to 230 V for current peak value n=30 rated value   | 4.8 A  |
| — up to 400 V for current peak value n=30 rated value   | 4.8 A  |
| — up to 500 V for current peak value n=30 rated value   | 4.8 A  |
| — up to 690 V for current peak value n=30 rated value   | 4.8 A  |
| · · · · · · · · · · · · · · · · · · ·   |  |
| minimum cross-section in main circuit at maximum AC-1 rated   | 4 mm²  |
| value   | 4 mm²  |
|   | 4 mm²  |
| value operational current for approx. 200000 operating cycles at  | 4 mm <sup>2</sup>  |
| value operational current for approx. 200000 operating cycles at AC-4   |  |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value   | 4.1 A  |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  | 4.1 A  |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operational current  | 4.1 A  |
| value operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value operational current • at 1 current path at DC-1  | 4.1 A<br>3.3 A   |
| value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current • at 1 current path at DC-1  — at 24 V rated value   | 4.1 A<br>3.3 A<br>20 A   |
| value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value   | 4.1 A<br>3.3 A<br>20 A<br>20 A   |
| value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value   | 4.1 A<br>3.3 A<br>20 A<br>20 A<br>2.1 A  |
| value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value   | 4.1 A<br>3.3 A<br>20 A<br>20 A<br>2.1 A<br>0.8 A   |
| value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value   | 4.1 A<br>3.3 A<br>20 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A  |
| value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value   | 4.1 A<br>3.3 A<br>20 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A  |
| value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1   | 4.1 A<br>3.3 A<br>20 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A   |
| value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  — at 42 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value   | 4.1 A<br>3.3 A<br>20 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A   |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  | 4.1 A<br>3.3 A<br>20 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A<br>20 A                                 |
| value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value  — at 110 V rated value  — at 110 V rated value  | 4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 20 A   |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  | 4.1 A<br>3.3 A<br>20 A<br>20 A<br>2.1 A<br>0.8 A<br>0.6 A<br>0.6 A<br>20 A<br>20 A<br>20 A<br>21 A<br>20 A |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  • at 10 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 20 V rated value  — at 440 V rated value  — at 600 V rated value  — at 440 V rated value  — at 440 V rated value  — at 600 V rated value   | 4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A 20 A 21 A 20             |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 24 V rated value  — at 24 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 440 V rated value  — at 440 V rated value  — at 440 V rated value  — at 4600 V rated value  — at 600 V rated value   | 4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 20 A 20 A 20 A 20 A 20 A 2                       |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 600 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 440 V rated value  — at 60 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 24 V rated value  — at 440 V rated value  — at 440 V rated value  — at 600 V rated value  — at 600 V rated value  — at 600 V rated value   | 4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 20 A 20 A 20 A 20 A 20 A 2                       |
| value  operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 110 V rated value  • at 110 V rated value  • at 20 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 10 V rated value  — at 60 V rated value  — at 100 V rated value  — at 220 V rated value  — at 220 V rated value  — at 240 V rated value  — at 240 V rated value  — at 600 V rated value  — at 600 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value   | 4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 20 A 20 A 20 A 20 A 20 A 2                       |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 440 V rated value  — at 600 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value  — at 110 V rated value  — at 110 V rated value  | 4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 20 A 20 A 20 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A  |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 600 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 600 V rated value  — at 24 V rated value  — at 24 V rated value  — at 20 V rated value | 4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 20 A 20 A 20 A 20 A 20 A 2                       |
| operational current for approx. 200000 operating cycles at AC-4  • at 400 V rated value • at 690 V rated value  operational current  • at 1 current path at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 440 V rated value  — at 600 V rated value  • with 2 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 110 V rated value  — at 220 V rated value  — at 24 V rated value  — at 24 V rated value  — at 440 V rated value  — at 600 V rated value  • with 3 current paths in series at DC-1  — at 24 V rated value  — at 60 V rated value  — at 60 V rated value  — at 110 V rated value  — at 110 V rated value  | 4.1 A 3.3 A  20 A 20 A 2.1 A 0.8 A 0.6 A 0.6 A  20 A 20 A 20 A 20 A 20 A 20 A 20 A 12 A 1.6 A 0.8 A 0.7 A  |

| — at 24 V rated value   | 20 A  |
|---|---|
| — at 60 V rated value   | 0.5 A   |
| — at 110 V rated value  | 0.15 A  |
| <ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>      |   |
| — at 24 V rated value   | 20 A  |
| — at 60 V rated value   | 5 A   |
| — at 110 V rated value  | 0.35 A  |
| <ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>      |   |
| — at 24 V rated value   | 20 A  |
| — at 60 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   |   |
| <ul> <li>at AC-2 at 400 V rated value</li> </ul>                        | 5.5 kW  |
| • 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  |
| • at AC-3e  |   |
| — 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  |
| <ul> <li>at 690 V rated value</li> </ul>                                | 2.5 kW  |
| operating apparent power at AC-6a                                       |   |
| • up to 230 V for current peak value n=20 rated value                   | 2.8 kVA   |
| <ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul> | 4.9 kVA   |
| <ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul> | 6.2 kVA   |
| up to 690 V for current peak value n=20 rated value                     | 8 kVA   |
| operating apparent power at AC-6a                                       |   |
| up to 230 V for current peak value n=30 rated value                     | 1.9 kVA   |
| • up to 400 V for current peak value n=30 rated value                   | 3.3 kVA   |
| • up to 500 V for current peak value n=30 rated value                   | 4.1 kVA   |
| • up to 690 V for current peak value n=30 rated value                   | 5.7 kVA   |
| short-time withstand current in cold operating state 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 |
| Iimited to 5 s switching at zero current maximum                        | 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  |
| limited to 30 s switching at zero current maximum                       | 74 A; Use minimum cross-section acc. to AC-1 rated value  |
| Ilmited to 60 s switching at zero current maximum                       | 61 A; Use minimum cross-section acc. to AC-1 rated value  |
| no-load switching frequency   | ,   |
| • at AC   | 10 000 1/h  |
| operating frequency   |   |
| • at AC-1 maximum   | 1 000 1/h   |
| • at AC-2 maximum   | 750 1/h   |
| • at AC-2 maximum   | 750 1/h   |
|   |   |
| at AC-3e maximum     at AC-4 maximum                                    | 750 1/h   |
| • at AC-4 maximum   | 250 1/h   |
| Control circuit/ Control  |   |
| type of voltage of the control supply voltage                           | AC  |
| control supply voltage at AC  |   |
| at 50 Hz rated value  | 110 V   |
| at 60 Hz rated value  | 120 V   |
| operating range factor control supply voltage rated value of            |   |
| magnet coil at AC   |   |

| • at 50 Hz   | 0.8 1.1   |
|--|---|
| ● at 60 Hz   | 0.8 1.1   |
| design of the surge suppressor                                     | with varistor                                   |
| apparent pick-up power of magnet coil at AC                        |   |
| ● at 50 Hz   | 36 VA   |
| ● at 60 Hz   | 36 VA   |
| inductive power factor with closing power of the coil              |   |
| ● at 50 Hz   | 0.8   |
| ● at 60 Hz   | 0.8   |
| apparent holding power of magnet coil at AC                        |   |
| ● at 50 Hz   | 5.9 VA  |
| ● at 60 Hz   | 5.9 VA  |
| inductive power factor with the holding power of the coil          |   |
| ● at 50 Hz   | 0.24  |
| • at 60 Hz   | 0.24  |
| closing delay  |   |
| • at AC  | 9 35 ms   |
| opening delay  |   |
| • at AC  | 4 15 ms   |
| arcing time  | 10 15 ms  |
| control version of the switch operating mechanism                  | Standard A1 - A2                                |
| Auxiliary circuit  |   |
| number of NC contacts for auxiliary contacts instantaneous contact | 2   |
| number of NO contacts for auxiliary contacts instantaneous contact | 2   |
| operational current at AC-12 maximum                               | 10 A  |
| operational current at AC-15                                       |   |
| • at 230 V rated value   | 6 A   |
| • at 400 V rated value   | 3 A   |
| at 500 V rated value   | 2 A   |
| at 690 V rated value   | 1 A   |
| operational current at DC-12                                       |   |
| at 24 V rated value  | 10 A  |
| at 48 V rated value  | 6 A   |
| • at 60 V rated value  | 6 A   |
| • at 110 V rated value   | 3 A   |
| • at 125 V rated value   | 2 A   |
| • at 220 V rated value   | 1 A   |
| at 600 V rated value   | 0.15 A  |
| operational current at DC-13                                       |   |
| • at 24 V rated value  | 6 A   |
| • at 48 V rated value  | 2 A   |
| • at 60 V rated value  | 2 A   |
| • at 110 V rated value   | 1 A   |
| • at 125 V rated value   | 0.9 A   |
| • at 220 V rated value   | 0.3 A   |
| at 600 V rated value   | 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]                                |   |
| • for single-phase AC motor  |   |
| — at 110/120 V rated value   | 0.5 hp  |
| — at 230 V rated value   | 2 hp  |
| • for 3-phase AC motor   |   |
| — 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)  |
| <ul> <li>— with type of assignment 2 required</li> </ul>  | gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)  |
| for short-circuit protection of the auxiliary switch required   | 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 DIN rail according to DIN EN 60715   |
| side-by-side mounting   | 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   |
| for grounded parts  |  |
| — forwards  | 10 mm  |
| — upwards   | 10 mm  |
| — at the side   | 6 mm   |
| — downwards   | 10 mm  |
| • for live parts  |  |
| — forwards  | 10 mm  |
| — upwards   | 10 mm  |
| — downwards   | 10 mm  |
| — at the side   | 6 mm   |
| Connections/ Terminals  |  |
| type of electrical connection   |  |
| • for main current circuit  | screw-type terminals   |
| for auxiliary and control circuit   | screw-type terminals   |
| at contactor for auxiliary contacts   | Screw-type terminals Screw-type terminals  |
| of magnet coil  | Screw-type terminals Screw-type terminals  |
| type of connectable conductor cross-sections for main contacts  | ociew-type terminais   |
| 2.  | 2v (0 5  |
| solid     solid or stranded   | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²<br>2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²                                       |
|   |  |
| finely stranded with core end processing  connectable conductor cross section for main contacts.  | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  |
| connectable conductor cross-section for main contacts   | 0.5 4 mm²  |
| solid     stranded  |  |
|   | 0.5 4 mm <sup>2</sup>  |
| finely stranded with core end processing  | 0.5 2.5 mm <sup>2</sup>  |
| connectable conductor cross-section for auxiliary contacts  | 0.5 4 2222   |
| solid or stranded     finely stranded with core and proceeding.   | 0.5 4 mm <sup>2</sup>  |
| finely stranded with core end processing  type of connectable conductor group positions   | 0.5 2.5 mm <sup>2</sup>  |
| type of connectable conductor cross-sections  • for auxiliary contacts  |  |
| TOT AUXILIARY CODIACIS  |  |
|   | 0 (0.5   |
| — solid or stranded   | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  |
| <ul><li>— solid or stranded</li><li>— finely stranded with core end processing</li></ul>  | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  |
| <ul> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> <li>• for AWG cables for auxiliary contacts</li> </ul>  |  |
| — solid or stranded     — finely stranded with core end processing     • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross   | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  |
| — solid or stranded     — finely stranded with core end processing     • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section   | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)<br>2x (20 16), 2x (18 14), 2x 12   |
| — solid or stranded     — finely stranded with core end processing     • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts                                       | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)<br>2x (20 16), 2x (18 14), 2x 12<br>20 12  |
| solid or stranded finely stranded with core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts                            | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)<br>2x (20 16), 2x (18 14), 2x 12   |
| — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for main contacts  • for auxiliary contacts  Safety related data | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)<br>2x (20 16), 2x (18 14), 2x 12<br>20 12  |
| — solid or stranded  — finely stranded with core end processing  • for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section  • for main contacts  • for auxiliary contacts                      | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)<br>2x (20 16), 2x (18 14), 2x 12<br>20 12  |

| <ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul> | No   |
|--|--|
| B10 value with high demand rate according to SN 31920                      | 1 000 000  |
| proportion of dangerous failures   |  |
| <ul> <li>with low demand rate according to SN 31920</li> </ul>             | 40 %   |
| <ul> <li>with high demand rate according to SN 31920</li> </ul>            | 73 %   |
| failure rate [FIT] with low demand rate according to SN 31920              | 100 FIT  |
| T1 value for proof test interval or service life according to IEC 61508    | 20 a   |
| protection class IP on the front according to IEC 60529                    | IP20   |
| touch protection on the front according to IEC 60529                       | finger-safe, for vertical contact from the front |
| suitability for use  |  |
| <ul> <li>safety-related switching OFF</li> </ul>                           | Yes  |
|  |  |

Certificates/ approvals

## **General Product Approval**





Confirmation



<u>KC</u>



**EMC** 

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

## Marine / Shipping













Marine / Shipping

other

Confirmation

Railway

Environment



Confirmation



Vibration and Shock

Environmental Confirmations

## Further information

Siemens has decided to exit the Russian market (see here).

 $\underline{\text{https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business}}$ 

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2017-1CK64-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-1CK64-3MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1CK64-3MA0

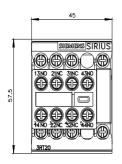
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

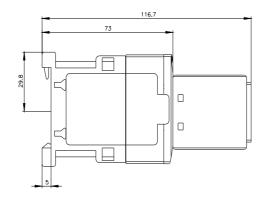
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-1CK64-3MA0&lang=en

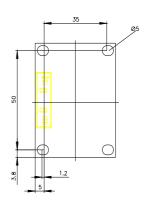
Characteristic: Tripping characteristics, I2t, Let-through current

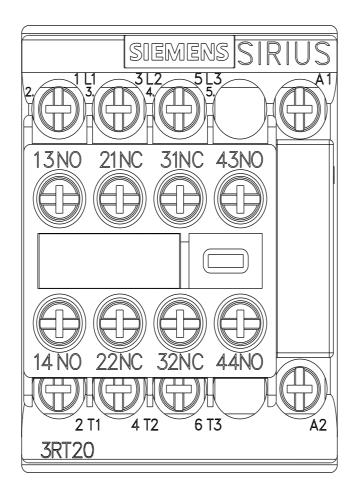
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1CK64-3MA0/char

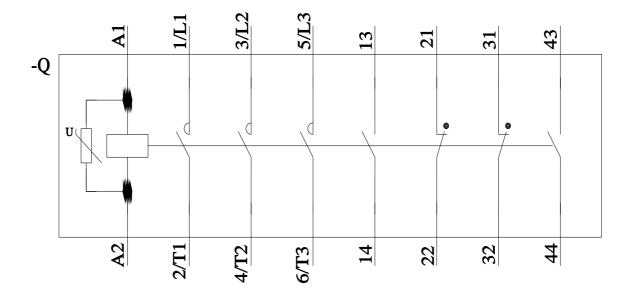
Further characteristics (e.g. electrical endurance, switching frequency)











last modified: 2/10/2023 🖸