3RT2035-1CK64-3MA0

## **Data sheet**



power contactor, AC-3e/AC-3, 41 A, 18.5 kW / 400 V, 3-pole, 110 V AC, 50 Hz / 120 V, 60 Hz, with plugged-in varistor, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, captive auxiliary switch

| product brand name   | SIRIUS                      |
|--|-----------------------------|
| product designation  | Power contactor             |
| product type designation   | 3RT2                        |
| General technical data   |                             |
| size of contactor  | S2                          |
| product extension  |                             |
| • function module for communication  | No                          |
| auxiliary switch   | No                          |
| power loss [W] for rated value of the current  |                             |
| • at AC in hot operating state   | 6.6 W                       |
| • at AC in hot operating state per pole  | 2.2 W                       |
| <ul> <li>without load current share typical</li> </ul>   | 6.5 W                       |
| type of calculation of power loss depending on pole  | quadratic                   |
| insulation voltage   |                             |
| <ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>                                   | 690 V                       |
| <ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>                              | 690 V                       |
| 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 protective separation between coil and main contacts according to EN 60947-1 | 400 V                       |
| shock resistance at rectangular impulse  |                             |
| • at AC  | 9.8g / 5 ms, 6.5g / 10 ms   |
| shock resistance with sine pulse   |                             |
| • at AC  | 15.3g / 5 ms, 10.1g / 10 ms |
| mechanical service life (operating cycles)   |                             |
| of contactor typical   | 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)  | 10/01/2014                  |
| SVHC substance name  | Lead - 7439-92-1            |
| Weight   | 1.093 kg                    |
| 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   | 95 %                        |

| maximum   |        |
|---|--------|
| ain circuit   |        |
| number of poles for main current circuit  | 3      |
| number of NO contacts for main contacts   | 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<br/>value</li> </ul> | 60 A   |
| • at AC-1   |        |
| — up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ rated value            | 60 A   |
| — up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value            | 55 A   |
| • at AC-3   |        |
| — at 400 V rated value  | 41 A   |
| — at 500 V rated value  | 41 A   |
| — at 690 V rated value  | 24 A   |
| • at AC-3e  |        |
| — at 400 V rated value  | 41 A   |
| — at 500 V rated value  | 41 A   |
| — at 690 V rated value  | 24 A   |
| • at AC-4 at 400 V rated value  | 35 A   |
| at AC-5a up to 690 V rated value  | 52.8 A |
| at AC-5b up to 400 V rated value  | 33.2 A |
| • at AC-6a  |        |
| — up to 230 V for current peak value n=20 rated value                             | 36.5 A |
| — up to 400 V for current peak value n=20 rated value                             | 36.5 A |
| — up to 500 V for current peak value n=20 rated value                             | 36.5 A |
| — up to 690 V for current peak value n=20 rated value                             | 24 A   |
| • at AC-6a  | 2477   |
| — up to 230 V for current peak value n=30 rated value                             | 24.2 A |
| — up to 400 V for current peak value n=30 rated value                             | 24.2 A |
| — up to 500 V for current peak value n=30 rated value                             | 24.2 A |
| — up to 690 V for current peak value n=30 rated value                             | 24 A   |
| minimum cross-section in main circuit at maximum AC-1 rated value                 | 16 mm² |
| operational current for approx. 200000 operating cycles at AC-4                   |        |
| • at 400 V rated value  | 22 A   |
|   |        |
| at 690 V rated value  | 18.5 A |
| operational current   |        |
| at 1 current path at DC-1  at 24 V and declare                                    |        |
| — at 24 V rated value   | 55 A   |
| — at 60 V rated value   | 23 A   |
| — at 110 V rated value  | 4.5 A  |
| — at 220 V rated value  | 1A     |
| — at 440 V rated value  | 0.4 A  |
| — at 600 V rated value  | 0.25 A |
| with 2 current paths in series at DC-1  |        |
| — at 24 V rated value   | 55 A   |
| — at 60 V rated value   | 45 A   |
| — at 110 V rated value  | 45 A   |
| — at 220 V rated value  | 5 A    |
| — at 440 V rated value  | 1 A    |
| — at 600 V rated value  | 0.8 A  |
| <ul> <li>with 3 current paths in series at DC-1</li> </ul>                        |        |
| — at 24 V rated value   | 55 A   |
| — at 60 V rated value   | 55 A   |
| — at 110 V rated value  | 55 A   |
| — at 220 V rated value  | 45 A   |

| at 440 V rated value  | 2.9 A   |
|---|---|
| — at 440 V rated value  |   |
| — at 600 V rated value  | 1.4 A   |
| at 1 current path at DC-3 at DC-5                                       |   |
| — at 24 V rated value   | 35 A  |
| — at 60 V rated value   | 6 A   |
| — at 220 V rated value  | 1 A   |
| — at 440 V rated value  | 0.1 A   |
| — at 600 V rated value  | 0.06 A  |
| <ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>      |   |
| — at 24 V rated value   | 55 A  |
| — at 60 V rated value   | 45 A  |
| — at 110 V rated value  | 25 A  |
| — at 220 V rated value  | 5 A   |
|   |   |
| — at 440 V rated value  | 0.27 A  |
| — at 600 V rated value  | 0.16 A  |
| <ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>      |   |
| — at 24 V rated value   | 55 A  |
| — at 60 V rated value   | 55 A  |
| — at 110 V rated value  | 55 A  |
| — at 220 V rated value  | 25 A  |
| — at 440 V rated value  | 0.6 A   |
| — at 600 V rated value  | 0.35 A  |
|   |   |
| operating power   | 10 5 kW   |
| at AC-2 at 400 V rated value  | 18.5 kW   |
| • at AC-3   |   |
| — at 230 V rated value  | 11 kW   |
| — at 400 V rated value  | 18.5 kW   |
| — at 500 V rated value  | 22 kW   |
| — at 690 V rated value  | 22 kW   |
| • at AC-3e  |   |
| — at 230 V rated value  | 11 kW   |
| — at 400 V rated value  | 18.5 kW   |
| — at 500 V rated value  | 22 kW   |
| — at 690 V rated value  | 22 kW   |
| operating power for approx. 200000 operating cycles at AC-              |   |
| 4   |   |
| at 400 V rated value  | 11.6 kW   |
| at 690 V rated value  | 16.8 kW   |
| operating apparent power at AC-6a                                       |   |
|   | 14.5 kVA  |
| up to 230 V for current peak value n=20 rated value                     |   |
| up to 400 V for current peak value n=20 rated value                     | 25.2 kVA  |
| up to 500 V for current peak value n=20 rated value                     | 31.6 kVA  |
| up to 690 V for current peak value n=20 rated value                     | 28.6 kVA  |
| operating apparent power at AC-6a                                       |   |
| <ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul> | 9.6 kVA   |
| <ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul> | 16.8 kVA  |
| • up to 500 V for current peak value n=30 rated value                   | 21 kVA  |
| • up to 690 V for current peak value n=30 rated value                   | 28.6 kVA  |
| short-time withstand current in cold operating state up to 40 °C        |   |
| limited to 1 s switching at zero current maximum                        | 843 A; Use minimum cross-section acc. to AC-1 rated value |
| Ilmited to 1 s switching at zero current maximum                        | 596 A; Use minimum cross-section acc. to AC-1 rated value |
| -   |   |
| Ilimited to 10 s switching at zero current maximum                      | 400 A; Use minimum cross-section acc. to AC-1 rated value |
| Iimited to 30 s switching at zero current maximum                       | 241 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 60 s switching at zero current maximum                       | 196 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency   |   |
| • at AC   | 5 000 1/h   |
| operating frequency   |   |
| <ul> <li>at AC-1 maximum</li> </ul>                                     | 1 200 1/h   |
| • at AC-2 maximum   | 750 1/h   |
| • at AC-3 maximum   | 1 000 1/h   |
|   |   |

| • at AC-3e maximum   | 1 000 1/h   |
|--|---|
| at AC-3e maximum     at AC-4 maximum   | 300 1/h   |
| Control circuit/ Control   |   |
| type of voltage of the control supply voltage  | AC  |
| control supply voltage at AC   | 7.0   |
| 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   | 212 VA  |
| • at 60 Hz   | 188 VA  |
| inductive power factor with closing power of the coil  | 0.00  |
| • at 50 Hz   | 0.69  |
| • at 60 Hz   | 0.65  |
| apparent holding power of magnet coil at AC  | 10 5 \/A  |
| • at 50 Hz   | 18.5 VA   |
| • at 60 Hz   | 16.5 VA   |
| inductive power factor with the holding power of the coil  | 0.36  |
| <ul><li>at 50 Hz</li><li>at 60 Hz</li></ul>  | 0.36<br>0.39  |
| closing delay  | 0.00  |
| • at AC  | 10 80 ms  |
| opening delay  | 10 00 III0  |
| • at AC  | 10 18 ms  |
| arcing time  | 10 20 ms  |
| control version of the switch operating mechanism  | Standard A1 - A2  |
| Auxiliary circuit  |   |
|  |   |
| design of the auxiliary switch   | on the front, non-detachable  |
| design of the auxiliary switch  number of NC contacts for auxiliary contacts instantaneous contact   | on the front, non-detachable  |
| number of NC contacts for auxiliary contacts instantaneous   |   |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous   | 2   |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact  | 2   |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum   | 2   |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15  | 2<br>2<br>10 A  |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15  • at 230 V rated value  | 2<br>2<br>10 A<br>6 A   |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value  | 2<br>2<br>10 A<br>6 A<br>3 A  |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value   | 2<br>2<br>10 A<br>6 A<br>3 A<br>2 A   |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value  | 2<br>2<br>10 A<br>6 A<br>3 A<br>2 A<br>1 A  |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value   | 2<br>2<br>10 A<br>6 A<br>3 A<br>2 A<br>1 A  |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value   | 2<br>10 A<br>6 A<br>3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A   |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 60 V rated value  • at 60 V rated value  • at 110 V rated value   | 2<br>10 A<br>6 A<br>3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>6 A<br>3 A                                   |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value  • at 400 V rated value  • at 500 V rated value  • at 690 V rated value  operational current at DC-12  • at 24 V rated value  • at 48 V rated value  • at 60 V rated value  • at 60 V rated value  • at 110 V rated value  • at 125 V rated value   | 2<br>10 A<br>6 A<br>3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>6 A<br>6 A<br>3 A<br>2 A                     |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value   | 2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A   |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value   | 2<br>10 A<br>6 A<br>3 A<br>2 A<br>1 A<br>10 A<br>6 A<br>6 A<br>6 A<br>6 A<br>3 A<br>2 A                     |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value  | 2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 1 A 0.15 A  |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value  | 2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7                             |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 690 V rated value  • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value   | 2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7                         |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value  operational current at DC-13 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 60 V rated value   | 2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  3 A  2 A  1 A  0.15 A  |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value  | 2 2 10 A 6 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7                             |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 110 V rated value • at 125 V rated value   | 2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  3 A  2 A  1 A  0.15 A                                     |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 110 V rated value • at 110 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 110 V rated value • at 125 V rated value   | 2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  6 A  7 A  1 A  0.15 A  6 A  2 A  1 A  0.9 A  0.3 A        |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 690 V rated value  • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 8 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 125 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 190 V rated value • at 220 V rated value   | 2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  3 A  2 A  1 A  0.15 A  6 A  2 A  1 A  0.9 A  0.3 A  0.1 A |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 125 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 110 V rated value • at 125 V rated value | 2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  6 A  1 A  0.15 A  6 A  2 A  1 A  0.9 A  0.3 A             |
| number of NC contacts for auxiliary contacts instantaneous contact  number of NO contacts for auxiliary contacts instantaneous contact  operational current at AC-12 maximum  operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 690 V rated value  • at 690 V rated value  operational current at DC-12  • at 24 V rated value • at 8 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 125 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 190 V rated value • at 220 V rated value   | 2  10 A  6 A  3 A  2 A  1 A  10 A  6 A  6 A  6 A  3 A  2 A  1 A  0.15 A  6 A  2 A  1 A  0.9 A  0.3 A  0.1 A |

|   | 10.1  |
|---|---|
| • at 480 V rated value  | 40 A  |
| at 600 V rated value  | 41 A  |
| yielded mechanical performance [hp]   |   |
| <ul> <li>for single-phase AC motor</li> </ul>   |   |
| — at 110/120 V rated value  | 3 hp  |
| — at 230 V rated value  | 7.5 hp  |
| <ul> <li>for 3-phase AC motor</li> </ul>  |   |
| — at 200/208 V rated value  | 10 hp   |
| — at 220/230 V rated value  | 15 hp   |
| — at 460/480 V rated value  | 30 hp   |
| — at 575/600 V rated value  | 40 hp   |
| contact rating of auxiliary contacts according to UL  | A600 / Q600   |
| Short-circuit protection  |   |
| design of the miniature circuit breaker for short-circuit protection of the auxiliary circuit up to 230 V | C characteristic: 10 A; 0.4 kA  |
| design of the fuse link   |   |
| <ul> <li>for short-circuit protection of the main circuit</li> </ul>                                      |   |
| — with type of coordination 1 required  | gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)   |
| • 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 side-by-side mounting  | Yes   |
| fastening method  | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715          |
| height  | 114 mm  |
| width   | 55 mm   |
| depth   | 174 mm  |
| required spacing  |   |
| with side-by-side mounting  |   |
| — 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  | 10 11111  |
| — forwards  | 10 mm   |
| — ioiwaius<br>— upwards   | 10 mm   |
| — upwaros<br>— downwards  | 10 mm   |
|   |   |
| — at the side   | 6 mm  |
| Connections/ Terminals  |   |
| type of electrical connection   |   |
| for main current circuit  | 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  |
| of magnet coil  | Screw-type terminals  |
| type of connectable conductor cross-sections  |   |
| • for main contacts   |   |
| <ul><li>— solid or stranded</li></ul>   | 2x (1 35 mm²), 1x (1 50 mm²)  |
| <ul> <li>finely stranded with core end processing</li> </ul>  | 2x (1 25 mm²), 1x (1 35 mm²)  |
| • for AWG cables for main contacts  | 2x (18 2), 1x (18 1)  |
| connectable conductor cross-section for main contacts   |   |
| <ul> <li>finely stranded with core end processing</li> </ul>  | 1 35 mm²  |
| connectable conductor cross-section for auxiliary contacts  |   |
| solid or stranded   | 0.5 2.5 mm²   |
| • finely stranded with core end processing  | 0.5 2.5 mm²   |
| type of connectable conductor cross-sections  |   |
| ••  |   |

| <ul> <li>for auxiliary contacts</li> </ul>                                 |  |
|--|--|
| <ul><li>— solid or stranded</li></ul>                                      | 2x (0.5 1.5 mm²), 2x (0.75 2.5 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>for AWG cables for auxiliary contacts</li> </ul>                  | 2x (20 16), 2x (18 14)                           |
| AWG number as coded connectable conductor cross section                    |  |
| <ul> <li>for main contacts</li> </ul>                                      | 18 1   |
| <ul> <li>for auxiliary contacts</li> </ul>                                 | 20 14  |
| Safety related data  |  |
| product function   |  |
| <ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>              | Yes  |
| <ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul> | No   |
| suitable for safety function   | Yes  |
| suitability for use safety-related switching OFF                           | Yes  |
| service life maximum   | 20 a   |
| test wear-related service life necessary                                   | Yes  |
| 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 %   |
| B10 value with high demand rate according to SN 31920                      | 1 000 000  |
| failure rate [FIT] with low demand rate according to SN 31920              | 100 FIT  |
| ISO 13849  |  |
| device type according to ISO 13849-1                                       | 3  |
| overdimensioning according to ISO 13849-2 necessary                        | Yes  |
| IEC 61508  |  |
| safety device type according to IEC 61508-2                                | Type A   |
| Electrical Safety  |  |
| 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 |
| Approvals Certificates   |  |
| Conord Broduct Approval  |  |

## General Product Approval









<u>KC</u>



EMV Test Certificates Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping other Railway









Confirmation

Special Test Certificate

Dangerous goods Environment

<u>Transport Information</u> <u>Environmental Confirmations</u>

urther information

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=3RT2035-1CK64-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-1CK64-3MA0

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1CK64

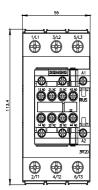
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2035-1CK64-3MA0&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2035-1CK64-3MA0&lang=en</a>

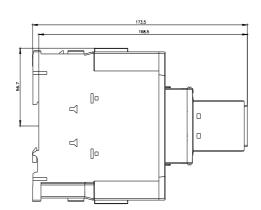
Characteristic: Tripping characteristics, I2t, Let-through current

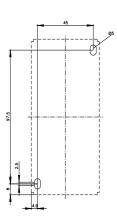
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-1CK64-3MA0/char

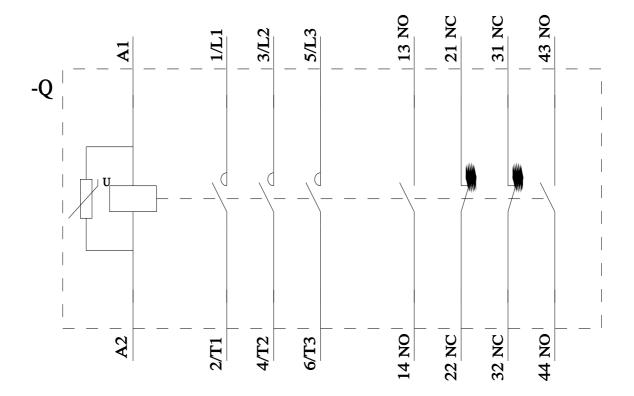
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-1CK64-3MA0&objecttype=14&gridview=view1









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