# **SIEMENS**

Data sheet 3RT2024-4AK60



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO + 1 NC, 110 V AC, 50 Hz 120 V, 60 Hz, 3-pole Size S0 ring cable lug connection

| product brand name  | SIRIUS                     |
|---|----------------------------|
| product designation   | Power contactor            |
| product type designation  | 3RT2                       |
| General technical data  |                            |
| size of contactor   | S0                         |
| product extension   |                            |
| <ul> <li>function module for communication</li> </ul>   | No                         |
| auxiliary switch  | Yes                        |
| 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>  | 7.9 W                      |
| 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                       |
| of auxiliary circuit rated value  | 6 kV                       |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1       | 400 V                      |
| shock resistance at rectangular impulse   |                            |
| • at AC   | 7,5g / 5 ms, 4,7g / 10 ms  |
| shock resistance with sine pulse  |                            |
| • at AC   | 11,8g / 5 ms, 7,4g / 10 ms |
| mechanical service life (switching 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                  |
| <ul> <li>of the contactor with added auxiliary switch block<br/>typical</li> </ul>                          | 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   |                            |
| <ul> <li>during operation</li> </ul>  | -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                           |
| 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  |                             |
| at AC-1 at 400 V at ambient temperature 40 °C  | 40 A                        |
| rated value  ■ at AC-1   |                             |
| — up to 690 V at ambient temperature 40 °C   | 40 A                        |
| rated value  | 40 A                        |
| — up to 690 V at ambient temperature 60 °C   | 35 A                        |
| rated value  |                             |
| • at AC-3  |                             |
| — at 400 V rated value   | 12 A                        |
| — at 500 V rated value   | 12 A                        |
| — at 690 V rated value   | 9 A                         |
| • at AC-3e   |                             |
| — at 400 V rated value   | 12 A                        |
| — at 500 V rated value   | 12 A                        |
| — at 690 V rated value   | 9 A                         |
| • at AC-4 at 400 V rated value   | 12.5 A                      |
| • at AC-5a up to 690 V rated value   | 35.2 A                      |
| at AC-5b up to 400 V rated value   | 9.9 A                       |
| • at AC-6a   |                             |
| <ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>                                      | 11.4 A                      |
| <ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>                                      | 11.4 A                      |
| <ul> <li>up to 500 V for current peak value n=20 rated</li> </ul>  | 11.3 A                      |
| value  |                             |
| <ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>                                      | 9 A                         |
| • at AC-6a   |                             |
| <ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>                                      | 7.6 A                       |
| — up to 400 V for current peak value n=30 rated value  | 7.6 A                       |
| — up to 500 V for current peak value n=30 rated value  | 7.6 A                       |
| — up to 690 V for current peak value n=30 rated value  minimum cross-section in main circuit at maximum AC-1 | 7.6 A<br>10 mm <sup>2</sup> |
| rated value  | IV IIIII                    |
| operational current for approx. 200000 operating cycles at AC-4  |                             |
| <ul> <li>at 400 V rated value</li> </ul>   | 5.5 A                       |
| at 690 V rated value   | 5.5 A                       |
| operational current  |                             |
| • at 1 current path at DC-1  |                             |
| — at 24 V rated value  | 35 A                        |
| — at 110 V rated value   | 4.5 A                       |
| — at 220 V rated value   | 1 A                         |
| — at 440 V rated value   | 0.4 A                       |
| — at 600 V rated value   | 0.25 A                      |
| <ul><li>with 2 current paths in series at DC-1</li></ul>   |                             |
| — at 24 V rated value  | 35 A                        |
| — at 110 V rated value   | 35 A                        |
| — at 220 V rated value   | 5 A                         |
| — at 440 V rated value   | 1 A                         |
| at COO \/ rated value  | 0.8 A                       |
| — at 600 V rated value   | 0.0 A                       |

| — at 24 V rated value   | 35 A  |
|---|---|
| — at 110 V rated value  | 35 A  |
| — at 220 V rated value  | 35 A  |
| — at 440 V rated value  | 2.9 A   |
| — at 600 V rated value  | 1.4 A   |
| <ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>                 |   |
| — at 24 V rated value   | 20 A  |
| — at 110 V rated value  | 2.5 A   |
| — at 220 V rated value  | 1 A   |
| — at 440 V rated value  | 0.09 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   | 35 A  |
| — at 110 V rated value  | 15 A  |
| — at 220 V rated value  | 3 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   | 35 A  |
| — at 110 V rated value  | 35 A  |
| — at 220 V rated value  | 10 A  |
| — at 440 V rated value  | 0.6 A   |
| — at 600 V rated value  | 0.6 A   |
| operating power   |   |
| • 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  | 7.5 kW  |
| • at AC-3e  |   |
| — at 230 V rated value  | 3 kW  |
| — at 400 V rated value  | 5.5 kW  |
| — at 400 V rated value  | 5.5 kW  |
| — at 690 V rated value  | 7.5 kW  |
| operating power for approx. 200000 operating cycles                   | 1.0 KH  |
| at AC-4   |   |
| • at 400 V rated value  | 2.6 kW  |
| • at 690 V rated value  | 4.6 kW  |
| operating apparent power at AC-6a                                     |   |
| • up to 230 V for current peak value n=20 rated value                 | 4.5 kVA   |
| • up to 400 V for current peak value n=20 rated value                 | 7.8 kVA   |
| • up to 500 V for current peak value n=20 rated value                 | 9.8 kVA   |
| • up to 690 V for current peak value n=20 rated value                 | 10.7 kVA  |
| operating apparent power at AC-6a                                     |   |
| up to 230 V for current peak value n=30 rated value                   | 3 kVA   |
| • up to 400 V for current peak value n=30 rated value                 | 5.2 kVA   |
| • up to 500 V for current peak value n=30 rated value                 | 6.5 kVA   |
| • up to 690 V for current peak value n=30 rated value                 | 9 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>  | 210 A; Use minimum cross-section acc. to AC-1 rated value |
| <ul> <li>limited to 5 s switching at zero current maximum</li> </ul>  | 210 A; Use minimum cross-section acc. to AC-1 rated value |
| <ul> <li>limited to 10 s switching at zero current maximum</li> </ul> | 162 A; Use minimum cross-section acc. to AC-1 rated value |
| <ul> <li>limited to 30 s switching at zero current maximum</li> </ul> | 103 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 60 s switching at zero current maximum                     | 88 A; Use minimum cross-section acc. to AC-1 rated value  |
| no-load switching frequency   |   |
| • at AC   | 5 000 1/h   |
| operating frequency   |   |
| • at AC-1 maximum   | 1 000 1/h   |
| • at AC-2 maximum   | 1 000 1/h   |
| • at AC-3 maximum   | 1 000 1/h   |
| - at 10 o maximum   | i vvv iiii  |

| a at AC 2a mayimum  | 1 000 1/b   |
|---|---|
| • at AC-3e maximum  | 1 000 1/h   |
| at AC-4 maximum  Control sirevit/ Control   | 300 1/h   |
| Control circuit/ Control  | 10  |
| type of voltage of the control supply voltage   | AC  |
| control supply voltage at AC  | 440.17  |
| at 50 Hz rated value  | 110 V   |
| at 60 Hz rated value  | 120 V   |
| operating range factor control supply voltage rated<br>value of magnet coil at AC   |   |
| • at 50 Hz  | 0.8 1.1   |
| • at 60 Hz  | 0.8 1.1   |
| apparent pick-up power of magnet coil at AC   | 0.0 7.1   |
| • at 50 Hz  | 68 VA   |
| • at 60 Hz  | 67 VA   |
| inductive power factor with closing power of the coil   | •   |
| • at 50 Hz  | 0.72  |
| • at 60 Hz  | 0.74  |
| apparent holding power of magnet coil at AC   |   |
| • at 50 Hz  | 7.9 VA  |
| • at 60 Hz  | 6.5 VA  |
| inductive power factor with the holding power of the  |   |
| coil  |   |
| ● at 50 Hz  | 0.25  |
| ● at 60 Hz  | 0.28  |
| closing delay   |   |
| • at AC   | 8 40 ms   |
| opening delay   |   |
| • at AC   | 4 16 ms   |
| arcing time   | 10 10 ms  |
| control version of the switch operating mechanism   | Standard A1 - A2  |
| Auxiliary circuit   |   |
|   |   |
| number of NC contacts for auxiliary contacts instantaneous contact  | 1   |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact   | 1   |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  |   |
| 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   | 1<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   | 1<br>10 A<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 • at 400 V rated value  | 1<br>10 A<br>10 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   | 1<br>10 A<br>10 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   | 1<br>10 A<br>10 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   | 1<br>10 A<br>10 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   | 1 10 A 10 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   | 1<br>10 A<br>10 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  | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 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  | 1 10 A 10 A 3 A 2 A 1 A  10 A 6 A 6 A 6 A 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 110 V rated value • at 115 V rated value • at 125 V rated value   | 1 10 A 10 A 3 A 2 A 1 A  10 A 6 A 6 A 6 A 3 A 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 48 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value   | 1 10 A 10 A 3 A 2 A 1 A  10 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 • at 600 V rated value • at 600 V rated value   | 1 10 A 10 A 3 A 2 A 1 A  10 A 6 A 6 A 6 A 3 A 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 600 V rated value   | 1 10 A 10 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 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 • 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 24 V rated value   | 1 10 A 10 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 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 220 V rated value • at 600 V rated value • at 220 V rated value • at 600 V rated value  | 1 10 A 10 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 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   | 1 10 A 10 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 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value   | 1 10 A 10 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 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 48 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 110 V rated value   | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 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 600 V rated value • at 600 V rated value • at 600 V rated value • at 100 V rated value • at 110 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value   | 1 10 A 10 A 3 A 2 A 1 A  10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 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 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 • at 600 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 220 V rated value • at 30 V rated value • at 48 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value   | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 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 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 • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 125 V rated value • at 220 V rated value • at 30 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value                                | 1 10 A 10 A 3 A 2 A 1 A  10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 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 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 220 V rated value • at 600 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 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 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 • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 125 V rated value • at 220 V rated value • at 30 V rated value • at 48 V rated value • at 48 V rated value • at 48 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value                                | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 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  | 1 hp   |
| — at 230 V rated value  | 2 hp   |
| for 3-phase AC motor  |  |
| — at 200/208 V rated value  | 3 hp   |
| <ul> <li>at 220/230 V rated value</li> </ul>                      | 3 hp   |
| <ul> <li>at 460/480 V rated value</li> </ul>                      | 7.5 hp   |
| — at 575/600 V rated value  | 10 hp  |
| contact rating of auxiliary contacts according to UL              | A600 / P600  |
| Short-circuit protection  |  |
| design of the fuse link   |  |
| for short-circuit protection of the main circuit                  |  |
| <ul> <li>— with type of coordination 1 required</li> </ul>        | gG: 63A (690V,100kA), aM: 32A (690V,100kA), BS88: 63A (415V,80kA)                      |
| with type of assignment 2 required                                | gG: 25A (690V,100kA), aM: 20A (690V,100kA), BS88: 25A (415V,80kA)                      |
| for short-circuit protection of the auxiliary switch              | gG: 10 A (500 V, 1 kA)   |
| required  | g =(   |
| 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 |
| side-by-side mounting   | Yes  |
| height  | 85 mm  |
| width   | 45 mm  |
| depth   | 97 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  |
| • for live parts  |  |
| — forwards  | 10 mm  |
| — upwards   | 10 mm  |
| — downwards   | 10 mm  |
| — at the side   | 6 mm   |
| Connections/ Terminals  |  |
|   |  |
| type of electrical connection                                     | Ding cable lug connection  |
| for main current circuit     for applications and control circuit | Ring cable lug connection  |
| for auxiliary and control circuit                                 | ring terminal lug connection   |
| at contactor for auxiliary contacts                               | Ring cable lug connection  |
| of magnet coil  | Ring cable lug connection  |
| Safety related data   |  |
| product function  |  |
| mirror contact according to IEC 60947-4-1                         | Yes  |
| B10 value with high demand rate according to SN 31920             | 450 000  |
| proportion of dangerous failures                                  |  |
| <ul> <li>with low demand rate according to SN 31920</li> </ul>    | 40 %   |
| with high demand rate according to SN 31920                       | 73 %   |
| failure rate [FIT] with low demand rate according to SN           | 100 FIT  |
| 31920   |  |
| protection class IP on the front according to IEC 60529           | IP00   |
| suitability for use   |  |

Yes

#### Certificates/ approvals

### **General Product Approval**





Confirmation



<u>KC</u>



**EMC** 

Functional Safety/Safety of Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate UK Declaration of Conformity



Type Test Certificates/Test Report

Special Test Certificate

## Marine / Shipping













Marine / Shipping

other



Confirmation



Confirmation

#### **Further information**

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=3RT2024-4AK60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2024-4AK60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-4AK60

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

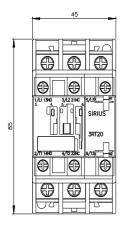
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2024-4AK60&lang=en

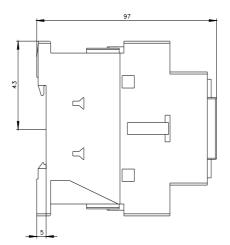
Characteristic: Tripping characteristics, I2t, Let-through current

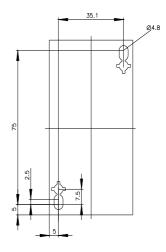
https://support.industry.siemens.com/cs/ww/en/ps/3RT2024-4AK60/char

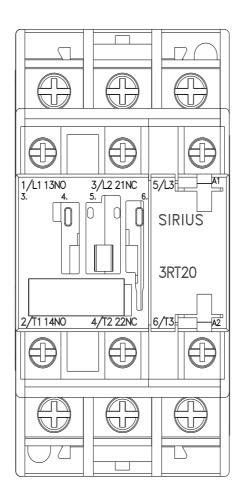
Further characteristics (e.g. electrical endurance, switching frequency)

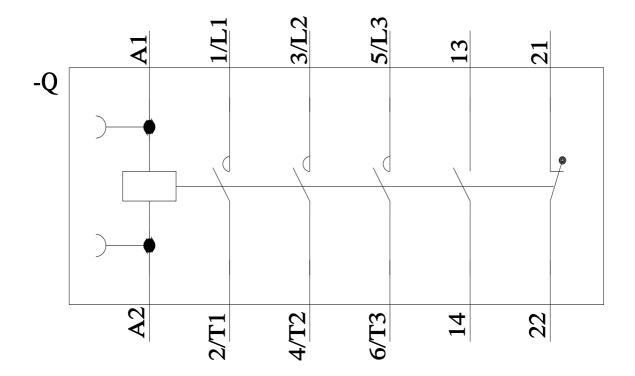
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2024-4AK60&objecttype=14&gridview=view1











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