Data sheet 3RT2037-1CL24-3MA0



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 230 V AC, 50/60 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  |                             |
| <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>   | 11.4 W                      |
| <ul> <li>at AC in hot operating state per pole</li> </ul>  | 3.8 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                        |
| 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  | 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)   |                             |
| <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)  |                             |
| SVHC substance name  | Lead - 7439-92-1            |
| Weight   | 1.09 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> | 80 A   |
| • at AC-1   |        |
| — up to 690 V at ambient temperature 40 °C rated value                            | 80 A   |
| — up to 690 V at ambient temperature 60 °C rated value                            | 70 A   |
| • at AC-3   | 05.4   |
| — at 400 V rated value  | 65 A   |
| — at 500 V rated value  | 65 A   |
| <ul><li>— at 690 V rated value</li><li>• at AC-3e</li></ul>                       | 47 A   |
| — at 400 V rated value  | 65 A   |
| — at 500 V rated value  | 65 A   |
| — at 690 V rated value  | 47 A   |
| • at AC-4 at 400 V rated value  | 55 A   |
| <ul> <li>at AC-5a up to 690 V rated value</li> </ul>                              | 70.4 A |
| <ul> <li>at AC-5b up to 400 V rated value</li> </ul>                              | 53.9 A |
| • at AC-6a  |        |
| — up to 230 V for current peak value n=20 rated value                             | 56.9 A |
| — up to 400 V for current peak value n=20 rated value                             | 56.9 A |
| — up to 500 V for current peak value n=20 rated value                             | 56.9 A |
| — up to 690 V for current peak value n=20 rated value                             | 47 A   |
| • at AC-6a  |        |
| — up to 230 V for current peak value n=30 rated value                             | 38 A   |
| — up to 400 V for current peak value n=30 rated value                             | 38 A   |
| — up to 500 V for current peak value n=30 rated value                             | 38 A   |
| — up to 690 V for current peak value n=30 rated value                             | 38 A   |
| minimum cross-section in main circuit at maximum AC-1 rated value                 | 25 mm² |
| operational current for approx. 200000 operating cycles at AC-4                   |        |
| at 400 V rated value  | 28 A   |
| at 690 V rated value  | 22 A   |
| operational current   |        |
| at 1 current path at DC-1   |        |
| — 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  | 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   | 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 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  | 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  |   |
| • at AC-2 at 400 V rated value   | 30 kW   |
| • at AC-3  |   |
| — at 230 V rated value   | 18.5 kW   |
| — at 400 V rated value   | 30 kW   |
| — at 500 V rated value   | 37 kW   |
| — at 690 V rated value   | 37 kW   |
| • at AC-3e   |   |
| — at 230 V rated value   | 18.5 kW   |
| — at 400 V rated value   | 30 kW   |
| — at 500 V rated value   | 37 kW   |
| — at 690 V rated value   | 37 kW   |
| operating power for approx. 200000 operating cycles at AC-                       |   |
| 4  |   |
| • at 400 V rated value   | 14.7 kW   |
| at 690 V rated value   | 20 kW   |
| operating apparent power at AC-6a  |   |
| <ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>          | 22.6 kVA  |
| <ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>          | 39.4 kVA  |
| • up to 500 V for current peak value n=20 rated value                            | 49.2 kVA  |
| up to 690 V for current peak value n=20 rated value                              | 56.1 kVA  |
| operating apparent power at AC-6a  |   |
| • up to 230 V for current peak value n=30 rated value                            | 15.1 kVA  |
| • up to 400 V for current peak value n=30 rated value                            | 26.2 kVA  |
| • up to 500 V for current peak value n=30 rated value                            | 32.8 kVA  |
| • up to 690 V for current peak value n=30 rated value                            | 45.3 kVA  |
| short-time withstand current in cold operating state up to 40 $^{\circ}\text{C}$ |   |
| <ul> <li>limited to 1 s switching at zero current maximum</li> </ul>             | 1 055 A; Use minimum cross-section acc. to AC-1 rated value |
| <ul> <li>limited to 5 s switching at zero current maximum</li> </ul>             | 730 A; Use minimum cross-section acc. to AC-1 rated value   |
| <ul> <li>limited to 10 s switching at zero current maximum</li> </ul>            | 520 A; Use minimum cross-section acc. to AC-1 rated value   |
| <ul> <li>limited to 30 s switching at zero current maximum</li> </ul>            | 336 A; Use minimum cross-section acc. to AC-1 rated value   |
| Iimited to 60 s switching at zero current maximum                                | 272 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  | 800 1/h   |
| • at AC-2 maximum  | 400 1/h   |
| • at AC-3 maximum  | 700 1/h   |
|  |   |

| at AC-3e maximum  | 700 1/h   |
|---|---|
| • at AC-4 maximum   | 200 1/h   |
| Control circuit/ Control  |   |
| type of voltage of the control supply voltage   | AC  |
| control supply voltage at AC  |   |
| at 50 Hz rated value  | 230 V   |
| at 60 Hz rated value  | 230 V   |
| operating range factor control supply voltage rated value of magnet coil at AC  |   |
| • at 50 Hz  | 0.8 1.1   |
| • at 60 Hz  | 0.85 1.1  |
| design of the surge suppressor  | with varistor   |
| apparent pick-up power of magnet coil at AC   |   |
| ● at 50 Hz  | 210 VA  |
| • at 60 Hz  | 188 VA  |
| inductive power factor with closing power of the coil   |   |
| ● at 50 Hz  | 0.69  |
| • at 60 Hz  | 0.65  |
| apparent holding power of magnet coil at AC   |   |
| • at 50 Hz  | 17.2 VA   |
| • at 60 Hz  | 16.5 VA   |
| inductive power factor with the holding power of the coil   |   |
| • at 50 Hz  | 0.36  |
| • at 60 Hz  | 0.39  |
| closing delay   | 40 00   |
| • at AC   | 10 80 ms  |
| opening delay   | 10 10 mg  |
| • at AC   | 10 18 ms  |
| arcing time   | 10 20 ms  |
| control version of the switch operating mechanism  Auxiliary circuit  | Standard A1 - A2  |
|   |   |
| design of the auxiliary switch  | on the front, non-detachable  |
| design of the auxiliary switch  number of NC contacts for auxiliary contacts instantaneous  | on the front, non-detachable  |
| number of NC 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   | 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  | 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  • at 690 V rated value  operational current at DC-12  | 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   | 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 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 125 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 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 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 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 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 24 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 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 125 V rated value • at 125 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 48 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 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 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 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 110 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 220 V rated value • at 600 V rated value • at 110 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 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 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 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 24 V rated value • at 25 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 125 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 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 24 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 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 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 24 V rated value • at 25 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 125 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 |

| at 480 V rated value   | 65 A   |
|--|--|
| at 400 V rated value     at 600 V rated value  | 52 A   |
| yielded mechanical performance [hp]  | 02 A   |
| • for single-phase AC motor  |  |
| — at 110/120 V rated value   | 5 hp   |
| — at 230 V rated value   | 10 hp  |
| • for 3-phase AC motor   | TO TIP   |
| — at 200/208 V rated value   | 20 hp  |
| — at 220/230 V rated value   | 20 hp  |
| — at 460/480 V rated value   | 50 hp  |
| — at 575/600 V rated value   | 50 hp  |
| contact rating of auxiliary contacts according to UL   | A600 / Q600  |
| Short-circuit protection   | 7,5507 Q500  |
| design of the fuse link  |  |
| for short-circuit protection of the main circuit   |  |
| — with type of coordination 1 required   | gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80 kA)   |
| — with type of assignment 2 required   | gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (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   |
| 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   |  |
| — forwards   | 10 mm  |
| — upwards  | 10 mm  |
| — downwards  | 10 mm  |
| — at the side  | 6 mm   |
| Connections/ Terminals   |  |
| type of electrical connection  | corous tupo terminole  |
| for main current circuit     for availing and control circuit  | screw-type terminals   |
| for auxiliary and control circuit  | screw-type terminals   |
| at contactor for auxiliary contacts     of magnet coil.  | Screw-type terminals   |
| of magnet coil  tune of connectable conductor cross sections   | Screw-type terminals   |
| type of connectable conductor cross-sections  • for main contacts                                      |  |
| solid or stranded  | 2v (1 35 mm²) 1v (1 50 mm²)  |
|  | 2x (1 35 mm²), 1x (1 50 mm²)<br>2x (1 25 mm²) 1x (1 35 mm²)  |
| <ul> <li>finely stranded with core end processing</li> <li>for AWG cables for main contacts</li> </ul> | 2x (1 25 mm²), 1x (1 35 mm²)   |
| connectable conductor cross-section for main contacts  | 2x (18 2), 1x (18 1)   |
| finely stranded with core end processing   | 1 35 mm²   |
| connectable conductor cross-section for auxiliary contacts   | 1 00 mm  |
| solid or stranded  | 0.5 2.5 mm²  |
|  | 0.5 2.5 mm <sup>2</sup>  |
| finely stranded with core end processing  type of connectable conductor cross-sections                 | V.O 2.0 IIIIII   |
| for auxiliary contacts   |  |
| — solid or stranded  | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  |
| Joing of Strainged   | ZA (0.0 1.0 mm ), ZA (0.10 Z.0 mm )  |

| finally atronded with some and processing                                  | 0x (0 F 4 F mm2) 0x (0 7F 0 F mm2)                    |
|--|---|
| — finely stranded with core end processing                                 | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)                   |
| for AWG cables for auxiliary contacts                                      | 2x (20 16), 2x (18 14)                                |
| AWG number as coded connectable conductor cross section                    |   |
| for main contacts  | 18 1  |
| for auxiliary contacts   | 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 %  |
| with high demand rate according to SN 31920                                | 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  |   |
| Electrical Safety protection class IP on the front according to IEC 60529  | IP20  |
|  | IP20 finger-safe, for vertical contact from the front |
| protection class IP on the front according to IEC 60529                    |   |

Confirmation







<u>KC</u>

General Product Approval

EMV

**Functional Saftey** 

**Test Certificates** 

Marine / Shipping





Type Examination Certificate

Special Test Certificate

Type Test Certificates/Test Report



Marine / Shipping











Confirmation

other

other

Railway

Dangerous goods

Environment

Confirmation

**Special Test Certific**ate

**Transport Information** 

Environmental Con-firmations

Further 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=3RT2037-1CL24-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1CL24-3MA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1CL24-3MA0

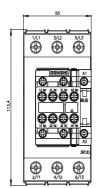
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

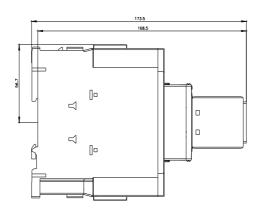
Characteristic: Tripping characteristics, I²t, Let-through current

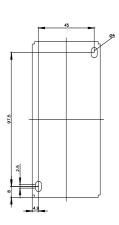
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1CL24-3MA0/char

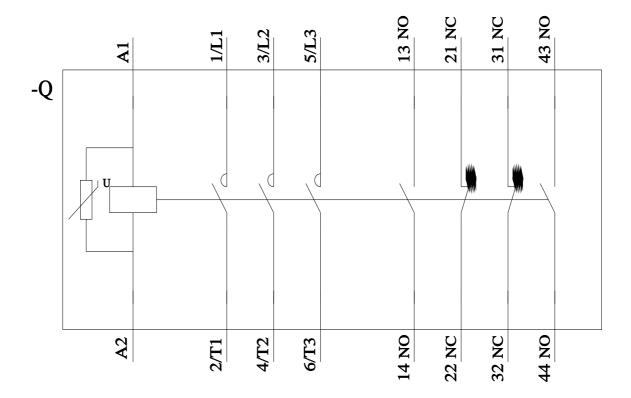
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1CL24-3MA0&objecttype=14&gridview=view1









last modified: