# SIEMENS

#### Product data sheet

## 3RT2036-1AH20



CONTACTOR,AC3:22KW/400V, 1NO+1NC, 48V AC 50/60HZ, 3-POLE, SIZE S2, SCREW TERMINAL

| General technical data:   |    |            |
|---|----|------------|
| product brand name  |    | SIRIUS     |
| Size of contactor   |    | S2         |
| Product expansion   |    |            |
| Auxiliary switch  |    | Yes        |
| function module for communication   |    | No         |
| Protection class IP / on the front  |    | IP20       |
| Degree of pollution   |    | 3          |
| Installation altitude / at height above sea level / maximum   | m  | 2,000      |
| Ambient temperature   |    |            |
| during storage  | °C | -55 +80    |
| during operation  | °C | -25 +60    |
| Surge voltage resistance / Rated value  | kV | 6          |
| Insulation voltage / Rated value  | V  | 690        |
| maximum permissible voltage for safe isolation / between coil and main contacts / acc. to EN 60947-1        | V  | 400        |
| Mechanical service life (switching cycles)  |    |            |
| of the contactor / typical  |    | 10,000,000 |
| of the contactor with added auxiliary switch block / typical  |    | 10,000,000 |
| <ul> <li>of the contactor with added electronics-compatible auxiliary<br/>switch block / typical</li> </ul> |    | 5,000,000  |

| Main circuit:  |     |      |
|--|-----|------|
| Number of NC contacts / for main contacts                        |     | 0    |
| Number of NO contacts / for main contacts                        |     | 3    |
| Connectable conductor cross-section / in main circuit            |     |      |
| • at AC-1  |     |      |
| • at 40 °C / minimum permissible                                 | mm² | 25   |
| • at 60 °C / minimum permissible                                 | mm² | 25   |
| Operating current  |     |      |
| • at AC-1 / up to 690 V  |     |      |
| • at ambient temperature 40 °C / Rated value                     | А   | 70   |
| • at ambient temperature 60 °C / Rated value                     | А   | 60   |
| • at AC-2 / at 400 V / Rated value                               | А   | 51   |
| • at AC-3  |     |      |
| • at 400 V / Rated value   | А   | 51   |
| • at 500 V / Rated value   | А   | 50   |
| • at 690 V / Rated value   | А   | 24   |
| • at AC-4 / at 400 V / Rated value                               | А   | 41   |
| Operating current / for $\geq$ 200000 operating cycles / at AC-4 |     |      |
| • at 400 V / Rated value   | А   | 24   |
| • at 690 V / Rated value   | А   | 20   |
| Operating current  |     |      |
| • with 1 current path / at DC-1                                  |     |      |
| • at 24 V / Rated value  | А   | 60   |
| • at 110 V / Rated value   | А   | 4.5  |
| • at 220 V / Rated value   | А   | 2    |
| • at 440 V / Rated value   | А   | 0.4  |
| • at 600 V / Rated value   | А   | 0.25 |
| • with 2 current paths in series / at DC-1                       |     |      |
| • at 24 V / Rated value  | А   | 60   |
| • at 110 V / Rated value   | А   | 45   |
| • at 220 V / Rated value   | А   | 5    |
| • at 440 V / Rated value   | А   | 1    |
| • at 600 V / Rated value   | А   | 0.8  |
| • with 3 current paths in series / at DC-1                       |     |      |
| • at 24 V / Rated value  | А   | 55   |
| • at 110 V / Rated value   | А   | 45   |
| • at 220 V / Rated value   | А   | 45   |
| • at 440 V / Rated value   | А   | 2.9  |
| • at 600 V / Rated value   | А   | 1.4  |

| Operating current  |     |       |
|--|-----|-------|
| • with 1 current path / at DC-3 / at DC-5  |     |       |
| • at 24 V / Rated value  | А   | 35    |
| • at 110 V / Rated value   | А   | 2.5   |
| • at 220 V / Rated value   | А   | 2     |
| • at 440 V / Rated value   | А   | 0.1   |
| • at 600 V / Rated value   | А   | 0.06  |
| • with 2 current paths in series / at DC-3 / at DC-5   |     |       |
| • at 24 V / Rated value  | А   | 55    |
| • at 110 V / Rated value   | А   | 25    |
| • at 220 V / Rated value   | А   | 5     |
| • at 440 V / Rated value   | А   | 0.27  |
| • at 600 V / Rated value   | А   | 0.16  |
| • with 3 current paths in series / at DC-3 / at DC-5   |     |       |
| • at 24 V / Rated value  | А   | 55    |
| • at 110 V / Rated value   | А   | 45    |
| • at 220 V / Rated value   | А   | 25    |
| • at 440 V / Rated value   | А   | 0.6   |
| • at 600 V / Rated value   | А   | 0.6   |
| Dperating power  |     |       |
| • at AC-1 / at 230 V / Rated value   | kW  | 26    |
| • at AC-1 / at 400 V / Rated value   | kW  | 46    |
| • at AC-1 / at 690 V / Rated value   | kW  | 79    |
| • at AC-2  |     |       |
| • at 400 V / Rated value   | kW  | 22    |
| • at AC-3  |     |       |
| • at 230 V / Rated value   | kW  | 15    |
| • at 400 V / Rated value   | kW  | 22    |
| • at 500 V / Rated value   | kW  | 30    |
| • at 690 V / Rated value   | kW  | 22    |
| • at AC-4  |     |       |
| • at 400 V / Rated value   | kW  | 22    |
| Dperating power / for $\ge$ 200000 operating cycles / at AC-4  |     |       |
| • at 400 V / Rated value   | kW  | 12.6  |
| • at 690 V / Rated value   | kW  | 18.2  |
| Thermal short-time current / restricted to 10 s  | А   | 420   |
| Active power loss / at AC-3 / at 400 V / for rated value of the<br>operating current / per conductor | W   | 4     |
| No-load switching frequency  |     |       |
| • with AC  | 1/h | 5,000 |

| Operating frequency  |     |          |
|--|-----|----------|
| • at AC-1 / maximum  | 1/h | 1,200    |
| • at AC-2 / maximum  | 1/h | 600      |
| • at AC-3 / maximum  | 1/h | 1,000    |
| • at AC-4 / maximum  | 1/h | 300      |
| Control circuit/ Control:  |     |          |
| Type of voltage / of the control supply voltage                                |     | AC       |
| Control supply voltage   | _   |          |
| • with AC / at 50 Hz / Rated value   | V   | 48       |
| • with AC / at 60 Hz / Rated value   | V   | 48       |
| Operating range factor control supply voltage rated value / of the magnet coil | _   |          |
| • with AC / at 50 Hz   |     | 0.8 1.1  |
| • with AC / at 60 Hz   |     | 0.85 1.1 |
| Apparent pick-up power / of the magnet coil / with AC                          |     |          |
| • at 50 Hz   | V·A | 210      |
| • at 60 Hz   | V·A | 188      |
| Apparent holding power / of the magnet coil / with AC                          |     |          |
| • at 50 Hz   | V·A | 17.2     |
| • at 60 Hz   | V·A | 16.5     |
| Closing delay  |     |          |
| • with AC  | ms  | 10 80    |
| Opening delay  |     |          |
| • with AC  | ms  | 10 18    |
| Arcing time  | ms  | 10 20    |
| Auxiliary circuit:   |     |          |
| Number of NC contacts / for auxiliary contacts / instantaneous contact         |     | 1        |
| Number of NO contacts / for auxiliary contacts / instantaneous contact         |     | 1        |
| Operating current  |     |          |
| • at AC-12 / maximum   | А   | 10       |
| • at AC-15   |     |          |
| • at 230 V / Rated value   | А   | 10       |
| • at 400 V / Rated value   | А   | 3        |
| • at 500 V / Rated value   | А   | 2        |
| • at 690 V / Rated value   | А   | 1        |
| Operating current / at DC-12   |     |          |
| • at 24 V / Rated value  | А   | 10       |
|  |     |          |

| - et d3 V/ Reted value     A     6       - et d0 V/ Reted value     A     5       - et d1 U/ Reted value     A     2       - et d2 V/ Reted value     A     1       - et d4 V/ Reted value     A     0.15       - et d4 V/ Reted value     A     0.15       - et d4 V/ Reted value     A     1       - et d4 V/ Reted value     A     0.15       Operating current / et DC-13     -     -       - et d4 V/ Reted value     A     1       - et d4 V/ Reted value     A     1       - et d4 V/ Reted value     A     2       - et d4 V/ Reted value     A     0.15       - et d4 V/ Reted value     A     0.14       - et d5 V/ Reted value     A     0.14       - et d1 U/ Reted value     A     0.14       - et d2 V/ Reted value     A     0.14       - et d2 V/ Reted value     A     0.14       - et d2 V/ Reted value     A     0.14       - et d3 V/ Reted value     A     0.14       - et d3 V/ Reted value     hp     15       - et d3 V/ Reted value     hp     15       - et d3 V/ Reted value     hp     15       - et d3 V/ Reted value     hp     50       Fulded current (FLA) / for three-phase  |   |    |  |
|--|---|----|--|
| • at 125 V / Rated value       A       3         • at 125 V / Rated value       A       1         • at 400 V / Rated value       A       0.3         • at 400 V / Rated value       A       0.3         • at 400 V / Rated value       A       0.5         Operating current / at DC-13       -       -         • at 24 V / Rated value       A       2         • at 40 V / Rated value       A       2         • at 40 V / Rated value       A       2         • at 10 V / Rated value       A       2         • at 10 V / Rated value       A       0.9         • at 10 V / Rated value       A       0.9         • at 125 V / Rated value       A       0.9         • at 220 V / Rated value       A       0.1         • at 200 V / Rated value       A       0.1         • DECSA ratings:  | • at 48 V / Rated value   | А  | 6  |
| - at 125 V / Rated value       A       2         - at 200 V / Rated value       A       1         - at 400 V / Rated value       A       0.3         - at 200 V / Rated value       A       10         - at 24 V / Rated value       A       10         - at 45 V / Rated value       A       2         - at 45 V / Rated value       A       2         - at 10 V / Rated value       A       2         - at 10 V / Rated value       A       0.9         - at 10 V / Rated value       A       0.9         - at 10 V / Rated value       A       0.14         - at 10 V / Rated value       A       0.14         - at 200 V / Rated value       A       0.14         - at 400 V / Rated value       A       0.14         - at 200 V / Rated value       Pp       3         - for single phase AC motor       -       -         - at 200 V / Rated value       hp       10         - for single phase AC motor       -       -         - at 200208 V / Rated value       hp       15         - at 200208 V / Rated value       hp       15         - at 4004 V Rated value       hp       52         - at 600 V / Rated value  | • at 60 V / Rated value   | А  | 6  |
| - at 220 V / Rated value     A     1       - at 400 V / Rated value     A     0.3       - at 400 V / Rated value     A     0.15       Operating current / at DC-13     -     -       - at 24 V / Rated value     A     2       - at 40 V / Rated value     A     2       - at 10 V / Rated value     A     2       - at 10 V / Rated value     A     1       - at 10 V / Rated value     A     0.9       - at 22 V / Rated value     A     0.3       - at 22 V / Rated value     A     0.14       - at 20 V / Rated value     A     0.14       - at 20 V / Rated value     A     0.14       - at 20 V / Rated value     A     0.14       - at 20 V / Rated value     A     0.14       - at 20 V / Rated value     A     0.1       VICCSA rollings:     Vielded mechanical performance (hp)     -       - for three phase AC motor     -     -       - at 200 V / Rated value     hp     10       - for three phase AC motor     -     -       - at 200 V / Rated value     hp     50       - full - at 375/600 V / Rated value     hp     50       - full - at 40/480 V / Rated value     hp     52       - at 400 V / Rated value     hp <td>• at 110 V / Rated value</td> <td>А</td> <td>3</td>  | • at 110 V / Rated value  | А  | 3  |
| • at 400 V / Rated value     A     0.3       • at 600 V / Rated value     A     0.15       Operating current / at DC-13     -       • at 24 V / Rated value     A     10       • at 80 V / Rated value     A     2       • at 80 V / Rated value     A     2       • at 80 V / Rated value     A     1       • at 10 V / Rated value     A     0.9       • at 22 V / Rated value     A     0.9       • at 22 V / Rated value     A     0.1       • at 40 V / Rated value     A     0.1       • at 22 V / Rated value     A     0.1       • at 22 V / Rated value     A     0.1       • at 22 V / Rated value     A     0.1       • at 22 V / Rated value     A     0.1       • of usingle-phase AC motor     -     -       • at 110/120 V / Rated value     hp     1       • at 220/230 V / Rated value     hp     15       • at 220/230 V / Rated value     hp     15       • at 460/480 V / Rated value     hp     52       • at 460/480 V / Rated value     hp     50       Full-dacurrent (FLA / for three-phase AC motor     -       • at 800 V / Rated value     A     52       • at 800 V / Rated value     A     52       <  | • at 125 V / Rated value  | А  | 2  |
| • at 500 V / Rated value     A     0.15       Operating current / at DC-13     -       • at 24 V / Rated value     A     10       • at 40 V / Rated value     A     2       • at 60 V / Rated value     A     2       • at 60 V / Rated value     A     1       • at 100 V / Rated value     A     2       • at 100 V / Rated value     A     0.9       • at 220 V / Rated value     A     0.3       • at 400 V / Rated value     A     0.14       • at 600 V / Rated value     A     0.14       • at 600 V / Rated value     A     0.1       UVCSA ratings:       Vielded mechanical performance (hp)       • for single-phase AC motor     -       • at 200 V / Rated value     hp     10       • for single-phase AC motor     -     -       • at 200 V / Rated value     hp     15       • at 200 V / Rated value     hp     15       • at 200 V / Rated value     hp     15       • at 200 V / Rated value     hp     15       • at 200 V / Rated value     hp     15       • at 200 V / Rated value     A     52       • at 200 V / Rated value     A     52       • at 200 V / Rated value     A     52 <td>• at 220 V / Rated value</td> <td>А</td> <td>1</td>   | • at 220 V / Rated value  | А  | 1  |
| Operating current / at DC-13     A     10       • at 24 V / Rated value     A     2       • at 40 V/ Rated value     A     2       • at 60 V/ Rated value     A     2       • at 10 V/ Rated value     A     1       • at 220 V/ Rated value     A     0.9       • at 220 V/ Rated value     A     0.3       • at 220 V/ Rated value     A     0.14       • at 200 V/ Rated value     A     0.14       • at 600 V/ Rated value     A     0.1       UCCSA ratings:       Vielded mechanical performance [bp]       • for single-phase AC motor     -       • at 200 V/ Rated value     hp     10       • for the phase AC motor     -     -       • at 200 V/ Rated value     hp     15       • at 200 V/ Rated value     hp     30       • at 200 V/ Rated value     hp     30       • at 200 V/ Rated value     hp     15       • at 200 V/ Rated value     hp     30       • at 200 V/ Rated value     A     52       • at 200 V/ Rated value     A     52   | • at 440 V / Rated value  | А  | 0.3  |
| • at 24 V / Rated value       A       10         • at 48 V / Rated value       A       2         • at 60 V / Rated value       A       1         • at 10 V / Rated value       A       1         • at 125 V / Rated value       A       0.9         • at 220 V / Rated value       A       0.3         • at 220 V / Rated value       A       0.14         • at 600 V / Rated value       A       0.14         • at 600 V / Rated value       A       0.1         UUCSA ratings:         Vielded mechanical performance [tp]         • for single-phase AC motor       -         • at 200 / Rated value       hp       10         • for three-phase AC motor       -       -         • at 200208 V / Rated value       hp       10         • for three-phase AC motor       -       -         • at 200208 V / Rated value       hp       15         • at 200208 V / Rated value       hp       50         • at 460480 V / Rated value       hp       50         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52  | • at 600 V / Rated value  | А  | 0.15   |
| • at 46 V / Rated value       A       2         • at 60 V / Rated value       A       1         • at 10 V / Rated value       A       0.9         • at 220 V / Rated value       A       0.3         • at 440 V / Rated value       A       0.14         • at 600 V / Rated value       A       0.14         • at 600 V / Rated value       A       0.1         U/CSA ratings:         yielded mechanical performance [hp]       •         • for single-phase AC motor       -         • at 200 / V / Rated value       hp       1         • for three-phase AC motor       -         • at 200/200 V / Rated value       hp       15         • at 200/200 V / Rated value       hp       15         • at 200/200 V / Rated value       hp       15         • at 460/480 V / Rated value       hp       50         Full-oad current (FLA) for three-phase AC motor       -       -         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52  | Operating current / at DC-13                                    | -  |  |
| • at 60 V / Rated value       A       2         • at 110 V / Rated value       A       1         • at 125 V / Rated value       A       0.9         • at 220 V / Rated value       A       0.3         • at 440 V / Rated value       A       0.14         • at 600 V / Rated value       A       0.1 <b>ULCSA ratings:</b>  | • at 24 V / Rated value   | А  | 10   |
| • at 110 V / Rated value       A       1         • at 125 V / Rated value       A       0.9         • at 220 V / Rated value       A       0.3         • at 400 V / Rated value       A       0.14         • at 600 V / Rated value       A       0.1         U/CISA ratings:         yielded mechanical performance [tp]       • for single-phase AC motor       -         • at 100 V / Rated value       hp       3         • at 200 V / Rated value       hp       10         • for three-phase AC motor       -       -         • at 200208 V / Rated value       hp       15         • at 200208 V / Rated value       hp       15         • at 460480 V / Rated value       hp       10         • at 460480 V / Rated value       hp       50         • at 460480 V / Rated value       hp       50         • at 460480 V / Rated value       hp       50         • at 460 V Atted value       A       52         • at 460 V / Rated value       A       52         • at 460 V / Rated value       A       52         • at 460 V / Rated value       A       52         • at 460 V / Rated value       A       52         Contact r  | • at 48 V / Rated value   | А  | 2  |
| • at 125 V / Rated value       A       0.9         • at 220 V / Rated value       A       0.3         • at 440 V / Rated value       A       0.14         • at 600 V / Rated value       A       0.1         UUCSA ratings:         VICOSA ratings colspan="2">Context rating / of the availe         At 480 V / Rated value         A size:         Contact rating / of the availiar  | • at 60 V / Rated value   | А  | 2  |
| • at 220 V / Rated value       A       0.3         • at 440 V / Rated value       A       0.14         • at 600 V / Rated value       A       0.1         UUCSA ratings:         yielded mechanical performance (hp)         • for single-phase AC motor       hp       3         • at 110/120 V / Rated value       hp       10         • for three-phase AC motor       -       -         • at 230 V / Rated value       hp       15         • at 200/208 V / Rated value       hp       15         • at 200/208 V / Rated value       hp       15         • at 200/208 V / Rated value       hp       15         • at 200/208 V / Rated value       hp       15         • at 460/480 V / Rated value       hp       50         Full-load current (FLA) / for three-phase AC motor       -         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • or short-circuit protection of the auxiliary switch / required       fuse gL/gG: 10 A         •   | • at 110 V / Rated value  | А  | 1  |
| * at 440 V / Rated value     A     0.14       * at 600 V / Rated value     A     0.1       UL/CSA ratings:       yielded mechanical performance [tp]     • for single-phase AC motor     hp     3       • at 110/120 V / Rated value     hp     3       • at 230 V / Rated value     hp     10       • for three-phase AC motor     -     -       • at 200/208 V / Rated value     hp     15       • at 200/208 V / Rated value     hp     15       • at 200/208 V / Rated value     hp     16       • at 200/208 V / Rated value     hp     15       • at 460/450 V / Rated value     hp     16       • at 460/450 V / Rated value     hp     50       Full-load current (FLA) / for three-phase AC motor     -     -       • at 460 V / Rated value     hp     50       Full-load current (FLA) / for three-phase AC motor     -     -       • at 480 V / Rated value     A     52       • at 600 V / Rated value     A     52       • Contact rating / of the auxiliary contacts / acc. to UL     A600 / P600       Short-circuit     posign of the fuse link     fuse gL/gG: 10 A       • for short-circuit protection of the auxiliary switch / required     fuse gL/gG: 10 A       • for short-circuit protection of the main circuit  | • at 125 V / Rated value  | А  | 0.9  |
| A       0.1         UUCSA ratings:         yielded mechanical performance [hp]       -         • for single-phase AC motor       -         • at 100/120 V/ Rated value       hp         • at 230 V/ Rated value       hp         • for three-phase AC motor       -         • at 200/208 V/ Rated value       hp         • at 400/480 V/ Rated value       hp         • at 400/480 V/ Rated value       hp         • at 600 V/ Rated value       A         • at 600 V/ Rated value       A         • at 600 V / Rated value       A         • for short-circuit protection of the auxiliary switch / required       fuse gL/gG: 10 A         • for short-circuit protection of the auxilia  | • at 220 V / Rated value  | А  | 0.3  |
| UL/CSA ratings:         yielded mechanical performance [hp]         • for single-phase AC motor       hp       3         • at 110/120 V / Rated value       hp       10         • at 230 V / Rated value       hp       10         • for three-phase AC motor       hp       10         • at 200/208 V / Rated value       hp       15         • at 200/208 V / Rated value       hp       15         • at 200/208 V / Rated value       hp       16         • at 200/208 V / Rated value       hp       16         • at 200/208 V / Rated value       hp       15         • at 460/480 V / Rated value       hp       16         • at 460/480 V / Rated value       hp       50         Full-boad current (FLA) / for three-phase AC motor       -       -         • at 600 V / Rated value       A       52         Contact rating / of the auxiliary contacts / acc. to UL       A600 / P600       -         Short-circuit       Design of the fuse link       -       -         • for short-circuit protection of the auxiliary switch / required       fuse gL/gG: 10 A       -         • for short-circuit protection of the main circuit       -       -       -         • with type of assignment 1 / require  | • at 440 V / Rated value  | А  | 0.14   |
| yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>at 110/120 V / Rated value</li> <li>hp</li> <li>at 230 V / Rated value</li> <li>hp</li> <li>10</li> <li>for three-phase AC motor</li> <li>at 200/208 V / Rated value</li> <li>hp</li> <li>15</li> <li>at 200/208 V / Rated value</li> <li>hp</li> <li>15</li> <li>at 220/230 V / Rated value</li> <li>hp</li> <li>15</li> <li>at 220/230 V / Rated value</li> <li>hp</li> <li>40</li> <li>at 575/600 V / Rated value</li> <li>hp</li> <li>50</li> </ul> <li>Full-locad current (FLA) / for three-phase AC motor</li> <li>at 460 V / Rated value</li> <li>A</li> <li>52</li> <li>Contact rating / of the auxiliary contacts / acc. to UL</li> <li>A600 / P600</li> <li>Short-circuit:</li> <li>Design of the fuse link         <ul> <li>for short-circuit protection of the auxiliary switch / required</li> <li>for short-circuit protection of the auxiliary switch / required</li> <li>for short-circuit protection of the auxiliary switch / required</li> <li>for short-circuit protection of the main circuit</li> <li>with type of assignment 1 / required</li> </ul> <li>Installation/ mounting/ dimensions:</li> <li>mounting position</li> <li> <ul> <li>the auxiliary surface; can be tilted forward and backward by +/- 22.5° on</li> </ul> </li> </li> | • at 600 V / Rated value  | А  | 0.1  |
| yielded mechanical performance [hp] <ul> <li>for single-phase AC motor</li> <li>at 110/120 V / Rated value</li> <li>hp</li> <li>at 230 V / Rated value</li> <li>hp</li> <li>10</li> <li>for three-phase AC motor</li> <li>at 200/208 V / Rated value</li> <li>hp</li> <li>15</li> <li>at 200/208 V / Rated value</li> <li>hp</li> <li>15</li> <li>at 220/230 V / Rated value</li> <li>hp</li> <li>15</li> <li>at 220/230 V / Rated value</li> <li>hp</li> <li>40</li> <li>at 575/600 V / Rated value</li> <li>hp</li> <li>50</li> </ul> <li>Full-locad current (FLA) / for three-phase AC motor</li> <li>at 460 V / Rated value</li> <li>A</li> <li>52</li> <li>Contact rating / of the auxiliary contacts / acc. to UL</li> <li>A600 / P600</li> <li>Short-circuit:</li> <li>Design of the fuse link         <ul> <li>for short-circuit protection of the auxiliary switch / required</li> <li>for short-circuit protection of the auxiliary switch / required</li> <li>for short-circuit protection of the auxiliary switch / required</li> <li>for short-circuit protection of the main circuit</li> <li>with type of assignment 1 / required</li> </ul> <li>Installation/ mounting/ dimensions:</li> <li>mounting position</li> <li> <ul> <li>the auxiliary surface; can be tilted forward and backward by +/- 22.5° on</li> </ul> </li> </li> | UL/CSA ratings:   |    |  |
| • for single-phase AC motor       hp       3         • at 110/120 V / Rated value       hp       10         • at 230 V / Rated value       hp       10         • for three-phase AC motor       -       -         • at 200/208 V / Rated value       hp       15         • at 200/208 V / Rated value       hp       15         • at 200/208 V / Rated value       hp       15         • at 460/480 V / Rated value       hp       50         Full-load current (FLA) / for three-phase AC motor       -       -         • at 460 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • or short-circuit protection of the auxiliary switch / required       fuse gL/gG: 10 A         • for short-circuit protection of the main circuit       gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A         Installation/ mounting/ dimensions:       #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/-22.5° on  |   |    |  |
| • at 230 V / Rated value       hp       10         • for three-phase AC motor       hp       15         • at 200/208 V / Rated value       hp       15         • at 220/230 V / Rated value       hp       15         • at 460/480 V / Rated value       hp       40         • at 450/480 V / Rated value       hp       50         Full-load current (FLA) / for three-phase AC motor       -       -         • at 480 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         Contact rating / of the auxiliary contacts / acc. to UL       A600 / P600         Short-circuit       fuse gL/gG: 10 A         • for short-circuit protection of the auxiliary switch / required       fuse gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A         Installation/ mounting/ dimensions:       #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on  |   |    |  |
| • for three-phase AC motor       hp       15         • at 200/208 V / Rated value       hp       15         • at 220/230 V / Rated value       hp       15         • at 460/480 V / Rated value       hp       40         • at 575/600 V / Rated value       hp       50         Full-load current (FLA) / for three-phase AC motor       -       -         • at 480 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         Contact rating / of the auxiliary contacts / acc. to UL       A600 / P600         Short-circuit       A600 / P600         Short-circuit protection of the auxiliary switch / required       fuse gL/gG: 10 A         • for short-circuit protection of the main circuit       gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A         Installation/ mounting/ dimensions:       #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by ±/- 22.5° on   | • at 110/120 V / Rated value                                    | hp | 3  |
| • at 200/208 V / Rated value       hp       15         • at 220/230 V / Rated value       hp       15         • at 460/480 V / Rated value       hp       40         • at 460/480 V / Rated value       hp       50         Full-load current (FLA) / for three-phase AC motor       -       -         • at 480 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         Contact rating / of the auxiliary contacts / acc. to UL       A600 / P600         Short-circuit       -       -         Design of the fuse link       -       -         • for short-circuit protection of the auxiliary switch / required       -       fuse gL/gG: 10 A         • for short-circuit protection of the main circuit       -       gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A         Installation/ mounting/ dimensions:       #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on  | • at 230 V / Rated value  | hp | 10   |
| • at 220/230 V / Rated value       hp       15         • at 460/480 V / Rated value       hp       40         • at 575/600 V / Rated value       hp       50         Full-load current (FLA) / for three-phase AC motor       -       -         • at 480 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         • at 600 V / Rated value       A       52         Contact rating / of the auxiliary contacts / acc. to UL       A600 / P600         Short-circuit:       Design of the fuse link       fuse gL/gG: 10 A         • for short-circuit protection of the auxiliary switch / required       fuse gL/gG: 10 A         • for short-circuit protection of the main circuit       gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A         Installation/ mounting/ dimensions:       #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on   | for three-phase AC motor  |    |  |
| • at 460/480 V / Rated valuehp40• at 575/600 V / Rated valuehp50Full-load current (FLA) / for three-phase AC motor• at 480 V / Rated valueA52• at 600 V / Rated valueA52• at 600 V / Rated valueA52Contact rating / of the auxiliary contacts / acc. to ULA 600 / P600Short-circuit:Design of the fuse linkfor short-circuit protection of the auxiliary switch / requiredfuse gL/gG: 10 A• for short-circuit protection of the main circuitgL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 AInstallation/ mounting/ dimensions:mounting position*/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on  | • at 200/208 V / Rated value                                    | hp | 15   |
| · at 575/600 V / Rated value     hp     50       Full-load current (FLA) / for three-phase AC motor     -     -       · at 480 V / Rated value     A     52       · at 600 V / Rated value     A     52       · at 600 V / Rated value     A     52       Contact rating / of the auxiliary contacts / acc. to UL     A600 / P600       Short-circuit:     -       Design of the fuse link     -       · for short-circuit protection of the auxiliary switch / required     fuse gL/gG: 10 A       · for short-circuit protection of the main circuit     -       · with type of assignment 1 / required     -       Installation/ mounting/ dimensions:     -       mounting position     +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on   | • at 220/230 V / Rated value                                    | hp | 15   |
| Full-load current (FLA) / for three-phase AC motor       A       52         • at 480 V / Rated value       A       52         • at 600 V / Rated value       A       52         Contact rating / of the auxiliary contacts / acc. to UL       A600 / P600         Short-circuit:       A       52         Design of the fuse link       • for short-circuit protection of the auxiliary switch / required       fuse gL/gG: 10 A         • for short-circuit protection of the main circuit       • with type of assignment 1 / required       gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A         Installation/ mounting/ dimensions:       #/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on  | • at 460/480 V / Rated value                                    | hp | 40   |
| • at 480 V / Rated value       A       52         • at 600 V / Rated value       A       52         Contact rating / of the auxiliary contacts / acc. to UL       A600 / P600         Short-circuit:         Design of the fuse link         • for short-circuit protection of the auxiliary switch / required       fuse gL/gG: 10 A         • for short-circuit protection of the main circuit       gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A         Installation/ mounting/ dimensions:         mounting position       +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on  | • at 575/600 V / Rated value                                    | hp | 50   |
| • at 600 V / Rated value       A       52         Contact rating / of the auxiliary contacts / acc. to UL       A 600 / P600         Short-circuit:       Image: Contact rating / of the fuse link         • for short-circuit protection of the auxiliary switch / required       fuse gL/gG: 10 A         • for short-circuit protection of the main circuit       gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A         Installation/ mounting/ dimensions:       +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on  | Full-load current (FLA) / for three-phase AC motor              | -  |  |
| Contact rating / of the auxiliary contacts / acc. to UL       A600 / P600         Short-circuit:       Image: Contact rating / of the fuse link         • for short-circuit protection of the auxiliary switch / required       fuse gL/gG: 10 A         • for short-circuit protection of the main circuit       • with type of assignment 1 / required         • with type of assignment 1 / required       gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A         Installation/ mounting/ dimensions:       +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on   | • at 480 V / Rated value  | А  | 52   |
| Short-circuit:         Design of the fuse link         • for short-circuit protection of the auxiliary switch / required         • for short-circuit protection of the main circuit         • with type of assignment 1 / required         Installation/ mounting/ dimensions:         mounting position   | • at 600 V / Rated value  | А  | 52   |
| Design of the fuse link       Installation/ mounting/ dimensions:         • for short-circuit protection of the main circuit       fuse gL/gG: 10 A         • for short-circuit protection of the main circuit       gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A         Installation/ mounting/ dimensions:       +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on  | Contact rating / of the auxiliary contacts / acc. to UL         |    | A600 / P600  |
| <ul> <li>for short-circuit protection of the auxiliary switch / required</li> <li>for short-circuit protection of the main circuit</li> <li>with type of assignment 1 / required</li> <li>gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A</li> </ul> Installation/ mounting/ dimensions: mounting position +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on  | Short-circuit:  |    |  |
| • for short-circuit protection of the main circuit     • with type of assignment 1 / required  Installation/ mounting/ dimensions:  mounting position  +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on  | Design of the fuse link   |    |  |
| <ul> <li>with type of assignment 1 / required</li> <li>gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A</li> <li>Installation/ mounting/ dimensions:</li> <li>mounting position</li> <li>+/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on</li> </ul>  | for short-circuit protection of the auxiliary switch / required |    | fuse gL/gG: 10 A                                   |
| Installation/ mounting/ dimensions:         mounting position         +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on   | for short-circuit protection of the main circuit                |    |  |
| mounting position       +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on   | • with type of assignment 1 / required                          |    | gL/gG NH 3NA, DIAZED 5SB, NEOZED 5SE: 200 A        |
| can be tilted forward and backward by +/- 22.5° on   | Installation/ mounting/ dimensions:                             |    |  |
|  | mounting position   |    | can be tilted forward and backward by +/- 22.5° on |

| Mounting type   |    | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
|---|----|--|
| Width   | mm | 55   |
| Height  | mm | 113.4  |
| Depth   | mm | 130  |
| Spacing required / with side-by-side mounting                   | mm | 0  |
| Connections/ terminals:   |    |  |
| Design of the electrical connection                             |    |  |
| for main current circuit  |    | screw-type terminals   |
| <ul> <li>for auxiliary and control current circuit</li> </ul>   |    | screw-type terminals   |
| Type of connectable conductor cross-section                     |    |  |
| for main contacts   |    |  |
| single or multi-stranded  |    | 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 conductors / for main contacts                          |    | 2x (18 2), 1x (18 1)   |
| Type of connectable conductor cross-section                     |    |  |
| <ul> <li>for auxiliary contacts</li> </ul>                      |    |  |
| single or multi-stranded  |    | 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 conductors / for auxiliary contacts</li> </ul> |    | 2x (20 16), 2x (18 14)   |
| Safety related data:  |    |  |
| Proportion of dangerous failures                                |    |  |
| • with low demand rate / acc. to SN 31920                       | %  | 40   |
| • with high demand rate / acc. to SN 31920                      | %  | 73   |
| Product function  |    |  |
| • Mirror contact acc. to IEC 60947-4-1                          |    | Yes  |
| positively driven operation acc. to IEC 60947-5-1               |    | No   |
| Certificates/ approvals:  |    |  |
| General Product Approval other                                  |    |  |
|   | on |  |

#### Further information:

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

## Industry Mall (Online ordering system)

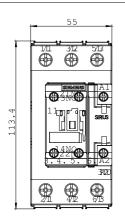
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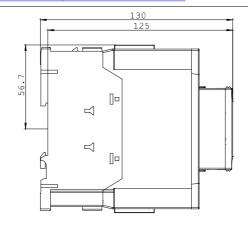
### Cax online generator

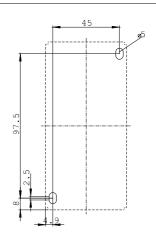
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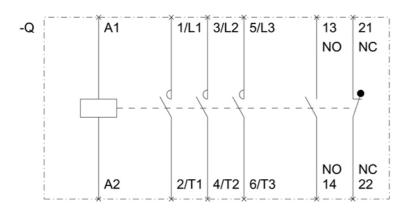
#### Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT2036-1AH20/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RT2036-1AH20









last change:

Dec 17, 2014