## SIEMENS

## Data sheet

## 3RT1055-6PF35



power contactor, AC-3e/AC-3 150 A, 75 kW / 400 V AC (50-60 Hz) / DC Uc: 96-127 V PLC input 24 V DC 3-pole, auxiliary contacts 1 NO + 1 NC drive: electronic main circuit: busbar control and auxiliary circuit: screw terminal with remaining lifetime indicator

| product brand name  | SIRIUS                     |  |
|---|----------------------------|--|
| product designation   | Power contactor            |  |
| product type designation  | 3RT1                       |  |
| General technical data  |                            |  |
| size of contactor   | S6                         |  |
| product extension   |                            |  |
| <ul> <li>function module for communication</li> </ul>   | No                         |  |
| <ul> <li>auxiliary switch</li> </ul>  | Yes                        |  |
| power loss [W] for rated value of the current   |                            |  |
| <ul> <li>at AC in hot operating state</li> </ul>  | 27 W                       |  |
| <ul> <li>at AC in hot operating state per pole</li> </ul>   | 9 W                        |  |
| <ul> <li>without load current share typical</li> </ul>  | 2.8 W                      |  |
| insulation voltage  |                            |  |
| <ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>                                  | 1 000 V                    |  |
| <ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>                             | 500 V                      |  |
| surge voltage resistance  |                            |  |
| <ul> <li>of main circuit rated value</li> </ul>   | 8 kV                       |  |
| <ul> <li>of auxiliary circuit rated value</li> </ul>  | 6 kV                       |  |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1       | 690 V                      |  |
| shock resistance at rectangular impulse   |                            |  |
| • at AC   | 8,5g / 5 ms, 4,2g / 10 ms  |  |
| • at DC   | 8,5g / 5 ms, 4,2g / 10 ms  |  |
| shock resistance with sine pulse  |                            |  |
| • at AC   | 13,4g / 5 ms, 6,5g / 10 ms |  |
| ● at DC   | 13,4g / 5 ms, 6,5g / 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                  |  |
| <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)   | 05/01/2012                 |  |
| Ambient conditions  |                            |  |
| installation altitude at height above sea level maximum   | 2 000 m                    |  |
| ambient temperature   |                            |  |
| <ul> <li>during operation</li> </ul>  | -25 +60 °C                 |  |
| <ul> <li>during storage</li> </ul>  | -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>                                   | 1 000 V       |
| at AC-3e rated value maximum  | 1 000 V       |
| operational current   |               |
| <ul> <li>at AC-1 at 400 V at ambient temperature 40 °C<br/>rated value</li> </ul> | 185 A         |
| • at AC-1   |               |
| — up to 690 V at ambient temperature 40 °C  | 185 A         |
| rated value   |               |
| — up to 690 V at ambient temperature 60 °C  | 160 A         |
| rated value<br>— up to 1000 V at ambient temperature 40 °C                        | 90 A          |
| rated value   |               |
| — up to 1000 V at ambient temperature 60 °C                                       | 90 A          |
| rated value   |               |
| • at AC-3   |               |
| — at 400 V rated value  | 150 A         |
| — at 500 V rated value  | 150 A         |
| — at 690 V rated value<br>— at 1000 V rated value                                 | 150 A<br>65 A |
| • at AC-3e  |               |
| — at 400 V rated value  | 150 A         |
| — at 500 V rated value  | 150 A         |
| — at 690 V rated value  | 150 A         |
| — at 1000 V rated value   | 65 A          |
| <ul> <li>at AC-4 at 400 V rated value</li> </ul>                                  | 132 A         |
| <ul> <li>at AC-5a up to 690 V rated value</li> </ul>                              | 162 A         |
| • at AC-5b up to 400 V rated value  | 124 A         |
| • at AC-6a  | 450.4         |
| <ul> <li>— up to 230 V for current peak value n=20 rated value</li> </ul>         | 150 A         |
| — up to 400 V for current peak value n=20 rated                                   | 150 A         |
| value<br>— up to 500 V for current peak value n=20 rated                          | 150 A         |
| value<br>— up to 690 V for current peak value n=20 rated                          | 150 A         |
| value   |               |
| <ul> <li>— up to 1000 V for current peak value n=20 rated value</li> </ul>        | 65 A          |
| • at AC-6a  |               |
| <ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul>         | 105 A         |
| <ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>           | 105 A         |
| — up to 500 V for current peak value n=30 rated value                             | 105 A         |
| — up to 690 V for current peak value n=30 rated                                   | 105 A         |
| value<br>— up to 1000 V for current peak value n=30 rated                         | 65 A          |
| value<br>minimum cross-section in main circuit at maximum AC-1                    | 95 mm²        |
| rated value operational current for approx. 200000 operating                      |               |
| cycles at AC-4  |               |
| • at 400 V rated value  | 68 A          |
| • at 690 V rated value  | 57 A          |
| operational current   |               |
| at 1 current path at DC-1     — at 24 V rated value                               | 160 A         |
| — at 60 V rated value   | 160 A         |
| — at 110 V rated value  | 18 A          |
| — at 220 V rated value  | 3.4 A         |
| — at 440 V rated value  | 0.8 A         |
| — at 600 V rated value  | 0.5 A         |

Ι

| <ul> <li>with 2 current paths in series at DC-1</li> </ul>              |                  |
|---|------------------|
| — at 24 V rated value   | 160 A            |
| — at 60 V rated value   | 160 A            |
| — at 110 V rated value  | 160 A            |
| — at 220 V rated value  | 20 A             |
| — at 440 V rated value  | 3.2 A            |
| — at 600 V rated value  | 1.6 A            |
| <ul> <li>with 3 current paths in series at DC-1</li> </ul>              |                  |
| — at 24 V rated value   | 160 A            |
| — at 60 V rated value   | 160 A            |
| — at 110 V rated value  | 160 A            |
| — at 220 V rated value  | 160 A            |
| — at 440 V rated value  | 11.5 A           |
| — at 600 V rated value  | 4 A              |
| • at 1 current path at DC-3 at DC-5                                     |                  |
| — at 24 V rated value   | 160 A            |
| — at 60 V rated value   | 7.5 A            |
| — at 220 V rated value  | 0.6 A            |
| — at 440 V rated value  | 0.17 A           |
| — at 600 V rated value  | 0.12 A           |
| with 2 current paths in series at DC-3 at DC-5                          | 400 4            |
| — at 24 V rated value<br>— at 60 V rated value                          | 160 A            |
|   | 160 A<br>160 A   |
| — at 110 V rated value<br>— at 220 V rated value                        | 2.5 A            |
| — at 440 V rated value  | 2.5 A<br>0.65 A  |
| — at 600 V rated value  | 0.65 A<br>0.37 A |
| with 3 current paths in series at DC-3 at DC-5                          | 0.37 A           |
| - at 24 V rated value   | 160 A            |
| — at 60 V rated value   | 160 A            |
| — at 110 V rated value  | 160 A            |
| — at 220 V rated value  | 160 A            |
| — at 440 V rated value  | 1.4 A            |
| — at 600 V rated value  | 0.75 A           |
| operating power   | 0.1011           |
| • at AC-3   |                  |
| — at 230 V rated value  | 45 kW            |
| — at 400 V rated value  | 75 kW            |
| — at 500 V rated value  | 90 kW            |
| — at 690 V rated value  | 132 kW           |
| — at 1000 V rated value   | 90 kW            |
| ● at AC-3e  |                  |
| — at 230 V rated value  | 45 kW            |
| — at 400 V rated value  | 75 kW            |
| — at 500 V rated value  | 90 kW            |
| — at 690 V rated value  | 132 kW           |
| — at 1000 V rated value   | 90 kW            |
| operating power for approx. 200000 operating cycles at AC-4             |                  |
| • at 400 V rated value  | 38 kW            |
| <ul> <li>at 690 V rated value</li> </ul>                                | 55 kW            |
| operating apparent power at AC-6a                                       |                  |
| • up to 230 V for current peak value n=20 rated value                   | 60 000 kVA       |
| • up to 400 V for current peak value n=20 rated value                   | 100 000 VA       |
| • up to 500 V for current peak value n=20 rated value                   | 130 000 VA       |
| <ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul> | 170 000 VA       |
| <ul> <li>up to 1000 V for current peak value n=20 rated</li> </ul>      | 110 000 VA       |
| value   |                  |
| operating apparent power at AC-6a                                       |                  |
| • up to 230 V for current peak value n=30 rated value                   | 40 000 VA        |
| • up to 400 V for current peak value n=30 rated value                   | 70 000 VA        |
| • up to 500 V for current peak value n=30 rated value                   | 90 000 VA        |
| • up to 690 V for current peak value n=30 rated value                   | 120 000 VA       |
| <ul> <li>up to 1000 V for current peak value n=30 rated</li> </ul>      | 110 000 VA       |

value

| short-time withstand current in cold operating state<br>up to 40 °C  |   |
|--|---|
| <ul> <li>Imited to 1 s switching at zero current maximum</li> </ul>  | 2 727 A; Use minimum cross-section acc. to AC-1 rated value |
| -  | 1 831 A; Use minimum cross-section acc. to AC-1 rated value |
| <ul> <li>limited to 5 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> </ul>  | 1 300 A; Use minimum cross-section acc. to AC-1 rated value |
| <ul> <li>limited to 10's switching at zero current maximum</li> <li>limited to 30's switching at zero current maximum</li> </ul> | 850 A; Use minimum cross-section acc. to AC-1 rated value   |
| <ul> <li>limited to 50 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li> </ul> | 703 A; Use minimum cross-section acc. to AC-1 rated value   |
| no-load switching frequency  | 703 A, Ose minimum closs-section acc. to AC-1 rated value   |
|  | 1 000 1/h   |
| • at AC  | 1 000 1/h   |
| at DC     operating frequency  |   |
|  | 000 4/h   |
| • at AC-1 maximum  | 800 1/h   |
| • at AC-2 maximum  | 300 1/h   |
| • at AC-3 maximum  | 750 1/h   |
| • at AC-3e maximum   | 750 1/h   |
| • at AC-4 maximum  | 130 1/h   |
| Control circuit/ Control   |   |
| type of voltage of the control supply voltage  | AC/DC   |
| control supply voltage at AC   |   |
| <ul> <li>at 50 Hz rated value</li> </ul>   | 96 127 V  |
| <ul> <li>at 60 Hz rated value</li> </ul>   | 96 127 V  |
| control supply voltage at DC   |   |
| <ul> <li>rated value</li> </ul>  | 96 127 V  |
| type of PLC-control input according to IEC 60947-1   | Туре 2  |
| consumed current at PLC-control input according to   | 20 mA   |
| IEC 60947-1 maximum  |   |
| voltage at PLC-control input rated value   | 24 V  |
| operating range factor of the voltage at PLC-control   | 0.8 1.1   |
| input<br>operating range factor control supply voltage rated   |   |
| value of magnet coil at DC   |   |
| • initial value  | 0.8   |
| • full-scale value   | 1.1   |
| operating range factor control supply voltage rated<br>value of magnet coil at AC  | 0.0 4.4   |
| • at 50 Hz   | 0.8 1.1   |
| • at 60 Hz   | 0.8 1.1   |
| design of the surge suppressor   | with varistor   |
| apparent pick-up power of magnet coil at AC<br>• at 50 Hz  | 280 VA  |
| • at 50 Hz   | 280 VA  |
|  | 200 VA  |
| inductive power factor with closing power of the coil<br>• at 50 Hz  | 0.8   |
| • at 50 Hz   | 0.8   |
| apparent holding power of magnet coil at AC  | 0.0   |
| • at 50 Hz   | 4.8 VA  |
| • at 60 Hz   | 4.8 VA  |
| inductive power factor with the holding power of the   | +   |
| coil   |   |
| ● at 50 Hz   | 0.6   |
| • at 60 Hz   | 0.6   |
| closing power of magnet coil at DC   | 320 W   |
| holding power of magnet coil at DC   | 2.8 W   |
| closing delay  |   |
| • at AC  | 35 75 ms  |
| • at DC  | 35 75 ms  |
| opening delay  |   |
| • at AC  | 80 90 ms  |
| • at DC  | 80 90 ms  |
| arcing time  | 10 15 ms  |
| control version of the switch operating mechanism  | PLC-IN or Standard A1 - A2 (adjustable)                     |
| Auxiliary circuit  |   |
| number of NC contacts for auxiliary contacts<br>instantaneous contact  | 1   |
| number of NO contacts for auxiliary contacts   | 1   |
|  |   |

| instantaneous contact  |   |
|--|---|
|  | 40.4  |
| operational current at AC-12 maximum   | 10 A  |
| operational current at AC-15   |   |
| at 230 V rated value   | 6 A   |
| • at 400 V rated value   | 3 A   |
| • at 500 V rated value   | 2 A   |
| • at 690 V rated value   | 1 A   |
| operational current at DC-12   |   |
| <ul> <li>at 24 V rated value</li> </ul>  | 10 A  |
| <ul> <li>at 48 V rated value</li> </ul>  | 6 A   |
| <ul> <li>at 60 V rated value</li> </ul>  | 6 A   |
| <ul> <li>at 110 V rated value</li> </ul>   | 3 A   |
| <ul> <li>at 125 V rated value</li> </ul>   | 2 A   |
| <ul> <li>at 220 V rated value</li> </ul>   | 1 A   |
| <ul> <li>at 600 V rated value</li> </ul>   | 0.15 A  |
| operational current at DC-13   |   |
| <ul> <li>at 24 V rated value</li> </ul>  | 10 A  |
| <ul> <li>at 48 V rated value</li> </ul>  | 2 A   |
| <ul> <li>at 60 V rated value</li> </ul>  | 2 A   |
| <ul> <li>at 110 V rated value</li> </ul>   | 1 A   |
| <ul> <li>at 125 V rated value</li> </ul>   | 0.9 A   |
| <ul> <li>at 220 V rated value</li> </ul>   | 0.3 A   |
| <ul> <li>at 600 V rated value</li> </ul>   | 0.1 A   |
| contact reliability of auxiliary contacts  | 1 faulty switching per 100 million (17 V, 1 mA)   |
| UL/CSA ratings   |   |
| full-load current (FLA) for 3-phase AC motor   |   |
| • at 480 V rated value   | 156 A   |
| • at 600 V rated value   | 144 A   |
| yielded mechanical performance [hp]  |   |
| • for single-phase AC motor  |   |
| - at 230 V rated value   | 30 hp   |
| • for 3-phase AC motor   | 50 Hp   |
| - at 200/208 V rated value   | 50 hp   |
| — at 220/200 V rated value   |   |
| — at 460/480 V rated value   | 60 hp   |
| — at 575/600 V rated value   | 125 hp  |
|  | 150 hp<br>A600 / Q600   |
| contact rating of auxiliary contacts according to UL   | A0007 Q000  |
|  |   |
| Short-circuit protection   |   |
| design of the fuse link  |   |
| <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> </ul>  |   |
| <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>— with type of coordination 1 required</li> </ul>  | gG: 355 A (690 V, 100 kA)   |
| <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> </ul>  | gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415   |
| <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit <ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> </ul> </li> </ul>  | gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)   |
| <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit         <ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> </ul> </li> <li>for short-circuit protection of the auxiliary switch</li> </ul>  | gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415   |
| <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit         <ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> </ul> </li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>   | gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)   |
| design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions  | gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)<br>gG: 10 A (500 V, 1 kA)   |
| <ul> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit         <ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> </ul> </li> <li>for short-circuit protection of the auxiliary switch required</li> </ul>   | gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)<br>gG: 10 A (500 V, 1 kA)<br>with vertical mounting surface +/-90° rotatable, with vertical mounting  |
| design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position  | gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)<br>gG: 10 A (500 V, 1 kA)<br>with vertical mounting surface +/-90° rotatable, with vertical mounting<br>surface +/- 22.5° tiltable to the front and back  |
| design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method   | gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)<br>gG: 10 A (500 V, 1 kA)<br>with vertical mounting surface +/-90° rotatable, with vertical mounting<br>surface +/- 22.5° tiltable to the front and back<br>screw fixing  |
| design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         • side-by-side mounting   | gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)<br>gG: 10 A (500 V, 1 kA)<br>with vertical mounting surface +/-90° rotatable, with vertical mounting<br>surface +/- 22.5° tiltable to the front and back<br>screw fixing<br>Yes   |
| design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         • side-by-side mounting         height  | gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)<br>gG: 10 A (500 V, 1 kA)<br>with vertical mounting surface +/-90° rotatable, with vertical mounting<br>surface +/- 22.5° tiltable to the front and back<br>screw fixing<br>Yes<br>172 mm   |
| design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         • side-by-side mounting         height         width  | gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)<br>gG: 10 A (500 V, 1 kA)<br>with vertical mounting surface +/-90° rotatable, with vertical mounting<br>surface +/- 22.5° tiltable to the front and back<br>screw fixing<br>Yes<br>172 mm<br>140 mm   |
| design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         • side-by-side mounting         height         width         depth  | gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)<br>gG: 10 A (500 V, 1 kA)<br>with vertical mounting surface +/-90° rotatable, with vertical mounting<br>surface +/- 22.5° tiltable to the front and back<br>screw fixing<br>Yes<br>172 mm   |
| design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         • side-by-side mounting         height         width         depth         required spacing   | gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)<br>gG: 10 A (500 V, 1 kA)<br>with vertical mounting surface +/-90° rotatable, with vertical mounting<br>surface +/- 22.5° tiltable to the front and back<br>screw fixing<br>Yes<br>172 mm<br>140 mm   |
| design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         • side-by-side mounting         height         width         depth         required spacing         • with side-by-side mounting  | gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)<br>gG: 10 A (500 V, 1 kA)<br>with vertical mounting surface +/-90° rotatable, with vertical mounting<br>surface +/- 22.5° tiltable to the front and back<br>screw fixing<br>Yes<br>172 mm<br>140 mm<br>170 mm   |
| design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         • side-by-side mounting         height         width         depth         required spacing         • with side-by-side mounting  | <ul> <li>gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)</li> <li>gG: 10 A (500 V, 1 kA)</li> <li>with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back</li> <li>screw fixing</li> <li>Yes</li> <li>172 mm</li> <li>140 mm</li> <li>170 mm</li> </ul>  |
| design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         • side-by-side mounting         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards   | <ul> <li>gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)</li> <li>gG: 10 A (500 V, 1 kA)</li> <li>with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back</li> <li>screw fixing</li> <li>Yes</li> <li>172 mm</li> <li>140 mm</li> <li>170 mm</li> </ul>  |
| design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         • side-by-side mounting         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - downwards   | <ul> <li>gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)</li> <li>gG: 10 A (500 V, 1 kA)</li> <li>with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back</li> <li>screw fixing</li> <li>Yes</li> <li>172 mm</li> <li>140 mm</li> <li>170 mm</li> </ul>  |
| design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         • side-by-side mounting         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - downwards         - at the side   | <ul> <li>gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)</li> <li>gG: 10 A (500 V, 1 kA)</li> <li>with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back</li> <li>screw fixing</li> <li>Yes</li> <li>172 mm</li> <li>140 mm</li> <li>170 mm</li> </ul>  |
| design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         • side-by-side mounting         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - at the side         • for grounded parts  | <ul> <li>gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)</li> <li>gG: 10 A (500 V, 1 kA)</li> <li>with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back</li> <li>screw fixing</li> <li>Yes</li> <li>172 mm</li> <li>140 mm</li> <li>170 mm</li> <li>20 mm</li> <li>10 mm</li> <li>0 mm</li> </ul>                              |
| design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         • side-by-side mounting         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - at the side         • for grounded parts         - forwards                                     | <ul> <li>gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)</li> <li>gG: 10 A (500 V, 1 kA)</li> <li>with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back</li> <li>screw fixing</li> <li>Yes</li> <li>172 mm</li> <li>140 mm</li> <li>170 mm</li> <li>20 mm</li> <li>0 mm</li> <li>20 mm</li> </ul>                              |
| design of the fuse link         • for short-circuit protection of the main circuit         - with type of coordination 1 required         - with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required         Installation/ mounting/ dimensions         mounting position         fastening method         • side-by-side mounting         height         width         depth         required spacing         • with side-by-side mounting         - forwards         - upwards         - at the side         • for grounded parts         - forwards         - upwards         - upwards | <ul> <li>gG: 315 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 315 A (415 V, 50 kA)</li> <li>gG: 10 A (500 V, 1 kA)</li> <li>with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back</li> <li>screw fixing</li> <li>Yes</li> <li>172 mm</li> <li>140 mm</li> <li>170 mm</li> <li>20 mm</li> <li>0 mm</li> <li>0 mm</li> <li>20 mm</li> <li>10 mm</li> </ul> |
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| • for live parts   |                               |  |                                       |                        |                      |  |
|--|-------------------------------|--|---------------------------------------|------------------------|----------------------|--|
| for live parts     forwards  |                               |  | 20 mm                                 |                        |                      |  |
| — upwards  |                               |  | 10 mm                                 |                        |                      |  |
| — downward   | ds                            |  | 10 mm                                 |                        |                      |  |
| — at the side  | e                             |  | 10 mm                                 |                        |                      |  |
| Connections/ Termin  | als                           |  |                                       |                        |                      |  |
| type of electrical co  | onnection                     |  |                                       |                        |                      |  |
| <ul> <li>for main currer</li> </ul>  |                               |  | Connection bar                        |                        |                      |  |
| <ul> <li>for auxiliary an</li> </ul>   | d control circuit             |  | screw-type terminals                  |                        |                      |  |
| -  | r auxiliary contacts          |  | Screw-type terminals                  |                        |                      |  |
| <ul> <li>of magnet coil</li> </ul>   |                               |  | Screw-type terminals                  |                        |                      |  |
| width of connection  | n bar                         |  | 17 mm                                 |                        |                      |  |
| thickness of conne   | ction bar                     |  | 3 mm                                  |                        |                      |  |
| diameter of holes  |                               |  | 9 mm                                  |                        |                      |  |
| number of holes  |                               |  | 1                                     |                        |                      |  |
| contacts   | ctor cross-section for        | main   |                                       |                        |                      |  |
| stranded   |                               |  | 25 120 mm²                            |                        |                      |  |
| connectable condu<br>contacts  | ctor cross-section for        | auxiliary  |                                       |                        |                      |  |
| <ul> <li>solid or strande</li> </ul>   | ed                            |  | 0.5 4 mm²                             |                        |                      |  |
| <ul> <li>finely stranded</li> </ul>  | with core end processing      | ng   | 0.5 2.5 mm <sup>2</sup>               |                        |                      |  |
| type of connectable  | e conductor cross-sect        | tions  |                                       |                        |                      |  |
| <ul> <li>for auxiliary co</li> </ul>   | ntacts                        |  |                                       |                        |                      |  |
| — solid  |                               |  | 2x (0.5 1.5 mm²), 2x (0               |                        |                      |  |
| — solid or st  |                               |  | 2x (0,5 1,5 mm²), 2x (0,              |                        | 0,75 4 mm²)          |  |
| -  | nded with core end proc       | cessing  | 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0. |                        |                      |  |
|  | s for auxiliary contacts      |  | 2x (20 16), 2x (18 14                 | I), 1x 12              |                      |  |
| AwG number as co<br>section  | ded connectable cond          | luctor cross   |                                       |                        |                      |  |
| <ul> <li>for auxiliary co</li> </ul>   | ntacts                        |  | 18 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-</li> </ul>  |                               | No   |                                       |                        |                      |  |
| 5-1  |                               | 4 000 000  |                                       |                        |                      |  |
| B10 value with high demand rate according to SN 31920<br>T1 value for proof test interval or service life according to |                               | 1 000 000<br>20 a  |                                       |                        |                      |  |
| IEC 61508<br>protection class IP on the front according to IEC<br>60529  |                               | IP00; IP20 with box terminal/cover                                       |                                       |                        |                      |  |
| touch protection on the front according to IEC 60529   |                               | finger-safe, for vertical contact from the front with box terminal/cover |                                       |                        |                      |  |
| suitability for use  |                               |  |                                       |                        |                      |  |
| <ul> <li>safety-related switching OFF</li> </ul>   |                               | Yes  |                                       |                        |                      |  |
| Certificates/ approva  | ls                            |  |                                       |                        |                      |  |
| General Product A  | pproval                       |  |                                       |                        |                      |  |
|  |                               |  |                                       |                        |                      |  |
|  | <b>Confirmation</b>           | m  | ŝ                                     | <u>KC</u>              | гпг                  |  |
| QE   |                               | <u>m</u>   | <b>W</b>                              |                        | FHI                  |  |
| CSA  |                               | ccc  | UL                                    |                        |                      |  |
|  |                               |  |                                       |                        |                      |  |
|  |                               |  |                                       |                        |                      |  |
|  | Functional                    |  |                                       |                        |                      |  |
| EMC  | Safety/Safety of<br>Machinery | Declaration o  | of Conformity                         | Test Certificates      |                      |  |
|  | machinory                     |  |                                       |                        |                      |  |
| Δ  | Type Examination              |  | שוו                                   | Special Test Certific- | Type Test Certific-  |  |
| <i>K</i> 公   | Certificate                   | CE   | UK<br>CA                              | ate                    | ates/Test Report     |  |
|  |                               | EG-Konf.   |                                       |                        |                      |  |
| DAG IN   |                               | C S PROFILE  |                                       |                        |                      |  |
|  |                               |  |                                       |                        |                      |  |
|  |                               |  |                                       |                        |                      |  |
| Marine / Shipping  |                               |  |                                       |                        | other                |  |
|  |                               |  |                                       | 0                      | hange without peties |  |

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Vibration and Shock

Special Test Certificate

Further information

**Miscellaneous** 

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875 Information- and Downloadcenter (Catalogs, Brochures,...)

**Confirmation** 

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1055-6PF35

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1055-6PF35

**Miscellaneous** 

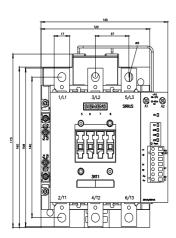
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

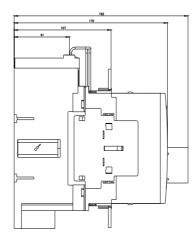
- https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6PF35
- Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
- http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT1055-6PF35&lang=en

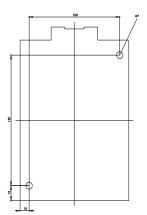
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

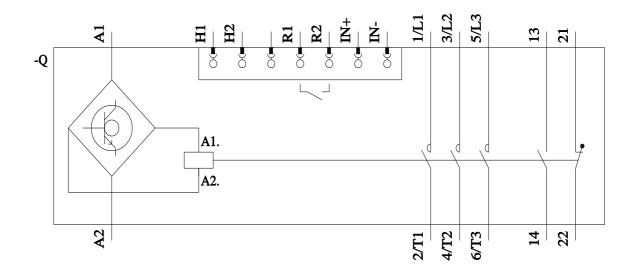
https://support.industry.siemens.com/cs/ww/en/ps/3RT1055-6PF35/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1055-6PF35&objecttype=14&gridview=view1









last modified:

2/10/2023 🖸