SIEMENS

Data sheet 3RT1076-6AS36



Power contactor, AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC 500-550 V UC Auxiliary contacts 2 NO + 2 NC 3-pole, size S12 Busbar connections Operating mechanism: conventional screw terminals

| product brand name | SIRIUS | | | |
|---|----------------------------|--|--|--|
| product designation | Power contactor | | | |
| product type designation | 3RT1 | | | |
| General technical data | | | | |
| size of contactor | S12 | | | |
| product extension | | | | |
| function module for communication | No | | | |
| auxiliary switch | Yes | | | |
| power loss [W] for rated value of the current at AC in hot operating state | 165 W | | | |
| • per pole | 55 W | | | |
| power loss [W] for rated value of the current without load current share typical | 10 W | | | |
| surge voltage resistance | | | | |
| of main circuit rated value | 8 kV | | | |
| of auxiliary circuit rated value | 6 kV | | | |
| maximum permissible voltage for safe isolation between coil and main contacts acc. 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 (switching cycles) | | | | |
| of contactor typical | 10 000 000 | | | |
| of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000 | | | |
| of the contactor with added auxiliary switch block typical | 10 000 000 | | | |
| reference code acc. to IEC 81346-2 | Q | | | |
| Substance Prohibitance (Date) | 01.05.2012 00:00:00 | | | |
| 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 acc. to IEC 60068-2-30 | 95 % | | | |

| maximum | |
|--|---------------------|
| Main circuit | |
| number of poles for main current circuit | 3 |
| number of NO contacts for main contacts | 3 |
| operating voltage at AC-3 rated value maximum | 1 000 V |
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C rated value | 610 A |
| • at AC-1 | |
| up to 690 V at ambient temperature 40 °C rated value | 610 A |
| up to 690 V at ambient temperature 60 °C rated value | 550 A |
| up to 1000 V at ambient temperature 40 °C rated value | 200 A |
| — up to 1000 V at ambient temperature 60 °C rated value | 200 A |
| • at AC-3 | 500 A |
| — at 400 V rated value | 500 A |
| — at 500 V rated value | 500 A |
| — at 690 V rated value | 450 A |
| — at 1000 V rated value | 180 A |
| • at AC-4 at 400 V rated value | 430 A |
| at AC-5a up to 690 V rated value | 536 A |
| at AC-5b up to 400 V rated valueat AC-6a | 415 A |
| up to 230 V for current peak value n=20 rated value | 414 A |
| up to 400 V for current peak value n=20 rated value | 414 A |
| up to 500 V for current peak value n=20 rated value | 414 A |
| — up to 690 V for current peak value n=20 rated value | 414 A |
| — up to 1000 V for current peak value n=20 rated value | 180 A |
| • at AC-6a | 070 A |
| — up to 230 V for current peak value n=30 rated value | 276 A |
| — up to 400 V for current peak value n=30 rated value | 276 A |
| up to 500 V for current peak value n=30 rated value up to 690 V for current peak value n=30 rated | 276 A |
| value — up to 1000 V for current peak value n=30 rated — up to 1000 V for current peak value n=30 rated | 180 A |
| value minimum cross-section in main circuit at maximum AC-1 | 370 mm ² |
| rated value | |
| operational current for approx. 200000 operating cycles at AC-4 | |
| at 400 V rated value | 175 A |
| at 690 V rated value | 150 A |
| operational current | |
| • at 1 current path at DC-1 | |
| — at 24 V rated value | 400 A |
| — at 110 V rated value | 33 A |
| — at 220 V rated value | 3.8 A |
| — at 440 V rated value | 0.9 A |
| — at 600 V rated value | 0.6 A |
| with 2 current paths in series at DC-1 at 24 V rated value | 400 A |

| — at 110 V rated value | 400 A | | | | |
|--|---|--|--|--|--|
| — at 220 V rated value | 400 A | | | | |
| — at 440 V rated value | 4 A | | | | |
| — at 600 V rated value | 2 A | | | | |
| with 3 current paths in series at DC-1 | | | | | |
| — at 24 V rated value | 400 A | | | | |
| — at 110 V rated value | 400 A | | | | |
| — at 220 V rated value | 400 A | | | | |
| — at 440 V rated value | 11 A | | | | |
| — at 600 V rated value | 5.2 A | | | | |
| operational current | | | | | |
| • at 1 current path at DC-3 at DC-5 | | | | | |
| — at 24 V rated value | 400 A | | | | |
| — at 110 V rated value | 3 A | | | | |
| — at 220 V rated value | 0.6 A | | | | |
| — at 440 V rated value | 0.18 A | | | | |
| — at 600 V rated value | | | | | |
| | 0.125 A | | | | |
| with 2 current paths in series at DC-3 at DC-5 at 24 V rated value | 400 A | | | | |
| — at 24 v rated value — at 110 V rated value | 400 A 400 A | | | | |
| | 400 A 2.5 A | | | | |
| — at 220 V rated value — at 440 V rated value | | | | | |
| — at 440 V rated value — at 600 V rated value | 0.65 A | | | | |
| | 0.37 A | | | | |
| with 3 current paths in series at DC-3 at DC-5 | 400 A | | | | |
| — at 24 V rated value | 400 A 400 A | | | | |
| — at 110 V rated value — at 220 V rated value | | | | | |
| | 400 A 1.4 A | | | | |
| — at 440 V rated value | | | | | |
| — at 600 V rated value | 0.75 A | | | | |
| operating power | | | | | |
| • at AC-3 | 160 kW | | | | |
| — at 230 V rated value | | | | | |
| — at 400 V rated value | 250 kW | | | | |
| — at 500 V rated value | 315 kW | | | | |
| — at 690 V rated value | 400 kW | | | | |
| — at 1000 V rated value | 250 kW | | | | |
| operating power for approx. 200000 operating cycles at AC-4 | | | | | |
| at 400 V rated value | 98 kW | | | | |
| at 690 V rated value at 690 V rated value | 148 kW | | | | |
| operating apparent power at AC-6a | | | | | |
| • up to 230 V for current peak value n=20 rated value | 160 000 kV·A | | | | |
| up to 400 V for current peak value n=20 rated value | 280 000 V·A | | | | |
| up to 500 V for current peak value n=20 rated value | 350 000 V-A | | | | |
| up to 690 V for current peak value n=20 rated value | 490 000 V·A | | | | |
| up to 1000 V for current peak value n=20 rated up to 1000 V for current peak value n=20 rated | 310 000 V·A | | | | |
| value | | | | | |
| operating apparent power at AC-6a | | | | | |
| • up to 230 V for current peak value n=30 rated value | 110 000 V·A | | | | |
| • up to 400 V for current peak value n=30 rated value | 190 000 V·A | | | | |
| • up to 500 V for current peak value n=30 rated value | 230 000 V·A | | | | |
| up to 690 V for current peak value n=30 rated value | 330 000 V·A | | | | |
| up to 1000 V for current peak value n=30 rated value | 310 000 V·A | | | | |
| short-time withstand current in cold operating state up to 40 °C | | | | | |
| limited to 1 s switching at zero current maximum | 7 484 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| limited to 5 s switching at zero current maximum | 7 484 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| limited to 10 s switching at zero current maximum | 5 978 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| • | | | | | |

| | 0.707 4 11 11 11 | | | | |
|--|---|--|--|--|--|
| limited to 30 s switching at zero current maximum | 3 765 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| Iimited to 60 s switching at zero current maximum | 2 887 A; Use minimum cross-section acc. to AC-1 rated value | | | | |
| no-load switching frequency | | | | | |
| • at AC | 2 000 1/h | | | | |
| • at DC | 2 000 1/h | | | | |
| operating frequency | | | | | |
| at AC-1 maximum | 500 1/h | | | | |
| at AC-2 maximum | 170 1/h | | | | |
| at AC-3 maximum | 420 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 | | | | | |
| at 50 Hz rated value | 500 550 V | | | | |
| at 60 Hz rated value | 500 550 V | | | | |
| control supply voltage at DC | | | | | |
| rated value | 500 550 V | | | | |
| 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 value of magnet coil at AC | | | | | |
| • at 50 Hz | 0.8 1.1 | | | | |
| ● at 60 Hz | 0.8 1.1 | | | | |
| design of the surge suppressor | with varistor | | | | |
| apparent pick-up power of magnet coil at AC | | | | | |
| • at 50 Hz | 830 V·A | | | | |
| • at 60 Hz | 830 V·A | | | | |
| inductive power factor with closing power of the coil | | | | | |
| ● at 50 Hz | 0.9 | | | | |
| ● at 60 Hz | 0.9 | | | | |
| apparent holding power of magnet coil at AC | | | | | |
| • at 50 Hz | 9.2 V·A | | | | |
| • at 60 Hz | 9.2 V·A | | | | |
| inductive power factor with the holding power of the coil | | | | | |
| ● at 50 Hz | 0.9 | | | | |
| • at 60 Hz | 0.9 | | | | |
| closing power of magnet coil at DC | 920 W | | | | |
| holding power of magnet coil at DC | 10 W | | | | |
| closing delay | | | | | |
| • at AC | 45 100 ms | | | | |
| • at DC | 45 100 ms | | | | |
| opening delay | | | | | |
| • at AC | 60 100 ms | | | | |
| • at DC | 60 100 ms | | | | |
| arcing time | 10 15 ms | | | | |
| control version of the switch operating mechanism | Standard A1 - A2 | | | | |
| Auxiliary circuit | | | | | |
| number of NC contacts for auxiliary contacts | 2 | | | | |
| instantaneous contact number of NO contacts for auxiliary contacts | 2 | | | | |
| instantaneous contact | 10 A | | | | |
| operational current at AC-12 maximum | 10 A | | | | |
| operational current at AC-15 | C A | | | | |
| at 230 V rated value | 6 A | | | | |
| • at 400 V rated value | 3 A | | | | |
| at 500 V rated value | 2 A | | | | |

| 1000 1/ 1 1 1 | | | | | |
|--|--|--|--|--|--|
| at 690 V rated value | 1 A | | | | |
| operational current at DC-12 | | | | | |
| at 24 V rated value | 10 A | | | | |
| at 48 V rated value | 6 A | | | | |
| at 60 V rated value | 6 A | | | | |
| at 110 V rated value | 3 A | | | | |
| at 125 V rated value | 2 A | | | | |
| at 220 V rated value | 1 A | | | | |
| at 600 V rated value | 1 A 0.15 A | | | | |
| operational current at DC-13 | U.13 A | | | | |
| at 24 V rated value | 10 A | | | | |
| | | | | | |
| • at 48 V rated value | 2 A | | | | |
| • at 60 V rated value | 2 A | | | | |
| at 110 V rated value | 1 A | | | | |
| at 125 V rated value | 0.9 A | | | | |
| at 220 V rated value | 0.3 A | | | | |
| at 600 V rated value | 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 | 477 A | | | | |
| at 600 V rated value | 472 A | | | | |
| yielded mechanical performance [hp] | | | | | |
| • for 3-phase AC motor | | | | | |
| • | 450 hp | | | | |
| — at 200/208 V rated value | 150 hp | | | | |
| — at 220/230 V rated value | 200 hp | | | | |
| — at 460/480 V rated value | 400 hp | | | | |
| — at 575/600 V rated value | 500 hp | | | | |
| contact rating of auxiliary contacts according to UL | A600 / Q600 | | | | |
| Short-circuit protection | | | | | |
| | | | | | |
| design of the fuse link | | | | | |
| design of the fuse link • for short-circuit protection of the main circuit | | | | | |
| • | gG: 630 A (690 V, 100 kA) | | | | |
| for short-circuit protection of the main circuit — with type of coordination 1 required | gG: 630 A (690 V, 100 kA) gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 | | | | |
| for short-circuit protection of the main circuit | | | | | |
| for short-circuit protection of the main circuit — with type of coordination 1 required | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 | | | | |
| for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) | | | | |
| 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 | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) | | | | |
| 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 | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting | | | | |
| 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: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) | | | | |
| 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: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting | | | | |
| 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: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back | | | | |
| 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: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing | | | | |
| 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: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes | | | | |
| 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: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm | | | | |
| 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: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm | | | | |
| 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: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm | | | | |
| 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: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm | | | | |
| 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 | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm | | | | |
| 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 | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm | | | | |
| 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 | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 10 mm | | | | |
| 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 | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm | | | | |
| 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 • for grounded parts | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 10 mm 0 mm | | | | |
| 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 • for grounded parts — forwards | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 10 mm 0 mm | | | | |
| 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 • for grounded parts | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 10 mm 0 mm | | | | |
| 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 • for grounded parts — forwards | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 10 mm 0 mm | | | | |
| 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 • for grounded parts — forwards — upwards — upwards — forwards — upwards — upwards — upwards — upwards — upwards | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 20 mm | | | | |
| 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 • for grounded parts — forwards — upwards — upwards — at the side • at the side • at the side | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 10 mm 10 mm | | | | |
| 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 • for grounded parts — at the side — at the side — downwards — at the side — downwards — at the side — downwards | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 10 mm 10 mm | | | | |
| • 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 • for grounded parts — forwards — upwards — at the side — downwards — forwards — at the side — downwards — for live parts | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 V, 50 kA) gG: 10 A (500 V, 1 kA) with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing Yes 214 mm 160 mm 225 mm 20 mm 10 mm 0 mm 10 mm 10 mm 10 mm 10 mm | | | | |

| — downwards | 10 mm | | | | | |
|--|--|---------------------------|-------------------------|------------------------------------|--|--|
| — at the side | 10 mm | | | | | |
| Connections/ Terminals | | | | | | |
| width of connection bar | 25 mm | | | | | |
| thickness of connection bar | 6 mm | | | | | |
| diameter of holes | 11 mm | | | | | |
| number of holes | 1 | | | | | |
| type of electrical connection | | | | | | |
| for main current circuit | Connection bar | | | | | |
| for auxiliary and control circuit | screw-type termina | ls | | | | |
| at contactor for auxiliary contacts | Screw-type terminals | | | | | |
| of magnet coil | Screw-type termina | als | | | | |
| type of connectable conductor cross-sections | | | | | | |
| at AWG cables for main contacts | 2/0 500 kcmil | | | | | |
| connectable conductor cross-section for main contacts | | | | | | |
| stranded | 70 240 mm² | | | | | |
| connectable conductor cross-section for auxiliary contacts | | | | | | |
| solid or stranded | 0.5 4 mm² | | | | | |
| finely stranded with core end processing | 0.5 2.5 mm² | | | | | |
| type of connectable conductor cross-sections | | | | | | |
| for auxiliary contacts | | | | | | |
| — solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) | | | | | |
| — solid or stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), max. 2x (0,75 4 mm²) | | | | | |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | | | | | |
| at AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14), 1x 12 | | | | | |
| AWG number as coded connectable conductor cross section | | | | | | |
| for auxiliary contacts | 18 14 | | | | | |
| Safety related data | | | | | | |
| product function mirror contact acc. to IEC 60947-4-1 | Yes | | | | | |
| B10 value with high demand rate acc. to SN 31920 | 1 000 000 | | | | | |
| product function positively driven operation acc. to IEC 60947-5-1 | No | | | | | |
| protection class IP on the front acc. to IEC 60529 | IP00; IP20 with box terminal/cover | | | | | |
| touch protection on the front acc. to IEC 60529 | finger-safe, for vertical contact from the front with box terminal/cover | | | | | |
| suitability for use | | | | | | |
| safety-related switching OFF | Yes | | | | | |
| Certificates/ approvals | | | | | | |
| General Product Approval | EMC | Functi Safety Machi | /Safety of | Test Certificates | | |
| @ W [D] | | | xamination rtificate | Type Test Certificates/Test Report | | |









Certificate

ates/Test Report

Test Certificates

Marine / Shipping

other

Special Test Certific-<u>ate</u>







Confirmation

Miscellaneous

other Railway

Further information

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1076-6AS36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-6AS36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AS36

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

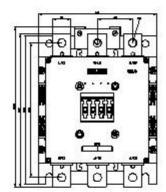
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1076-6AS36&lang=en

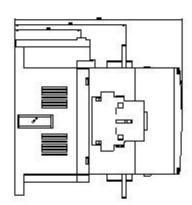
Characteristic: Tripping characteristics, I2t, Let-through current

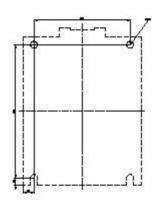
https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AS36/char

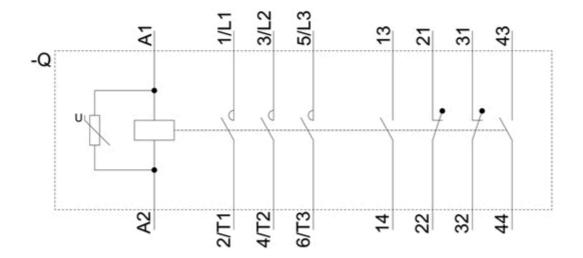
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-6AS36&objecttype=14&gridview=view1









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