SIEMENS

Data sheet 3RT1054-2AB36

SIRIUS





power contactor, AC-3e/AC-3 115 A, 55 kW / 400 V, AC (50-60 Hz) / DC Uc: 23-26 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: spring-loaded terminal



| product type designation 9 Power contactor product type designation 3RT1 Size of contactor S6 | | |
|--|---|----------------------------|
| Size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state per pole • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • at AC • at DC stock resistance with sine pulse • at AC • at DC stock resistance with sine pulse • at AC • at DC stock resistance with sine pulse • at AC • of contactor with added electronically optimized auxiliary switch block typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block t | product designation | Power contactor |
| size of contactor product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state 21 W • at AC in hot operating state per pole • without load current share typical 5.2 W type of calculation of power loss depending on pole insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value at AC • at AC • at AC • at DC shock resistance at rectangular impulse • at AC • at AC • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC at DC shock resistance with sine pulse • of ontactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Quustance Prohibitance (Date) SVHC substance Prohibitance (Date) SVHC substance Ambient conditions | product type designation | 3RT1 |
| product extension • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • of auxiliary of course of the contactor with a course of the contactor with a course of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical | General technical data | |
| • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state 21 W • at AC in hot operating state 92 YW • without load current share typical 52 W type of calculation of power loss depending on pole insulation voltage • of main circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of auxiliary circuit with degree of pollution 3 rated value • of main circuit rated value • of auxiliary circuit rated value * of walliary circuit rated value * of auxiliary circuit rated value * of auxiliary circuit rated value * at AC • at C | size of contactor | S6 |
| auxiliary switch power loss [W] for rated value of the current at AC in hot operating state pole at AC in hot operating state per pole without load current share typical 5.2 W type of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical Lead - 7439-92-1 Weight | product extension | |
| power loss [W] for rated value of the current at AC in hot operating state 21 W at AC in hot operating state prole without load current share typical 5.2 W type of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of main circuit rated value of auxiliary circuit rated value of maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse of at AC of at DC of at DC at AC of Contactor with sine pulse of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized of the contactor with added electronically optimized of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch blo | function module for communication | No |
| at AC in hot operating state at AC in hot operating state per pole without load current share typical type of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of main circuit rated value of main circuit rated value of auxiliary circu | auxiliary switch | Yes |
| at AC in hot operating state per pole without load current share typical type of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of a kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 shock resistance at rectangular impulse of at AC of at DC shock resistance with sine pulse of at AC of at DC shock resistance with sine pulse of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SWHC substance name Lead - 7439-92-1 Weight Ambient conditions | power loss [W] for rated value of the current | |
| without load current share typical type of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of a kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 shock resistance at rectangular impulse of the C at AC of at DC shock resistance with sine pulse of the C at AC of D at AC of the Contactor with added electronically optimized auxiliary switch block typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight Ambient conditions | at AC in hot operating state | 21 W |
| type of calculation of power loss depending on pole insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value for auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of main circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 shock resistance at rectangular impulse of at AC | at AC in hot operating state per pole | 7 W |
| Insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of main circuit rated value of auxiliary circuit rated value of 8 kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse of the Cortactor with sine pulse of the Cortactor with sine pulse of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical | without load current share typical | 5.2 W |
| of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1 shock resistance at rectangular impulse at AC at DC at DC stance with sine pulse at AC at DC at DC at DC at DC add DC act DC | type of calculation of power loss depending on pole | quadratic |
| of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot AC ot DC ot B,5g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse ot AC ot AC ot B,5g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse ot AC ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot AC ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot AC ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot AC ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot AC ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot AC ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot AC ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot AC ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot B,5g / 5 ms, 6,5g / 10 ms shock resistance with sine pulse ot B,5g / 5 ms, 6,5g / 10 ms shock resista | insulation voltage | |
| surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot AC ot DC shock resistance with sine pulse ot AC ot DC stock resistance with sine pulse ot AC ot DC stock resistance with sine pulse ot AC ot DC stock resistance with sine pulse ot AC ot DC stock resistance with sine pulse ot AC ot DC stock resistance with sine pulse ot AC ot DC stock resistance with sine pulse ot AC ot DC stock resistance with sine pulse ot AC ot DC stock resistance with sine pulse ot AC ot DC stock resistance with sine pulse ot AC ot DC stock resistance with sine pulse ot AC stock resistance with sine pulse stoc | of main circuit with degree of pollution 3 rated value | 1 000 V |
| of main circuit rated value of auxiliary circuit rated value of kV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot AC ot DC ot DC ot B,5g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse ot AC ot AC ot DC ot AC o | of auxiliary circuit with degree of pollution 3 rated value | 500 V |
| of auxiliary circuit rated value maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse o at AC o at DC o at AC o | surge voltage resistance | |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC 13,4g / 5 ms, 6,5g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight Ambient conditions | of main circuit rated value | 8 kV |
| coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC • at DC 8,5g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse • at AC • at DC 13,4g / 5 ms, 6,5g / 10 ms • at DC 13,4g / 5 ms, 6,5g / 10 ms mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical | of auxiliary circuit rated value | 6 kV |
| at AC at DC shock resistance with sine pulse at AC | | 690 V |
| at DC shock resistance with sine pulse at AC at DC to contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical to 000 000 reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight Ambient conditions | shock resistance at rectangular impulse | |
| shock resistance with sine pulse at AC at DC 13,4g / 5 ms, 6,5g / 10 ms 13,4g / 5 ms, 6,5g / 10 ms mechanical service life (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight Ambient conditions | • at AC | 8,5g / 5 ms, 4,2g / 10 ms |
| at AC at DC 13,4g / 5 ms, 6,5g / 10 ms mechanical service life (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical vertical conditions 10 000 000 dead - 7439-92-1 Weight 3.351 kg Ambient conditions | • at DC | 8,5g / 5 ms, 4,2g / 10 ms |
| at DC mechanical service life (operating cycles) of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight Ambient conditions | shock resistance with sine pulse | |
| mechanical service life (operating cycles) • of contactor typical • of the contactor with added electronically optimized auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight Ambient conditions | • at AC | 13,4g / 5 ms, 6,5g / 10 ms |
| of contactor typical of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 3.351 kg Ambient conditions | • at DC | 13,4g / 5 ms, 6,5g / 10 ms |
| of the contactor with added electronically optimized auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 3.351 kg Ambient conditions | mechanical service life (operating cycles) | |
| auxiliary switch block typical of the contactor with added auxiliary switch block typical reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 3.351 kg Ambient conditions | of contactor typical | 10 000 000 |
| reference code according to IEC 81346-2 Q Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 3.351 kg Ambient conditions | | 5 000 000 |
| Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 3.351 kg Ambient conditions | of the contactor with added auxiliary switch block typical | 10 000 000 |
| SVHC substance name Lead - 7439-92-1 Weight 3.351 kg Ambient conditions | reference code according to IEC 81346-2 | Q |
| Weight 3.351 kg Ambient conditions | Substance Prohibitance (Date) | |
| Ambient conditions | SVHC substance name | Lead - 7439-92-1 |
| | Weight | 3.351 kg |
| installation altitude at height above sea level maximum 2 000 m | Ambient conditions | |
| | installation altitude at height above sea level maximum | 2 000 m |

| ambient temperature | |
|--|----------------|
| during operation | -25 +60 °C |
| during storage | -55 +80 °C |
| relative humidity minimum | 10 % |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum | 95 % |
| 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 |
| at AC-3e rated value maximum | 1 000 V |
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C rated value | 160 A |
| at AC-1 — up to 690 V at ambient temperature 40 °C rated value | 160 A |
| — up to 690 V at ambient temperature 60 °C rated value | 140 A |
| — up to 1000 V at ambient temperature 40 °C rated value | 80 A |
| up to 1000 V at ambient temperature 60 °C rated value at AC-3 | 80 A |
| | 445.0 |
| — at 400 V rated value | 115 A |
| — at 500 V rated value | 115 A 115 A |
| — at 690 V rated value | |
| — at 1000 V rated value | 53 A |
| • at AC-3e | 115 / |
| — at 400 V rated value— at 500 V rated value | 115 A 115 A |
| — at 690 V rated value | 115 A |
| — at 1000 V rated value | 53 A |
| at AC-4 at 400 V rated value | 97 A |
| • at AC-4 at 400 V rated value | 140 A |
| • at AC-5b up to 400 V rated value | 95 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=20 rated value | 115 A |
| — up to 400 V for current peak value n=20 rated value | 115 A |
| — up to 500 V for current peak value n=20 rated value | 115 A |
| — up to 690 V for current peak value n=20 rated value — up to 690 V for current peak value n=20 rated value | 115 A |
| — up to 1000 V for current peak value n=20 rated value value | 53 A |
| • at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 98 A |
| — up to 400 V for current peak value n=30 rated value | 98 A |
| — up to 500 V for current peak value n=30 rated value | 98 A |
| — up to 690 V for current peak value n=30 rated value | 98 A |
| — up to 1000 V for current peak value n=30 rated value | 53 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 70 mm² |
| operational current for approx. 200000 operating cycles at AC-4 | 54.0 |
| at 400 V rated value | 54 A |
| at 690 V rated value | 48 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 |
| | |

| 1000 1/ 1 1 | 0.5.4 |
|---|-----------------|
| — at 600 V rated value | 0.5 A |
| with 2 current paths in series at DC-1 at 24 V reted value. | 160 A |
| — at 24 V rated value | 160 A |
| — at 60 V rated value — at 110 V rated value | 160 A |
| | 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 |
| with 3 current paths in series at DC-1 at 24 V roted value. | 160 A |
| — at 24 V rated value — at 60 V rated value | 160 A 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 440 V rated value — at 600 V rated value | 4 A |
| | 44 |
| at 1 current path at DC-3 at DC-5 at 24 V rated value | 160 A |
| — at 60 V rated value | 160 A 7.5 A |
| | |
| — at 220 V rated value— at 440 V rated value | 0.6 A 0.17 A |
| — at 600 V rated value | 0.17 A |
| | 0.12 A |
| with 2 current paths in series at DC-3 at DC-5 — 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 | 2.5 A |
| — at 440 V rated value | 0.65 A |
| — at 600 V rated value | 0.37 A |
| with 3 current paths in series at DC-3 at DC-5 | U.U. 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 | |
| • at AC-3 | |
| — at 230 V rated value | 37 kW |
| — at 400 V rated value | 55 kW |
| — at 500 V rated value | 75 kW |
| — at 690 V rated value | 110 kW |
| — at 1000 V rated value | 75 kW |
| • at AC-3e | |
| — at 230 V rated value | 37 kW |
| — at 400 V rated value | 55 kW |
| — at 500 V rated value | 75 kW |
| — at 690 V rated value | 110 kW |
| — at 1000 V rated value | 75 kW |
| operating power for approx. 200000 operating cycles at AC- | |
| 4 | |
| at 400 V rated value | 29 kW |
| • at 690 V rated value | 48 kW |
| operating apparent power at AC-6a | 40,000 17/4 |
| • up to 230 V for current peak value n=20 rated value | 40 000 kVA |
| • up to 400 V for current peak value n=20 rated value | 80 000 VA |
| • up to 500 V for current peak value n=20 rated value | 100 000 VA |
| • up to 690 V for current peak value n=20 rated value | 130 000 VA |
| up to 1000 V for current peak value n=20 rated value | 90 000 VA |
| operating apparent power at AC-6a | 30 000 \/A |
| up to 230 V for current peak value n=30 rated value up to 400 V for current peak value n=30 rated value | 30 000 VA |
| up to 400 V for current peak value n=30 rated value | 60 000 VA |

| up to 500 V for current peak value n=30 rated value | 80 000 VA |
|---|---|
| up to 690 V for current peak value n=30 rated value | 110 000 VA |
| up to 1000 V for current peak value n=30 rated value | 90 000 VA |
| short-time withstand current in cold operating state up to 40 $^{\circ}\text{C}$ | |
| limited to 1 s switching at zero current maximum | 2 565 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum | 1 654 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 10 s switching at zero current maximum | 1 170 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 30 s switching at zero current maximum | 729 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 60 s switching at zero current maximum | 572 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | orzin, deciminan didecident deci. te rici i rated valde |
| • at AC | 2 000 1/h |
| • at DC | 2 000 1/h |
| operating frequency | 2 000 1/11 |
| at AC-1 maximum | 800 1/h |
| | |
| • at AC-2 maximum | 400 1/h |
| • at AC-3 maximum | 1 000 1/h |
| at AC-3e maximum | 1 000 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 | 23 26 V |
| at 60 Hz rated value | 23 26 V |
| control supply voltage at DC rated value | 23 26 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 | |
| at minimum rated control supply voltage at AC | |
| — at 50 Hz | 250 VA |
| — at 60 Hz | 250 VA |
| at maximum rated control supply voltage at AC | |
| — at 60 Hz | 300 VA |
| — at 50 Hz | 300 VA |
| apparent pick-up power of magnet coil at AC | |
| • at 50 Hz | 300 VA |
| • at 60 Hz | 300 VA |
| inductive power factor with closing power of the coil | 000 11. |
| at 50 Hz | 0.9 |
| • at 60 Hz | 0.9 |
| | 0.8 |
| apparent holding power | 4.2.1/A |
| at minimum rated control supply voltage at DC at maximum rated control supply voltage at DC | 4.3 VA |
| at maximum rated control supply voltage at DC | 5.2 VA |
| apparent holding power | |
| at minimum rated control supply voltage at AC | 40.74 |
| — at 50 Hz | 4.8 VA |
| — at 60 Hz | 4.8 VA |
| at maximum rated control supply voltage at AC | |
| — at 50 Hz | 5.8 VA |
| — at 60 Hz | 5.8 VA |
| inductive power factor with the holding power of the coil | |
| ● at 50 Hz | 0.8 |
| • at 60 Hz | 0.8 |
| alasing payon of magnet sail at DC | |
| closing power of magnet coil at DC | 360 W |

| closing delay | |
|---|--|
| • at AC | 20 95 ms |
| • at DC | 20 95 ms |
| opening delay | |
| • at AC | 40 60 ms |
| • at DC | 40 60 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 instantaneous contact | 2 |
| number of NO contacts for auxiliary contacts instantaneous contact | 2 |
| 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 | |
| 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 110 V rated value at 125 V rated value | 2 A |
| at 220 V rated value | 1A |
| at 220 V rated value at 600 V rated value | 0.15 A |
| | 0.15 A |
| operational current at DC-13 | 40.4 |
| 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 | 124 A |
| at 600 V rated value | 125 A |
| yielded mechanical performance [hp] | |
| • for single-phase AC motor | |
| — at 230 V rated value | 25 hp |
| • for 3-phase AC motor | |
| at 200/208 V rated value | 40 hp |
| — at 220/230 V rated value | 50 hp |
| — at 460/480 V rated value | 100 hp |
| — at 575/600 V rated value | 125 hp |
| contact rating of auxiliary contacts according to UL | A600 / Q600 |
| Short-circuit protection | |
| design of the fuse link | |
| for short-circuit protection of the main circuit | |
| with type of coordination 1 required | gG: 355 A (690 V, 100 kA) |
| with type of coordination in required - with type of assignment 2 required | gG: 250 A (690 V, 100 kA), aM: 200 A (690 V, 50 kA), BS88: 250 A (415 V, 50 |
| — with type of assignment 2 required | (690 V, 500 KA), BS66. 250 A (415 V, 50 KA) |
| • for short-circuit protection of the auxiliary switch required | gG: 10 A (500 V, 1 kA) |
| Installation/ mounting/ dimensions | |
| mounting position | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| fastening method | screw fixing |
| height | 172 mm |
| | |
| width | 120 mm |

| depth | 170 mm |
|---|--------------------------|
| required spacing | |
| with side-by-side mounting | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 0 mm |
| for grounded parts | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — at the side | 10 mm |
| — downwards | 10 mm |
| • for live parts | |
| — forwards | 20 mm |
| — upwards | 10 mm |
| — downwards | 10 mm |
| — at the side | 10 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| for main current circuit | Connection bar |
| for auxiliary and control circuit | spring-loaded terminals |
| at contactor for auxiliary contacts | Spring-type terminals |
| of magnet coil | Spring-type terminals |
| width of connection bar | 17 mm |
| thickness of connection bar | 3 mm |
| diameter of holes | 9 mm |
| number of holes | 1 |
| type of connectable conductor cross-sections | |
| for AWG cables for main contacts | 4 250 kcmil |
| connectable conductor cross-section for main contacts | |
| • stranded | 25 120 mm² |
| connectable conductor cross-section for auxiliary contacts | |
| • solid or stranded | 0.25 2.5 mm ² |
| finely stranded with core end processing | 0.25 1.5 mm ² |
| finely stranded without core end processing | 0.25 2.5 mm ² |
| type of connectable conductor cross-sections | |
| • for auxiliary contacts | |
| — solid | 2x (0.25 2.5 mm²) |
| — solid or stranded | 2x (0,25 2,5 mm²) |
| finely stranded with core end processing | 2x (0.25 1.5 mm²) |
| finely stranded without core end processing | 2x (0.25 2.5 mm²) |
| for AWG cables for auxiliary contacts | 2x (24 14) |
| AWG number as coded connectable conductor cross | |
| section | 24 14 |
| for auxiliary contacts Safety related data | 24 14 |
| | |
| product function • mirror contact according to IEC 60047.4.1 | Voc |
| mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 | Yes |
| positively driven operation according to IEC 60947-5-1 suitable for safety function | No Yes |
| suitability for use safety-related switching OFF | Yes |
| service life maximum | 20 a |
| test wear-related service life necessary | Yes |
| proportion of dangerous failures | |
| with low demand rate according to SN 31920 | 40 % |
| with high demand rate according to SN 31920 with high demand rate according to SN 31920 | 73 % |
| B10 value with high demand rate according to SN 31920 | . • / |
| = 10 value with high actitational ate accoluting to dividing 10 3140 | 1 000 000 |
| | 1 000 000 100 FIT |
| failure rate [FIT] with low demand rate according to SN 31920 | 1 000 000 100 FIT |
| failure rate [FIT] with low demand rate according to SN | |

| overdimensioning according to ISO 13849-2 necessary | Yes |
|---|--|
| IEC 61508 | |
| safety device type according to IEC 61508-2 | Type A |
| Electrical Safety | |
| protection class IP on the front according to IEC 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 |
| Approvals Certificates | |
| General Product Approval | |





Confirmation





KC

General Product Approval

EMV

Functional Saftey

Test Certificates

Marine / Shipping





Type Examination Cer**tificate**

Type Test Certificates/Test Report

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



Marine / Shipping









Confirmation

other

Miscellaneous

other

Railway

Environment

Confirmation

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



Siemens **EcoTech**



Environmental Con-firmations

Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT1054-2AB36

Cax online generator

rt.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1054-2AB36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1054-2AB36

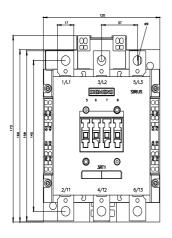
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

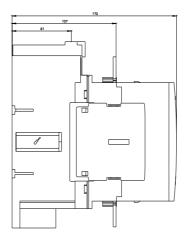
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1054-2AB36&lang=en

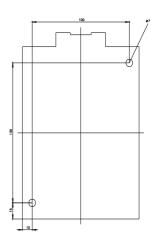
Characteristic: Tripping characteristics, I2t, Let-through current

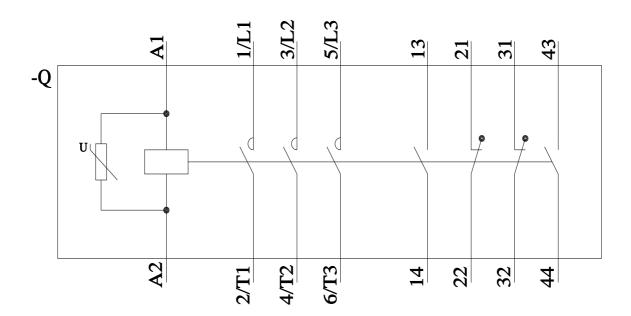
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1054-2AB36&objecttype=14&gridview=view1









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