SIEMENS

Data sheet 3RT1076-6AP36

SIRIUS





power contactor, AC-3e/AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC Uc: 220-240 V 3-pole, auxiliary contacts 2 NO + 2 NC drive: conventional main circuit: busbar control and auxiliary circuit: screw terminal



| product designation Power contactor product type designation SRT1 Size of contactor product extension • function module for communication • auxiliary switch • auxiliary switch • at AC in hot operating state per pole • of main circuit with degree of pollution 3 rated value • of auxiliary circuit rated value • at AC • at DC • 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 swit | | |
|--|---|----------------------------|
| 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 rated value • at AC • at DC • at DC • at DC • at DC • 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 | 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 per pole • 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 permissible voltage for protective separation between coli and main contacts according to EN 60947-1 shock resistance at rectangular impulse • at AC • at DC • at DC • 3,5g / 5 ms, 4,2g / 10 ms shock resistance with sine pulse • at AC • at DC • 31,4g / 5 ms, 6,5g / 10 ms 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 typical • of the contactor with added auxiliary switch block typical • of the contactor with added auxiliary switch block typical • of the contactor with adde | 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 per pole • 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 switch block typical • at AC • at DC • at DC • at AC • at DC • at DC • at AC • at DC • at DC • at AC • at DC • | General technical data | |
| • function module for communication • auxiliary switch power loss [W] for rated value of the current • at AC in hot operating state | size of contactor | S12 |
| auxiliary switch power loss [M] for rated value of the current at AC in hot operating state pole at AC in hot operating state prole 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 with degree of pollution 3 rated value of auxiliary circuit rated value of with coltage 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 DC shock resistance with sine pulse of 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 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 electronically o | product extension | |
| 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 type of calculation of power loss depending on pole linsulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value for main circuit rated value of 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 typical of the contactor with added auxiliary switch block typical of the contactor with added auxiliary switch block typical of the contactor with added of electronically optimized of the contactor with adde | 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 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 of at DC of at DC of at AC of at DC of at AC of contactor 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 of th | 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 with degree of pollution 3 rated value of auxiliary circuit rated value of main circuit rated value of auxiliary circuit rated value of EV maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse ot AC ot | 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 surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value e of auxiliary circuit rated value for with a with | at AC in hot operating state | 165 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 main circuit rated value • of main circuit rated value • of main circuit rated value • of main 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 • at AC • at DC • 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 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 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 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 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 shock resistance with sine pulse • at AC • at DC shock resistance vith sine pulse • at AC • at DC shock resistance with sine pulse • at AC • at DC shock resistance vith sine pulse • at AC • at DC shock resistance vith sine pulse • at AC • | at AC in hot operating state per pole | 55 W |
| 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 interest of auxiliary interest of auxiliary interest of auxiliary switch block typical of the contactor with added auxiliary switch block typical | without load current share typical | 10 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 690 V 690 V 690 V 690 V shock resistance at rectangular impulse ot AC ot DC styles for main circuit rated value 10 ot AC | 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 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 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 ot DC stock resistance with sine pulse ot AC ot DC stock resistance with sine pulse ot AC stock resistance with sine pulse stock resistance wi | insulation voltage | |
| surge voltage resistance of main circuit rated value 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 of contactor typical of 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 weight Ambient conditions | of main circuit with degree of pollution 3 rated value | 1 000 V |
| of main circuit rated value of auxiliary circuit rated value 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 ot AC ot DC ot AC o | of auxiliary circuit with degree of pollution 3 rated value | 500 V |
| of auxillary circuit rated value 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 at DC shock resistance with sine pulse at AC at | 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 13,4g / 5 ms, 6,5g / 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 main circuit rated value | 8 kV |
| 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 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 auxiliary circuit rated value | 6 kV |
| at AC at DC at DC at AC | | 690 V |
| at DC shock resistance with sine pulse at AC at DC shock resistance with sine pulse at DC at DC shock resistance with sine pulse at DC at DC shock resistance with sine pulse at DC shock resistance with sine pulse at AC at DC shock resistance with sine pulse at AC shock resistance with sine pulse at AC shock resistance with sine pulse at AC shock resistance vith as AC shock resistance vith sine pulse at AC shock resistance vith sine pulse shock resistance vith sine vith sine pulse shock resistance vith sine vith sine vith sine vith sine vith shock vith sine vith s | shock resistance at rectangular impulse | |
| 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 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 Q 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 reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 10.4 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 ference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 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 10.4 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 Mabient conditions | of contactor typical | 10 000 000 |
| reference code according to IEC 81346-2 Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 10.4 kg Ambient conditions | | 5 000 000 |
| Substance Prohibitance (Date) SVHC substance name Lead - 7439-92-1 Weight 10.4 kg Ambient conditions | of the contactor with added auxiliary switch block typical | 10 000 000 |
| SVHC substance name Lead - 7439-92-1 Weight 10.4 kg Ambient conditions | reference code according to IEC 81346-2 | Q |
| Weight 10.4 kg Ambient conditions | Substance Prohibitance (Date) | 05/01/2012 |
| Ambient conditions | SVHC substance name | Lead - 7439-92-1 |
| | Weight | 10.4 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 at AC-1 | 610 A |
| — up to 690 V at ambient temperature 40 °C rated value | 610 A |
| — up to 690 V at ambient temperature 60 $^{\circ}\text{C}$ rated value | 550 A |
| — up to 1000 V at ambient temperature 40 $^{\circ}\text{C}$ 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— at 500 V rated value | 500 A |
| — at 690 V rated value | 450 A |
| — at 1000 V rated value | 180 A |
| • at AC-3e | |
| — 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 value | 415 A |
| • at AC-6a | |
| — 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 up to 1000 V for current peak value n=20 rated value | 414 A 180 A |
| • at AC-6a | |
| — 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 | 276 A |
| up to 690 V for current peak value n=30 rated valueup to 1000 V for current peak value n=30 rated | 276 A 180 A |
| minimum cross-section in main circuit at maximum AC-1 rated | 370 mm² |
| 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 60 V rated value | 330 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 60 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 60 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 |
| at 1 current path at DC-3 at DC-5 | 100 A |
| — at 24 V rated value | 400 A |
| — at 60 V rated value | 11 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 60 V rated value | 400 A 400 A |
| | 400 A |
| — at 110 V rated value | 2.5 A |
| — at 220 V rated value — 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 | 0.57 A |
| — at 24 V rated value | 400 A |
| — at 60 V rated value | 400 A |
| — at 110 V rated value | 400 A |
| — at 220 V rated value | 400 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 | 160 kW |
| — 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 |
| • at AC-3e | |
| — at 230 V rated value | 160 kW |
| — 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- | |
| at 400 V rated value | 98 kW |
| at 400 V rated value at 690 V rated value | 148 kW |
| operating apparent power at AC-6a | 10.00 |
| up to 230 V for current peak value n=20 rated value | 160 000 kVA |
| up to 400 V for current peak value n=20 rated value | 280 000 VA |
| up to 500 V for current peak value n=20 rated value | 350 000 VA |
| up to 690 V for current peak value n=20 rated value | 490 000 VA |
| up to 1000 V for current peak value n=20 rated value | 310 000 VA |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 110 000 VA |
| up to 400 V for current peak value n=30 rated value | 190 000 VA |
| · · · · · · · · · · · · · · · · · · · | |

| up to 500 V for current peak value n=30 rated value | 230 000 VA |
|---|---|
| up to 690 V for current peak value n=30 rated value | 330 000 VA |
| up to 1000 V for current peak value n=30 rated value | 310 000 VA |
| 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 |
| limited to 30 s switching at zero current maximum | 3 765 A; Use minimum cross-section acc. to AC-1 rated value |
| limited 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-3e 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 | 220 240 V |
| at 60 Hz rated value | 220 240 V |
| control supply voltage at DC rated value | 220 240 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 | 700 VA |
| — at 60 Hz | 700 VA |
| at maximum rated control supply voltage at AC — at 60 Hz | 020 \/A |
| — at 50 Hz | 830 VA |
| apparent pick-up power of magnet coil at AC | 830 VA |
| at 50 Hz | 830 VA |
| • at 60 Hz | 830 VA |
| inductive power factor with closing power of the coil | |
| • at 50 Hz | 0.9 |
| • at 60 Hz | 0.9 |
| apparent holding power | |
| at minimum rated control supply voltage at DC | 8.5 VA |
| at maximum rated control supply voltage at DC | 10 VA |
| apparent holding power | |
| at minimum rated control supply voltage at AC | |
| — at 50 Hz | 7.6 VA |
| — at 60 Hz | 7.6 VA |
| at maximum rated control supply voltage at AC | |
| — at 50 Hz | 9.2 VA |
| — at 60 Hz | 9.2 VA |
| 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 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 175 V rated value at 125 V rated value | 2 A |
| at 220 V rated value | 1A |
| at 600 V rated value | 0.15 A |
| operational current at DC-13 | 0.13 A |
| at 24 V rated value | 10 A |
| | 2 A |
| at 48 V rated value | |
| 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 | |
| — 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 | |
| for short-circuit protection of the main circuit | |
| with type of coordination 1 required | gG: 630 A (690 V, 100 kA) |
| — 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 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 | 214 mm |
| width | 160 mm |
| depth | 225 mm |
| required spacing | |
| roquirou opuonig | |

| 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 | screw-type terminals |
| at contactor for auxiliary contacts | Screw-type terminals Screw-type terminals |
| of magnet coil | Screw-type terminals Screw-type terminals |
| width of connection bar | 25 mm |
| | 6 mm |
| thickness of connection bar | 6 mm 11 mm |
| diameter of holes | |
| number of holes | 1 |
| type of connectable conductor cross-sections | 0/0 700 / " |
| for 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) |
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14), 1x 12 |
| AWG number as coded connectable conductor cross | |
| section | 40 |
| for auxiliary contacts | 18 14 |
| Safety related data | |
| product function | |
| mirror contact according to IEC 60947-4-1 | Yes |
| positively driven operation according to IEC 60947-5-1 | No |
| suitable for safety function | Yes |
| suitability for use safety-related switching OFF | Yes |
| service life maximum | 20 a |
| test wear-related service life necessary | Yes |
| proportion of dangerous failures | |
| with low demand rate according to SN 31920 | 40 % |
| with high demand rate according to SN 31920 | 73 % |
| B10 value with high demand rate according to SN 31920 | 1 000 000 |
| failure rate [FIT] with low demand rate according to SN | 100 FIT |
| 31920 | |
| 100 100 10 | |
| ISO 13849 | |
| device type according to ISO 13849-1 | 3 |
| | 3 Yes |
| device type according to ISO 13849-1 | |
| device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary | |

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





Miscellaneous

Confirmation

Confirmation



<u>Miscellaneous</u>

General Product Approval

other

Environment

EHC

<u>Miscellaneous</u>

Environmental Confirmations Environmental Confirmations

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=3RT1076-6AP36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-6AP36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AP36

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

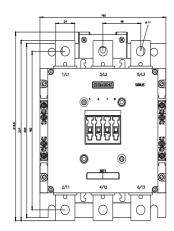
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1076-6AP36&lang=en

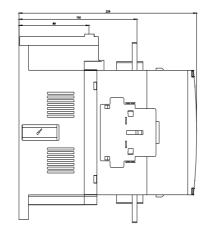
Characteristic: Tripping characteristics, I²t, Let-through current

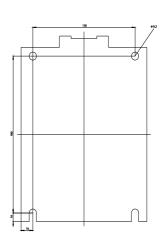
https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AP36/char

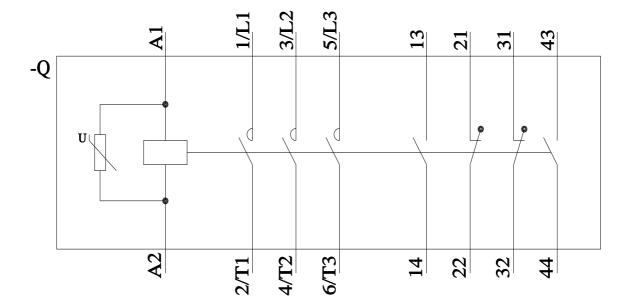
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-6AP36&objecttype=14&gridview=view1









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