SIEMENS

Data sheet 3RT1076-6AM36



power contactor, AC-3e/AC-3 500 A, 250 kW / 400 V AC (50-60 Hz) / DC Uc: 200-220 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 | 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 |
| at AC in hot operating state per pole | 55 W |

insulation voltage

product brand name

• 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

maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 $\,$

shock resistance at rectangular impulse

• without load current share typical

at AC

at DC

shock resistance with sine pulse

• at AC

• 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

reference code according to IEC 81346-2 Substance Prohibitance (Date)

installation altitude at height above sea level maximum

ambient temperature

during operation

• during storage

relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum

10 W

SIRIUS

1 000 V

500 V

8 kV

6 kV

0001

690 V

8,5g / 5 ms, 4,2g / 10 ms 8,5g / 5 ms, 4,2g / 10 ms

13,4g / 5 ms, 6,5g / 10 ms 13,4g / 5 ms, 6,5g / 10 ms

10 000 000

5 000 000

10 000 000

O

05/01/2012

2 000 m

-25 ... +60 °C -55 ... +80 °C

10 %

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 | 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 $^{\circ}$ 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 | |
| — 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-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 | 444.4 |
| — 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 • at AC-6a | 180 A |
| — up to 230 V for current peak value n=30 rated value 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 value | 276 A |
| — up to 1000 V for current peak value n=30 rated value | 180 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 370 mm ² |
| 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 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 at 440 V rated value | 3.8 A 0.9 A |
| | |
| — at 600 V rated value | 0.6 A |

| with 2 current paths in series at DC-1 | 400 4 |
|---|----------------|
| — at 24 V rated value | 400 A |
| — at 60 V rated value — at 110 V rated value | 400 A 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 | |
| — 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 60 V rated value | 400 A |
| — at 110 V rated value | 400 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 | 400 A |
| — at 24 V rated value — at 60 V rated value | 400 A 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 | 5.10 T |
| • 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-4 • 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 | 110 111 |
| 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 | 310 000 VA |
| value | |
| 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 |
| value | |

| short-lime withstand current in cold operating state up to 40 °C Imited to 16 s witching at zero current maximum Imited to 10 s witching at zero current maximum Imited to 10 s witching at zero current maximum Imited to 10 s witching at zero current maximum Imited to 10 s switching at zero current maximum Imited to 60 s switching at zero current max | | |
|--|--|---|
| I mided to 1 is switching at zero current maximum I mided to 10 is switching at zero current maximum I mided to 10 is switching at zero current maximum I mided to 10 is switching at zero current maximum I mided to 30 is switching at zero current maximum I mided to 40 is 50 is 10 is 50 is 10 i | short-time withstand current in cold operating state | |
| mimided to 10 savibiling at zero current maximum mimided to 30 savibiling at zero current maximum mimided to 30 savibiling at zero current maximum mimided to 30 savibiling at zero current maximum mo-load switching frequency mimided to 30 savibiling at zero current maximum mo-load switching frequency mimided mimided to 30 savibiling at zero current maximum mo-load switching frequency mimided | • | 7 404 A. H minimum and a satisfactor to A.O. 4 and declare |
| • Imited to 10 s switching at zero current maximum | | |
| • Imited to 30 s witching at zero current maximum • Imited to 80 s witching at zero current maximum 2 887 A; Use minimum cross-section acc. to AC-1 rated value 2 800 cm 2 800 c | | |
| • Imited to 80 s witching at zero current maximum load switching frequency at AC at DC at DC at DC at BC | G | |
| no-load switching frequency | | |
| | | 2 887 A; Use minimum cross-section acc. to AC-1 rated value |
| | | |
| operating frequency | 200 | |
| | | 2 000 1/h |
| | | |
| | at AC-1 maximum | |
| at AC-3e maximum at AC-4 maximum 130 1/h Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 200 220 V control supply voltage at DC at 60 Hz rated value 200 220 V control supply voltage at DC at 60 Hz rated value 200 220 V control supply voltage at DC at 60 Hz rated value 0 220 V control supply voltage at DC at 60 Hz rated value 0 220 V control supply voltage at DC at 60 Hz rated value 0 220 V control supply voltage rated value of magnet coil at CC at 60 Hz at | at AC-2 maximum | 170 1/h |
| | | 420 1/h |
| Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC at 50 Hz rated value 200 220 V control supply voltage at DC aread value operating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz | | |
| type of voltage of the control supply voltage control supply yoltage at AC at 50 Hz rated value 200 220 V 200 220 V rated value 30 | | 130 1/h |
| control supply voltage at AC at 50 Hz rated value 200 220 V control supply voltage at DC crated value poperating range factor control supply voltage rated value of magnet coil at DC initial value full-scale value poperating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz business of Hz at 60 Hz business of Hz at 60 Hz business of Hz business | Control circuit/ Control | |
| | type of voltage of the control supply voltage | AC/DC |
| e at 60 Hz rated value control supply voltage at DC | control supply voltage at AC | |
| control supply voltage at DC a rated value poerating range factor control supply voltage rated value of magnet coil at DC a initial value full-scale value operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz but 60 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz at 50 Hz at 60 Hz but 60 Hz at 50 Hz at 60 Hz but 60 Hz at 50 Hz at 60 Hz at 60 Hz but 70 Hz at 60 Hz at 60 Hz at 60 Hz but 150 Hz at 60 Hz at 60 Hz but 150 Hz at 60 Hz at 60 Hz but 150 Hz at 60 Hz at 60 Hz at 60 Hz but 150 Hz at 60 Hz at 60 Hz at 60 Hz but 150 Hz at 60 Hz at 60 Hz but 150 Hz at 60 Hz at 60 Hz but 150 Hz at 60 Hz at 60 Hz but 150 Hz | at 50 Hz rated value | 200 220 V |
| e rated value or operating range factor control supply voltage rated value of magnet coil at DC e initial value e full-scale value operating range factor control supply voltage rated value of magnet coil at AC e at 50 Hz e at 60 Hz e at 50 Hz e at 60 Hz be at 60 Hz e at 80 | at 60 Hz rated value | 200 220 V |
| e rated value or operating range factor control supply voltage rated value of magnet coil at DC e initial value e full-scale value operating range factor control supply voltage rated value of magnet coil at AC e at 50 Hz e at 60 Hz e at 50 Hz e at 60 Hz be at 60 Hz e at 80 | control supply voltage at DC | |
| value of magnet coil at DC intitil value intitil-scale value operating range factor control supply voltage rated value of magnet coil at AC intition and the surge suppressor apparent pick-up power of magnet coil at AC intition at 60 Hz | | 200 220 V |
| value of magnet coil at DC initial value initial value operating range factor control supply voltage rated value of magnet coil at AC in the surge suppressor apparent pick-up power of magnet coil at AC in the surge suppressor apparent pick-up power of magnet coil at AC in the surge suppressor apparent pick-up power of magnet coil at AC in the surge suppressor apparent pick-up power of magnet coil at AC in the surge suppressor apparent pick-up power of magnet coil at AC in the surge suppressor apparent pick-up power of magnet coil at AC in the surge suppressor apparent pick-up power of magnet coil at AC in the surge suppressor apparent holding power of magnet coil at AC in the surge suppressor apparent holding power of magnet coil at AC in the surge suppressor apparent holding power of magnet coil at AC in the surge suppressor apparent holding power of magnet coil at AC in the surge suppressor apparent holding power of magnet coil at AC in the surge suppressor apparent holding power of magnet coil at AC in the surge suppressor apparent holding power of magnet coil at AC in the surge suppressor apparent holding power of magnet coil at AC in the surge suppressor in the surge surge surges surges surges in the surges suppressor in the surges surges in the su | | |
| • full-scale value operating range factor control supply voltage rated value of magnet coil at AC • at 50 Hz • at 60 Hz • at 80 Hz • | | |
| operating range factor control supply voltage rated value of magnet coil at AC at 50 Hz at 60 Hz back at 60 Hz at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz back at 60 Hz back at 60 Hz back at 60 Hz at 60 Hz at 60 Hz back at 60 Hz back at 60 Hz at 60 Hz back at 60 Hz b | initial value | 0.8 |
| value of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz buildress and bui | full-scale value | 1.1 |
| | | |
| e at 60 Hz design of the surge suppressor apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz inductive power factor with closing power of the coil • at 50 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at AC • at AC • at DC • at DC • at AC • at DC • at AC • at DC • at AC • at CC • at DC • at AC • at DC • a | _ | |
| design of the surge suppressor apparent pick-up power of magnet coil at AC • at 50 Hz • at 60 Hz 10 tuctive power factor with closing power of the coil • at 50 Hz • at 60 Hz 2 | | |
| apparent pick-up power of magnet coil at AC at 50 Hz at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 Hz by 20 W closing power of magnet coil at DC closing power of magnet coil at DC closing delay at AC at AC at DC opening delay at AC at DC opening delay at AC at DC opening time control version of the switch operating mechanism Auxillary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NC contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 200 V rated value at 400 V rated value | | |
| at 50 Hz at 60 Hz at 50 Hz apparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 60 Hz by at 60 Hz at 50 Hz at 60 Hz by at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC at DC by at AC by at | | with varistor |
| at 60 Hz inductive power factor with closing power of the coil at 50 Hz at 60 Hz binductive power factor with the holding power of the coil at 50 Hz at 60 Hz binductive power factor with the holding power of the coil at 50 Hz at 60 Hz binductive power of magnet coil at DC at 60 Hz closing power of magnet coil at DC blolding power of magnet coil at DC closing delay at AC at AC at AC at AC at AC at AC binductive power of magnet coil at DC closing delay at AC at AC at AC at AC at AC binductive power of magnet coil at DC closing delay at AC at AC at AC at AC binductive power of magnet coil at DC closing delay at AC at AC at AC at AC at AC at AC binductive power of magnet coil at DC copening delay at AC at AC at AC at AC at AC at AC binductive power of magnet coil at DC copening delay at AC binductive power of magnet coil at DC closing delay at AC | | |
| inductive power factor with closing power of the coil at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 60 | | |
| at 50 Hz at 60 Hz apparent holding power of magnet coil at AC at 50 Hz at 50 Hz at 60 Hz bolding power of magnet coil at DC at 60 Hz at 60 Hz bolding power of magnet coil at DC at 60 Hz at AC | | 830 VA |
| apparent holding power of magnet coil at AC at 50 Hz at 60 Hz at 60 Hz at 60 Hz at 60 Hz inductive power factor with the holding power of the coil at 50 Hz at 60 Hz at 60 Hz at 60 Hz by at 60 Hz at 60 Hz at 60 Hz by at 60 Hz by at 60 Hz at 60 Hz by at 60 | | |
| apparent holding power of magnet coil at AC at 50 Hz binductive power factor with the holding power of the coil at 50 Hz binductive power factor with the holding power of the coil at 50 Hz binductive power factor with the holding power of the coil at 50 Hz binductive power of magnet coil at DC binductive power of MC binductive power | | |
| at 50 Hz at 60 Hz g.2 VA inductive power factor with the holding power of the coil at 50 Hz at 50 Hz at 60 Hz 0.9 closing power of magnet coil at DC holding power of magnet coil at DC 10 W closing delay at AC at DC at DC at DC opening delay at AC at DC at DC<th></th><th>0.9</th> | | 0.9 |
| at 60 Hz inductive power factor with the holding power of the coll at 50 Hz at 60 Hz 0.9 closing power of magnet coil at DC holding power of magnet coil at DC 10 W closing delay at AC at DC at DC opening delay at AC at DC at 230 V rated value at 400 V rated value at 400 V rated value at 200 V rated | | |
| inductive power factor with the holding power of the coil • at 50 Hz • at 60 Hz • at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC tolosing delay • at AC • at DC opening delay • at AC • at DC opening delay • at AC • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 50 Hz 0.9 45 100 ms 45 100 ms 60 100 ms 60 100 ms 51 15 ms 52 54 100 ms 54 100 ms 65 100 ms 66 100 ms 67 100 ms 68 100 ms 69 100 ms 60 100 ms 6 | | |
| coil at 50 Hz at 60 Hz outsing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at AC at DC opening delay at AC at DC ot AC at DC ot AC at DC ot AC at DC ot AC at DC | | 9.2 VA |
| at 50 Hz at 60 Hz 0.9 closing power of magnet coil at DC holding power of magnet coil at DC 10 W closing delay at AC at DC 45 100 ms at DC opening delay at AC at DC at DC at DC 60 100 ms at DC at DC at DC 60 100 ms arcing time control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value 3 A | | |
| at 60 Hz closing power of magnet coil at DC holding power of magnet coil at DC closing delay at AC at DC opening delay at AC at DC opening delay at AC o | | 0.0 |
| closing power of magnet coil at DC holding power of magnet coil at DC closing delay • at AC • at DC • at DC • at AC • at BC • at AC • at BC • at BC • at BC • at BC • arcing time control version of the switch operating mechanism Control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • 3 A | | |
| holding power of magnet coil at DC closing delay • at AC • at DC opening delay • at AC • at DC of at DC • arcing time control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value 10 M 45 100 ms 60 100 ms 60 100 ms 60 100 ms 62 | | |
| closing delay • at AC • at DC • at DC opening delay • at AC • at DC • arcing time control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 400 V rated value • at AC 45 100 ms 45 100 ms 60 100 ms 60 100 ms 60 100 ms 52 standard A1 - A2 Auxiliary circuit 10 15 ms 2 instantaneous contact 10 A 10 A | • | |
| at AC at DC opening delay at AC at DC at DC at DC at DC at 100 ms acing time control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value 3 A | | 10 17 |
| at DC opening delay at AC at DC at DC arcing time control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value 3 A | | 45 100 ms |
| opening delay • at AC • at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value • 3 A | | |
| at AC at DC arcing time control version of the switch operating mechanism Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 at 230 V rated value at 400 V rated value 6 A 3 A | | 70 100 IIIS |
| ● at DC arcing time control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 ● at 230 V rated value ● at 400 V rated value 6 A ● at 400 V rated value 3 A | | 60 100 ms |
| arcing time control version of the switch operating mechanism Standard A1 - A2 Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value 3 A | | |
| Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact 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 | | |
| Auxiliary circuit number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value 3 A | _ | |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts 2 instantaneous contact 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 | | Glandal V AT - M2 |
| instantaneous contact number of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value 3 A | | 2 |
| number of NO contacts for auxiliary contacts instantaneous contact 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 | | 2 |
| instantaneous contact operational current at AC-12 maximum operational current at AC-15 • at 230 V rated value • at 400 V rated value 3 A | | 2 |
| operational current at AC-15 | instantaneous contact | |
| at 230 V rated value at 400 V rated value 3 A | operational current at AC-12 maximum | 10 A |
| • at 400 V rated value 3 A | operational current at AC-15 | |
| | • at 230 V rated value | |
| at 500 V rated value 2 A | at 400 V rated value | |
| | 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 125 V rated value | 2 A |
| at 220 V rated value | 1 A |
| at 600 V rated value | 0.15 A |
| operational current at DC-13 | |
| 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 | readity switching per 100 million (17 V, 1 m/v) |
| | |
| full-load current (FLA) for 3-phase AC motor | 477 A |
| 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 | |
| for short-circuit protection of the main circuit — with type of coordination 1 required | gG: 630 A (690 V, 100 kA) |
| — 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 |
| | 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 V, 50 kA) |
| — with type of coordination 1 required | gG: 500 A (690 V, 100 kA), aM: 500 A (690 V, 50 kA), BS88: 500 A (415 |
| — 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) |
| — 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) |
| — 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 |
| 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 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 |
| 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 |
| — 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 |
| 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 214 mm 160 mm |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 |
| 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 20 mm 10 mm 10 mm |
| 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 |
| 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 10 mm 10 mm |
| 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 - forwards for grounded parts upwards - forwards upwards - forwards 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 0 mm |
| with type of coordination 1 required with type of assignment 2 required for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions mounting position fastening method side-by-side mounting height width depth required spacing with side-by-side mounting forwards upwards at the side for grounded parts forwards upwards 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 10 mm |
| 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 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 10 mm |
| 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 at the side for grounded parts forwards upwards at the side for live parts for live parts 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 10 mm 10 mm 10 mm 10 mm 10 mm |
| 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 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 10 mm 10 mm 10 mm 10 mm 10 mm |
| 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 for grounded parts forwards upwards at the side for live parts for live parts upwards upwards • for live parts 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 20 mm 10 mm |
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| 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 for live parts forwards upwards at the side downwards for live parts forwards upwards downwards downwards for live parts downwards downwards downwards 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 |

• for main current circuit

• for auxiliary and control circuit

- at contactor for auxiliary contacts
- of magnet coil

width of connection bar

thickness of connection bar

diameter of holes

number of holes

connectable conductor cross-section for main contacts

stranded

connectable conductor cross-section for auxiliary contacts

- solid or stranded
- finely stranded with core end processing

type of connectable conductor cross-sections

- · for auxiliary contacts
 - solid
 - solid or stranded
 - finely stranded with core end processing
- at AWG cables for auxiliary contacts

AWG number as coded connectable conductor cross section

• for auxiliary contacts

Connection bar

screw-type terminals

Screw-type terminals

Screw-type terminals

25 mm

6 mm

11 mm

1

70 ... 240 mm²

0.5 ... 4 mm²

0.5 ... 2.5 mm²

2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²), max. 2x (0.75 ... 4 mm²)

2x (0,5 ... 1,5 mm²), 2x (0,75 ... 2,5 mm²), max. 2x (0,75 ... 4 mm²)

 $2x (0.5 \dots 1.5 \text{ mm}^2), 2x (0.75 \dots 2.5 \text{ mm}^2)$

2x (20 ... 16), 2x (18 ... 14), 1x 12

18 ... 14

Safety related data

product function

• mirror contact according to IEC 60947-4-1

• positively driven operation according to IEC 60947-

5-1

B10 value with high demand rate according to SN 31920

T1 value for proof test interval or service life according to IEC 61508

protection class IP on the front according to IEC 60529

touch protection on the front according to IEC 60529 suitability for use

safety-related switching OFF

Yes No

1 000 000

20 a

IP00; IP20 with box terminal/cover

finger-safe, for vertical contact from the front with box terminal/cover

Yes

Certificates/ approvals

General Product Approval

EMC

Functional Safety/Safety of Machinery



Confirmation



EAC



Type Examination Certificate

Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report

Miscellaneous



Marine / Shipping

A









Confirmation

other

Miscellaneous

other Railway

<u>Confirmation</u> <u>Miscellaneous</u> <u>Special Test Certific-</u> <u>Vibration and Shock</u>

ate

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=3RT1076-6AM36

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT1076-6AM36

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AM36

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

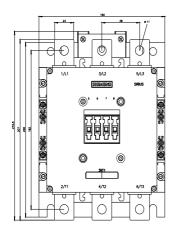
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT1076-6AM36&lang=en

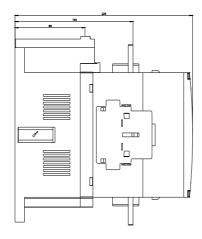
Characteristic: Tripping characteristics, I2t, Let-through current

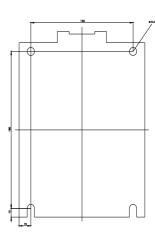
https://support.industry.siemens.com/cs/ww/en/ps/3RT1076-6AM36/char

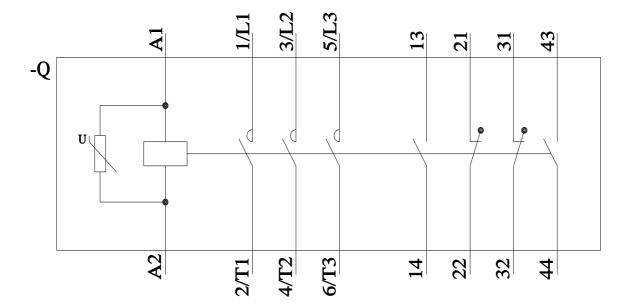
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT1076-6AM36&objecttype=14&gridview=view1









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