SIEMENS

Data sheet 3RT2035-3AP60



power contactor, AC-3 40 A, 18.5 kW / 400 V 1 NO + 1 NC, 220 V AC 50 Hz / 240 V, 60 Hz, 3-pole, Size S2, Spring-type terminal

| product brand name | SIRIUS | |
|---|-----------------------------|--|
| product designation | Power contactor | |
| product type designation | 3RT2 | |
| General technical data | | |
| size of contactor | S2 | |
| 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 | 6.6 W | |
| at AC in hot operating state per pole | 2.2 W | |
| without load current share typical | 18.5 W | |
| insulation voltage | | |
| of main circuit with degree of pollution 3 rated value | 690 V | |
| of auxiliary circuit with degree of pollution 3 rated value | 690 V | |
| surge voltage resistance | | |
| of main circuit rated value | 6 kV | |
| of auxiliary circuit rated value | 6 kV | |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 | 400 V | |
| shock resistance at rectangular impulse | | |
| • at AC | 11.8g / 5 ms, 7.4g / 10 ms | |
| shock resistance with sine pulse | | |
| • at AC | 18.5g / 5 ms, 11.6g / 10 ms | |
| mechanical service life (switching cycles) | | |
| of contactor typical | 10 000 000 | |
| of the contactor with added electronically optimized auxiliary switch block typical | 5 000 000 | |
| of the contactor with added auxiliary switch block typical | 10 000 000 | |
| reference code according to IEC 81346-2 | Q | |
| Substance Prohibitance (Date) | 10/01/2014 | |
| 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 % | |

| ain 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 | 690 V | |
| at AC-3e rated value maximum | 690 V | |
| operational current | | |
| at AC-1 at 400 V at ambient temperature 40 °C | 60 A | |
| rated value | | |
| • at AC-1 | | |
| — up to 690 V at ambient temperature 40 °C | 60 A | |
| rated value | | |
| up to 690 V at ambient temperature 60 °C | 55 A | |
| rated value | | |
| • at AC-3 | | |
| — at 400 V rated value | 41 A | |
| — at 500 V rated value | 41 A | |
| — at 690 V rated value | 24 A | |
| • at AC-3e | | |
| — at 400 V rated value | 41 A | |
| — at 500 V rated value | 41 A | |
| — at 690 V rated value | 24 A | |
| • at AC-4 at 400 V rated value | 35 A | |
| • at AC-5a up to 690 V rated value | 52.8 A | |
| at AC-5b up to 400 V rated value | 33.2 A | |
| • at AC-6a | | |
| — up to 230 V for current peak value n=20 rated | 36.5 A | |
| value | | |
| up to 400 V for current peak value n=20 rated | 36.5 A | |
| value | | |
| up to 500 V for current peak value n=20 rated value | 36.5 A | |
| | 24 A | |
| up to 690 V for current peak value n=20 rated value | 24 A | |
| • at AC-6a | | |
| — up to 230 V for current peak value n=30 rated | 24.2 A | |
| value | | |
| up to 400 V for current peak value n=30 rated | 24.2 A | |
| value | | |
| — up to 500 V for current peak value n=30 rated | 24.2 A | |
| value | 04.4 | |
| up to 690 V for current peak value n=30 rated value | 24 A | |
| minimum cross-section in main circuit at maximum AC-1 | 16 mm² | |
| rated value | 10 111111 | |
| operational current for approx. 200000 operating | | |
| cycles at AC-4 | | |
| • at 400 V rated value | 22 A | |
| at 690 V rated value | 18.5 A | |
| operational current | | |
| at 1 current path at DC-1 | | |
| — at 24 V rated value | 55 A | |
| — at 110 V rated value | 4.5 A | |
| — at 220 V rated value | 1 A | |
| — at 440 V rated value | 0.4 A | |
| — at 600 V rated value | 0.25 A | |
| • with 2 current paths in series at DC-1 | | |
| — at 24 V rated value | 55 A | |
| — at 110 V rated value | 45 A | |
| — at 220 V rated value | 5 A | |
| — at 440 V rated value | 1 A | |
| | 0.8 A | |
| — at 600 V rated value | U.O A | |

| — at 24 V rated value | 55 A | | |
|---|---|--|--|
| — at 110 V rated value | 55 A | | |
| — at 220 V rated value | 45 A | | |
| — at 440 V rated value | 2.9 A | | |
| — at 600 V rated value | 1.4 A | | |
| • at 1 current path at DC-3 at DC-5 | | | |
| — at 24 V rated value | 35 A | | |
| — at 110 V rated value | 2.5 A | | |
| — at 220 V rated value | 1 A | | |
| — at 440 V rated value | 0.1 A | | |
| — at 600 V rated value | 0.06 A | | |
| with 2 current paths in series at DC-3 at DC-5 | | | |
| — at 24 V rated value | 55 A | | |
| — at 110 V rated value | 25 A | | |
| — at 220 V rated value | 5 A | | |
| — at 440 V rated value | 0.27 A | | |
| — at 600 V rated value | 0.16 A | | |
| • with 3 current paths in series at DC-3 at DC-5 | | | |
| — at 24 V rated value | 55 A | | |
| — at 110 V rated value | 55 A | | |
| — at 220 V rated value | 25 A | | |
| — at 440 V rated value | 0.6 A | | |
| — at 600 V rated value | 0.35 A | | |
| operating power | | | |
| at AC-2 at 400 V rated value | 18.5 kW | | |
| • at AC-3 | | | |
| — at 230 V rated value | 11 kW | | |
| — at 400 V rated value | 18.5 kW | | |
| — at 500 V rated value | 22 kW | | |
| — at 690 V rated value | 22 kW | | |
| • at AC-3e | | | |
| — at 230 V rated value | 11 kW | | |
| — at 400 V rated value | 18.5 kW | | |
| — at 500 V rated value | 22 kW | | |
| — at 690 V rated value | 22 kW | | |
| operating power for approx. 200000 operating cycles at AC-4 | | | |
| • at 400 V rated value | 11.6 kW | | |
| at 690 V rated value | 16.8 kW | | |
| operating apparent power at AC-6a | | | |
| • up to 230 V for current peak value n=20 rated value | 14.5 kVA | | |
| • up to 400 V for current peak value n=20 rated value | 25.2 kVA | | |
| • up to 500 V for current peak value n=20 rated value | 31.6 kVA | | |
| • up to 690 V for current peak value n=20 rated value | 28.6 kVA | | |
| operating apparent power at AC-6a | | | |
| • up to 230 V for current peak value n=30 rated value | 9.6 kVA | | |
| • up to 400 V for current peak value n=30 rated value | 16.8 kVA | | |
| • up to 500 V for current peak value n=30 rated value | 21 kVA | | |
| • up to 690 V for current peak value n=30 rated value | 28.6 kVA | | |
| short-time withstand current in cold operating state | | | |
| up to 40 °C | | | |
| limited to 1 s switching at zero current maximum | 843 A; Use minimum cross-section acc. to AC-1 rated value | | |
| limited to 5 s switching at zero current maximum | 596 A; Use minimum cross-section acc. to AC-1 rated value | | |
| limited to 10 s switching at zero current maximum | 400 A; Use minimum cross-section acc. to AC-1 rated value | | |
| limited to 30 s switching at zero current maximum | 241 A; Use minimum cross-section acc. to AC-1 rated value | | |
| limited to 60 s switching at zero current maximum | 196 A; Use minimum cross-section acc. to AC-1 rated value | | |
| no-load switching frequency | | | |
| • at AC | 5 000 1/h | | |
| operating frequency | | | |
| • at AC-1 maximum | 1 200 1/h | | |
| • at AC-2 maximum | 750 1/h | | |
| | | | |

| - at AC 2 mayimum | 4 000 4 % | | |
|--|--|--|--|
| • at AC-3 maximum | 1 000 1/h | | |
| at AC-3e maximumat AC-4 maximum | 1 000 1/h | | |
| | 300 1/h | | |
| Control circuit/ Control | A.C. | | |
| type of voltage of the control supply voltage | AC | | |
| control supply voltage at AC | 220.1/ | | |
| at 50 Hz rated valueat 60 Hz rated value | 220 V 240 V | | |
| operating range factor control supply voltage rated | 240 V | | |
| value of magnet coil at AC | | | |
| ● at 50 Hz | 0.8 1.1 | | |
| ● at 60 Hz | 0.8 1.1 | | |
| apparent pick-up power of magnet coil at AC | | | |
| ● at 50 Hz | 212 VA | | |
| • at 60 Hz | 188 VA | | |
| inductive power factor with closing power of the coil | | | |
| ● at 50 Hz | 0.69 | | |
| • at 60 Hz | 0.65 | | |
| apparent holding power of magnet coil at AC | | | |
| • at 50 Hz | 18.5 VA | | |
| • at 60 Hz | 16.5 VA | | |
| inductive power factor with the holding power of the coil | | | |
| ● at 50 Hz | 0.36 | | |
| ● at 60 Hz | 0.39 | | |
| closing delay | | | |
| • at AC | 10 80 ms | | |
| opening delay | | | |
| • at AC | 10 18 ms | | |
| arcing time | 10 20 ms | | |
| control version of the switch operating mechanism | Standard A1 - A2 | | |
| Auxiliary circuit | | | |
| | | | |
| number of NC contacts for auxiliary contacts instantaneous contact | 1 | | |
| number of NC contacts for auxiliary contacts | 1 | | |
| number of NC contacts for auxiliary contacts instantaneous contact number of NO contacts for auxiliary contacts | | | |
| 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 | 1 10 A | | |
| 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 | 1 10 A 10 A | | |
| 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 | 1 10 A 10 A 3 A | | |
| 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 500 V rated value | 1 10 A 10 A 3 A 2 A | | |
| 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 500 V rated value • at 690 V rated value | 1 10 A 10 A 3 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 | 1 10 A 10 A 3 A 2 A 1 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value | 1 10 A 10 A 3 A 2 A 1 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 3 A 2 A 1 A 0.15 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 2 A 1 A 0.15 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 A 7 | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 600 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 350 V rated value • at 48 V rated value • at 48 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 48 V rated value • at 400 V rated value • at 410 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A | | |
| 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 690 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 148 V rated value • at 125 V rated value • at 125 V rated value • at 120 V rated value • at 125 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 125 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 29 V rated value • at 29 V rated value • at 20 V rated value • at 30 V rated value • at 48 V rated value • at 60 V rated value • at 60 V rated value • at 10 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A | | |
| 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 500 V rated value • at 690 V rated value operational current at DC-12 • at 24 V rated value • at 48 V rated value • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 25 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value | 1 10 A 10 A 3 A 2 A 1 A 10 A 6 A 6 A 6 A 3 A 2 A 1 A 0.15 A 10 A 2 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A | | |

| at 600 V rated value yielded mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 60/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit | at 400 V rated value | 40.4 | |
|--|--|---|--|
| vielded mechanical performance (Ip) • for single-phase AC motor | at 480 V rated value | 40 A | |
| • for single-phase AC motor — at 120 V rated value — at 220 V rated value — at 220230 V rated value — at 220230 V rated value — at 220230 V rated value — at 57560 V rated value — on the fuse link — with type of coordination 1 required — with type of coordination 1 required — with type of assignment 2 required — with type of assignment 2 required — with type of coordination 5 required — with type of coordination 5 required — with type of assignment 2 required — with type of assignment 2 required — to short-circuit protection of the auxiliary switch required — with type of assignment 2 required — to short-circuit protection of the auxiliary switch required — with type of assignment 2 required — to short-circuit protection of the auxiliary switch required — with type of assignment 2 required — stallation mounting dimensions — with a stallation mounting dimensions — the side — to short type of the auxiliary switch required — stallation mounting full mensions — with side-by-side mounting — to short type of the stallation possible on vertical mounting surface; can be titled forward and backward by 4-22.5° on vertical mounting surface; and be titled forward and backward by 4-22.5° on vertical mounting rail according to INIE N 60715 — yes — stallation mounting — to short type of the stallation possible on vertical mounting surface; can be titled forward and backward by 4-22.5° on vertical mounting surface; and be titled forward and backward by 4-22.5° on vertical mounting rail according to INIE N 60715 — so minuted to INIE | | 41 A | |
| at 1101/20 V rated value | | | |
| - at 230 V rated value • for 3 phase AC motor — at 220/208 V rated value — at 678/600 V rated value 2 on tract rating of auxiliary contacts according to UL **Rortecricult protection of auxiliary contacts according to UL **Rortecricult protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the main circuit — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • side-by-side mounting dimensions ***mounting position** ***salaktion**mounting/dimensions** **mounting position** ***salaktion**mounting/dimensions** **mounting position** **salaktion**mounting/dimensions** **salaktion**mounting/dimensi | | | |
| • for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 260/480 V rated value — at 460/480 V rated value — at 575/600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of coordination 1 required • for short-circuit protection of the auxiliary switch required — with type of coordination 1 required • for short-circuit protection of the auxiliary switch required — with type of coordination 1 required • for short-circuit protection of the auxiliary switch required — with type of coordination 1 required • for short-circuit protection of the auxiliary switch assallation mounting dimensions - statellation mounting dimensions - statellation mounting of dimensions - statellation mount | | · | |
| | | 7.5 hp | |
| at 220/230 V rated value | • | | |
| at 480/480 V rated value | | | |
| | | · | |
| Acoustic rating of auxillary contacts according to UL Short-circuit protection | | · | |
| Short-circuit protection design of the fuse link - with type of coordination 1 required - with type of cassignment 2 required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for short-circuit protection of the auxiliary switch required - for solidation, mounting dimensions - fastening method - side-by-side mounting - fastening method - side-by-side mounting - side-by-side mounting - with side-by-side mounting - forwards - upwards - upwards - downwards - or orgounded parts - forwards - upwards - or orgounded parts - forwards - ownwards - ownwards - ownwards - ownwards - ownwards - formand - ownwards - ownwards - formands - ownwards - formand current circuit - ownwards - formand current circuit - ownwards - formand current circuit - of or main current circuit - of or main current circuit - of ormanded current - of owned current - of ormanded | | 40 hp | |
| design of the fuse link • for short-circuit protection of the main circuit — with type of confination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch • for short-circuit • side-by-side mounting • side-by-side mounting • with side-by-side mounting • with side-by-side mounting • with side-by-side mounting • for wards • at the side • for grounded parts • for wards • for main current circuit • for main current circuit • for auxiliary on control circuit • for auxiliary on control circuit • for main current circuit • for main contacts • for main con | | A600 / P600 | |
| • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required • for short-circuit protection of the auxiliary switch equired • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • for short-circuit protection of the auxiliary switch required • side-by-side mounting • side-by-side mounting • side-by-side mounting • with side-by-side mounting • for grounded paris • for grounded paris • for grounded paris • for grounded paris • for wards • for live parts • for wards • for live parts • for wards • for wards • for live parts • for wards • for wards • for man current circuit • for auxiliary and control circuit • for auxiliary and control circuit • for main contacts | Short-circuit protection | | |
| - with type of coordination 1 required | design of the fuse link | | |
| - with type of assignment 2 required | for short-circuit protection of the main circuit | | |
| of r short-circuit protection of the auxillary switch required required required mounting position fastening method side-by-side mounting vide that the side of grounded parts - drowards of grounded parts - drowards of grounded parts - drowards | — with type of coordination 1 required | gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA) | |
| required mounting formations mounting position | — with type of assignment 2 required | gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA) | |
| mounting position | · | | |
| ### Action position #################################### | · | | |
| fastening method screw and snap-on mounting onto 35 mm standard mounting rall according to DIN EN 60715 • side-by-side mounting Yes height 114 mm width 55 mm depth 130 mm required spacing • with side-by-side mounting - forwards 10 mm - quywards 10 mm - at the side 0 0 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - forwards 10 mm - at the side 6 mm - forwards 10 mm - forwards 10 mm - for live parts 10 mm • for live parts 10 mm • for live parts 10 mm - forwards 10 mm - for live parts 10 mm - for ive parts 10 mm - for main current circuit 5 screw-type terminals 5 spring-loaded terminals 5 spring-type | | +/-180° rotation possible on vertical mounting surface; can be tilted | |
| e side-by-side mounting height vidth vidth depth 130 mm required spacing ● with side-by-side mounting — forwards — upwards — downwards — at the side — for grounded parts — for grounded parts — at the side — downwards — 10 mm — ownwards — upwards — 10 mm • for grounded parts — forwards — upwards — 10 mm • for grounded parts — forwards — upwards — 10 mm • for grounded parts — forwards — upwards — 10 mm • for main convards — 10 mm • for ive parts — forwards — 10 mm • for ive parts — forwards — 10 mm • for far in use parts — downwards — 10 mm • for far in use parts — downwards — 10 mm • for far in use parts — downwards — 10 mm • for far in use parts — downwards — downwards — downwards — downwards — downwards — of or main current circuit • for auxiliary and control circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing | | forward and backward by +/- 22.5° on vertical mounting surface | |
| height 114 mm width 55 mm depth 130 mm required spacing 10 mm with side-by-side mounting 10 mm — forwards 10 mm — downwards 10 mm — downwards 10 mm — for grounded parts 10 mm — forwards 10 mm — upwards 6 mm — downwards 10 mm — for live parts 10 mm — forwards 10 mm — downwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm Ownections/ Terminals 5 mm type of electrical connection 5 mm • for main current circuit screw-type terminals • for main current circuit screw-type terminals • for main contacts Spring-type terminals • for main contacts Spring-type terminals • for main contacts Spring-type terminals • for main contacts 2x (1 25 mm²), 1x (1 35 mm²) <td>•</td> <td>according to DIN EN 60715</td> | • | according to DIN EN 60715 | |
| width 55 mm depth 130 mm required spacing 10 mm with side-by-side mounting 10 mm — forwards 10 mm — upwards 10 mm — at the side 0 mm • for grounded parts 10 mm — forwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts 10 mm — of rowards 10 mm — upwards 10 mm — downwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm Connections/ Terminals 10 mm Expected extrical connection 5 mm • for main current circuit screw-type terminals • for or auxiliary and control circuit spring-type terminals • for magnet coil Spring-type terminals type of connectable conductor cross-sections 5 pring-type terminals • for main contacts 2x (1 35 mm²), 1x (1 50 mm²) • for main conta | , , | | |
| required spacing ● with side-by-side mounting — forwards — upwards — downwards — at the side ● for grounded parts — rowards — upwards — 10 mm • for grounded parts — forwards — upwards — 10 mm • for grounded parts — at the side — downwards — 10 mm • at the side — downwards — 10 mm • for live parts — forwards — upwards — 10 mm • for live parts — forwards — upwards — upwards — 10 mm • for live parts — forwards — upwards — 10 mm • for main current circuit — of main current circuit — of main current circuit — at the side — of main current circuit — at tontactor for auxiliary and control circuit — at contactor for auxiliary contacts — of magnet coil type of connectable conductor cross-sections — for main contacts — solid or stranded — finely stranded with core end processing — at AWG cables for main contacts — finely stranded with core end processing — finely strande | | | |
| e with side-by-side mounting - forwards - upwards - downwards - at the side of or grounded parts - the side of roll ive parts - forwards - upwards - to live parts - forwards - upwards - the side - downwards - the side - downwards - the side - downwards - to live parts - forwards - upwards - to live parts - forwards - upwards - upwards - upwards - the side - downwards - the side - downwards - the side - for ive parts - forwards - upwards - the side - formands - upwards - the side - formands - the side - formands - the side - formands - the side - formal current circuit - for auxiliary and control circuit - for auxiliary and control circuit - for auxiliary and control circuit - for for auxiliary contacts - of magnet coil type of connectable conductor cross-sections - find in contacts - solid or stranded - finely stranded - finely stranded with core end processing - at AWG cables for main contacts - finely stranded with core end processing - finely strande | | | |
| with side-by-side mounting forwards upwards downwards at the side for grounded parts for grounded parts forwards upwards 10 mm out the side forwards upwards at the side 6 mm downwards 10 mm for live parts forwards upwards for live parts downwards 10 mm upwards downwards 10 mm downwards at the side 6 mm Connections/ Terminals type of electrical connection for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil spring-type terminals type of connectable conductor cross-sections for main contacts solid or stranded for main contacts for main contacts at AWG cables for main contacts finely stranded with core end processing at may be at a market finely stranded with core end processing | • | 130 11111 | |
| forwards | | | |
| - upwards | | 10 mm | |
| - downwards - at the side • for grounded parts - forwards - upwards - upwards - at the side - downwards - at the side - downwards - at the side - downwards - for live parts - forwards - upwards - for live parts - forwards - upwards - upwards - upwards - downwards - downwards - at the side - downwards - at the side - for main current circuit - for main current circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - of magnet coil - for main contacts - solid or stranded - finely stranded with core end processing - at AWG cables for main contacts - finely stranded with core end processing - fin | | | |
| - at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards • for live parts - forwards - upwards - upwards - upwards - upwards - downwards - downwards - at the side - downwards - the side - formain current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing | • | | |
| • for grounded parts — forwards — upwards — at the side — downwards — for live parts — forwards — upwards — forwards — of prowards — of prowards — upwards — of main current circuit — for auxiliary and control circuit — at contactor for auxiliary contacts — of magnet coil type of connectable conductor cross-sections — for main contacts — solid or stranded — finely stranded with core end processing — at AWG cables for main contacts — finely stranded with core end processing — finely stranded w | | | |
| - forwards 10 mm - upwards 6 mm - at the side 6 mm - downwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary and control circuit spring-loaded terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections • for main contacts - solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) - at AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) connectable conductor cross-section for main contacts • finely stranded with core end processing 1 35 mm² | | O THILL | |
| - upwards - at the side - downwards 10 mm • for live parts - forwards - upwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing | | 10 mm | |
| - at the side | | | |
| - downwards • for live parts - forwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing 1 35 mm² | · | | |
| • for live parts - forwards - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing 1 35 mm² 10 mm 10 | | | |
| forwards upwards downwards at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts solid or stranded finely stranded with core end processing • finely stranded with core end processing | | 10 111111 | |
| - upwards - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing | • | 10 mm | |
| - downwards - at the side Connections/ Terminals type of electrical connection • for main current circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • finely stranded with core end processing | | | |
| - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit screw-type terminals • at contactor for auxiliary contacts Spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing 1 35 mm² | · | | |
| type of electrical connection • for main current circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing | | | |
| type of electrical connection • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing | | O IIIIII | |
| for main current circuit for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Spring-type terminals Spring-type terminals Spring-type terminals for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing finely stranded with core end processing at 35 mm² | | | |
| for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil Spring-type terminals Spring-type terminals Spring-type terminals for main contacts — solid or stranded — finely stranded with core end processing at AWG cables for main contacts at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts finely stranded with core end processing finely stranded with core end processing 1 35 mm² | | | |
| at contactor for auxiliary contacts of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts — solid or stranded — finely stranded with core end processing at AWG cables for main contacts at AWG cables for main contacts at AWG cables for main contacts finely stranded with core end processing at AWG cables for main contacts at AWG cables for main c | | ** | |
| ◆ of magnet coil Spring-type terminals type of connectable conductor cross-sections ◆ for main contacts — solid or stranded — finely stranded with core end processing ◆ at AWG cables for main contacts 2x (1 35 mm²), 1x (1 50 mm²) 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) connectable conductor cross-section for main contacts ◆ finely stranded with core end processing 1 35 mm² | - | | |
| type of connectable conductor cross-sections • for main contacts — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts connectable conductor cross-section for main contacts • finely stranded with core end processing 1 35 mm² 1 35 mm² | | | |
| for main contacts solid or stranded finely stranded with core end processing at AWG cables for main contacts connectable conductor cross-section for main contacts finely stranded with core end processing 35 mm² 1 35 mm² 1 35 mm² 1 35 mm² 1 35 mm² | | Spring-type terminals | |
| — solid or stranded — finely stranded with core end processing • at AWG cables for main contacts • onnectable conductor cross-section for main contacts • finely stranded with core end processing • finely stranded with core end processing 2x (1 35 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) | | | |
| — finely stranded with core end processing ♦ at AWG cables for main contacts Connectable conductor cross-section for main contacts ♦ finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) 2x (18 2), 1x (18 1) 35 mm² | | | |
| at AWG cables for main contacts 2x (18 2), 1x (18 1) connectable conductor cross-section for main contacts • finely stranded with core end processing 1 35 mm² | | | |
| connectable conductor cross-section for main contacts • finely stranded with core end processing 1 35 mm² | | | |
| contacts ● finely stranded with core end processing 1 35 mm² | | 2x (18 2), 1x (18 1) | |
| , , , | | | |
| connectable conductor cross-section for auxiliary | finely stranded with core end processing | 1 35 mm² | |
| contacts | | | |

| solid or stranded | 0.5 2.5 mm² | |
|---|-------------------------|--|
| finely stranded with core end processing | 0.5 1.5 mm ² | |
| finely stranded without core end processing | 0.5 2.5 mm² | |
| type of connectable conductor cross-sections | | |
| for auxiliary contacts | | |
| — solid or stranded | 2x (0.5 2.5 mm²) | |
| finely stranded with core end processing | 2x (0.5 1.5 mm²) | |
| finely stranded without core end processing | 2x (0.5 2.5 mm²) | |
| at AWG cables for auxiliary contacts | 2x (20 14) | |
| AWG number as coded connectable conductor cross section | | |
| for main contacts | 18 1 | |
| for auxiliary contacts | 20 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 | |
| B10 value with high demand rate according to SN 31920 | 1 000 000 | |
| proportion of dangerous failures | | |
| with low demand rate according to SN 31920 | 40 % | |
| with high demand rate according to SN 31920 | 73 % | |
| failure rate [FIT] with low demand rate according to SN 31920 | 100 FIT | |
| protection class IP on the front according to IEC 60529 | IP20 | |

Certificates/ approvals

suitability for use

General Product Approval

• safety-related switching OFF





touch protection on the front according to IEC 60529

Confirmation



finger-safe, for vertical contact from the front

<u>KC</u>



| EMC Sa | Functional Safety/Safety of Machinery | Declaration of Conformity | Test Certificates |
|--------|---|---------------------------|-------------------|
|--------|---|---------------------------|-------------------|

Yes



Type Examination Certificate



UK Declaration of Conformity Type Test Certificates/Test Report

Special Test Certificate

Marine / Shipping













Marine / Shipping other Railway Dangerous Good



Confirmation

Confirmation

Vibration and Shock

<u>Transport Information</u>

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2035-3AP60

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2035-3AP60

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3AP60

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

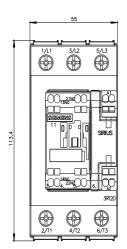
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT2035-3AP60&lang=en

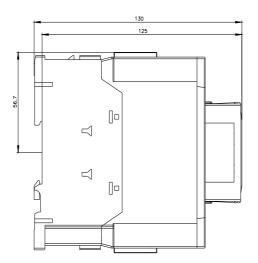
Characteristic: Tripping characteristics, I2t, Let-through current

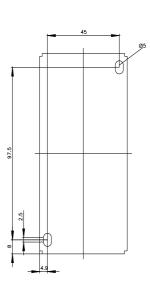
https://support.industry.siemens.com/cs/ww/en/ps/3RT2035-3AP60/char

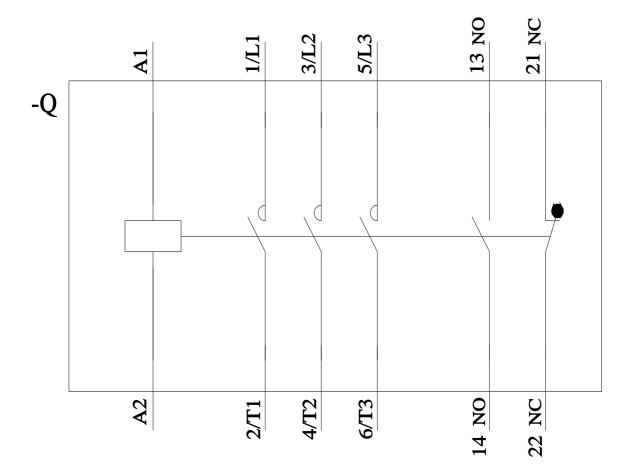
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2035-3AP60&objecttype=14&gridview=view1









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