SIEMENS

Data sheet 3RT2016-2AV02



power contactor, AC-3e/AC-3, 9 A, 4 kW / 400 V, 3-pole, 400 V AC, 50/60 Hz, auxiliary contacts: 1 NC, spring-loaded terminal, size: S00 $\,$

| product brand name | SIRIUS | |
|--|----------------------------|--|
| product designation | Power contactor | |
| product type designation | 3RT2 | |
| General technical data | | |
| size of contactor | S00 | |
| 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 | 0.9 W | |
| at AC in hot operating state per pole | 0.3 W | |
| without load current share typical | 4.2 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 protective separation between coil and main contacts according to EN 60947-1 | 400 V | |
| shock resistance at rectangular impulse | | |
| • at AC | 6,7g / 5 ms, 4,2g / 10 ms | |
| shock resistance with sine pulse | | |
| • at AC | 10,5g / 5 ms, 6,6g / 10 ms | |
| mechanical service life (operating cycles) | | |
| of contactor typical | 30 000 000 | |
| 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) | 10/01/2009 | |
| Ambient conditions | | |
| installation altitude at height above sea level maximum | 2 000 m | |
| ambient temperature | | |
| during operation | -25 +60 °C | |
| during storage | -55 +80 °C | |
| relative humidity minimum | 10 % | |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum | 95 % | |
| Main circuit | | |
| number of poles for main current circuit | 3 | |

| number of NO contacts for main contacts | 3 |
|--|--------|
| operating voltage | |
| at AC-3 rated value maximum | 690 V |
| at AC-3e rated value maximum | 690 V |
| operational current | |
| at AC-1 at 400 V at ambient temperature 40 °C rated | 22 A |
| value | |
| • at AC-1 | |
| — up to 690 V at ambient temperature 40 °C rated | 22 A |
| value | 20. 4 |
| up to 690 V at ambient temperature 60 °C rated value | 20 A |
| • at AC-3 | |
| — at 400 V rated value | 9 A |
| — at 500 V rated value | 7.7 A |
| — at 690 V rated value | 6.7 A |
| • at AC-3e | 0.77 |
| — at 400 V rated value | 9 A |
| — at 500 V rated value | 7.7 A |
| | 6.7 A |
| — at 690 V rated value | |
| at AC-4 at 400 V rated value at AC-5 cup to 600 V rated value | 8.5 A |
| at AC-5a up to 690 V rated value | 19.4 A |
| at AC-5b up to 400 V rated value | 7.4 A |
| • at AC-6a | |
| — up to 230 V for current peak value n=20 rated value | 5.3 A |
| — up to 400 V for current peak value n=20 rated value | 5.3 A |
| up to 500 V for current peak value n=20 rated value | 5.3 A |
| up to 690 V for current peak value n=20 rated value | 5 A |
| • at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 3.5 A |
| up to 400 V for current peak value n=30 rated value | 3.5 A |
| up to 500 V for current peak value n=30 rated value | 3.6 A |
| up to 690 V for current peak value n=30 rated value | 3.3 A |
| minimum cross-section in main circuit at maximum AC-1 rated value | 4 mm² |
| operational current for approx. 200000 operating cycles at | |
| AC-4 | |
| • at 400 V rated value | 4.1 A |
| at 690 V rated value | 3.3 A |
| operational current | |
| at 1 current path at DC-1 | |
| — at 24 V rated value | 20 A |
| — at 60 V rated value | 20 A |
| — at 110 V rated value | 2.1 A |
| — at 220 V rated value | 0.8 A |
| — at 440 V rated value | 0.6 A |
| — at 600 V rated value | 0.6 A |
| with 2 current paths in series at DC-1 | |
| — at 24 V rated value | 20 A |
| — at 60 V rated value | 20 A |
| — at 110 V rated value | 12 A |
| — at 110 V rated value — at 220 V rated value | 1.6 A |
| | 0.8 A |
| — at 440 V rated value | |
| — at 600 V rated value | 0.7 A |
| with 3 current paths in series at DC-1 at 24 V rated value. | 20.4 |
| — at 24 V rated value | 20 A |
| — at 60 V rated value | 20 A |
| — at 110 V rated value | 20 A |
| — at 220 V rated value | 20 A |
| — at 440 V rated value | 1.3 A |
| — at 600 V rated value | 1 A |
| at 1 current path at DC-3 at DC-5 | |

| — at 24 V rated value | 20 A |
|---|---|
| — at 60 V rated value | 0.5 A |
| — at 110 V rated value | 0.15 A |
| with 2 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 20 A |
| — at 60 V rated value | 5 A |
| — at 110 V rated value | 0.35 A |
| with 3 current paths in series at DC-3 at DC-5 | |
| — at 24 V rated value | 20 A |
| — at 60 V rated value | 20 A |
| — at 110 V rated value | 20 A |
| — at 220 V rated value | 1.5 A |
| — at 440 V rated value | 0.2 A |
| | 0.2 A |
| — at 600 V rated value | 0.2 A |
| operating power | ALW |
| at AC-2 at 400 V rated value | 4 kW |
| • at AC-3 | |
| — at 230 V rated value | 2.2 kW |
| — at 400 V rated value | 4 kW |
| — at 500 V rated value | 4 kW |
| — at 690 V rated value | 5.5 kW |
| • at AC-3e | |
| — at 230 V rated value | 2.2 kW |
| — at 400 V rated value | 4 kW |
| — at 500 V rated value | 4 kW |
| — at 690 V rated value | 5 kW |
| operating power for approx. 200000 operating cycles at AC- | |
| 4 | |
| at 400 V rated value | 2 kW |
| at 690 V rated value | 2.5 kW |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=20 rated value | 2 kVA |
| up to 400 V for current peak value n=20 rated value | 3.6 kVA |
| up to 500 V for current peak value n=20 rated value | 4.6 kVA |
| up to 690 V for current peak value n=20 rated value | 5.9 kVA |
| operating apparent power at AC-6a | |
| up to 230 V for current peak value n=30 rated value | 1.3 kVA |
| • up to 400 V for current peak value n=30 rated value | 2.4 kVA |
| • up to 500 V for current peak value n=30 rated value | 3.1 kVA |
| up to 690 V for current peak value n=30 rated value | 4 kVA |
| short-time withstand current in cold operating state up to | |
| 40 °C | |
| limited to 1 s switching at zero current maximum | 155 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum | 111 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 10 s switching at zero current maximum | 86 A; Use minimum cross-section acc. to AC-1 rated value |
| • limited to 30 s switching at zero current maximum | 66 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 60 s switching at zero current maximum | 55 A; Use minimum cross-section acc. to AC-1 rated value |
| no-load switching frequency | |
| • at AC | 10 000 1/h |
| operating frequency | |
| • at AC-1 maximum | 1 000 1/h |
| • at AC-2 maximum | 750 1/h |
| • at AC-3 maximum | 750 1/h |
| at AC-3e maximum | 750 1/h |
| • at AC-4 maximum | 250 1/h |
| • at AC-4 maximum Control circuit/ Control | 200 1/11 |
| | AC |
| type of voltage of the control supply voltage | AC |
| control supply voltage at AC | 400.1/ |
| at 50 Hz rated value | 400 V |
| at 60 Hz rated value | 400 V |
| operating range factor control supply voltage rated value of magnet coil at AC | |
| magner con at 40 | |

| ● at 50 Hz | 0.8 1.1 |
|--|---|
| ● at 60 Hz | 0.85 1.1 |
| apparent pick-up power of magnet coil at AC | |
| ● at 50 Hz | 27 VA |
| ● at 60 Hz | 24.3 VA |
| inductive power factor with closing power of the coil | |
| ● at 50 Hz | 0.8 |
| ● at 60 Hz | 0.75 |
| apparent holding power of magnet coil at AC | |
| ● at 50 Hz | 4.2 VA |
| ● at 60 Hz | 3.3 VA |
| inductive power factor with the holding power of the coil | |
| ● at 50 Hz | 0.25 |
| ● at 60 Hz | 0.25 |
| closing delay | |
| • at AC | 9 35 ms |
| opening delay | |
| • at AC | 4 15 ms |
| arcing time | 10 15 ms |
| control version of the switch operating mechanism | Standard A1 - A2 |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts instantaneous | 1 |
| contact | |
| operational current at AC-12 maximum | 10 A |
| operational current at AC-15 | |
| at 230 V rated value | 10 A |
| at 400 V rated value | 3 A |
| at 500 V rated value | 2 A |
| at 690 V rated value | 1 A |
| operational current at DC-12 | |
| at 24 V rated value | 10 A |
| at 48 V rated value | 6 A |
| at 60 V rated value | 6 A |
| at 110 V rated value | 3 A |
| at 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 | |
| full-load current (FLA) for 3-phase AC motor | |
| • at 480 V rated value | 7.6 A |
| at 600 V rated value | 9 A |
| yielded mechanical performance [hp] | |
| • for single-phase AC motor | |
| — at 110/120 V rated value | 0.33 hp |
| — at 230 V rated value | 1 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 2 hp |
| — at 220/230 V rated value | 3 hp |
| — at 460/480 V rated value | 5 hp |
| — at 575/600 V rated value | 7.5 hp |
| contact rating of auxiliary contacts according to UL | A600 / Q600 |
| Short-circuit protection | |
| | |

| design of the fuse link • for short-circult protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required for short-circult protection of the auxiliary switch required fastening method e side-by-side mounting height 70 mm width 45 mm fequired spacing • with side-by-side mounting — forwards — upwards — upwards — at the side • for grounded parts — forwards — the side — downwards — the side — downwards — to fine parts — forwards — upwards — the side — downwards — the side — downwards — the side — downwards — to for live parts — forwards — upwards — the side — downwards — to for main current circuit • for auxiliary and control circuit • stord connectable conductor cross-sections for main contacts • solid • sild or stranded without core end processing • finely stranded without co |
|--|
| - with type of coordination 1 required - with type of assignment 2 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 |
| - with type of assignment 2 required |
| ■ for short-circuit protection of the auxillary switch required Installation/ mounting (dimensions) mounting position |
| mounting position |
| mounting position #-/-180" rotation possible on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward backward by +/- 22.5" on vertical mounting surface; can be tilted forward screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 607 Yes height 70 mm width 45 mm depth 73 mm required spacing with side-by-side mounting — forwards 10 mm — downwards 10 mm — downwards 10 mm — at the side 6 mm — of rorwards 10 mm — at the side 6 mm — downwards 10 mm • for live parts — for live parts — forwards 10 mm • for live parts — downwards 10 mm — at the side 6 mm — downwards 10 mm — for live parts — of man durrent circuit spring-loaded terminals * at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxillary contacts Spring-loaded terminals • at contactor for auxillary contacts • solid solid or stranded • solid or stranded • finely stranded with core end processing • connectable conductor cross-section for main contacts |
| backward by +/- 22.5° on vertical mounting surface screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 607 yes height 70 mm width 45 mm depth 73 mm required spacing • with side-by-side mounting — forwards 10 mm — upwards 10 mm — at the side • for grounded parts — forwards 10 mm — at the side • for grounded parts — forwards 10 mm — at the side • for grounded parts — forwards 10 mm — at the side — downwards 10 mm — at the side — downwards 10 mm — at the side 6 mm — to wards 10 mm — at the side 6 mm — to wards 10 mm — to main current circuit spring-loaded terminals — at the side 6 mm Connections/ Torminals Type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary contacts • solid • solid or stranded • for ingly stranded with core end processing • finely stranded with core or main contacts be connectable conductor cross-section for main contacts spring-type terminals yes of magnet connection for main contacts connectable conductor cross-section for main contacts connectable conductor cross-section for main contacts connectable conductor cross-section for main contacts |
| eside-by-side mounting height 70 mm width 45 mm depth 73 mm required spacing with side-by-side mounting - forwards - upwards - downwards - at the side for grounded parts - forwards - upwards - to mm - downwards - upwards - forwards - upwards - forwards - upwards - forwards - upwards - at the side - downwards - at the side - downwards - to mm - at the side - downwards - upwards - for live parts - forwards - upwards - for main curent circuit - downwards - downwards - at the side - downwards - to mm - at the side - downwards - to mm - at the side - formal side - downwards - to mm - at the side - formal side - for auxiliary and control circuit - for auxiliary and control circuit - of magnet coil type of connectable conductor cross-sections for main contacts - solid - finely stranded with core end processing - finely stranded with core end processing - finely stranded with core end processing - finely stranded with core or main contacts - connectable conductor cross-section for main contacts - connectable conductor cross-section for main contacts - solid - finely stranded with core end processing - finely stranded with core |
| height width 45 mm depth 73 mm required spacing • with side-by-side mounting — forwards 10 mm — downwards 10 mm — at the side 0 mm — at the side 6 mm — at the side 6 mm — at the side 6 mm — at the side 6 mm — at the side 6 mm — at the side 6 mm — at the side 6 mm — at the side 6 mm — at the side 6 mm — at the side 6 mm — at the side 6 mm — owwards 10 mm — at the side 6 mm — owwards 10 mm — at the side 6 mm — owwards 10 mm — to rowards 10 mm — at the side 6 mm — owwards 10 mm — at the side 6 mm — owwards 10 mm — owwards 10 mm — owwards 10 mm — at the side 6 mm Connections/ Torminals Type of electrical connection • for auxiliary and control circuit spring-loaded terminals • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts • solid • solid or stranded • finely stranded without core end processing • finely stranded without core section for main contacts |
| width 45 mm depth 73 mm required spacing • with side-by-side mounting — forwards 10 mm — upwards 10 mm — at the side 0 mm — ownwards 10 mm — at the side 6 mm — ownwards 10 mm — at the side 6 mm — ownwards 10 mm • for live parts — forwards 10 mm • for live parts — forwards 10 mm • for min current circuit spring-loaded terminals type of electrical connection • for main current circuit spring-loaded terminals • at contactor for auxiliary contacts • of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts • solid spring-loaded terminals 2x (0.5 2.5 mm²) • finely stranded without core end processing 2x (0.5 2.5 mm²) • fonnectable conductor cross-section for main contacts • finely stranded without core end processing 2x (0.5 2.5 mm²) • fonnectable conductor cross-section for main contacts • finely stranded without core end processing 2x (0.5 2.5 mm²) • finely stranded without core end processing 2x (0.5 2.5 mm²) • finely stranded without core end processing 2x (0.5 2.5 mm²) |
| depth 73 mm |
| required spacing with side-by-side mounting forwards upwards of downwards at the side for grounded parts for grounded parts for grounded parts for mwards upwards for mwards for mwards for mwards for mwards for mwards for live parts for live parts for live parts for live parts for mwards for live parts for mwards for live parts for mwards for auxiliary and control circuit spring-loaded terminals type of electrical connection for magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing finely stranded without core end processing fornnectable conductor cross-section for main contacts |
| with side-by-side mounting — forwards — upwards — downwards — at the side of or grounded parts — forwards — upwards — upwards — upwards — at the side of or grounded parts — forwards — upwards — 10 mm — downwards — odwnwards — 10 mm of or live parts — forwards — forwards — upwards — 10 mm of or live parts — forwards — 10 mm of or live parts — forwards — 10 mm — at the side — downwards — odwnwards — od ownwards — of main current circuit — for auxiliary and control circuit — of or auxiliary and control circuit — of magnet coil type of connectable conductor cross-sections for main contacts of magnet coil type of connectable conductor cross-section for main contacts of inely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — for main curran contacts of finely stranded without core end processing — forwards — forward |
| forwards 10 mm upwards 10 mm downwards 10 mm at the side 0 mm for grounded parts forwards 10 mm upwards 10 mm downwards 10 mm downwards 10 mm for live parts for live parts forwards 10 mm upwards 10 mm 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 auxiliary and control circuit spring-loaded terminals for auxiliary and control circuit spring-loaded terminals at contactor for auxiliary contacts Spring-type terminals for agnet coil Spring-type terminals of magnet coil Spring-type terminals of magnet coil Spring-type terminals of magnet coil Spring-type terminals of solid or stranded 2x (0.5 4 mm²) solid or stranded with core end processing 2x (0.5 2.5 mm²) finely stranded without core end processing 2x (0.5 2.5 mm²) finely stranded without core end processing 2x (0.5 2.5 mm²) connectable conductor cross-section for main contacts |
| - upwards |
| - downwards |
| - at the side • for grounded parts - forwards - upwards - at the side - downwards • for live parts - forwards - upwards • for live parts - forwards 10 mm • for live parts - forwards 10 mm - upwards - upwards 10 mm - upwards - downwards 10 mm - upwards - 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 2x (0.5 4 mm²) • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • connectable conductor cross-section for main contacts Spring-type terminals |
| • for grounded parts - forwards - upwards - upwards - at the side - downwards • for live parts - forwards - upwards • for live parts - forwards - upwards - upwards - upwards - upwards - downwards - at the side - downwards - at the side - formain 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 • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for main contacts • connectable conductor cross-section for main contacts • finely stranded without core end processing • finely stranded without core end processing • connectable conductor cross-section for main contacts |
| - forwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm • for live parts - forwards 10 mm - towards 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 spring-loaded terminals • for auxiliary and control circuit spring-loaded terminals • at contactor for auxiliary contacts Spring-type terminals type of connectable conductor cross-sections for main contacts • solid 2x (0.5 4 mm²) • finely stranded with core end processing 2x (0.5 2.5 mm²) connectable conductor cross-section for main contacts |
| - upwards - at the side - downwards 10 mm • for live parts - forwards 10 mm • for live parts - forwards 10 mm - upwards 10 mm - upwards 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 • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing connectable conductor cross-section for main contacts • connectable conductor cross-section for main contacts • finely stranded without core end processing • finely stranded without core end processing • finely stranded without cross-section for main contacts |
| — at the side — downwards • for live parts — forwards — upwards — 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 • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • connectable conductor cross-section for main contacts • finely stranded without core end processing • finely stranded without core end processing • connectable conductor cross-section for main contacts • connectable conductor cross-section for main contacts • finely stranded without core end processing • finely stranded without core end processing • finely stranded without cross-section for main contacts |
| - 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 • solid or stranded • finely stranded with core end processing • finely stranded without core end processing connectable conductor cross-section for main contacts • for live parts 10 mm 10 |
| for live parts — forwards — upwards — downwards — at the side Connections/ Terminals type of electrical connection • 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 |
| - forwards 10 mm - upwards 10 mm - downwards 10 mm - at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit 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 2x (0.5 4 mm²) • solid or stranded • finely stranded with core end processing 2x (0.5 2.5 mm²) • finely stranded without core end processing 2x (0.5 2.5 mm²) connectable conductor cross-section for main contacts |
| - 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 • solid or stranded • finely stranded with core end processing • finely stranded without core end processing connectable conductor cross-section for main contacts 10 mm 10 |
| downwards |
| — at the side 6 mm Connections/ Terminals type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit 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 2x (0.5 4 mm²) • solid or stranded 2x (0,5 4 mm²) • finely stranded with core end processing 2x (0.5 2.5 mm²) • finely stranded without core end processing 2x (0.5 2.5 mm²) connectable conductor cross-section for main contacts |
| type of electrical connection • for main current circuit spring-loaded terminals • for auxiliary and control circuit 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 2x (0.5 4 mm²) • solid or stranded 2x (0,5 4 mm²) • finely stranded with core end processing 2x (0.5 2.5 mm²) • finely stranded without core end processing 2x (0.5 2.5 mm²) connectable conductor cross-section for main contacts |
| 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 • solid or stranded • finely stranded with core end processing • finely stranded without core end processing connectable conductor cross-section for main contacts • finely stranded without core end processing connectable conductor cross-section for main contacts • connectable conductor cross-section for main contacts |
| 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 solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing finely connectable conductor cross-section for main contacts |
| for auxiliary and control circuit at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing finely connectable conductor cross-section for main contacts |
| at contactor for auxiliary contacts of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing connectable conductor cross-section for main contacts |
| of magnet coil Spring-type terminals type of connectable conductor cross-sections for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing connectable conductor cross-section for main contacts |
| type of connectable conductor cross-sections for main contacts • solid • solid • solid or stranded • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing connectable conductor cross-section for main contacts |
| solid 2x (0.5 4 mm²) solid or stranded 4x (0.5 4 mm²) finely stranded with core end processing finely stranded without core end processing |
| solid or stranded finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing 2x (0.5 2.5 mm²) connectable conductor cross-section for main contacts |
| finely stranded with core end processing finely stranded without core end processing 2x (0.5 2.5 mm²) connectable conductor cross-section for main contacts |
| • finely stranded without core end processing 2x (0.5 2.5 mm²) connectable conductor cross-section for main contacts |
| connectable conductor cross-section for main contacts |
| |
| |
| • stranded 0.5 4 mm² |
| • stranded • finely stranded with core end processing 0.5 4 mini- 0.5 2.5 mm² |
| • finely stranded with core end processing • finely stranded without core end processing 0.5 2.5 mm² |
| connectable conductor cross-section for auxiliary contacts |
| • solid or stranded 0.5 4 mm² |
| • finely stranded with core end processing 0.5 4 mm² |
| • finely stranded with core end processing • 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 4 mm²) |
| — finely stranded with core end processing 2x (0.5 2.5 mm²) |
| — finely stranded without core end processing 2x (0.5 2.5 mm²) |
| • for AWG cables for auxiliary contacts 2x (20 12) |
| AWG number as coded connectable conductor cross |
| section |
| • for main contacts 20 12 |
| • for auxiliary contacts 20 12 |
| Safety related data |
| product function |

| mirror contact according to IEC 60947-4-1 | Yes |
|---|--|
| 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 |
| T1 value for proof test interval or service life according to IEC 61508 | 20 a |
| protection class IP on the front according to IEC 60529 | IP20 |
| touch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front |
| suitability for use | |
| safety-related switching OFF | Yes |
| a contract to | |

Certificates/ approvals

General Product Approval





Confirmation



<u>KC</u>



EMC

Functional Safety/Safety of Machinery

Declaration of Conformity

Test Certificates



Type Examination Cer**tificate**





Type Test Certificates/Test Report

Special Test Certific-

Marine / Shipping













Marine / Shipping

other

Environmental Confirmations

Environment



Confirmation



Confirmation

Vibration and Shock

Railway

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RT2016-2AV02

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2016-2AV02

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2AV02

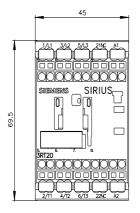
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

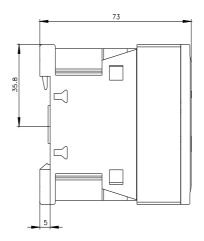
Characteristic: Tripping characteristics, I2t, Let-through current

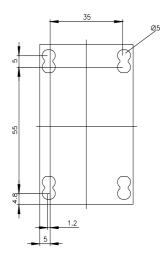
https://support.industry.siemens.com/cs/ww/en/ps/3RT2016-2AV02/char

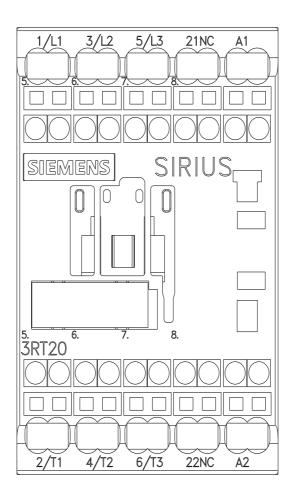
Further characteristics (e.g. electrical endurance, switching frequency)

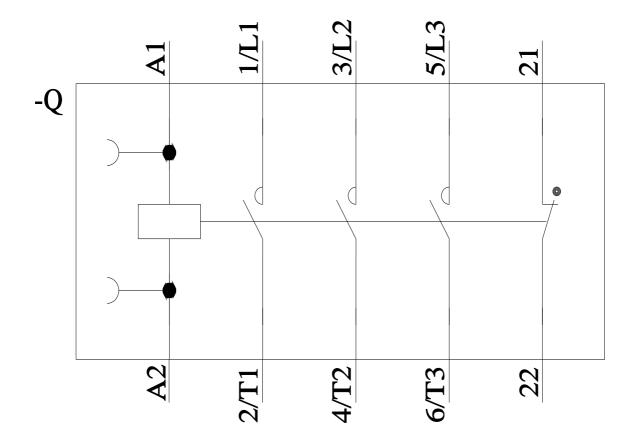
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2016-2AV02&objecttype=14&gridview=view1











last modified: 2/10/2023 🖸