SIEMENS

Data sheet

3RV2021-4DA10



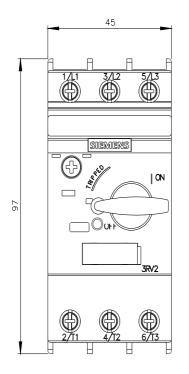
Circuit breaker size S0 for motor protection, CLASS 10 A-release 18...25 A N-release 325 A Screw terminal Standard switching capacity

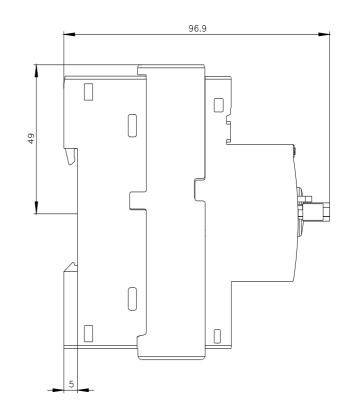
| 4/12 0/15 | | | |
|---|----------------------|--|--|
| product brand name | SIRIUS | | |
| product designation | Circuit breaker | | |
| design of the product | For motor protection | | |
| product type designation | 3RV2 | | |
| General technical data | | | |
| size of the circuit-breaker | SO | | |
| size of contactor can be combined company-specific | S00, S0 | | |
| product extension auxiliary switch | Yes | | |
| power loss [W] for rated value of the current | | | |
| at AC in hot operating state | 10.5 W | | |
| at AC in hot operating state per pole | 3.5 W | | |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V | | |
| surge voltage resistance rated value | 6 kV | | |
| shock resistance according to IEC 60068-2-27 | 25g / 11 ms | | |
| mechanical service life (operating cycles) | | | |
| of the main contacts typical | 100 000 | | |
| of auxiliary contacts typical | 100 000 | | |
| electrical endurance (operating cycles) typical | 100 000 | | |
| reference code according to IEC 81346-2 | Q | | |
| Substance Prohibitance (Date) | 10/01/2009 | | |
| SVHC substance name | Lead - 7439-92-1 | | |
| Ambient conditions | | | |
| installation altitude at height above sea level maximum | 2 000 m | | |
| ambient temperature | | | |
| during operation | -20 +60 °C | | |
| during storage | -50 +80 °C | | |
| during transport | -50 +80 °C | | |
| relative humidity during operation | 10 95 % | | |
| Main circuit | | | |
| number of poles for main current circuit | 3 | | |
| adjustable current response value current of the current- dependent overload release | 18 25 A | | |
| operating voltage | | | |
| rated value | 20 690 V | | |
| at AC-3 rated value maximum | 690 V | | |
| at AC-3e rated value maximum | 690 V | | |
| operating frequency rated value | 50 60 Hz | | |
| operational current rated value | 25 A | | |
| operational current | | | |
| at AC-3 at 400 V rated value | 25 A | | |

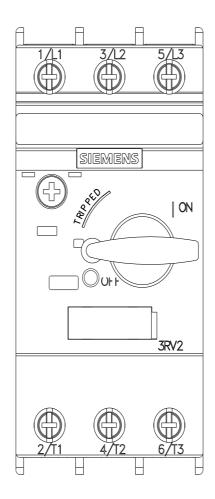
| • at AC-3e at 400 V rated value | 25 A |
|--|--|
| operating power | |
| • at AC-3 | |
| - at 230 V rated value | 5.5 kW |
| — at 200 V rated value | 11 kW |
| — at 500 V rated value | 15 kW |
| | 22 kW |
| - at 690 V rated value | ZZ KVV |
| • at AC-3e | |
| - at 230 V rated value | 5.5 kW |
| — at 400 V rated value | 11 kW |
| — at 500 V rated value | 15 kW |
| — at 690 V rated value | 22 kW |
| operating frequency | |
| • at AC-3 maximum | 15 1/h |
| • at AC-3e maximum | 15 1/h |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts | |
| • | 0 |
| number of NO contacts for auxiliary contacts | |
| • | 0 |
| number of CO contacts for auxiliary contacts | 0 |
| Protective and monitoring functions | |
| product function | |
| ground fault detection | No |
| phase failure detection | Yes |
| trip class | CLASS 10 |
| design of the overload release | thermal |
| maximum short-circuit current breaking capacity (lcu) | |
| at AC at 240 V rated value | 100 kA |
| • at AC at 400 V rated value | 55 kA |
| at AC at 500 V rated value | 10 kA |
| at AC at 690 V rated value | 4 kA |
| operating short-circuit current breaking capacity (Ics) at AC | |
| at 240 V rated value | 100 kA |
| • at 400 V rated value | 25 kA |
| • at 500 V rated value | 5 kA |
| at 690 V rated value | 2 kA |
| response value current of instantaneous short-circuit trip unit | 325 A |
| UL/CSA ratings | |
| | |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value | 25 A |
| | 25 A |
| at 600 V rated value | 25 A |
| yielded mechanical performance [hp] | |
| • for single-phase AC motor | 2 hz |
| — at 110/120 V rated value | 2 hp |
| — at 230 V rated value | 3 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 5 hp |
| — at 220/230 V rated value | 7.5 hp |
| — at 460/480 V rated value | 15 hp |
| Short-circuit protection | |
| product function short circuit protection | Yes |
| design of the short-circuit trip | magnetic |
| design of the fuse link for IT network for short-circuit protection of the main circuit | |
| • at 400 V | gL/gG 63 A |
| • at 500 V | gL/gG 50 A |
| • at 690 V | gL/gG 50 A |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| | |

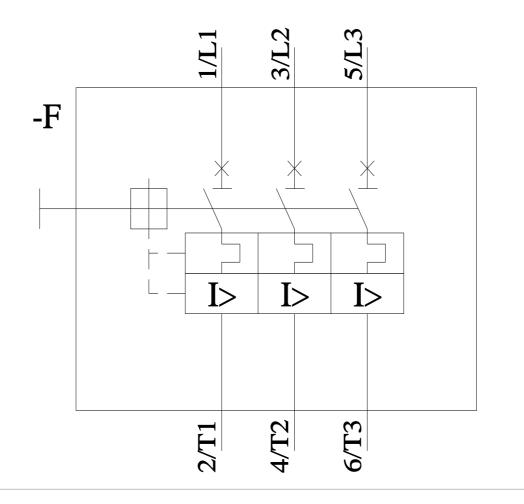
| integrate >> min deptin 45 min deptin 497 min required spacing 0 mm • with abc-by-side mouting at the side 0 mm • downwords 30 mm - downwords 30 mm - downwords 30 mm - upwards 30 mm - downwords 50 mm - downwords 50 mm - downwords 50 mm - downwords <th>height</th> <th>97 mm</th> | height | 97 mm |
|---|---|---------------------------------|
| deph 97 mm required spacing 0 mm - downwards 30 mm - upwards 50 mm - upwards | • | |
| required spacing omm • win slot-by-side mounting at the side omm • downwards 30 mm - downwards 30 mm - upwards 30 mm - at the side 9 mm • for grounds parts at 400 V - - at the side 9 mm • downwards 30 mm - at the side 9 mm • downwards 30 mm - at the side 9 mm • downwards 30 mm - at the side 9 mm • downwards 30 mm - at the side 9 mm • downwards 30 mm - at the side 9 mm • downwards 30 mm - at the side 9 mm • downwards 50 mm - upwards 30 mm - at the side 0 mm - downwards 50 mm - upwards 50 mm - downwards 50 mm - downwards 0 mm - forwards 0 mm | | |
| • with side by-side mounting at the side0 mm• for grounded parts at 400 V30 mm• upwards30 mm• upwards30 mm• upwards30 mm• of the parts at 400 V30 mm• upwards30 mm• upwards50 mm• upwards50 mm• upwards50 mm• upwards30 mm• upwards30 mm• upwards30 mm• upwards50 mm• for long parts at 600 V50 mm• upwards30 mm | - | |
| • for grounded parts at 90 V- downatids9 nm- upwads9 nm- at the side9 nm- downwards30 nm- upwards30 nm- upwards9 nm- upwards30 nm- upwards9 nm- upwards30 nm- upwards30 nm- upwards30 nm- upwards30 nm- upwards30 nm- at the side9 nm- downwards30 nm- upwards9 nm- downwards30 nm- at the side9 nm- downwards50 nm- upwards0 nm- upwards50 nm< | | 0 mm |
| - downwards30 mm- upwards30 mm- upwards9 mm- downwards30 mm- upwards30 mm- upwards50 mm- upwards2x (1 25 mm ²), 2x (2 10 mm ³)< | | 0 mm |
| - upwards30 nm- at the side9 nm- downwards30 nm- downwards30 nm- upwards9 nm- for ire prior at sto V9 nm- downwards30 nm- upwards30 nm- downwards30 nm- at the side9 nm- downwards30 nm- at the side9 nm- downwards30 nm- at the side9 nm- upwards30 nm- upwards30 nm- upwards30 nm- upwards30 nm- upwards30 nm- upwards30 nm- upwards50 nm- upwards50 nm- upwards50 nm- backwards0 nm- backwards0 nm- backwards0 nm- backwards0 nm- upwards50 nm- upwards50 nm- backwards0 nm- backwards0 nm- upwards50 nm- upwards5 | | 00 |
| | | |
| • for live parts at 400 V 30 mm - downwards 30 mm - upwards 30 mm - at the side 9 mm • for grounded parts at 500 V 9 mm - downwards 30 mm - upwards 30 mm - at the side 9 mm - downwards 30 mm - at the side 9 mm - downwards 30 mm - upwards 50 mm - downwards 50 mm - downwards 50 mm - downwards 50 mm - downwards 50 mm - upwards 50 mm - downwards 50 mm - upwards 50 mm - at the side 0 mm - at the side 0 mm - forwards <td< td=""><td>•</td><td></td></td<> | • | |
| | | 9 mm |
| - upwards30 mm- at the side9 mm- downwards30 mm- downwards30 mm- upwards30 mm- upwards9 mm- of ive parts at 500 V9 mm- of onive parts at 500 Traine current of main current orivit9 mm- of | | |
| | | |
| for grounded parts at 500 V downwards 30 mm | • | |
| - downwards 30 mm - upwards 30 mm - at the side 9 mm • for live parts at 500 V 30 mm - upwards 50 mm - of ownain current circuit 50 mm - downwards 50 mm - upwards 50 mm - downwards 50 mm - upwards 50 mm - downwards 50 mm - downwards 50 mm - at the side 30 mm - at the side 30 mm - boxtwards 0 mm - at the side 30 mm - boxtwards 50 mm - at the side 30 mm - at the side 30 mm - boxtwards 0 mm - at the side | | 9 mm |
| | | |
| - ait he side9 mm• for live parts at 500 V30 mm- upwards30 mm- upwards30 mm- at the side9 mm• for grounded parts at 500 V downwards50 mm- backwards50 mm- backwards50 mm- backwards0 mm- backwards50 mm- backwards50 mm- backwards50 mm- backwards50 mm- backwards50 mm- backwards50 mm- for live parts at 600 V downwards50 mm- for live parts at 600 V downwards50 mm- backwards50 mm- forwards7 paind bottom- forwards7 paind bottom- forwards7 paind bottom- forwards2x (1 25 mm ³), 2x (2 5 10 mm ³)- solid or stranded2x (1 25 mm ³), 2x (2 5 10 mm ³)- solid or stranded2x (1 25 mm ³), 2x (2 5 10 mm ³)- forwards2x (1 25 mm ³), 2x (2 5 10 mm ³)- solid or stranded2x (1 25 mm ³), 2x (2 5 10 mm ³)- forwards2x (1 25 mm ³), 2x (2 5 10 mm ³)- forwards2x (1 25 mm ³), 2x (2 5 10 mm ³)- for main contacts2x (1 25 mm ³), | — downwards | 30 mm |
| • for live parts at 500 V9- downwards30 mm- at the side9 mm• for grounded parts at 690 V9- downwards50 mm- upwards50 mm- upwards00 mm- backwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- for live parts at 690 V0- for live parts at 690 V0 mm- for live parts at 690 V0 mm- downwards50 mm- downwards0 mm- downwards50 mm- downwards0 mm- downwards0 mm- downwards0 mm- at the side0 mm- at the side0 mm- for ania current circuitscrew-type terminals- for ania current circuitscrew-type terminalsarrangement of electrical connectors for main current - sold or stranded2x (1 25 mm²), 2x (2 5 10 mm²)- for main contacts2x (1 25 mm²), 2x (2 5 10 mm²)- for main contacts2x (1 25 mm²), 2x (2 5 10 mm²)- for AWG cables for main contacts2x (1 25 mm²), 2x (2 5 10 mm²)- for fails stranded with core end processing2x (1 25 mm²), 2x (2 5 10 mm²)- for dow stranded2x (1 25 mm²), 2x (2 5 10 mm²)- for dow stranded2x (1 25 mm²), 2x (2 5 6 mm²), 1x 10 mm²- for main contacts with screw-type terminals2 2.5 Nmdesign of the thread of the connection screwMa- for main contacts50 % | — upwards | 30 mm |
| - downwards30 mm- upwards9 mm- of the side9 mm- of or grounded parts at 690 V9 mm- upwards50 mm- upwards50 mm- upwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- for vards50 mm- for vards50 mm- for vards50 mm- upwards50 mm- for vards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- upwards50 mm- upwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- for main current circuitscrew-type terminalstrenuinalsscrew-type terminalstrenuinals2x (1 25 mm²), 2x (2 10 mm²)- for main contacts2x (1 25 mm²), 2x (2 10 mm²)- for diar contacts2x (1 25 mm²), 2x (2 10 mm²)- for main contacts2x (1 25 mm²), 2x (2 10 mm²)- for main contacts2x (1 25 mm²), 2x (2 10 mm²)- for main contacts2x (1 25 mm²), 2x (2 10 mm²)- for main contacts2x (1 25 mm²), 2x (2 10 mm²)- for main contacts2x (1 25 mm²), 2x (2 10 mm²)- for main contacts2x (1 25 mm²), 2x (2 10 mm²)- for main contacts2x (1 25 mm²), 2x (2 10 m²)- for main contacts <t< td=""><td>— at the side</td><td>9 mm</td></t<> | — at the side | 9 mm |
| upwards30 mm- at the side9 mm• for grounded parts at 680 V50 mm upwards50 mm upwards50 mm upwards50 mm backwards0 mm forwards0 mm forwards0 mm forwards50 mm forwards50 mm downwards50 mm downwards50 mm downwards50 mm upwards50 mm upwards50 mm downwards0 mm backwards0 mm backwards0 mm downwards30 mm downwards0 mm downwards50 mm downwards0 mm forwards0 mm forwards0 mm forwards0 mm forwards0 mm forwards0 mm forwards0 mm formain current circuitscrew-type terminals formain current circuitTop and bottom formain contacts2x (1 2.5 mm ²), 2x (2.5 10 mm ²) finely stranded with core end processing2x (1 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² formain contacts2 2.5 Nm formain contacts2 2.5 Nm formain contacts2 2.5 Nm formain contacts2 2.5 Nm formain contacts4 2.5 mm ²), 2x (2.5 6 mm ²), 1x 10 mm ² formain contacts2 2.5 Nm formain contacts4 2.5 m | for live parts at 500 V | |
| | — downwards | 30 mm |
| • for grounded parts at 690 V - downwards - downwards 50 mm - upwards 50 mm - backwards 0 mm - at the side 30 mm - forwards 0 mm - forwards 0 mm - forwards 50 mm - upwards 50 mm - downwards 50 mm - upwards 50 mm - upwards 50 mm - backwards 0 mm - for main current circuit 50 mm - for main current circuit 50 mm - for main current circuit 50 mm - for and in current circuit 50 mm - for and in current circuit 50 pa al bottom - for and in contacts 2x (1 2.5 mm ³), 2x (2.5 10 mm ²) - solid or stranded 2x (1 2.5 mm ³), 2x (2.5 10 mm ²) - for main contacts 2 2.5 mm ³ , 2x (2.5 10 mm ²) - for main contacts 2 2.5 mm ³ , 2x (2.5 10 mm ²) - for main contacts 2 2.5 mm ³ , 2x (2.5 10 mm ²) - for main contacts 2 2.5 mm ³ , 2x (2.5 6 mm ³), 1x 10 mm ² - for main cont | — upwards | 30 mm |
| - downwards50 mm- upwards50 mm- backwards50 mm- backwards30 mm- at the side30 mm- forwards0 mm- forwards50 mm- upwards50 mm- upwards50 mm- backwards0 mm- backwards0 mm- backwards0 mm- backwards0 mm- at the side0 mm- forwards0 mm- forwards2 x (1 2.5 mm ³), 2 x (2.5 10 mm ³)- for main contacts2 x (1 2.5 mm ³), 2 x (2.5 10 mm ³)- for main contacts2 2.5 Nm- formain contacts5 0 %- formain contacts5 0 %- formain contacts5 0 %< | — at the side | 9 mm |
| - upwards 50 mm - backwards 0 mm - backwards 0 mm - at the side 30 mm - for live parts at 690 V - - downwards 50 mm - upwards 50 mm - backwards 50 mm - upwards 50 mm - backwards 0 mm - backwards 50 mm - backwards 2 membranes - for main current circuit screw-type terminals - for main | for grounded parts at 690 V | |
| | — downwards | 50 mm |
| at the side30 mm forwards0 mm for live parts at 690 V0 downwards50 mm downwards50 mm downwards0 mm backwards0 mm backwards0 mm at the side30 mm for wards0 mm for wards0 mm for main current circuitscrew-type terminals for main current circuitscrew-type terminals for main current circuitscrew-type terminals for main contacts2x (1 2.5 mm²), 2x (2.5 10 mm²) solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 10 mm²) finely stranded with core end processing2 2.5 Nm design of screwdriver shaftDiameter 5 to 6 mmsize of the screwdriver shaftDiameter 5 to 6 mmsize of the screwdriver shaftDiameter 5 to 6 mm with liph demand rate according to SN 3192050 % with liph demand rate according to SN 3192050 % with liph demand rate according to SN 3192050 % with liph demand rate according to SN 3192050 %< | — upwards | 50 mm |
| forwards0 mm• for live parts at 890 V50 mm downwards50 mm upwards50 mm backwards0 mm backwards0 mm at the side30 mm at the side0 mm forwards0 mm forwards forwards forwards forwards forwards forwards formain current circuit forwards for main contacts2x (1 2.5 mm ³), 2x (2.5 10 mm ³) forky stranded with core end processing2x (1 2.5 mm ³), 2x (2.5 6 mm ³), 1x 10 mm ² formain contacts with screw-type terminals2 2.5 Nrmdesign of screwdriver shaftDiameter 5 to 6 mmsize of the screwdriver shaftDiameter 5 to 6 mmsize of the screwdriver tip | — backwards | 0 mm |
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