SIEMENS

Data sheet

3RV2321-4FC10

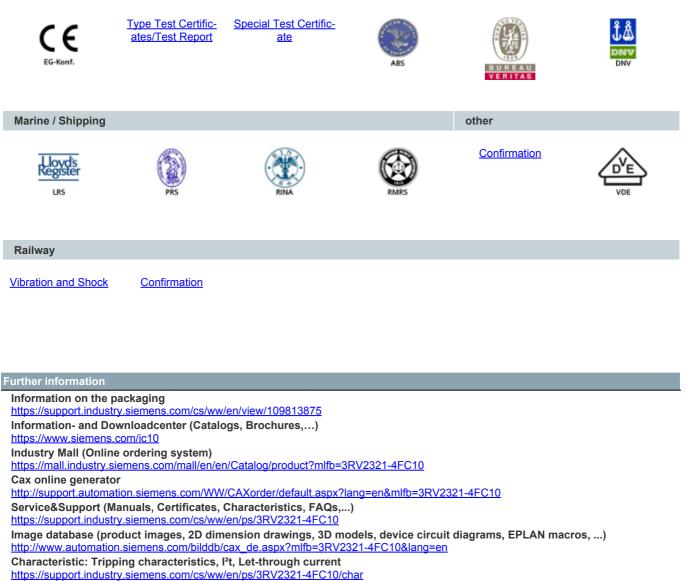


Circuit breaker size S0 for starter combination Rated current 40 A Nrelease 480 A screw terminal Standard switching capacity

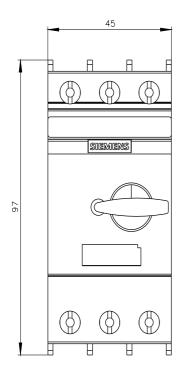
| 4/12 6/15 | |
|---|--------------------------|
| product brand name | SIRIUS |
| product designation | Circuit breaker |
| design of the product | For starter combinations |
| product type designation | 3RV2 |
| General technical data | |
| size of the circuit-breaker | S0 |
| size of contactor can 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 | 16.25 W |
| at AC in hot operating state per pole | 5.4 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 |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |
| ambient temperature | |
| during operation | -20 +40 °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 |
| operating voltage | |
| rated value | 20 690 V |
| at AC-3 rated value maximum | 690 V |
| operating frequency rated value | 50 60 Hz |
| operational current rated value | 40 A |
| operational current | |
| at AC-3 at 400 V rated value | 40 A |
| operating power | |
| • 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 |

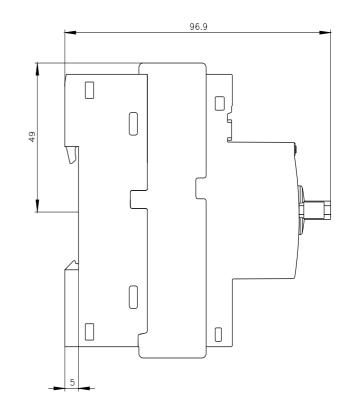
| — at 690 V rated value | 39 kW |
|---|--|
| operating frequency | UU KVV |
| • at AC-3 maximum | 15 1/h |
| Auxiliary circuit | |
| number of NC contacts for auxiliary contacts | 0 |
| number of NO contacts for auxiliary contacts | 0 |
| number of CO contacts for auxiliary contacts | 0 |
| Protective and monitoring functions | |
| product function | |
| ground fault detection | No |
| phase failure detection | No |
| maximum short-circuit current breaking capacity (lcu) | |
| at AC at 240 V rated value | 100 kA |
| at AC at 400 V rated value | 20 kA |
| at AC at 500 V rated value | 6 kA |
| at AC at 690 V rated value | 3 kA |
| operating short-circuit current breaking capacity (Ics) at AC | |
| • at 240 V rated value | 100 kA |
| • at 400 V rated value | 10 kA |
| • at 500 V rated value | 3 kA |
| at 690 V rated value | 2 kA |
| response value current of instantaneous short-circuit trip unit | 480 A |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 40 A |
| • at 600 V rated value | 40 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 3 hp |
| — at 230 V rated value | 7.5 hp |
| for 3-phase AC motor at 200/208 V rated value | 10 hp |
| — at 220/200 V rated value | 10 hp |
| — at 460/480 V rated value | 30 hp |
| Short-circuit protection | oo np |
| 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 | ů (martine do la construction do la constru |
| • at 400 V | gG 63 A |
| • at 500 V | gG 63 A |
| • at 690 V | gG 63 A |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| height | 97 mm |
| height width | 45 mm |
| depth | 45 mm |
| required spacing | |
| with side-by-side mounting at the side | 9 mm |
| for grounded parts at 400 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| for live parts at 400 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| for grounded parts at 500 V | |
| — downwards | 30 mm |

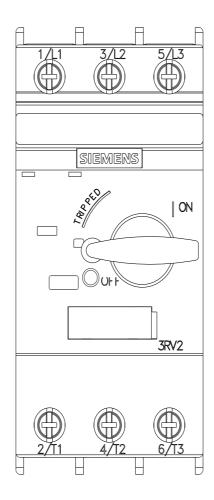
| — upwards | 30 mm |
|---|--|
| — at the side | 9 mm |
| for live parts at 500 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| for grounded parts at 690 V | |
| — downwards | 50 mm |
| — upwards | 50 mm |
| — backwards | 0 mm |
| — at the side | 30 mm |
| — forwards | 0 mm |
| • for live parts at 690 V | |
| — downwards | 50 mm |
| — upwards | 50 mm |
| — backwards | 0 mm |
| — at the side | 30 mm |
| — forwards | 0 mm |
| | 0 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| for main current circuit | screw-type terminals |
| arrangement of electrical connectors for main current | Top and bottom |
| circuit | |
| type of connectable conductor cross-sections | |
| for main contacts | |
| — solid or stranded | 2x (1 2.5 mm²), 2x (2.5 10 mm²) |
| finely stranded with core end processing | 2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm² |
| at AWG cables for main contacts | 2x (16 12), 2x (14 8) |
| tightening torque | |
| for main contacts with screw-type terminals | 2 2.5 N·m |
| decian of corowdriver chaft | Diameter 5 to 6 mm |
| design of screwdriver shaft | |
| | Pozidriv size 2 |
| size of the screwdriver tip | |
| 0 | |
| size of the screwdriver tip design of the thread of the connection screw • for main contacts | Pozidriv size 2 |
| size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data | Pozidriv size 2 |
| size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value | Pozidriv size 2 M4 |
| size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 | Pozidriv size 2 |
| size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures | Pozidriv size 2 M4 5 000 |
| size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 | Pozidriv size 2 M4 5 000 50 % |
| size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 | Pozidriv size 2 M4 5 000 50 % 50 % |
| size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 T1 value for proof test interval or service life according to | Pozidriv size 2 M4 5 000 50 % |
| size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 | Pozidriv size 2 M4 5 000 50 % 50 % 10 a |
| size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC | Pozidriv size 2 M4 5 000 50 % 50 % |
| size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 | Pozidriv size 2 M4 5 000 50 % 50 % 10 a IP20 |
| size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 | Pozidriv size 2 M4 5 000 50 % 50 % 10 a IP20 finger-safe, for vertical contact from the front |
| size of the screwdriver tip design of the thread of the connection screw • for main contacts Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status | Pozidriv size 2 M4 5 000 50 % 50 % 10 a IP20 |
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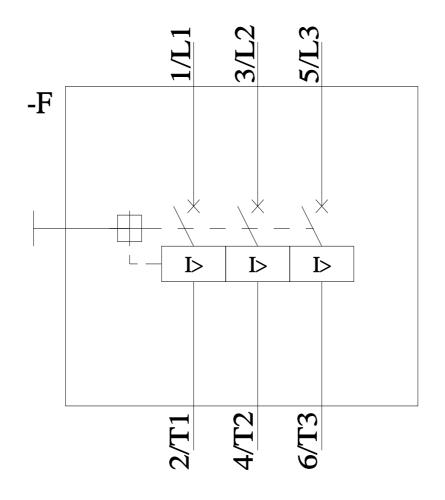
Further characteristics (e.g. electrical endurance, switching frequency) <u>http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2321-4FC10&objecttype=14&gridview=view1</u>







2/23/2023



last modified:

11/21/2022 🖸