SIEMENS

Data sheet 3RV2331-4DC10



Circuit breaker size S2 for starter combination Rated current 25 A N-release 325 A Screw terminal Standard switching capacity

| 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 | S2 | |
| size of contactor can be combined company-specific | S2 | |
| product extension auxiliary switch | Yes | |
| power loss [W] for rated value of the current | | |
| at AC in hot operating state | 14.5 W | |
| at AC in hot operating state per pole | 4.8 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 Sinus | |
| mechanical service life (operating cycles) | | |
| of the main contacts typical | 50 000 | |
| of auxiliary contacts typical | 50 000 | |
| electrical endurance (operating cycles) typical | 50 000 | |
| reference code according to IEC 81346-2 | Q | |
| Substance Prohibitance (Date) | 10/15/2014 | |
| SVHC substance name | Blei - 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 | |
| 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 400 V rated value | 11 kW |
| — at 500 V rated value | 15 kW |
| — at 690 V rated value | 22 kW |
| • 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 |
| Protective and monitoring functions | |
| | |
| product function | No |
| ground fault detection phase failure detection | No No |
| phase failure detection trip class. | No |
| trip class | CLASS 10 |
| maximum short-circuit current breaking capacity (Icu) | 400 1-4 |
| at AC at 400 V rated value | 100 kA |
| at AC at 400 V rated value | 65 kA |
| at AC at 500 V rated value | 12 kA |
| at AC at 690 V rated value | 5 kA |
| operating short-circuit current breaking capacity (lcs) at AC | |
| • at 240 V rated value | 100 kA |
| at 400 V rated value | 30 kA |
| at 500 V rated value | 6 kA |
| at 690 V rated value | 3 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 |
| at 600 V rated value | 25 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 2 hp |
| — at 230 V rated value | 5 hp |
| for 3-phase AC motor | |
| — at 200/208 V rated value | 7.5 hp |
| — at 220/230 V rated value | 10 hp |
| — at 460/480 V rated value | 20 hp |
| — at 575/600 V rated value | 25 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 240 V | none required |
| • at 400 V | 100 |
| • at 500 V | 80 |
| • at 690 V | 63 |
| Installation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| | 55.5 Sind only on mounting onto do min Dire run docording to Dire Lie 00/ 15 |
| | |
| height | 140 mm |
| height width | 140 mm 55 mm |
| height | 140 mm |

| with side-by-side mounting at the side | 0 mm |
|---|--|
| • for grounded parts at 400 V | |
| — downwards | 50 mm |
| — upwards | 50 mm |
| — at the side | 10 mm |
| • for live parts at 400 V | |
| — downwards | 50 mm |
| — upwards | 50 mm |
| — at the side | 10 mm |
| • for grounded parts at 500 V | |
| — downwards | 50 mm |
| — upwards | 50 mm |
| — at the side | 10 mm |
| for live parts at 500 V | |
| — downwards | 50 mm |
| — upwards | 50 mm |
| — at the side | 10 mm |
| for grounded parts at 690 V | |
| — downwards | 50 mm |
| — upwards | 50 mm |
| — backwards | 0 mm |
| — at the side | 10 mm |
| — forwards | 0 mm |
| for live parts at 690 V | |
| — downwards | 50 mm |
| — upwards | 50 mm |
| — backwards | 0 mm |
| — at the side | 10 mm |
| — forwards | 0 mm |
| Connections/ Terminals | |
| type of electrical connection | |
| for main current circuit | screw-type terminals |
| arrangement of electrical connectors for main current circuit | Top and bottom |
| type of connectable conductor cross-sections | |
| • for main contacts | |
| — solid or stranded | 2x (1 25 mm²), 1x (1 35 mm²) |
| finely stranded with core end processing | 2x (1 16 mm²), 1x (1 25 mm²) |
| for AWG cables for main contacts | 2x (18 3), 1x (18 2) |
| tightening torque | |
| for main contacts with screw-type terminals | 3 4.5 N·m |
| design of screwdriver shaft | Diameter 5 to 6 mm |
| size of the screwdriver tip | Pozidriv size 2 |
| design of the thread of the connection screw | |
| for main contacts | M6 |
| Safety related data | |
| proportion of dangerous failures | |
| with low demand rate according to SN 31920 | 50 % |
| with high demand rate according to SN 31920 | 50 % |
| failure rate [FIT] with low demand rate according to SN 31920 | 50 FIT |
| B10 value with high demand rate according to SN 31920 | 5 000 |
| IEC 61508 | |
| T1 value for proof test interval or service life according to IEC 61508 | 10 a |
| Electrical Safety | |
| 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 |
| display version for switching status | Handle |
| Approvals Certificates | |
| General Product Approval | |





Confirmation





<u>KC</u>

General Product Approval

Test Certificates

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certificate







Marine / Shipping

other







Miscellaneous

Confirmation



Railway

Environment

Confirmation

EPD Typ II/III (with life cylce assessment)

Further information

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=3RV2331-4DC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2331-4DC10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4DC10

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

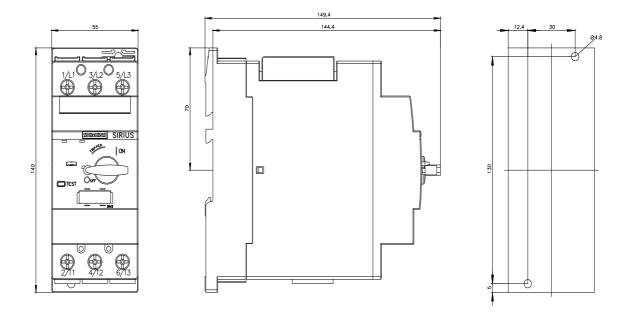
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2331-4DC10&lang=en

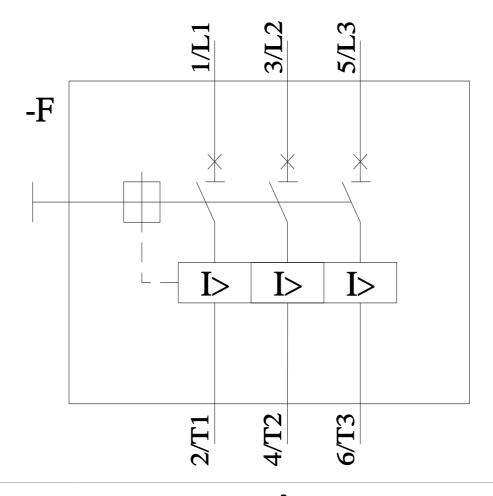
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2331-4DC10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2331-4DC10&objecttype=14&gridview=view1





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