



Special type Circuit breaker size S00 for motor protection, CLASS 10 A-release 10...16 A N-release 208 A screw terminal Standard switching capacity Ambient temperature -50 °C 500 switching cycles

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| product brand name | SIRIUS |
| product designation | Circuit breaker |
| design of the product | For motor protection |
| product type designation | 3RV2 |
| General technical data | |
| Product equipment of circuit breaker for motor protection complete unit with protection device | Yes |
| size of the circuit-breaker | S00 |
| size of contactor can be combined company-specific | S00, S0 |
| product function disconnecter functionality | Yes |
| product extension auxiliary switch | Yes |
| power loss [W] for rated value of the current | |
| • at AC in hot operating state | 9.25 W |
| • at AC in hot operating state per pole | 3.1 W |
| type of calculation of power loss current-dependent | quadratic |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| surge voltage resistance rated value | 6 kV |
| maximum permissible voltage for protective separation | |
| • in networks with ungrounded star point between main and auxiliary circuit | 400 V |
| • in networks with grounded star point between main and auxiliary circuit | 400 V |
| protection class IP | |
| • on the front according to IEC 60529 | IP20 |
| • on the front | IP20 |
| • of the terminal | IP20 |
| shock resistance according to IEC 60068-2-27 | 25g / 11 ms |
| mechanical service life (operating cycles) | |
| • of the main contacts typical | 500 |
| • of auxiliary contacts typical | 500 |
| electrical endurance (operating cycles) typical | 500 |
| reference code according to IEC 81346-2 | Q |
| continuous current rated value | 16 A |
| Substance Prohibitance (day/month/year) | 10/01/2009 |
| Net Weight | 0.354 kg |
| Ambient conditions | |
| installation altitude at height above sea level maximum | 2 000 m |

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| ambient temperature | |
| • during operation | -50 ... +60 °C |
| • during storage | -50 ... +80 °C |
| • during transport | -50 ... +80 °C |
| temperature compensation | -20 ... +60 °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 | 10 ... 16 A |
| type of voltage for main current circuit | AC |
| operating voltage | |
| • rated value | 690 V |
| • rated value | 20 ... 690 V |
| • at AC-3 rated value maximum | 690 V |
| operating frequency rated value | 50 ... 60 Hz |
| operational current rated value | 16 A |
| operational current | |
| • at AC-3 at 400 V rated value | 16 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 4 kW |
| — at 400 V rated value | 7.5 kW |
| — at 500 V rated value | 7.5 kW |
| — at 690 V rated value | 11 kW |
| operating frequency | |
| • at AC-3 maximum | 15 1/h |
| Auxiliary circuit | |
| type of voltage for auxiliary and control circuit | AC/DC |
| 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 |
| protection function thermal overload protection (ANSI 49) | Yes |
| maximum short-circuit current breaking capacity (Icu) | |
| • 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 | 30 kA |
| • at 500 V rated value | 5 kA |
| • at 690 V rated value | 2 kA |
| response value current of instantaneous short-circuit trip unit | 208 A |
| 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 | gG 80 A |
| • at 400 V | gG 63 A |
| • at 500 V | gG 50 A |
| • at 690 V | gG 40 A |

Installation/ mounting/ dimensions

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| mounting position | any |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| Mounting method of circuit breaker for Transformer protection, Generator protection and system protection optional standard bar mounting | Yes |
| height | 97 mm |
| width | 45 mm |
| depth | 97 mm |
| required spacing | |
| <ul style="list-style-type: none"> ● with side-by-side mounting <ul style="list-style-type: none"> — forwards 0 mm — backwards 0 mm — upwards 50 mm — downwards 50 mm — at the side 0 mm ● for grounded parts <ul style="list-style-type: none"> — forwards 0 mm — backwards 0 mm — upwards 50 mm — at the side 30 mm — downwards 50 mm ● for live parts <ul style="list-style-type: none"> — forwards 0 mm — backwards 0 mm — upwards 50 mm — downwards 50 mm — at the side 30 mm ● for grounded parts at 400 V <ul style="list-style-type: none"> — downwards 30 mm — upwards 30 mm — at the side 9 mm ● for live parts at 400 V <ul style="list-style-type: none"> — downwards 30 mm — upwards 30 mm — at the side 9 mm ● for grounded parts at 500 V <ul style="list-style-type: none"> — downwards 30 mm — upwards 30 mm — at the side 9 mm ● for live parts at 500 V <ul style="list-style-type: none"> — downwards 30 mm — upwards 30 mm — at the side 9 mm ● for grounded parts at 690 V <ul style="list-style-type: none"> — downwards 50 mm — upwards 50 mm — backwards 0 mm — at the side 30 mm — forwards 0 mm ● for live parts at 690 V <ul style="list-style-type: none"> — downwards 50 mm — upwards 50 mm — backwards 0 mm — at the side 30 mm — forwards 0 mm | |

Connections/ Terminals

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| product component removable terminal for auxiliary and control circuit | No |
| type of electrical connection | |

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| • 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 (0,75 ... 2,5 mm ²), 2x 4 mm ² |
| — finely stranded with core end processing | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| connectable conductor cross-section for main contacts | |
| • solid or stranded | 0.75 ... 4 mm ² |
| • finely stranded with core end processing | 0.5 ... 2.5 mm ² |
| tightening torque | |
| • for main contacts with screw-type terminals | 0.8 ... 1.2 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 | M3 |

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| IEC 61508 | |
| T1 value | |
| • for proof test interval or service life according to IEC 61508 | 10 a |

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| 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 |

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| Display | |
| display version for switching status | Handle |

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| Approvals Certificates | |
| Environmental Product Declaration | |
| • global warming potential [CO2 eq] / during manufacturing | 1.98 kg |
| • global warming potential [CO2 eq] / during sales | 0.134 kg |
| • global warming potential [CO2 eq] / during operation | 72.7 kg |
| • global warming potential [CO2 eq] / after end of life | -0.116 kg |
| • global warming potential [CO2 eq] / total | 74.698 kg |

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|--------------------|---------------------------------|
| Environment | General Product Approval |
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[Environmental Confirmations](#)








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|---|---|
| General Product Approval | Test Certificates |
|     | Special Test Certificate Type Test Certificates/Test Report |

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| Maritime application | | | | | |
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| other | | | | | Railway |
| Confirmation | Miscellaneous | Confirmation | Miscellaneous |  | Confirmation |

Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RV2011-4AA10-0BA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-4AA10-0BA0>

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

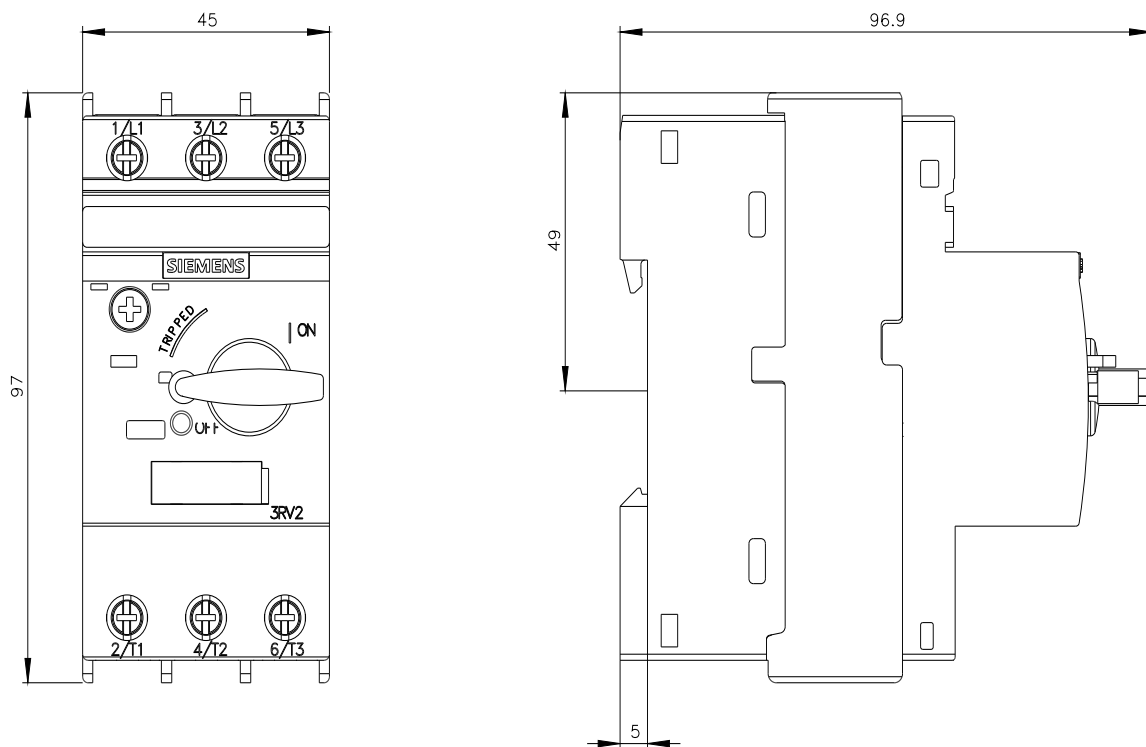
https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-4AA10-0BA0&lang=en

Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-4AA10-0BA0>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP="HAUPT"></mmp_prod_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP=)





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