SIEMENS

Data sheet

3RV2021-1GA10



Circuit breaker size S0 for motor protection, CLASS 10 A-release 4.5...6.3 A N-release 82 A screw terminal Standard switching capacity

| 4/11 4/12 6/13 | |
|---|----------------------|
| 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 | 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 | 7.25 W |
| at AC in hot operating state per pole | 2.4 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 |
| type of protection according to ATEX directive 2014/34/EU | Ex II (2) GD |
| certificate of suitability according to ATEX directive 2014/34/EU | DMT 02 ATEX F 001 |
| reference code according to IEC 81346-2 | Q |
| Substance Prohibitance (Date) | 10/01/2009 |
| 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 |
| adjustable current response value current of the current- dependent overload release | 4.5 6.3 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 | 6.3 A |

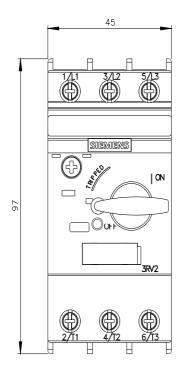
| operational current | |
|---|--|
| at AC-3 at 400 V rated value | 6.3 A |
| at AC-3e at 400 V rated value | 6.3 A |
| operating power | |
| ● at AC-3 | |
| — at 230 V rated value | 1.5 kW |
| — at 400 V rated value | 2.2 kW |
| — at 500 V rated value | 3 kW |
| — at 690 V rated value | 4 kW |
| • at AC-3e | |
| — at 230 V rated value | 1.5 kW |
| — at 400 V rated value | 2.2 kW |
| — at 500 V rated value | 3 kW |
| — at 690 V rated value | 4 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 | |
| • | No |
| ground fault detection | Yes |
| phase failure detection | |
| trip class | CLASS 10 |
| design of the overload release | thermal |
| maximum short-circuit current breaking capacity (Icu) | 400 1 4 |
| • at AC at 240 V rated value | 100 kA |
| • at AC at 400 V rated value | 100 kA |
| at AC at 500 V rated value | 100 kA |
| at AC at 690 V rated value | 6 kA |
| operating short-circuit current breaking capacity (Ics) at AC | |
| at 240 V rated value | 100 kA |
| at 400 V rated value | 100 kA |
| • at 500 V rated value | 100 kA |
| at 690 V rated value | 4 kA |
| response value current of instantaneous short-circuit trip unit | 82 A |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 6.3 A |
| • at 600 V rated value | 6.3 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 0.25 hp |
| — at 230 V rated value | 0.5 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 1 hp |
| — at 220/230 V rated value | 1.5 hp |
| — at 460/480 V rated value | 3 hp |
| — at 575/600 V rated value | 5 hp |
| Short-circuit protection | |
| product function short circuit protection | Yes |
| design of the short-circuit trip | magnetic |
| | |
| Installation/ mounting/ dimensions | |
| | any |
| mounting position | |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| fastening method height | 97 mm |
| fastening method | |

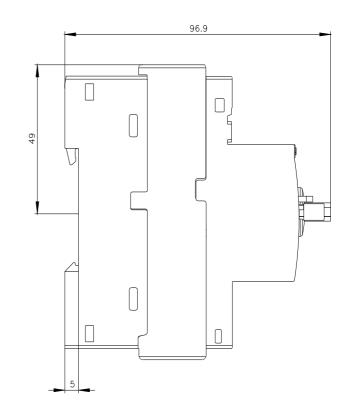
| • regional dipse and 400 Vorm• for grounded perts al 400 V30 mm opwards30 mm- opwards30 | required spacing | |
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| • (or grounded parts at 00 V0 mm- upwards30 mm- u | | 0 mm |
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| - upwards0 mm- upwards9 mm- downwards30 mm- upwards30 mm- upwards30 mm- upwards30 mm- ut be aide9 mm- upwards30 mm- upwards3 | | 20 mm |
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| | for live parts at 500 V | |
| | — downwards | 30 mm |
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| backwards 0 mm | — upwards | 50 mm |
| - at the side 30 mm - forwards 0 mm • for live pats at 690 V 50 mm - upwards 50 mm - upwards 60 mm - upwards 0 mm - browards 30 mm - upwards 0 mm - the side 30 mm - forwards 0 mm - forwards 0 mm - formain current circuit screw-type terminals trapmement of electrical connectors for main current Top and bottom * for main current circuit screw-type terminals • for main current circuit 2x (1 25 mm ²), 2x (25 10 mm ²) • for main contacts 2x (1 25 mm ²), 2x (25 10 mm ²) • for main contacts 2x (1 (1 25 mm ²), 2x (25 0 mm ²), 1x 10 mm ² • for main contacts 2x (1 (1 25 mm ²), 2x (25 0 mm ²), 1x 10 mm ² • for main contacts 2 25 Nm design of screwdriver shaft Diameter 5 to 6 mm of main contacts Ma • for main contacts 500 • for main contacts 50 % • for main contacts 50 % • for main contacts <td>•</td> <td>0 mm</td> | • | 0 mm |
| • for live parts at 680 VImage: state sta | | 30 mm |
| • for live parts at 680 VImage: state sta | — forwards | 0 mm |
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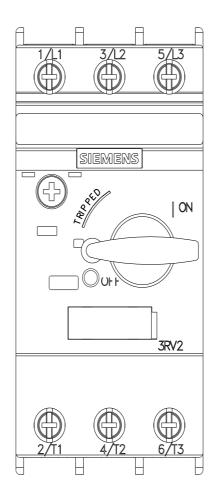
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| | | | | | ous locations | | |
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| <u>Confirmation</u> | CCC CCC | (UL) | KC | EHC | | | |
| For use in hazard- ous locations | Declaration of Conform | ity | Test Certificates | | Marine / Shipping | | |
| IECEx | CE EG-Konf. | UK CA | Special Test Certific- ate | Type Test Certific- ates/Test Report | ABS | | |
| Marine / Shipping | | | | | other | | |
| BUREAU VERITAS | | Lloyd's Register urs | PRS | RINA | <u>Confirmation</u> | | |
| other | Railway | | | | | | |
| UDE VDE | Vibration and Shock | <u>Confirmation</u> | | | | | |
| 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=3RV2021-1GA10 Cax online generator http://support.industry.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2021-1GA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1GA10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) | | | | | | | |
| http://www.automation.s | siemens.com/bilddb/cax_de | .aspx?mlfb=3RV2021- | | , EFLAN MACTOS,) | | | |

Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2021-1GA10/char Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2021-1GA10&objecttype=14&gridview=view1

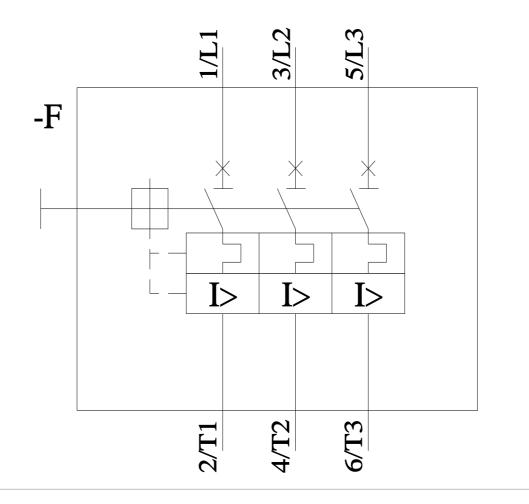






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