SIEMENS

Data sheet 3RV2411-1CA20



Circuit breaker size S00 for transformer protection A-release 1.8...2.5 A N release 52 A Spring-type terminal Standard switching capacity

| product brand name | SIRIUS |
|---|----------------------------|
| product designation | Circuit breaker |
| design of the product | For transformer protection |
| product type designation | 3RV2 |
| General technical data | |
| size of the circuit-breaker | S00 |
| 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 |
| 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 +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 | 1.8 2.5 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 | 2.5 A |
| operational current | |
| • | |
| • at AC-3 at 400 V rated value | 2.5 A |
| • | 2.5 A 2.5 A |

| operating power | |
|---|--|
| • at AC-3 | |
| — at 230 V rated value | 0.4 kW |
| — at 400 V rated value | 0.8 kW |
| — at 500 V rated value | 1.1 kW |
| — at 690 V rated value | 1.5 kW |
| • at AC-3e | |
| — at 230 V rated value | 0.4 kW |
| — at 400 V rated value | 0.8 kW |
| — at 500 V rated value | 1.1 kW |
| — at 690 V rated value | 1.5 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 |
| · | CLASS 10 |
| trip class | thermal |
| design of the overload release maximum short-circuit current breaking capacity (Icu) | ulcilial |
| at AC at 240 V rated value | 100 kA |
| | 100 kA |
| at AC at 500 V rated value | 100 kA |
| at AC at 500 V rated value | 100 kA |
| at AC at 690 V rated value | 10 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 | 10 kA |
| response value current of instantaneous short-circuit trip unit | 52 A |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 2.5 A |
| at 600 V rated value | 2.5 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 230 V rated value | 0.17 hp |
| • for 3-phase AC motor | |
| — at 200/208 V rated value | 0.5 hp |
| — at 220/230 V rated value | 0.5 hp |
| — at 460/480 V rated value | 1 hp |
| — at 575/600 V rated value | 1.5 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 25 A |
| • at 500 V | gL/gG 25 A |
| • at 690 V | gL/gG 20 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 | 106 mm |
| width | 45 mm |
| depth | 97 mm |
| чоры | VI IIIIII |

| tificates/ approvals | | |
|--|--|--|
| splay version for switching status | Handle | |
| ouch protection on the front according to IEC 60529 | finger-safe, for vertical contact from the front | |
| rotection class IP on the front according to IEC 60529 | IP20 | |
| 1508 | | |
| 1 value for proof test interval or service life according to IEC | 10 a | |
| with low demand rate according to SN 31920 | 50 FIT | |
| with high demand rate according to SN 31920 illure rate [FIT] | 50 % | |
| with low demand rate according to SN 31920 with high demand rate according to SN 31920 | 50 % | |
| roportion of dangerous failures | 50 % | |
| with high demand rate according to SN 31920 reportion of dangerous failures. | 5 000 | |
| 10 value | 5.000 | |
| | | |
| ize of the screwdriver tip ety related data | 3,0 x 0,5 mm | |
| esign of screwdriver shaft | Diameter 3 mm | |
| • for AWG cables for main contacts | 2x (20 12) | |
| — finely stranded without core end processing | 2x (0.5 2.5 mm²) | |
| — finely stranded with core end processing | 2x (0.5 2.5 mm²) | |
| — solid or stranded | 2x (0,5 4 mm²) | |
| • for main contacts | 2v (0.5 4 mm²) | |
| rpe of connectable conductor cross-sections | | |
| rcuit | | |
| rrangement of electrical connectors for main current | Top and bottom | |
| for main current circuit | spring-loaded terminals | |
| pe of electrical connection | | |
| nnections/ Terminals | | |
| — forwards | 0 mm | |
| — at the side | 30 mm | |
| — backwards | 0 mm | |
| — upwards | 50 mm | |
| — downwards | 50 mm | |
| • for live parts at 690 V | | |
| — forwards | 0 mm | |
| — at the side | 30 mm | |
| — backwards | 0 mm | |
| — upwards | 50 mm | |
| — downwards | 50 mm | |
| • for grounded parts at 690 V | | |
| — at the side | 9 mm | |
| — upwards | 30 mm | |
| — downwards | 30 mm | |
| • for live parts at 500 V | | |
| — at the side | 9 mm | |
| — upwards | 30 mm | |
| — downwards | 30 mm | |
| for grounded parts at 500 V | | |
| — at the side | 9 mm | |
| — upwards | 30 mm | |
| — downwards | 30 mm | |
| • for live parts at 400 V | | |
| — at the side | 9 mm | |
| — upwards | 30 mm | |
| — downwards | 30 mm | |
| for grounded parts at 400 V | | |
| | | |





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Declaration of Conformity

Test Certificates

Marine / Shipping

<u>KC</u>



Special Test Certificate

Type Test Certificates/Test Report







Marine / Shipping

other

Railway







Confirmation



Confirmation

Railway

Vibration and Shock

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=3RV2411-1CA20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-1CA20

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1CA20

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

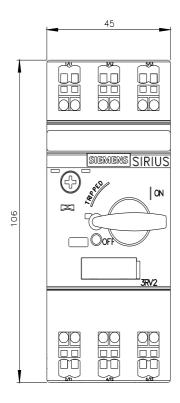
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1CA20&lang=en

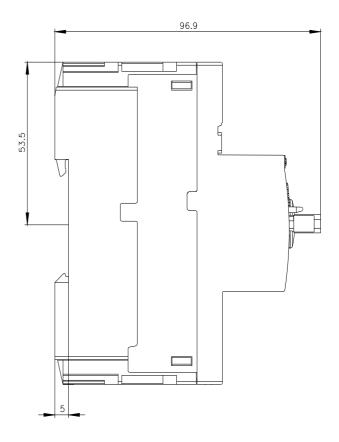
Characteristic: Tripping characteristics, I2t, Let-through current

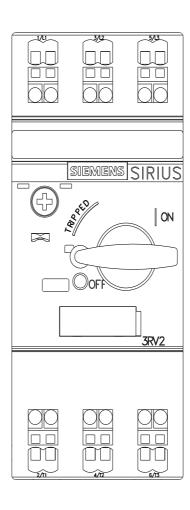
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1CA20/char

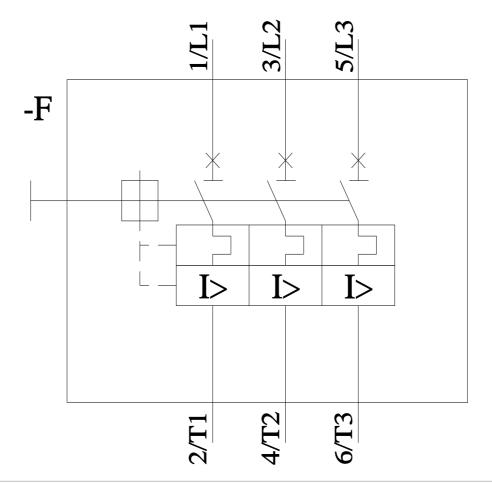
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1CA20&objecttype=14&gridview=view1









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