SIEMENS

Data sheet 3RV2411-1DA10



Circuit breaker size S00 for transformer protection A-release 2.2...3.2 A N release 65 A screw terminal Standard switching capacity

SIRIUS product brand name product designation Circuit breaker design of the product For transformer protection product type designation 3RV2 General technical data S00 size of the circuit-breaker 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 24 W • at AC in hot operating state per pole 690 V insulation voltage with degree of pollution 3 at AC rated 6 kV surge voltage resistance rated value shock resistance according to IEC 60068-2-27 25g / 11 ms mechanical service life (operating cycles) 100 000 • of the main contacts typical · of auxiliary contacts typical 100 000 electrical endurance (operating cycles) typical 100 000 reference code according to IEC 81346-2 C **Substance Prohibitance (Date)** 10/01/2009 **Ambient conditions** installation altitude at height above sea level maximum 2 000 m ambient temperature -20 ... +60 °C • during operation -50 ... +80 °C • during storage · during transport -50 ... +80 °C relative humidity during operation 10 ... 95 % Main circuit number of poles for main current circuit adjustable current response value current of the 2.2 ... 3.2 A current-dependent overload release operating voltage rated value 20 ... 690 V 690 V • at AC-3 rated value maximum 690 V • at AC-3e rated value maximum operating frequency rated value 50 ... 60 Hz operational current rated value 3.2 A operational current • at AC-3 at 400 V rated value 3.2 A at AC-3e at 400 V rated value 3.2 A operating power

| • at AC-3 | |
|---|--|
| — at 230 V rated value | 0.6 kW |
| — at 400 V rated value | 1.1 kW |
| — at 500 V rated value | 1.5 kW |
| — at 690 V rated value | 2.2 kW |
| • at AC-3e | |
| — at 230 V rated value | 0.6 kW |
| — at 400 V rated value | 1.1 kW |
| at 500 V rated value | 1.5 kW |
| — at 690 V rated value | 2.2 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 phase failure detection | No Yes |
| phase failure detection trip class | Yes CLASS 10 |
| trip class | |
| design of the overload release | thermal |
| maximum short-circuit current breaking capacity (Icu) | 400 kA |
| 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 at AC at 600 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 | 65 A |
| unit | |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 3.2 A |
| at 600 V rated value | 3.2 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 0.1 hp |
| — at 230 V rated value | 0.25 hp |
| for 3-phase AC motor | |
| — at 200/208 V rated value | 0.5 hp |
| — at 220/230 V rated value | 0.75 hp |
| — at 460/480 V rated value | 2 hp |
| at 575/600 V rated value | 2 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 32 A |
| ● at 690 V | gL/gG 25 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 |
| width | 45 mm |
| | |

| depth | 97 mm | |
|---|--|---------------------------|
| required spacing | | |
| with side-by-side mounting at the side | 0 mm | |
| for grounded parts at 400 V | | |
| — downwards | 30 mm | |
| — upwards | 30 mm | |
| — at the side | 9 mm | |
| • for live parts at 400 V | 00 | |
| — downwards | 30 mm | |
| — upwards | 30 mm | |
| — at the side | 9 mm | |
| • for grounded parts at 500 V | 20 | |
| — downwards | 30 mm 30 mm | |
| — upwards | | |
| — at the side | 9 mm | |
| for live parts at 500 V — downwards | 30 mm | |
| | 30 mm | |
| — upwards | | |
| — at the side ● for grounded parts at 690 V | 9 mm | |
| for grounded parts at 690 v downwards | 50 mm | |
| | 50 mm | |
| — upwards — backwards | 0 mm | |
| — at the side | 30 mm | |
| — at the side — forwards | 0 mm | |
| for live parts at 690 V | O IIIIII | |
| — downwards | 50 mm | |
| — upwards | 50 mm | |
| — upwards — backwards | 0 mm | |
| — at the side | 30 mm | |
| — forwards | 0 mm | |
| Connections/ Terminals | O HIIII | |
| | | |
| type of electrical connection | a average to use a few marine le | |
| • 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 mm²), 2x 4 mm² | |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) | |
| at AWG cables for main contacts | 2x (18 14), 2x 12 | |
| 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 | |
| Safety related data | | |
| B10 value | | |
| with high demand rate according to SN 31920 | 5 000 | |
| 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 | |
| T1 value for proof test interval or service life according to | 10 a | |
| IEC 61508 | | |
| 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 | |
| Certificates/ approvals | | |
| General Product Approval | | Declaration of Conformity |
| | | , |



Confirmation







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=3RV2411-1DA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-1DA10

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1DA10

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

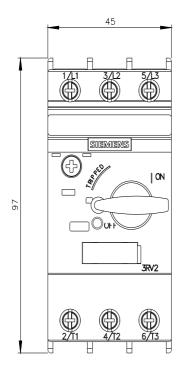
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1DA10&lang=en

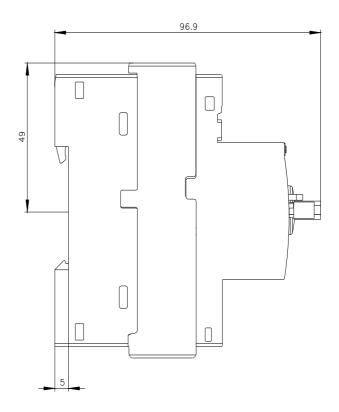
Characteristic: Tripping characteristics, I2t, Let-through current

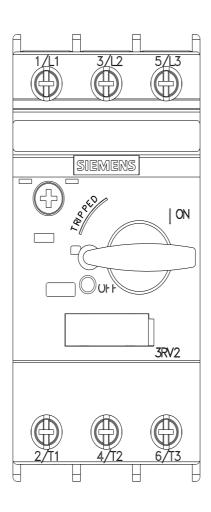
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1DA10/char

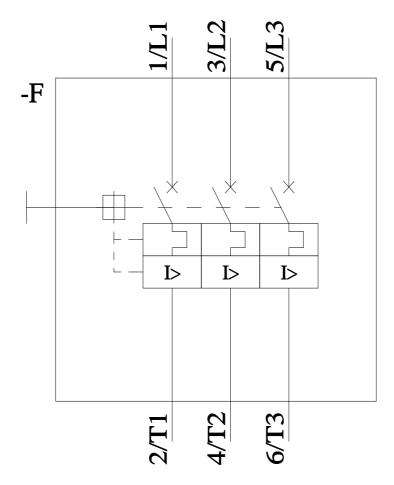
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1DA10&objecttype=14&gridview=view1









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