SIEMENS

Data sheet 3RV2411-1FA20



Circuit breaker size S00 for transformer protection A-release 3.5...5 A N-release 104 A Spring-type 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 0 **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 3.5 ... 5 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 5 A operational current • at AC-3 at 400 V rated value 5 A at AC-3e at 400 V rated value 5 A operating power

| • at AC-3 | |
|--|--|
| — at 230 V rated value | 1.1 kW |
| — at 400 V rated value | 1.5 kW |
| — at 500 V rated value | 2.2 kW |
| — at 690 V rated value | 4 kW |
| • at AC-3e | |
| — at 230 V rated value | 1.1 kW |
| — at 400 V rated value | 1.5 kW |
| — at 500 V rated value | 2.2 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 | |
| ground fault detection | No |
| phase failure detection | Yes |
| trip class | CLASS 10 |
| design of the overload release | thermal |
| maximum short-circuit current breaking capacity (Icu) | |
| 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 (lcs) | |
| 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 | 104 A |
| unit | |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| at 480 V rated value | 5 A |
| at 600 V rated value | 5 A |
| yielded mechanical performance [hp] | |
| for single-phase AC motor | |
| — at 110/120 V rated value | 0.17 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 hp |
| — at 460/480 V rated value | 3 hp |
| — at 575/600 V rated value | 3 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 32 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 | 106 mm |
| width | 45 mm |
| | |

| — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status Certificates/ approvals | 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front Handle | |
|---|---|--|
| — finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 | 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 FIT 10 a IP20 finger-safe, for vertical contact from the front | |
| — finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 | 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 FIT 10 a IP20 | |
| — finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC | 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 FIT 10 a | |
| — finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] • with low demand rate according to SN 31920 T1 value for proof test interval or service life according to | 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % 50 FIT | |
| — finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] | 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 50 % 50 % | |
| — finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 | 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 | |
| — finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures • with low demand rate according to SN 31920 | 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm 5 000 | |
| — finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 proportion of dangerous failures | 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm | |
| — finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value • with high demand rate according to SN 31920 | 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm | |
| — finely stranded without core end processing • at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip Safety related data B10 value | 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm 3,0 x 0,5 mm | |
| finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip | 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm | |
| finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft size of the screwdriver tip | 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm | |
| finely stranded without core end processing at AWG cables for main contacts design of screwdriver shaft | 2x (0.5 2.5 mm²) 2x (20 12) Diameter 3 mm | |
| — finely stranded without core end processing• at AWG cables for main contacts | 2x (0.5 2.5 mm²) 2x (20 12) | |
| | | |
| finely stranded with core end processing | , | |
| | 2x (0.5 2.5 mm²) | |
| — solid or stranded | 2x (0,5 4 mm²) | |
| for main contacts | | |
| type of connectable conductor cross-sections | | |
| arrangement of electrical connectors for main current circuit | Top and bottom | |
| for main current circuit | spring-loaded terminals | |
| type of electrical connection | | |
| Connections/ 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 | V IIIIII | |
| — upwards — at the side | 9 mm | |
| — downwards | 30 mm 30 mm | |
| • for live parts at 500 V | 20 mm | |
| — 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 | | |
| - - | 0 mm | |
| with side-by-side mounting at the side | | |
| depthrequired spacingwith side-by-side mounting at the side | 97 mm | |





FA



Declaration of Conformity

Test Certificates

Marine / Shipping

<u>KC</u>



Special Test Certificate

Type Test Certificates/Test Report







Marine / Shipping

other









Confirmation



Railway

Vibration and Shock Confirmation

Further information

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=3RV2411-1FA20

Cax online generator

 $\underline{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2411-1FA20$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1FA20

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

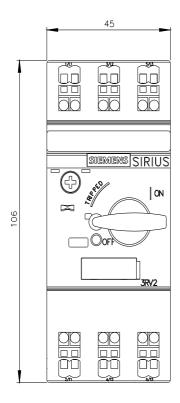
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1FA20&lang=en

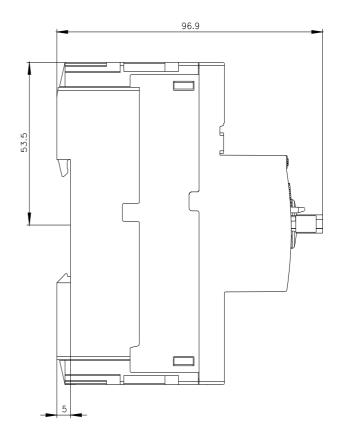
Characteristic: Tripping characteristics, I2t, Let-through current

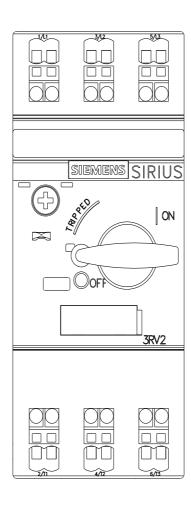
https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1FA20/char

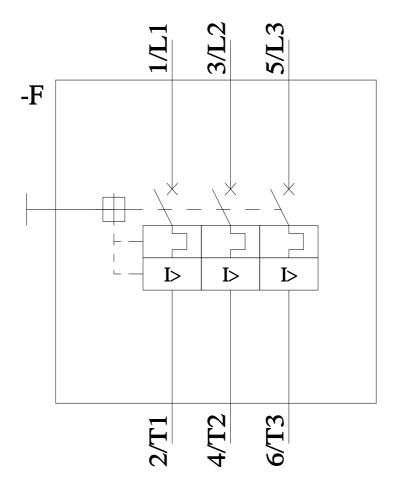
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1FA20&objecttype=14&gridview=view1









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