SIEMENS

Data sheet 3RV2411-1BA10



Circuit breaker size S00 for transformer protection A-release 1.4...2 A N release 42 A screw 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 | |
| SVHC substance name | Lead - 7439-92-1 | |
| Weight | 0.343 kg | |
| 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 % | |
| Environmental footprint | | |
| Global Warming Potential [CO2 eq] total | 74.698 kg | |
| 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 | |
| Siemens Eco Profile (SEP) | Siemens EcoTech | |
| Main circuit | | |

| number of noise for main assured about | 2 |
|---|--|
| number of poles for main current circuit | 3 |
| adjustable current response value current of the current- dependent overload release | 1.4 2 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 A |
| operational current | 27 |
| at AC-3 at 400 V rated value | 2 A |
| at AC-3 at 400 V rated value at AC-3e at 400 V rated value | 2 A |
| | ZA |
| 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 | 0.8 kW |
| — at 690 V rated value | 1.1 kW |
| • at AC-3e | 0.4 120 |
| — at 230 V rated value | 0.4 kW |
| — at 400 V rated value | 0.8 kW |
| — at 500 V rated value | 0.8 kW |
| — at 690 V rated value | 1.1 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 | |
| Protective and monitoring functions product function | |
| | No |
| product function | No Yes |
| product function ■ ground fault detection ■ phase failure detection trip class | |
| product function • ground fault detection • phase failure detection | Yes |
| product function ■ ground fault detection ■ phase failure detection trip class | Yes CLASS 10 |
| product function | Yes CLASS 10 |
| product function | Yes CLASS 10 thermal |
| product function | Yes CLASS 10 thermal |
| product function | Yes CLASS 10 thermal 100 kA 100 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA |
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| product function | Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 10 kA 10 kA 2 A |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 10 kA 10 kA 2 A |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 10 kA 100 kA 100 kA 20 kA 100 kA 100 kA 20 kA 20 kA 20 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 100 kA 100 kA 10 kA 10 kA 2 A |
| product function | Yes CLASS 10 thermal 100 kA 20 kA 100 kA |
| product function | Yes CLASS 10 thermal 100 kA 2 A 2 A 2 A 2 A 0.13 hp |
| product function | Yes CLASS 10 thermal 100 kA 20 kA 100 kA |
| product function | Yes CLASS 10 thermal 100 kA 20 kA 100 kA |
| product function | Yes CLASS 10 thermal 100 kA 20 kA 101 kA 100 kA 10 |
| product function | Yes CLASS 10 thermal 100 kA 20 kA 100 kA |

| nuntantian of the main circuit | |
|---|--|
| protection of the main circuit | -1 (-0.05 A |
| • at 400 V | gL/gG 25 A |
| • at 500 V | gL/gG 25 A |
| • at 690 V | gL/gG 20 A |
| nstallation/ 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 | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| | J HIIII |
| for grounded parts at 500 V | 20 mm |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| for live parts at 500 V | |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| for grounded parts at 690 V | |
| — downwards | 50 mm |
| — upwards | 50 mm |
| — backwards | 0 mm |
| — at the side | 30 mm |
| — forwards | 0 mm |
| • for live parts at 690 V | |
| — downwards | 50 mm |
| — upwards | 50 mm |
| — backwards | 0 mm |
| — at the side | 30 mm |
| | |
| — forwards | 0 mm |
| onnections/ Terminals | |
| type of electrical connection | |
| 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) |
| for 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 |
| · | 1 Oaddity Oldo Z |
| design of the thread of the connection screw | Ma |
| • for main contacts | M3 |
| afety related data | |
| product function suitable for safety function | Yes |
| suitability for use | |
| | |
| safety-related switching on | No |

| service life maximum | 10 a |
|--|--|
| test wear-related service life necessary | Yes |
| proportion of dangerous failures | |
| with low demand rate according to SN 31920 | 40 % |
| with high demand rate according to SN 31920 | 50 % |
| B10 value with high demand rate according to SN 31920 | 5 000 |
| failure rate [FIT] with low demand rate according to SN 31920 | 50 FIT |
| ISO 13849 | |
| device type according to ISO 13849-1 | 3 |
| overdimensioning according to ISO 13849-2 necessary | Yes |
| IEC 61508 | |
| safety device type according to IEC 61508-2 | Type A |
| T1 value | |
| for proof test interval or service life according to IEC 61508 | 10 a |
| 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 |
| Display | |
| display version for switching status | Handle |
| Approvals Certificates | |
| 0 10 1 14 1 | |

General Product Approval



Confirmation







<u>KC</u>

General Product Approval

Test Certificates

Marine / Shipping



Special Test Certificate

Type Test Certificates/Test Report







Marine / Shipping

other







Confirmation

Miscellaneous



Railway

Environment

Special Test Certificate

Confirmation



Siemens EcoTech



Environmental Confirmations

Further informatior

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=3RV2411-1BA10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2411-1BA10

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

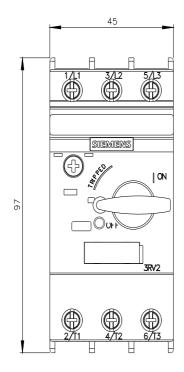
 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RV2411-1BA10}$

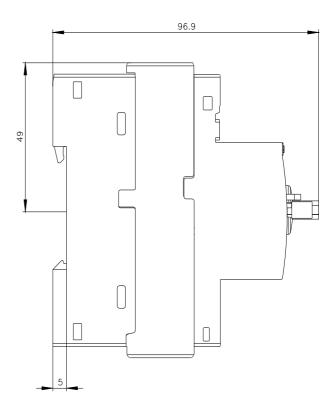
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

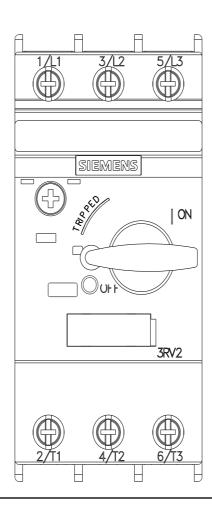
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2411-1BA10&lang=en

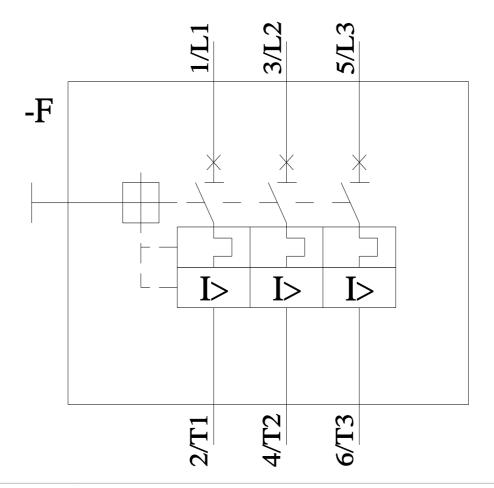
Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2411-1BA10&objecttype=14&gridview=view1









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