SIEMENS

Data sheet 3RV2011-1JA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 7...10 A N release 130 A screw terminal Standard switching capacity with transverse auxiliary switches 1 NO+1 NC

| 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 | 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 | 9.25 W | |
| at AC in hot operating state per pole | 3.1 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 | |
| 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 | 7 10 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 | 10 A | |
| operational current | | |

| • at AC-3 at 400 V rated value | 10 A |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|
| • at AC-3e at 400 V rated value | 10 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 2.2 kW |
| — at 400 V rated value | 4 kW |
| — at 500 V rated value | 5.5 kW |
| — at 690 V rated value | 7.5 kW |
| • at AC-3e | |
| — at 230 V rated value | 2.2 kW |
| — at 400 V rated value | 4 kW |
| — at 500 V rated value | 5.5 kW |
| — at 690 V rated value | 7.5 kW |
| operating frequency | |
| • at AC-3 maximum | 15 1/h |
| at AC-3e maximum | 15 1/h |
| Auxiliary circuit | |
| design of the auxiliary switch | transverse |
| number of NC contacts for auxiliary contacts | 1 |
| number of NO contacts for auxiliary contacts | 1 |
| number of CO contacts for auxiliary contacts | 0 |
| <u> </u> | U C C C C C C C C C C C C C C C C C C C |
| operational current of auxiliary contacts at AC-15 • at 24 V | 2 A |
| • at 24 V • at 120 V | 0.5 A |
| • at 125 V | 0.5 A |
| • at 123 V | 0.5 A |
| | 0.5 A |
| operational current of auxiliary contacts at DC-13 • at 24 V | 1 A |
| | |
| • at 60 V Protective and monitoring functions | 0.15 A |
| Protective and monitoring functions | |
| | |
| product function | |
| product function • ground fault detection | No V |
| product function | Yes |
| product function | Yes CLASS 10 |
| product function | Yes |
| 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 42 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 44 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 42 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 100 kA 100 kA 100 kA 100 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA |
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| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA 100 kA |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 kA 41 kA 130 A |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 100 kA 100 kA 4100 kA 42 kA 4 kA 4 hA 130 A |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 100 kA 100 kA 4100 kA 42 kA 4 kA 4 hA 130 A |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 130 A 10 A 10 A |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 A 100 kA 42 hA 4 hA 130 A 10 A 10 A |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 100 kA 100 kA 100 kA 100 A 10 A 10 A 10 A 10 A 10 A |
| product function | Yes CLASS 10 thermal 100 kA 100 kA 42 kA 6 kA 100 kA 42 kA 44 kA 130 A 10 A 10 A 10 A 10 A 10 A |

| Short-circuit protection | |
|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|
| product function short circuit protection | Yes |
| design of the short-circuit trip | magnetic |
| design of the short-circuit trip | |
| for short-circuit protection of the auxiliary switch required | Fuse gL/gG: 10 A, miniature circuit breaker C 6 A (short-circuit current lk < 400 |
| - 101 Short Grount protection of the auxiliary switch required | A) |
| design of the fuse link for IT network for short-circuit protection of the main circuit | |
| • at 400 V | gL/gG 50 A |
| • at 500 V | gL/gG 40 A |
| • at 690 V | gL/gG 40 A |
| Installation/ mounting/ dimensions | <u> </u> |
| 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 |
| · | 37 111111 |
| required spacingwith side-by-side mounting at the side | 0 mm |
| - | V IIIIII |
| for grounded parts at 400 V— downwards | 30 mm |
| | 30 mm |
| — upwards | |
| — at the side | 9 mm |
| • for live parts at 400 V | 20 |
| — downwards | 30 mm |
| — upwards | 30 mm |
| — at the side | 9 mm |
| • for grounded parts at 500 V | 20 |
| — 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 |
| Connections/ Terminals | |
| type of electrical connection | |
| • for main current circuit | screw-type terminals |
| for auxiliary and control 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 |
| type of connectable conductor cross-sections | , ,, |
| • for auxiliary contacts | |
| — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| 23.2.2.2.3.000 | (|

| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
|-------------------------------------------------------------------------|--------------------------------------------------|
| for AWG cables for auxiliary contacts | 2x (20 16), 2x (18 14) |
| tightening torque | |
| for main contacts with screw-type terminals | 0.8 1.2 N·m |
| for auxiliary 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 |
| of the auxiliary and control 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 IEC 61508 | 10 a |
| 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 | |
| | |

Confirmation

General Product Approval





<u>KC</u>





For use in hazard-

ous locations

For use in hazardous locations

Declaration of Conformity

Test Certificates

Marine / Shipping







Type Test Certificates/Test Report

Special Test Certificate



Marine / Shipping











Confirmation

other

other

Railway



Confirmation

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=3RV2011-1JA15

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV2011-1JA15}$

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA15

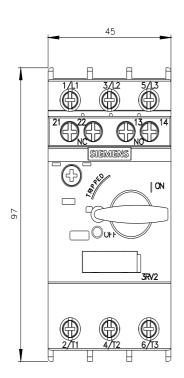
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

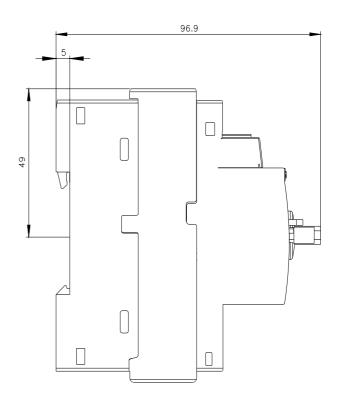
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1JA15&lang=en

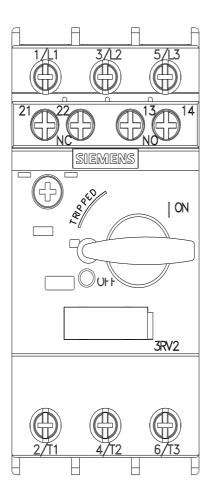
Characteristic: Tripping characteristics, I^2t , Let-through current

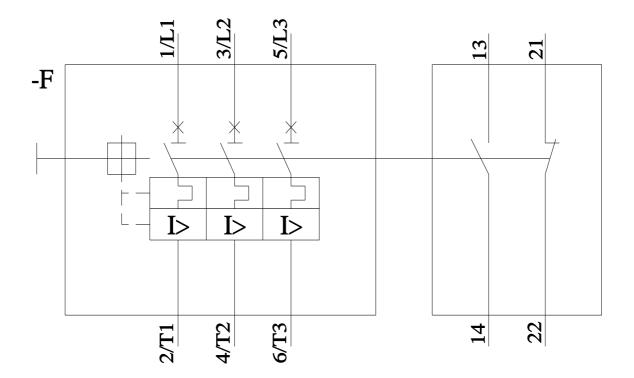
https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1JA15/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-1JA15&objecttype=14&gridview=view1









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