SIEMENS

Data sheet 3RV1011-0CA15



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.18...0.25 A N-release 3.3 A Screw terminal Standard switching capacity with transverse auxiliary switch 1 NO+1 NC

| product brand name | SIRIUS |
|-----------------------------------------------------------------------------------------|----------------------|
| product designation | Circuit breaker |
| design of the product | For motor protection |
| product type designation | 3RV1 |
| General technical data | |
| size of the circuit-breaker | S00 |
| size of contactor can be combined company-specific | S00 |
| product extension auxiliary switch | Yes |
| power loss [W] for rated value of the current | |
| at AC in hot operating state | 5.5 W |
| at AC in hot operating state per pole | 1.8 W |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V |
| surge voltage resistance rated value | 6 kV |
| 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) | 01/01/2013 |
| SVHC substance name | Blei - 7439-92-1 |
| 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 | 0.18 0.25 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 | 0.25 A |
| operational current | |
| • at AC-3 at 400 V rated value | 0.25 A |
| • at AC-3e at 400 V rated value | 0.25 A |

| operating power | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------|
| • at AC-3 | |
| — at 230 V rated value | 0 kW |
| — at 400 V rated value | 0.06 kW |
| — at 500 V rated value | 0.1 kW |
| — at 690 V rated value | 0.1 kW |
| • at AC-3e | |
| — at 230 V rated value | 0 kW |
| — at 400 V rated value | 0.06 kW |
| — at 500 V rated value | 0.1 kW |
| — at 690 V rated value | 0.1 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 |
| • note | 1 |
| number of NO contacts for auxiliary contacts | 1 |
| • note | 1 |
| number of CO contacts for auxiliary contacts | 0 |
| operational current of auxiliary contacts at AC-15 | |
| • at 24 V | 2 A |
| • at 110 V | 2 A |
| • at 120 V | 2 A |
| • at 125 V | 2 A |
| • at 230 V | 0.5 A |
| operational current of auxiliary contacts at DC-13 | 0.5 A |
| • at 24 V | 1 A |
| • at 24 V | 0.15 A |
| | 0.15 A |
| Protective and monitoring functions | |
| product function | All- |
| ground fault detection | No V |
| phase failure detection | Yes |
| trip class | CLASS 10 |
| design of the overload release | thermal |
| maximum short-circuit current breaking capacity (Icu) | 400 1-4 |
| 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 | 100 kA |
| operating short-circuit current breaking capacity (lcs) at AC | 400 hA |
| 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 | 400.14 |
| | 100 kA |
| response value current of instantaneous short-circuit trip unit | 100 kA 3.3 A |
| UL/CSA ratings | |
| UL/CSA ratings full-load current (FLA) for 3-phase AC motor | 3.3 A |
| UL/CSA ratings | 3.3 A 0.25 A |
| UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value | 3.3 A |
| ull-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL | 3.3 A 0.25 A |
| UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value | 3.3 A 0.25 A 0.25 A |
| ull-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL | 3.3 A 0.25 A 0.25 A |
| UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection | 3.3 A 0.25 A 0.25 A C300 / R300 |
| UL/CSA ratings full-load current (FLA) for 3-phase AC motor ● at 480 V rated value ● at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection | 3.3 A 0.25 A 0.25 A C300 / R300 Yes |
| UL/CSA ratings full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip | 3.3 A 0.25 A 0.25 A C300 / R300 Yes |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link | 3.3 A 0.25 A 0.25 A C300 / R300 Yes magnetic |
| full-load current (FLA) for 3-phase AC motor • at 480 V rated value • at 600 V rated value contact rating of auxiliary contacts according to UL Short-circuit protection product function short circuit protection design of the short-circuit trip design of the fuse link • for short-circuit protection of the auxiliary switch required design of the fuse link for IT network for short-circuit | 3.3 A 0.25 A 0.25 A C300 / R300 Yes magnetic |

| ● at 500 V | None required |
|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| • at 690 V | None required |
| nstallation/ mounting/ dimensions | |
| mounting position | any |
| fastening method | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| height | 90 mm |
| width | 45 mm |
| depth | 75 mm |
| required spacing | |
| for grounded parts at 400 V | |
| — downwards | 20 mm |
| — upwards | 20 mm |
| — at the side | 9 mm |
| • for live parts at 400 V | |
| — downwards | 20 mm |
| — upwards | 20 mm |
| — at the side | 9 mm |
| for grounded parts at 500 V | |
| — downwards | 20 mm |
| — upwards | 20 mm |
| — at the side | 9 mm |
| • for live parts at 500 V | |
| — downwards | 20 mm |
| — upwards | 20 mm |
| — at the side | 9 mm |
| for grounded parts at 690 V | |
| — downwards | 20 mm |
| — upwards | 20 mm |
| — backwards | 0 mm |
| — at the side | 9 mm |
| — forwards | 0 mm |
| • for live parts at 690 V | · · · · · · · · · · · · · · · · · · · |
| — downwards | 20 mm |
| — upwards | 20 mm |
| — backwards | 0 mm |
| — at the side | 9 mm |
| — forwards | 0 mm |
| onnections/ Terminals | O Hilli |
| type of electrical connection | |
| for main current circuit | corow typo terminals |
| | screw-type terminals screw-type terminals |
| for auxiliary and control circuit arrangement of electrical connectors for main current | Top and bottom |
| circuit | Top and bottom |
| type of connectable conductor cross-sections | |
| • for main contacts | |
| — solid or stranded | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²) |
| — finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| type of connectable conductor cross-sections | |
| for auxiliary contacts | |
| — solid or stranded | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| 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 |
| 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 |
| afety related data | |
| proportion of dangerous failures | |
| proportion of dangerous families | |
| with low demand rate according to SN 31920 | 50 % |

| failure rate [FIT] with low demand rate according to SN 31920 | 50 FIT |
|---------------------------------------------------------------|--------------------------------------------------|
| B10 value with high demand rate according to SN 31920 | 5 000 |
| 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 | Rocker switch |
| Approvals Certificates | |

Approvals Certificates

General Product Approval

For use in hazardous locations

Confirmation











Declaration of Conformity

Test Certificates

Marine / Shipping





Special Test Certificate

Type Test Certificates/Test Report





Marine / Shipping

LRS









Miscellaneous

other

other

Railway

Confirmation



Special Test Certificate

ate

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=3RV1011-0CA15

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV1011-0CA15

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0CA15

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

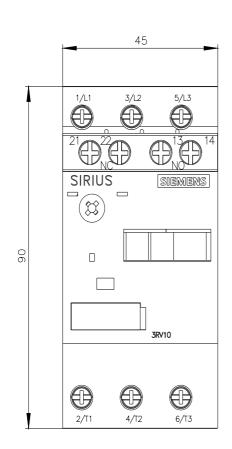
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV1011-0CA15&lang=en

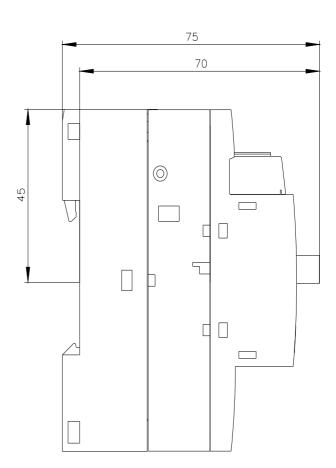
Characteristic: Tripping characteristics, I²t, Let-through current

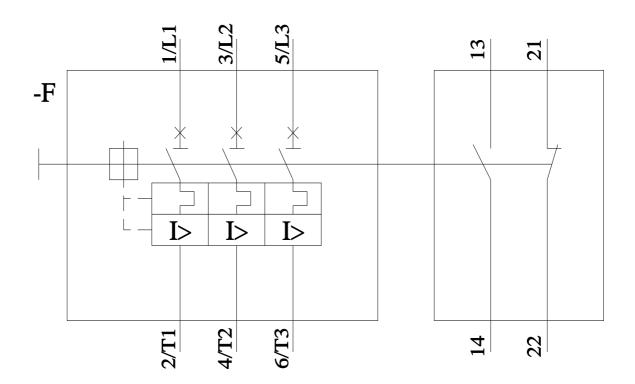
https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0CA15/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0CA15&objecttype=14&gridview=view1







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