

Siemens  
EcoTech



Special type Circuit breaker size S00 for motor protection, CLASS 10 A-release  
10...16 A N-release 208 A Spring-type terminal Standard switching capacity  
Ambient temperature -50 °C 500 switching cycles



|                                                                                     |                      |
|-------------------------------------------------------------------------------------|----------------------|
| product brand name                                                                  | SIRIUS               |
| product designation                                                                 | Circuit breaker      |
| design of the product                                                               | For motor protection |
| product type designation                                                            | 3RV2                 |
| <b>General technical data</b>                                                       |                      |
| 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                                                      | 500                  |
| • of auxiliary contacts typical                                                     | 500                  |
| electrical endurance (operating cycles) typical                                     | 500                  |
| reference code according to IEC 81346-2                                             | Q                    |
| Substance Prohibitance (Date)                                                       | 10/01/2009           |
| SVHC substance name                                                                 | Lead - 7439-92-1     |
| <b>Ambient conditions</b>                                                           |                      |
| installation altitude at height above sea level maximum                             | 2 000 m              |
| ambient temperature                                                                 |                      |
| • during operation                                                                  | -50 ... +60 °C       |
| • during storage                                                                    | -50 ... +80 °C       |
| • during transport                                                                  | -50 ... +80 °C       |
| relative humidity during operation                                                  | 10 ... 95 %          |
| <b>Main circuit</b>                                                                 |                      |
| number of poles for main current circuit                                            | 3                    |
| adjustable current response value current of the current-dependent overload release | 10 ... 16 A          |
| operating voltage                                                                   |                      |
| • rated value                                                                       | 20 ... 690 V         |
| • at AC-3 rated value maximum                                                       | 690 V                |
| operating frequency rated value                                                     | 50 ... 60 Hz         |
| operational current rated value                                                     | 16 A                 |

|                                                                                                |                                                                          |
|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------|
| <b>operational current</b>                                                                     |                                                                          |
| • at AC-3 at 400 V rated value                                                                 | 16 A                                                                     |
| <b>operating power</b>                                                                         |                                                                          |
| • at AC-3                                                                                      |                                                                          |
| — at 230 V rated value                                                                         | 4 kW                                                                     |
| — at 400 V rated value                                                                         | 7.5 kW                                                                   |
| — at 500 V rated value                                                                         | 7.5 kW                                                                   |
| — at 690 V rated value                                                                         | 11 kW                                                                    |
| <b>operating frequency</b>                                                                     |                                                                          |
| • at AC-3 maximum                                                                              | 15 1/h                                                                   |
| <b>Auxiliary circuit</b>                                                                       |                                                                          |
| <b>number of NC contacts for auxiliary contacts</b>                                            | 0                                                                        |
| <b>number of NO contacts for auxiliary contacts</b>                                            | 0                                                                        |
| number of CO contacts for auxiliary contacts                                                   | 0                                                                        |
| <b>Protective and monitoring functions</b>                                                     |                                                                          |
| <b>product function</b>                                                                        |                                                                          |
| • ground fault detection                                                                       | No                                                                       |
| • phase failure detection                                                                      | Yes                                                                      |
| <b>trip class</b>                                                                              | CLASS 10                                                                 |
| <b>design of the overload release</b>                                                          | thermal                                                                  |
| <b>maximum short-circuit current breaking capacity (Icu)</b>                                   |                                                                          |
| • at AC at 240 V rated value                                                                   | 100 kA                                                                   |
| • at AC at 400 V rated value                                                                   | 55 kA                                                                    |
| • at AC at 500 V rated value                                                                   | 10 kA                                                                    |
| • at AC at 690 V rated value                                                                   | 4 kA                                                                     |
| <b>operating short-circuit current breaking capacity (Ics) at AC</b>                           |                                                                          |
| • at 240 V rated value                                                                         | 100 kA                                                                   |
| • at 400 V rated value                                                                         | 30 kA                                                                    |
| • at 500 V rated value                                                                         | 5 kA                                                                     |
| • at 690 V rated value                                                                         | 2 kA                                                                     |
| response value current of instantaneous short-circuit trip unit                                | 208 A                                                                    |
| <b>Short-circuit protection</b>                                                                |                                                                          |
| <b>product function short circuit protection</b>                                               | Yes                                                                      |
| <b>design of the short-circuit trip</b>                                                        | magnetic                                                                 |
| <b>design of the fuse link for IT network for short-circuit protection of the main circuit</b> |                                                                          |
| • at 400 V                                                                                     | gG 63 A                                                                  |
| • at 500 V                                                                                     | gG 50 A                                                                  |
| • at 690 V                                                                                     | gG 40 A                                                                  |
| <b>Installation/ mounting/ dimensions</b>                                                      |                                                                          |
| <b>mounting position</b>                                                                       | any                                                                      |
| <b>fastening method</b>                                                                        | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| <b>height</b>                                                                                  | 106 mm                                                                   |
| <b>width</b>                                                                                   | 45 mm                                                                    |
| <b>depth</b>                                                                                   | 97 mm                                                                    |
| <b>required spacing</b>                                                                        |                                                                          |
| • 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                                                                     |
| • for grounded parts at 500 V                                                                  |                                                                          |
| — 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

|                                                                      |                                                  |
|----------------------------------------------------------------------|--------------------------------------------------|
| <b>type of electrical connection</b>                                 |                                                  |
| • for main current circuit                                           | spring-loaded terminals                          |
| • for auxiliary and control circuit                                  | spring-loaded terminals                          |
| <b>arrangement of electrical connectors for main current circuit</b> | Top and bottom                                   |
| <b>type of connectable conductor cross-sections</b>                  |                                                  |
| • for main contacts                                                  |                                                  |
| — solid or stranded                                                  | 2x (0,5 ... 4 mm²)                               |
| — finely stranded with core end processing                           | 2x (0,5 ... 2,5 mm²)                             |
| — finely stranded without core end processing                        | 2x (0,5 ... 2,5 mm²)                             |
| <b>type of connectable conductor cross-sections</b>                  |                                                  |
| • for auxiliary contacts                                             |                                                  |
| — solid or stranded                                                  | 2x (0,5 ... 2,5 mm²)                             |
| — finely stranded with core end processing                           | 2x (0,5 ... 1,5 mm²)                             |
| — finely stranded without core end processing                        | 2x (0,5 ... 1,5 mm²)                             |
| <b>design of screwdriver shaft</b>                                   | Diameter 3 mm                                    |
| <b>size of the screwdriver tip</b>                                   | 3,0 x 0,5 mm                                     |
| IEC 61508                                                            |                                                  |
| <b>T1 value</b>                                                      |                                                  |
| • for proof test interval or service life according to IEC 61508     | 10 a                                             |
| Electrical Safety                                                    |                                                  |
| <b>protection class IP on the front according to IEC 60529</b>       | IP20                                             |
| <b>touch protection on the front according to IEC 60529</b>          | finger-safe, for vertical contact from the front |
| Display                                                              |                                                  |
| display version for switching status                                 | Handle                                           |
| Approvals Certificates                                               |                                                  |
| General Product Approval                                             |                                                  |
| Test Certificates                                                    |                                                  |



[Confirmation](#)

[KC](#)



[Type Test Certificates/Test Report](#)

## Test Certificates

## Marine / Shipping

[Special Test Certificate](#)



## Marine / Shipping

## other

## Railway



[Miscellaneous](#)

[Confirmation](#)



[Special Test Certificate](#)

[Confirmation](#)

## Environment



Siemens  
EcoTech



[Environmental Confirmations](#)

## 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=3RV2011-4AA20-0BA0>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-4AA20-0BA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-4AA20-0BA0>

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

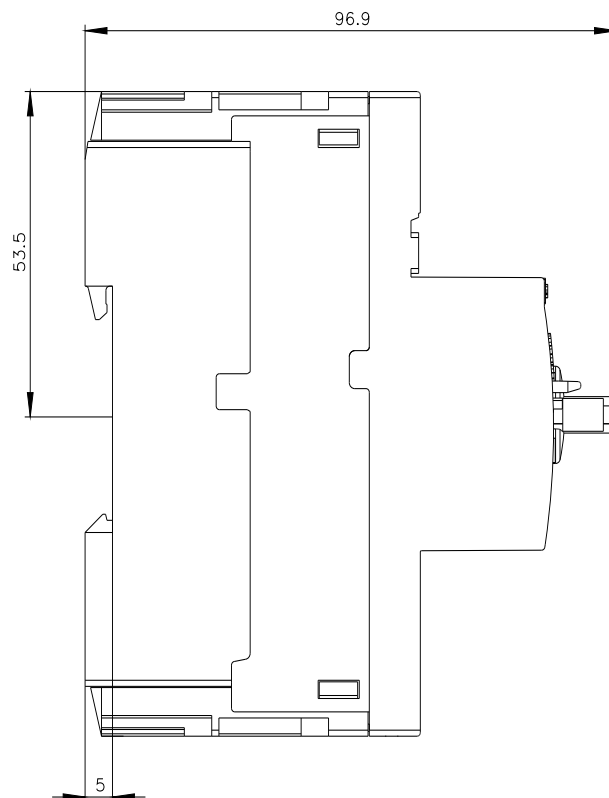
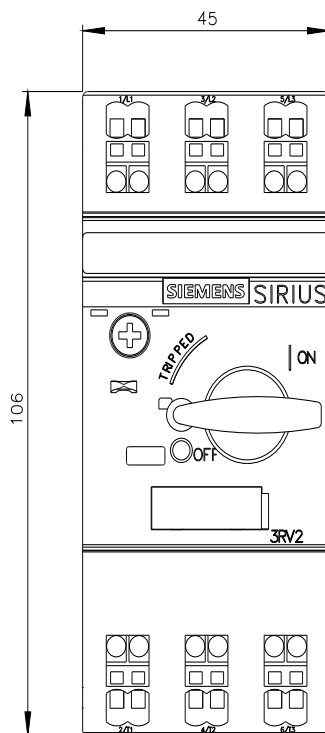
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV2011-4AA20-0BA0&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-4AA20-0BA0&lang=en)

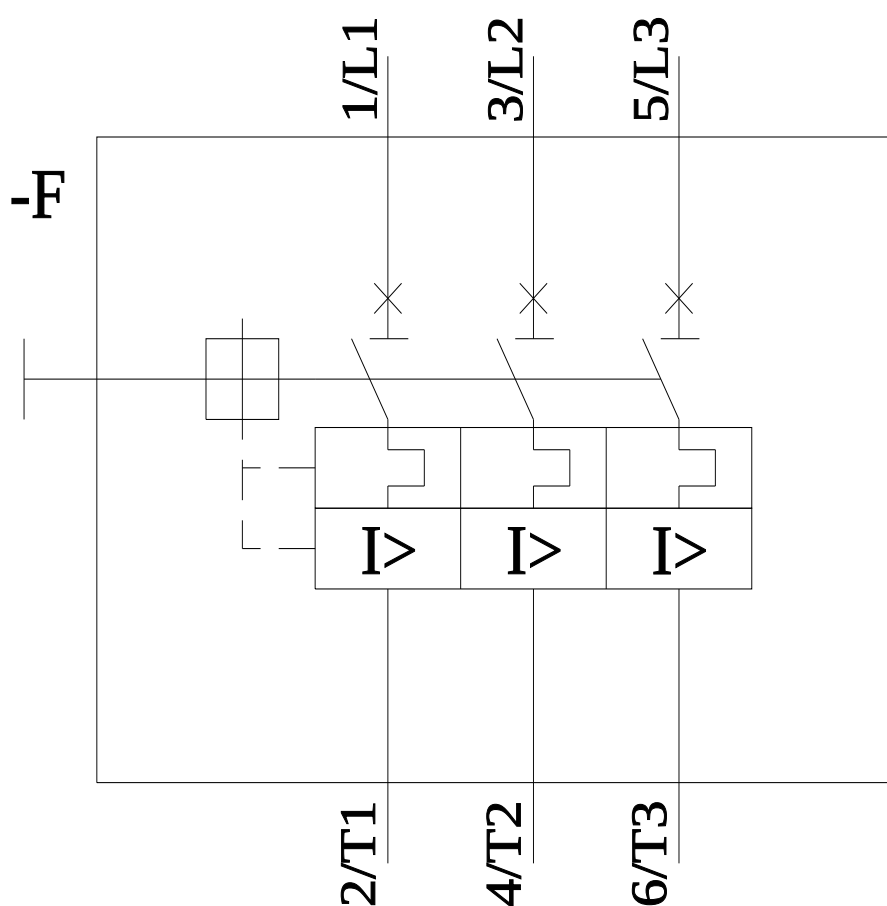
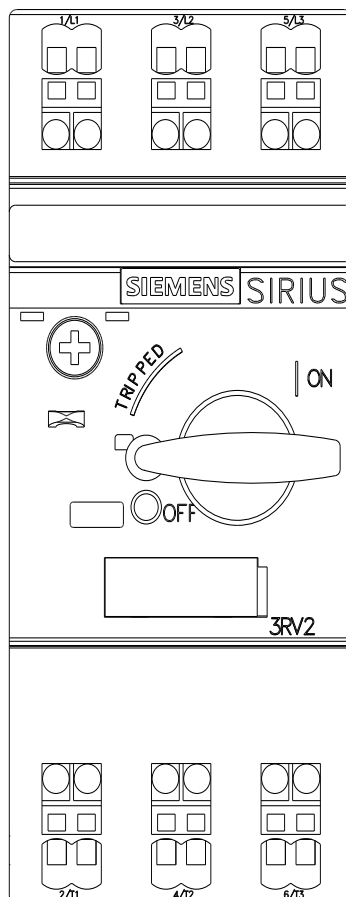
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-4AA20-0BA0/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2011-4AA20-0BA0&objecttype=14&gridview=view1>





last modified:

4/12/2024

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

[Siemens:](#)

[3RV20114AA200BA0](#)