

Siemens  
EcoTech



special type circuit breaker frame size S00 for motor protection, Class 10 thermal release 3.5...5 A short-circuit release 65 A screw terminal standard switching capacity with transverse auxiliary switch 1 NO+1 NC ambient temperature -50 °C 500 operating 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>                                                                  |                      |
| Product equipment of circuit breaker for motor protection complete unit with protection device | Yes                  |
| size of the circuit-breaker                                                                    | S00                  |
| size of contactor can be combined company-specific                                             | S00, S0              |
| product function disconnecter functionality                                                    | Yes                  |
| 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                |
| type of calculation of power loss current-dependent                                            | quadratic            |
| insulation voltage with degree of pollution 3 at AC rated value                                | 690 V                |
| surge voltage resistance rated value                                                           | 6 kV                 |
| maximum permissible voltage for protective separation                                          |                      |
| • in networks with ungrounded star point between main and auxiliary circuit                    | 400 V                |
| • in networks with grounded star point between main and auxiliary circuit                      | 400 V                |
| protection class IP                                                                            |                      |
| • on the front according to IEC 60529                                                          | IP20                 |
| • on the front                                                                                 | IP20                 |
| • of the terminal                                                                              | IP20                 |
| 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                    |
| continuous current rated value                                                                 | 5 A                  |
| Substance Prohibitance (day/month/year)                                                        | 10/01/2009           |
| Net Weight                                                                                     | 0.37 kg              |
| <b>Ambient conditions</b>                                                                      |                      |
| installation altitude at height above sea level maximum                                        | 2 000 m              |

|                                                                                            |                |
|--------------------------------------------------------------------------------------------|----------------|
| <b>ambient temperature</b>                                                                 |                |
| • during operation                                                                         | -50 ... +60 °C |
| • during storage                                                                           | -50 ... +80 °C |
| • during transport                                                                         | -50 ... +80 °C |
| <b>temperature compensation</b>                                                            | -20 ... +60 °C |
| relative humidity during operation                                                         | 10 ... 95 %    |
| <b>Main circuit</b>                                                                        |                |
| <b>number of poles for main current circuit</b>                                            | 3              |
| <b>adjustable current response value current of the current-dependent overload release</b> | 3.5 ... 5 A    |
| <b>type of voltage for main current circuit</b>                                            | AC             |
| <b>operating voltage</b>                                                                   |                |
| • rated value                                                                              | 690 V          |
| • rated value                                                                              | 20 ... 690 V   |
| • at AC-3 rated value maximum                                                              | 690 V          |
| <b>operating frequency rated value</b>                                                     | 50 ... 60 Hz   |
| <b>operational current rated value</b>                                                     | 5 A            |
| <b>operational current</b>                                                                 |                |
| • at AC-3 at 400 V rated value                                                             | 5 A            |
| <b>operating power</b>                                                                     |                |
| • 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           |
| <b>operating frequency</b>                                                                 |                |
| • at AC-3 maximum                                                                          | 15 1/h         |
| <b>Auxiliary circuit</b>                                                                   |                |
| <b>design of the auxiliary switch</b>                                                      | transverse     |
| <b>type of voltage for auxiliary and control circuit</b>                                   | AC/DC          |
| <b>number of NC contacts for auxiliary contacts</b>                                        | 1              |
| <b>number of NO contacts for auxiliary contacts</b>                                        | 1              |
| number of CO contacts for auxiliary contacts                                               | 0              |
| <b>operational current of auxiliary contacts at AC-15</b>                                  |                |
| • at 24 V                                                                                  | 2 A            |
| • at 120 V                                                                                 | 0.5 A          |
| • at 125 V                                                                                 | 0.5 A          |
| • at 230 V                                                                                 | 0.5 A          |
| <b>operational current of auxiliary contacts at DC-13</b>                                  |                |
| • at 24 V                                                                                  | 1 A            |
| • at 60 V                                                                                  | 0.15 A         |
| <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>protection function thermal overload protection (ANSI 49)</b>                           | Yes            |
| <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                                                               | 100 kA         |
| • at AC at 500 V rated value                                                               | 100 kA         |
| • at AC at 690 V rated value                                                               | 6 kA           |
| <b>operating short-circuit current breaking capacity (Ics) at AC</b>                       |                |
| • 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 unit                            | 65 A           |

| Short-circuit protection                                                                                                                 |                                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| product function short circuit protection                                                                                                | Yes                                                                                           |
| design of the short-circuit trip                                                                                                         | magnetic                                                                                      |
| design of the fuse link                                                                                                                  | fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current I <sub>k</sub> < 400 A) |
| • for short-circuit protection of the auxiliary switch required                                                                          |                                                                                               |
| design of the fuse link for IT network for short-circuit protection of the main circuit                                                  |                                                                                               |
| • at 400 V                                                                                                                               |                                                                                               |
| • at 500 V                                                                                                                               | gG 32 A                                                                                       |
| • at 690 V                                                                                                                               | gG 32 A                                                                                       |
|                                                                                                                                          | 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                      |
| Mounting method of circuit breaker for Transformer protection, Generator protection and system protection optional standard bar mounting | Yes                                                                                           |
| height                                                                                                                                   | 97 mm                                                                                         |
| width                                                                                                                                    | 45 mm                                                                                         |
| depth                                                                                                                                    | 97 mm                                                                                         |
| required spacing                                                                                                                         |                                                                                               |
| • with side-by-side mounting                                                                                                             |                                                                                               |
| — forwards                                                                                                                               | 0 mm                                                                                          |
| — backwards                                                                                                                              | 0 mm                                                                                          |
| — upwards                                                                                                                                | 50 mm                                                                                         |
| — downwards                                                                                                                              | 50 mm                                                                                         |
| — at the side                                                                                                                            | 0 mm                                                                                          |
| • for grounded parts                                                                                                                     |                                                                                               |
| — forwards                                                                                                                               | 0 mm                                                                                          |
| — backwards                                                                                                                              | 0 mm                                                                                          |
| — upwards                                                                                                                                | 50 mm                                                                                         |
| — at the side                                                                                                                            | 30 mm                                                                                         |
| — downwards                                                                                                                              | 50 mm                                                                                         |
| • for live parts                                                                                                                         |                                                                                               |
| — forwards                                                                                                                               | 0 mm                                                                                          |
| — backwards                                                                                                                              | 0 mm                                                                                          |
| — upwards                                                                                                                                | 50 mm                                                                                         |
| — downwards                                                                                                                              | 50 mm                                                                                         |
| — at the side                                                                                                                            | 30 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                                                                                          |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <ul style="list-style-type: none"> <li>• for live parts at 690 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— backwards</li> <li>— at the side</li> <li>— forwards</li> </ul> </li> </ul>                                                                                                                                                                                                                                                             | 50 mm<br>50 mm<br>0 mm<br>30 mm<br>0 mm                                                    |
| <b>Connections/ Terminals</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                            |
| <b>product component removable terminal for auxiliary and control circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                             | No                                                                                         |
| <b>type of electrical connection</b> <ul style="list-style-type: none"> <li>• for main current circuit</li> <li>• for auxiliary and control circuit</li> </ul>                                                                                                                                                                                                                                                                                                                            | screw-type terminals<br>screw-type terminals                                               |
| <b>arrangement of electrical connectors for main current circuit</b>                                                                                                                                                                                                                                                                                                                                                                                                                      | Top and bottom                                                                             |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> </ul>                                                                                                                                                                                                                                      | 2x (0,75 ... 2,5 mm²), 2x 4 mm²<br>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)             |
| <b>connectable conductor cross-section for main contacts</b> <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>                                                                                                                                                                                                                                                                                                    | 0.75 ... 4 mm²<br>0.5 ... 2.5 mm²                                                          |
| <b>connectable conductor cross-section for auxiliary contacts</b> <ul style="list-style-type: none"> <li>• solid or stranded</li> <li>• finely stranded with core end processing</li> </ul>                                                                                                                                                                                                                                                                                               | 0.5 ... 2.5 mm²<br>0.5 ... 2.5 mm²                                                         |
| <b>type of connectable conductor cross-sections</b> <ul style="list-style-type: none"> <li>• for auxiliary contacts <ul style="list-style-type: none"> <li>— solid or stranded</li> <li>— finely stranded with core end processing</li> </ul> </li> </ul>                                                                                                                                                                                                                                 | 2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²)<br>2x (0.5 ... 1.5 mm²), 2x (0.75 ... 2.5 mm²) |
| <b>tightening torque</b> <ul style="list-style-type: none"> <li>• for main contacts with screw-type terminals</li> <li>• for auxiliary contacts with screw-type terminals</li> </ul>                                                                                                                                                                                                                                                                                                      | 0.8 ... 1.2 N·m<br>0.8 ... 1.2 N·m                                                         |
| <b>design of screwdriver shaft</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Diameter 5 to 6 mm                                                                         |
| <b>size of the screwdriver tip</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Pozidriv size 2                                                                            |
| <b>design of the thread of the connection screw</b> <ul style="list-style-type: none"> <li>• for main contacts</li> <li>• of the auxiliary and control contacts</li> </ul>                                                                                                                                                                                                                                                                                                                | M3<br>M3                                                                                   |
| <b>IEC 61508</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                            |
| <b>T1 value</b> <ul style="list-style-type: none"> <li>• for proof test interval or service life according to IEC 61508</li> </ul>                                                                                                                                                                                                                                                                                                                                                        | 10 a                                                                                       |
| <b>Electrical Safety</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                            |
| <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                                           |
| <b>Display</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                            |
| display version for switching status                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Handle                                                                                     |
| <b>Approvals Certificates</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                            |
| <b>Environmental Product Declaration</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                            |
| <ul style="list-style-type: none"> <li>• global warming potential [CO2 eq] / during manufacturing</li> <li>• global warming potential [CO2 eq] / during sales</li> <li>• global warming potential [CO2 eq] / during operation</li> <li>• global warming potential [CO2 eq] / after end of life</li> <li>• global warming potential [CO2 eq] / total</li> </ul>                                                                                                                            | 1.98 kg<br>0.134 kg<br>72.7 kg<br>-0.116 kg<br>74.698 kg                                   |
| <b>Environment</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | <b>General Product Approval</b>                                                            |
| <a href="#">Environmental Con-<br/>firmations</a>      |                                                                                            |
| <b>General Product Approval</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                           | <b>Test Certificates</b>                                                                   |



EG-Konf.



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

#### Maritime application



#### other

[Miscellaneous](#)

[Confirmation](#)

[Miscellaneous](#)



#### Railway

[Confirmation](#)

[Special Test Certificate](#)

#### Further information

Information on the packaging

<https://support.industry.siemens.com/cs/ww/en/view/109813875>

Information for data generation and storage

<https://support.industry.siemens.com/cs/ww/en/view/109995012>

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=3RV2011-1FA15-0BA0>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2011-1FA15-0BA0>

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

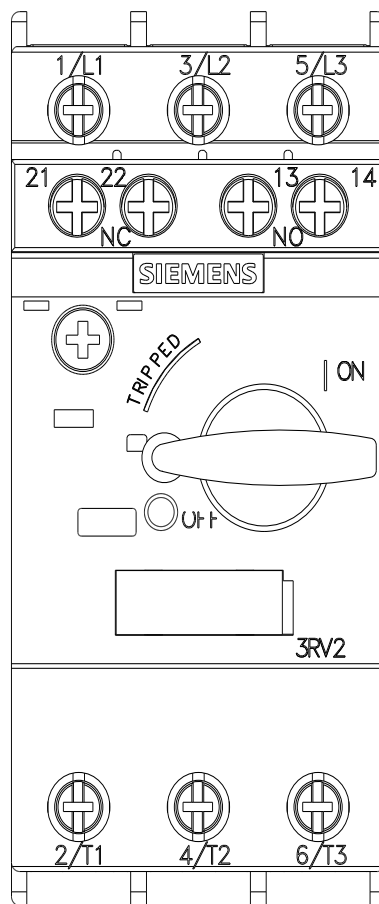
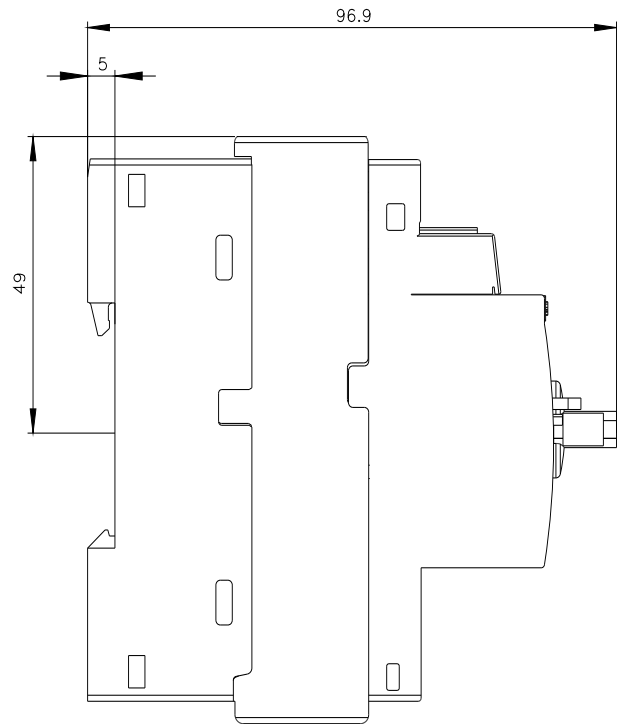
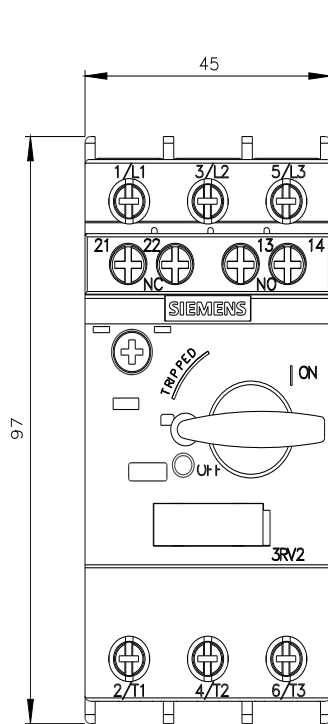
[https://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV2011-1FA15-0BA0&lang=en](https://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2011-1FA15-0BA0&lang=en)

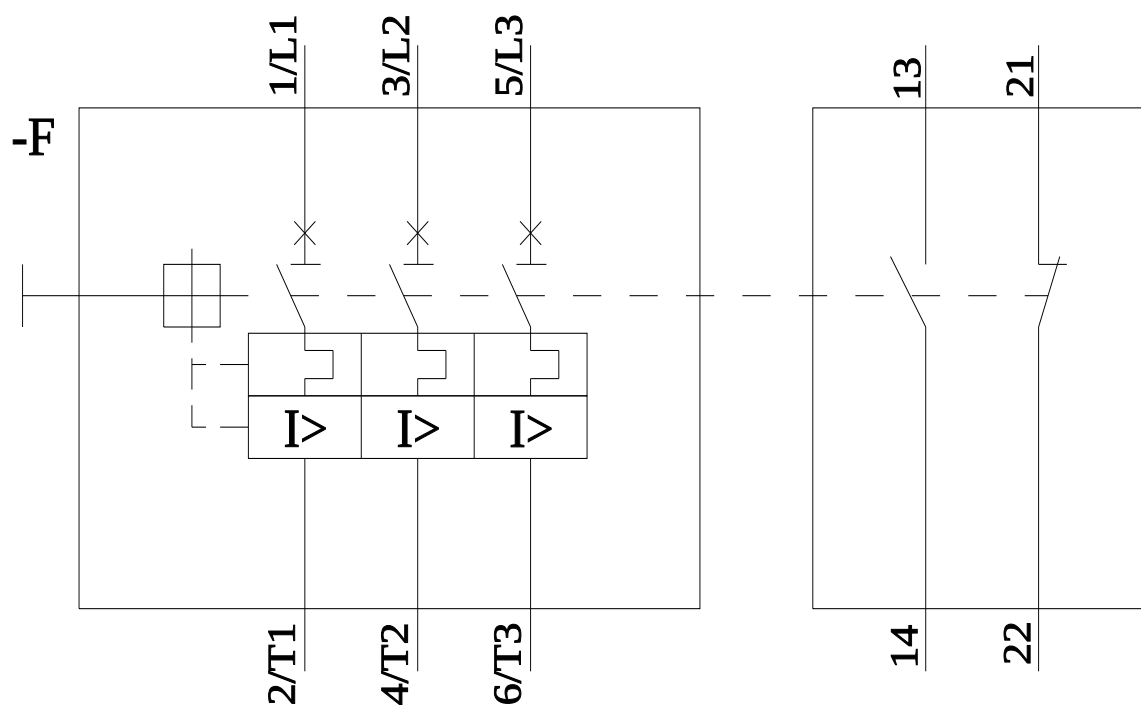
Cax online generator

<https://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2011-1FA15-0BA0>

Characteristic curves

[https://curves.simaris.siemens.com/curves/<mmp\\_prod\\_noCOMP='HAUPT'></mmp\\_prod\\_no>](https://curves.simaris.siemens.com/curves/<mmp_prod_noCOMP='HAUPT'></mmp_prod_no>)





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