



Circuit breaker size S00 for starter combination Rated current 0.25 A N-release 3.3 A screw terminal Standard switching capacity

|                                                                                            |                          |
|--------------------------------------------------------------------------------------------|--------------------------|
| <b>product brand name</b>                                                                  | SIRIUS                   |
| <b>product designation</b>                                                                 | Circuit breaker          |
| <b>design of the product</b>                                                               | For starter combinations |
| <b>product type designation</b>                                                            | 3RV2                     |
| <b>General technical data</b>                                                              |                          |
| <b>size of the circuit-breaker</b>                                                         | S00                      |
| <b>size of contactor can be combined company-specific</b>                                  | S00, S0                  |
| product extension auxiliary switch                                                         | Yes                      |
| <b>power loss [W] for rated value of the current</b>                                       |                          |
| • 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                    |
| <b>surge voltage resistance rated value</b>                                                | 6 kV                     |
| <b>maximum permissible voltage for safe isolation in networks with grounded star point</b> |                          |
| • between main and auxiliary circuit                                                       | 400 V                    |
| • between main and auxiliary circuit                                                       | 400 V                    |
| shock resistance acc. to IEC 60068-2-27                                                    | 25g / 11 ms              |
| <b>mechanical service life (switching cycles)</b>                                          |                          |
| • of the main contacts typical                                                             | 100 000                  |
| • of auxiliary contacts typical                                                            | 100 000                  |
| electrical endurance (switching cycles) typical                                            | 100 000                  |
| <b>reference code acc. to IEC 81346-2</b>                                                  | Q                        |
| Substance Prohibition (Date)                                                               | 01.10.2009 00:00:00      |
| <b>Ambient conditions</b>                                                                  |                          |
| installation altitude at height above sea level maximum                                    | 2 000 m                  |
| • ambient temperature during operation                                                     | -20 ... +60 °C           |
| • ambient temperature during storage                                                       | -50 ... +80 °C           |
| • ambient temperature during transport                                                     | -50 ... +80 °C           |
| relative humidity during operation                                                         | 10 ... 95 %              |
| <b>Main circuit</b>                                                                        |                          |
| <b>number of poles for main current circuit</b>                                            | 3                        |
| • operating voltage rated value                                                            | 690 V                    |
| • operating voltage at AC-3 rated value maximum                                            | 690 V                    |
| <b>operating frequency rated value</b>                                                     | 50 ... 60 Hz             |
| <b>operational current rated value</b>                                                     | 0.25 A                   |

|                                                                 |                                                                                        |
|-----------------------------------------------------------------|----------------------------------------------------------------------------------------|
| operational current at AC-3 at 400 V rated value                | 0.25 A                                                                                 |
| operating power at AC-3                                         |                                                                                        |
| • at 230 V rated value                                          | 40 W                                                                                   |
| • at 400 V rated value                                          | 60 W                                                                                   |
| • at 500 V rated value                                          | 90 W                                                                                   |
| • at 690 V rated value                                          | 120 W                                                                                  |
| operating frequency at AC-3 maximum                             | 15 1/h                                                                                 |
| <b>Auxiliary circuit</b>                                        |                                                                                        |
| number of NC contacts for auxiliary contacts                    | 0                                                                                      |
| number of NO contacts for auxiliary contacts                    | 0                                                                                      |
| number of CO contacts for auxiliary contacts                    | 0                                                                                      |
| <b>Protective and monitoring functions</b>                      |                                                                                        |
| product function                                                |                                                                                        |
| • ground fault detection                                        | No                                                                                     |
| • phase failure detection                                       | No                                                                                     |
| breaking capacity operating short-circuit current (Ics) at AC   |                                                                                        |
| • 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                                          | 100 kA                                                                                 |
| breaking capacity maximum short-circuit current (Icu)           |                                                                                        |
| • 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                                                                                 |
| response value current of instantaneous short-circuit trip unit | 3.3 A                                                                                  |
| <b>UL/CSA ratings</b>                                           |                                                                                        |
| full-load current (FLA) for 3-phase AC motor                    |                                                                                        |
| • at 480 V rated value                                          | 0.25 A                                                                                 |
| • at 600 V rated value                                          | 0.25 A                                                                                 |
| <b>Short-circuit protection</b>                                 |                                                                                        |
| product function short circuit protection                       | Yes                                                                                    |
| design of the short-circuit trip                                | magnetic                                                                               |
| <b>Installation/ mounting/ dimensions</b>                       |                                                                                        |
| mounting position                                               | any                                                                                    |
| fastening method                                                | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 |
| height                                                          | 97 mm                                                                                  |
| width                                                           | 45 mm                                                                                  |
| depth                                                           | 97 mm                                                                                  |
| required spacing                                                |                                                                                        |
| • 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

|                                                                       |                                                                       |
|-----------------------------------------------------------------------|-----------------------------------------------------------------------|
| product function removable terminal for auxiliary and control circuit | No                                                                    |
| <b>type of electrical connection</b>                                  |                                                                       |
| • for main current circuit                                            | screw-type 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 (0,75 ... 2,5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup>              |
| — finely stranded with core end processing                            | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| • at 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                                                       |
| <b>design of screwdriver shaft</b>                                    | Diameter 5 to 6 mm                                                    |
| <b>size of the screwdriver tip</b>                                    | Pozidriv 2                                                            |
| <b>design of the thread of the connection screw</b>                   |                                                                       |
| • for main contacts                                                   | M3                                                                    |

#### Safety related data

|                                                                           |                                                  |
|---------------------------------------------------------------------------|--------------------------------------------------|
| <b>B10 value</b>                                                          |                                                  |
| • with high demand rate acc. to SN 31920                                  | 5 000                                            |
| <b>proportion of dangerous failures</b>                                   |                                                  |
| • with low demand rate acc. to SN 31920                                   | 50 %                                             |
| • with high demand rate acc. to SN 31920                                  | 50 %                                             |
| <b>failure rate [FIT]</b>                                                 |                                                  |
| • with low demand rate acc. to SN 31920                                   | 50 FIT                                           |
| <b>T1 value for proof test interval or service life acc. to IEC 61508</b> | 10 y                                             |
| <b>protection class IP on the front acc. to IEC 60529</b>                 | IP20                                             |
| <b>touch protection on the front acc. to IEC 60529</b>                    | finger-safe, for vertical contact from the front |
| display version for switching status                                      | Handle                                           |

#### Certificates/ approvals

|                          |                           |
|--------------------------|---------------------------|
| General Product Approval | Declaration of Conformity |
|--------------------------|---------------------------|



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|                           |                   |                   |
|---------------------------|-------------------|-------------------|
| Declaration of Conformity | Test Certificates | Marine / Shipping |
|---------------------------|-------------------|-------------------|



[Type Test  
Certificates/Test  
Report](#)

[Special Test  
Certificate](#)



#### Marine / Shipping

other



[Confirmation](#)



#### Railway

[Vibration and Shock](#)

[Confirmation](#)

#### Further information

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=3RV2311-0CC10>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2311-0CC10>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-0CC10>

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

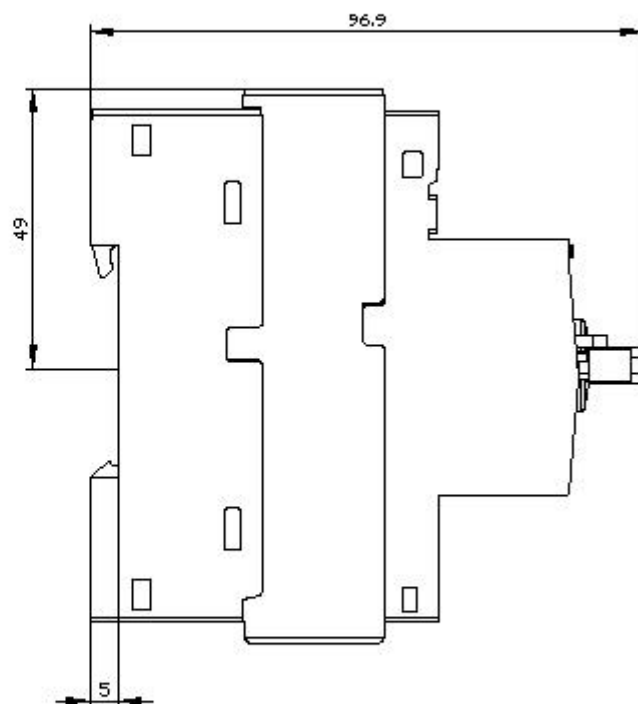
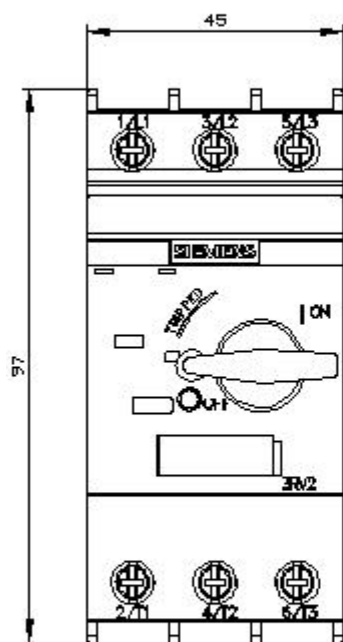
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV2311-0CC10&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2311-0CC10&lang=en)

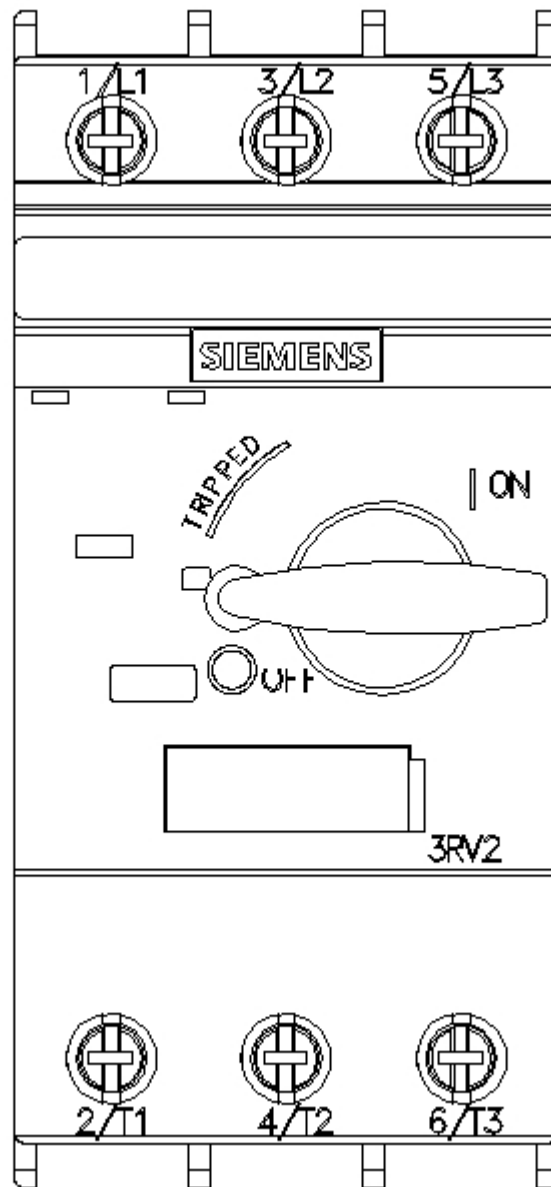
Characteristic: Tripping characteristics, I<sub>t</sub>, Let-through current

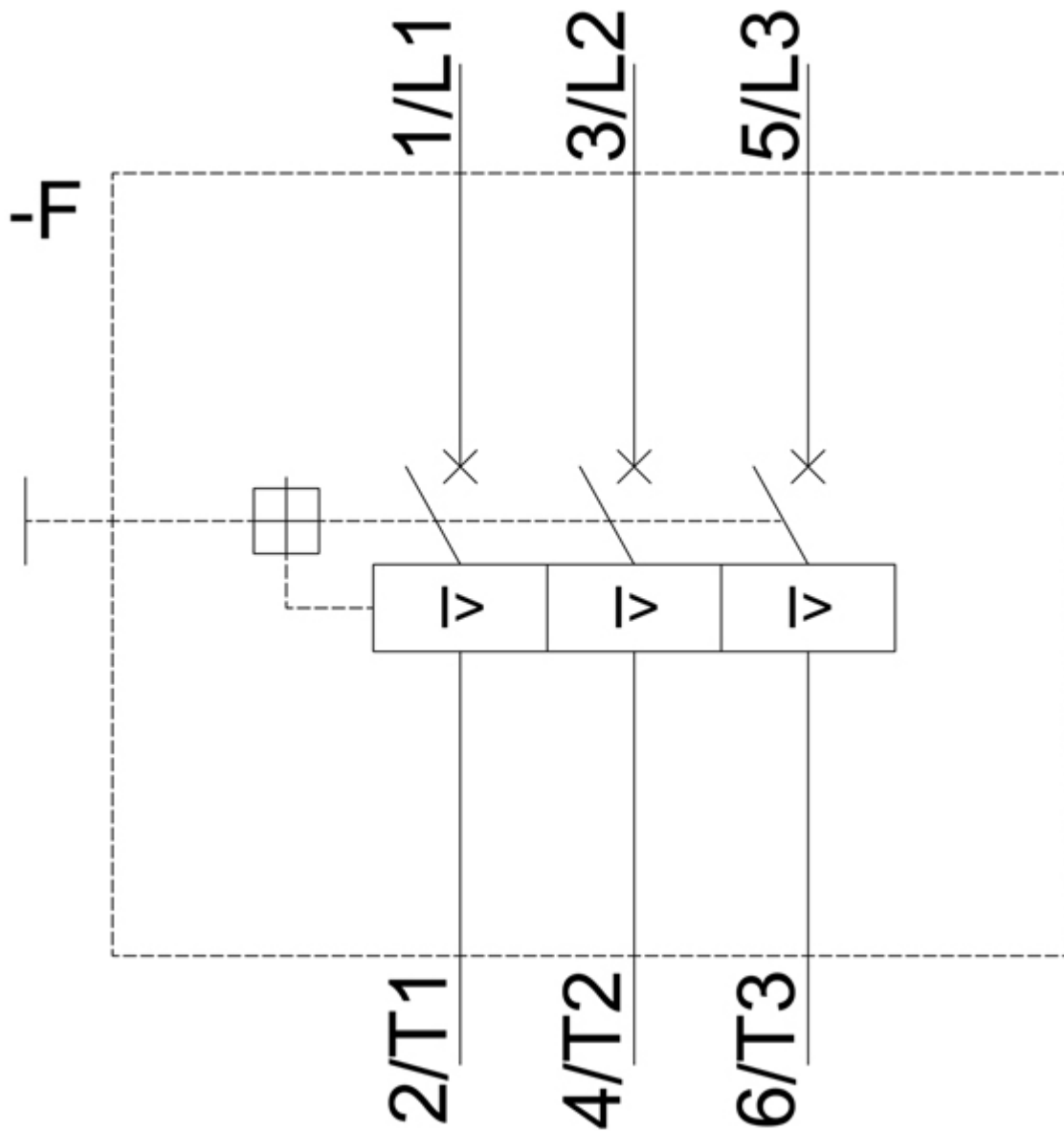
<https://support.industry.siemens.com/cs/ww/en/ps/3RV2311-0CC10/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2311-0CC10&objecttype=14&gridview=view1>







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