



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.55...0.8 A N-release 10 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                 |
| <b>General technical data</b>                                                       |                      |
| 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 Prohibition (Date)                                                        | 01/01/2013           |
| SVHC substance name                                                                 | Lead - 7439-92-1     |
| Weight                                                                              | 0.249 kg             |
| <b>Ambient conditions</b>                                                           |                      |
| 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 %          |
| <b>Main circuit</b>                                                                 |                      |
| number of poles for main current circuit                                            | 3                    |
| adjustable current response value current of the current-dependent overload release | 0.55 ... 0.8 A       |
| type of voltage for main current circuit                                            | AC                   |
| 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                                                     | 0.8 A                |
| operational current                                                                 |                      |

|                                 |         |
|---------------------------------|---------|
| • at AC-3 at 400 V rated value  | 0.8 A   |
| • at AC-3e at 400 V rated value | 0.8 A   |
| <b>operating power</b>          |         |
| • at AC-3                       |         |
| — at 230 V rated value          | 0.12 kW |
| — at 400 V rated value          | 0.18 kW |
| — at 500 V rated value          | 0.25 kW |
| — at 690 V rated value          | 0.37 kW |
| • at AC-3e                      |         |
| — at 230 V rated value          | 0.12 kW |
| — at 400 V rated value          | 0.18 kW |
| — at 500 V rated value          | 0.25 kW |
| — at 690 V rated value          | 0.37 kW |
| <b>operating frequency</b>      |         |
| • at AC-3 maximum               | 15 1/h  |
| • at AC-3e maximum              | 15 1/h  |

#### Auxiliary circuit

|                                                           |            |
|-----------------------------------------------------------|------------|
| <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 110 V                                                | 2 A        |
| • at 120 V                                                | 2 A        |
| • at 125 V                                                | 2 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     |

#### Protective and monitoring functions

|                                                                      |          |
|----------------------------------------------------------------------|----------|
| <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                                         | 100 kA   |
| • at AC at 500 V rated value                                         | 100 kA   |
| • at AC at 690 V rated value                                         | 100 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                                               | 100 kA   |
| response value current of instantaneous short-circuit trip unit      | 10 A     |

#### UL/CSA ratings

|                                                             |             |
|-------------------------------------------------------------|-------------|
| <b>full-load current (FLA) for 3-phase AC motor</b>         |             |
| • at 480 V rated value                                      | 0.8 A       |
| • at 600 V rated value                                      | 0.8 A       |
| <b>contact rating of auxiliary contacts according to UL</b> | C300 / R300 |

#### Short-circuit protection

|                                                                                                |                                                                                               |
|------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| <b>product function short circuit protection</b>                                               | Yes                                                                                           |
| <b>design of the short-circuit trip</b>                                                        | magnetic                                                                                      |
| <b>design of the fuse link</b>                                                                 |                                                                                               |
| • for short-circuit protection of the auxiliary switch required                                | fuse gG: 10 A, miniature circuit breaker C 6 A (short-circuit current I <sub>k</sub> < 400 A) |
| <b>design of the fuse link for IT network for short-circuit protection of the main circuit</b> |                                                                                               |
| • at 240 V                                                                                     | none required                                                                                 |

- at 400 V
- at 500 V
- at 690 V

None required  
gG 6 A  
gG 6 A

#### Installation/ mounting/ dimensions

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 90 mm                                                                                                                                                                          |
| <b>width</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 45 mm                                                                                                                                                                          |
| <b>depth</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 75 mm                                                                                                                                                                          |
| <b>required spacing</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                |
| <ul style="list-style-type: none"> <li>• for grounded parts at 400 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> </ul> </li> <li>• for live parts at 400 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded parts at 500 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> </ul> </li> <li>• for live parts at 500 V <ul style="list-style-type: none"> <li>— downwards</li> <li>— upwards</li> <li>— at the side</li> </ul> </li> <li>• for grounded 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> <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> | 20 mm<br>20 mm<br>9 mm<br><br>20 mm<br>20 mm<br>9 mm<br><br>20 mm<br>20 mm<br>9 mm<br><br>20 mm<br>20 mm<br>0 mm<br>9 mm<br>0 mm<br><br>20 mm<br>20 mm<br>0 mm<br>9 mm<br>0 mm |

#### Connections/ Terminals

|                                                                                                                                                                                                  |                                                                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <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 (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ), 2x (1 ... 4 mm <sup>2</sup> )<br>2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> ) |
| <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> </ul> </li> </ul>                                                | 2x (0,5 ... 1,5 mm <sup>2</sup> ), 2x (0,75 ... 2,5 mm <sup>2</sup> )                                                                                                         |
| <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                                                                                                                                                                      |

#### Safety related data

|                                               |     |
|-----------------------------------------------|-----|
| product function suitable for safety function | Yes |
|-----------------------------------------------|-----|

|                                                                      |                                                  |
|----------------------------------------------------------------------|--------------------------------------------------|
| <b>suitability for use</b>                                           |                                                  |
| • safety-related switching on                                        | No                                               |
| • safety-related switching OFF                                       | Yes                                              |
| <b>service life maximum</b>                                          | 10 a                                             |
| <b>test wear-related service life necessary</b>                      | Yes                                              |
| <b>proportion of dangerous failures</b>                              |                                                  |
| • with low demand rate according to SN 31920                         | 40 %                                             |
| • with high demand rate according to SN 31920                        | 50 %                                             |
| <b>B10 value with high demand rate according to SN 31920</b>         | 5 000                                            |
| <b>failure rate [FIT] with low demand rate according to SN 31920</b> | 50 FIT                                           |
| <b>ISO 13849</b>                                                     |                                                  |
| <b>device type according to ISO 13849-1</b>                          | 3                                                |
| <b>overdimensioning according to ISO 13849-2 necessary</b>           | Yes                                              |
| <b>IEC 61508</b>                                                     |                                                  |
| <b>safety device type according to IEC 61508-2</b>                   | Type 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                                 | Rocker switch                                    |
| <b>Approvals Certificates</b>                                        |                                                  |
| <b>General Product Approval</b>                                      |                                                  |



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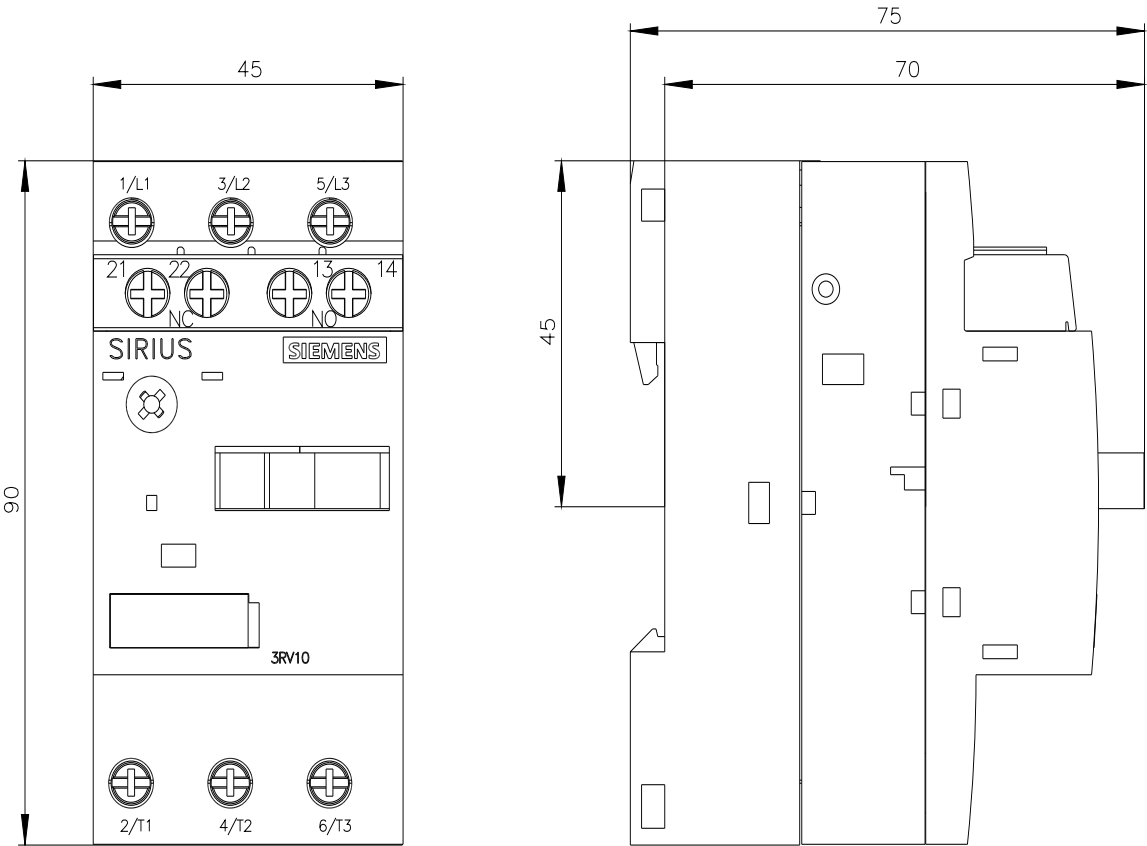


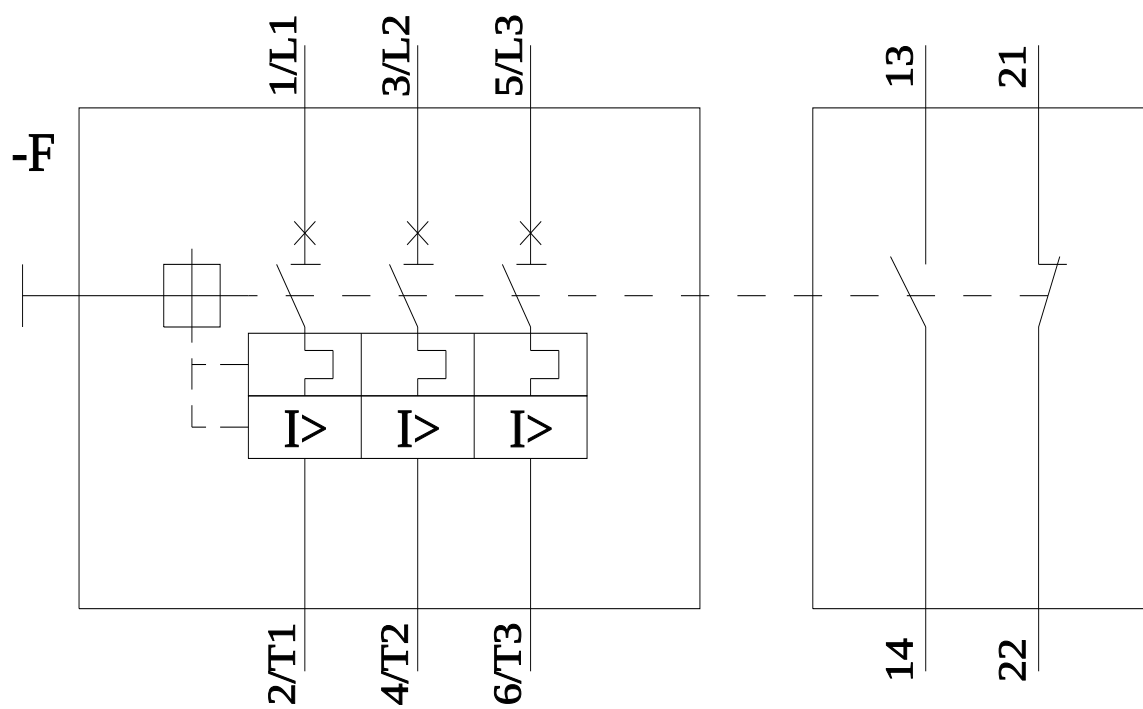
| General Product Approval | For use in hazardous locations | Test Certificates                        | Marine / Shipping                                  |
|--------------------------|--------------------------------|------------------------------------------|----------------------------------------------------|
| <a href="#">BIS CRS</a>  | IECEX                          | ATEX                                     | ABS                                                |
|                          |                                | <a href="#">Special Test Certificate</a> | <a href="#">Type Test Certificates/Test Report</a> |

| Marine / Shipping |     |     |     |      |      |
|-------------------|-----|-----|-----|------|------|
| BUREAU VERITAS    | DNV | LRS | PRS | RINA | RMRS |

| other                         | Railway                                  | Environment                                 |
|-------------------------------|------------------------------------------|---------------------------------------------|
| <a href="#">Confirmation</a>  | <a href="#">Special Test Certificate</a> | <a href="#">Environmental Confirmations</a> |
| <a href="#">Miscellaneous</a> | VDE                                      |                                             |

| Further information                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>Information on the packaging<br/> <a href="https://support.industry.siemens.com/cs/ww/en/view/109813875">https://support.industry.siemens.com/cs/ww/en/view/109813875</a></p> <p>Information- and Downloadcenter (Catalogs, Brochures,...)<br/> <a href="https://www.siemens.com/ic10">https://www.siemens.com/ic10</a></p> <p>Industry Mall (Online ordering system)<br/> <a href="https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1011-0HA15">https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV1011-0HA15</a></p> <p>Cax online generator<br/> <a href="http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RV1011-0HA15">http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&amp;mlfb=3RV1011-0HA15</a></p> <p>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)<br/> <a href="https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0HA15">https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0HA15</a></p> <p>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)</p> |





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