

Siemens  
EcoTech



Circuit breaker size S2 for motor protection, CLASS 10 A-release 28...36 A N-release 520 A screw terminal increased switching capacity with transverse auxiliary switches 1 NO+1 NC



|                                                                 |                                                                |
|-----------------------------------------------------------------|----------------------------------------------------------------|
| product brand name                                              | SIRIUS                                                         |
| product designation                                             | Circuit breaker                                                |
| design of the product                                           | For motor protection                                           |
| product type designation                                        | 3RV2                                                           |
| General technical data                                          |                                                                |
| size of the circuit-breaker                                     | S2                                                             |
| size of contactor can be combined company-specific              | S2                                                             |
| product extension auxiliary switch                              | Yes                                                            |
| power loss [W] for rated value of the current                   |                                                                |
| • at AC in hot operating state                                  | 20 W                                                           |
| • at AC in hot operating state per pole                         | 6.7 W                                                          |
| insulation voltage with degree of pollution 3 at AC rated value | 690 V                                                          |
| surge voltage resistance rated value                            | 6 kV                                                           |
| shock resistance according to IEC 60068-2-27                    | 25g / 11 ms Sinus                                              |
| mechanical service life (operating cycles)                      |                                                                |
| • of the main contacts typical                                  | 50 000                                                         |
| • of auxiliary contacts typical                                 | 50 000                                                         |
| electrical endurance (operating cycles) typical                 | 50 000                                                         |
| reference code according to IEC 81346-2                         | Q                                                              |
| Substance Prohibitance (Date)                                   | 10/15/2014                                                     |
| SVHC substance name                                             | Lead - 7439-92-1<br>Lead titanium zirconium oxide - 12626-81-2 |
| Weight                                                          | 1.149 kg                                                       |
| Ambient conditions                                              |                                                                |
| installation altitude at height above sea level maximum         | 2 000 m                                                        |
| ambient temperature                                             |                                                                |
| • during operation                                              | -20 ... +60 °C                                                 |
| • during storage                                                | -50 ... +80 °C                                                 |
| • during transport                                              | -50 ... +80 °C                                                 |
| relative humidity during operation                              | 10 ... 95 %                                                    |
| Environmental footprint                                         |                                                                |
| Environmental Product Declaration (EPD)                         | Yes                                                            |
| global warming potential [CO2 eq] total                         | 239.877 kg                                                     |
| global warming potential [CO2 eq] during manufacturing          | 12.8 kg                                                        |
| global warming potential [CO2 eq] during sales                  | 0.477 kg                                                       |
| global warming potential [CO2 eq] during operation              | 230 kg                                                         |
| global warming potential [CO2 eq] after end of life             | -3.4 kg                                                        |

|                                                                                            |                 |
|--------------------------------------------------------------------------------------------|-----------------|
| Siemens Eco Profile (SEP)                                                                  | Siemens EcoTech |
| <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> | 28 ... 36 A     |
| <b>type of voltage for main current circuit</b>                                            | AC              |
| <b>operating voltage</b>                                                                   |                 |
| • rated value                                                                              | 20 ... 690 V    |
| • at AC-3 rated value maximum                                                              | 690 V           |
| • at AC-3e rated value maximum                                                             | 690 V           |
| <b>operating frequency rated value</b>                                                     | 50 ... 60 Hz    |
| <b>operational current rated value</b>                                                     | 36 A            |
| <b>operational current</b>                                                                 |                 |
| • at AC-3 at 400 V rated value                                                             | 36 A            |
| • at AC-3e at 400 V rated value                                                            | 36 A            |
| <b>operating power</b>                                                                     |                 |
| • at AC-3                                                                                  |                 |
| — at 230 V rated value                                                                     | 11 kW           |
| — at 400 V rated value                                                                     | 18.5 kW         |
| — at 500 V rated value                                                                     | 22 kW           |
| — at 690 V rated value                                                                     | 30 kW           |
| • at AC-3e                                                                                 |                 |
| — at 230 V rated value                                                                     | 11 kW           |
| — at 400 V rated value                                                                     | 18.5 kW         |
| — at 500 V rated value                                                                     | 22 kW           |
| — at 690 V rated value                                                                     | 30 kW           |
| <b>operating frequency</b>                                                                 |                 |
| • at AC-3 maximum                                                                          | 15 1/h          |
| • at AC-3e 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 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          |
| • at 110 V                                                                                 | 0 A             |
| • at 125 V                                                                                 | 0 A             |
| • at 220 V                                                                                 | 0 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>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                                                               | 15 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                                                                     | 50 kA           |
| • at 500 V rated value                                                                     | 8 kA            |
| • at 690 V rated value                                                                     | 4 kA            |
| response value current of instantaneous short-circuit trip unit                            | 520 A           |

**UL/CSA ratings**

|                                                             |             |
|-------------------------------------------------------------|-------------|
| <b>full-load current (FLA) for 3-phase AC motor</b>         |             |
| • at 480 V rated value                                      | 36 A        |
| • at 600 V rated value                                      | 36 A        |
| <b>yielded mechanical performance [hp]</b>                  |             |
| • for single-phase AC motor                                 |             |
| — at 110/120 V rated value                                  | 3 hp        |
| — at 230 V rated value                                      | 7.5 hp      |
| • for 3-phase AC motor                                      |             |
| — at 200/208 V rated value                                  | 15 hp       |
| — at 220/230 V rated value                                  | 15 hp       |
| — at 460/480 V rated value                                  | 30 hp       |
| — at 575/600 V rated value                                  | 40 hp       |
| <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 $I_k < 400$ 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                                                                                     | 125                                                                                  |
| • at 500 V                                                                                     | 100                                                                                  |
| • at 690 V                                                                                     | 80                                                                                   |

**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>                            | 140 mm                                                                   |
| <b>width</b>                             | 55 mm                                                                    |
| <b>depth</b>                             | 149 mm                                                                   |
| <b>required spacing</b>                  |                                                                          |
| • with side-by-side mounting at the side | 0 mm                                                                     |
| • for grounded parts at 400 V            |                                                                          |
| — downwards                              | 50 mm                                                                    |
| — upwards                                | 50 mm                                                                    |
| — at the side                            | 10 mm                                                                    |
| • for live parts at 400 V                |                                                                          |
| — downwards                              | 50 mm                                                                    |
| — upwards                                | 50 mm                                                                    |
| — at the side                            | 10 mm                                                                    |
| • for grounded parts at 500 V            |                                                                          |
| — downwards                              | 50 mm                                                                    |
| — upwards                                | 50 mm                                                                    |
| — at the side                            | 10 mm                                                                    |
| • for live parts at 500 V                |                                                                          |
| — downwards                              | 50 mm                                                                    |
| — upwards                                | 50 mm                                                                    |
| — at the side                            | 10 mm                                                                    |
| • for grounded parts at 690 V            |                                                                          |
| — downwards                              | 50 mm                                                                    |
| — upwards                                | 50 mm                                                                    |
| — at the side                            | 10 mm                                                                    |
| • for live parts at 690 V                |                                                                          |
| — downwards                              | 50 mm                                                                    |
| — upwards                                | 50 mm                                                                    |
| — at the side                            | 10 mm                                                                    |

**Connections/ Terminals**

|                                      |                      |
|--------------------------------------|----------------------|
| <b>type of electrical connection</b> |                      |
| • for main current circuit           | screw-type terminals |
| • for auxiliary and control 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> <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> <li>• for AWG cables for main contacts</li> </ul>           | 2x (1 ... 35 mm <sup>2</sup> ), 1x (1 ... 50 mm <sup>2</sup> )<br>2x (1 ... 25 mm <sup>2</sup> ), 1x (1 ... 35 mm <sup>2</sup> )<br>2x (18 ... 2), 1x (18 ... 1)                 |
| <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> <li>• for AWG cables for auxiliary contacts</li> </ul> | 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (20 ... 16), 2x (18 ... 14) |
| <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>                                                                                                                       | 3 ... 4.5 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>                                                                                                                                 | M6<br>M3                                                                                                                                                                         |
| <b>Safety related data</b>                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                  |
| product function suitable for safety function                                                                                                                                                                                                                                                              | Yes                                                                                                                                                                              |
| <b>suitability for use</b> <ul style="list-style-type: none"> <li>• safety-related switching on</li> <li>• safety-related switching OFF</li> </ul>                                                                                                                                                         | No<br>Yes                                                                                                                                                                        |
| <b>service life maximum</b>                                                                                                                                                                                                                                                                                | 10 a                                                                                                                                                                             |
| <b>test wear-related service life necessary</b>                                                                                                                                                                                                                                                            | Yes                                                                                                                                                                              |
| <b>proportion of dangerous failures</b> <ul style="list-style-type: none"> <li>• with low demand rate according to SN 31920</li> <li>• with high demand rate according to SN 31920</li> </ul>                                                                                                              | 40 %<br>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>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>General Product Approval</b>                                                                                                                                                                                                                                                                            |                                                                                                                                                                                  |



[KC](#)



|                          |                                |                   |                   |
|--------------------------|--------------------------------|-------------------|-------------------|
| General Product Approval | For use in hazardous locations | Test Certificates | Marine / Shipping |
|--------------------------|--------------------------------|-------------------|-------------------|

[BIS CRS](#)



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)



|                   |       |
|-------------------|-------|
| Marine / Shipping | other |
|-------------------|-------|



[Miscellaneous](#)

|       |         |             |
|-------|---------|-------------|
| other | Railway | Environment |
|-------|---------|-------------|

[Confirmation](#)



[Special Test Certificate](#)

[Confirmation](#)



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|             |
|-------------|
| Environment |
|-------------|

[Environmental Confirmations](#)

|                     |
|---------------------|
| Further information |
|---------------------|

Information on the packaging

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

Information- and Downloadcenter (Catalogs, Brochures,...)

<https://www.siemens.com/ic10>

Industry Mall (Online ordering system)

<https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RV2032-4PA15>

Cax online generator

<http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4PA15>

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

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4PA15>

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

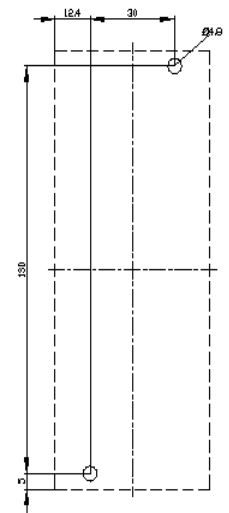
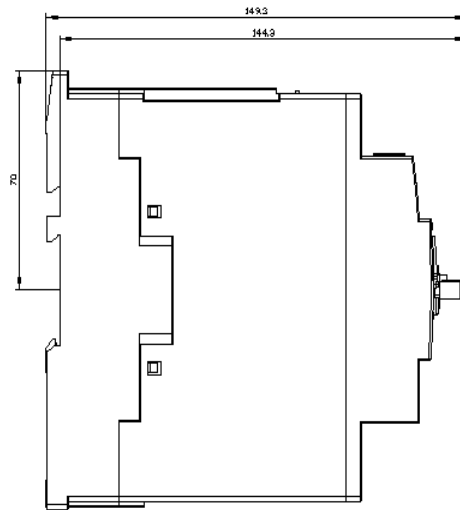
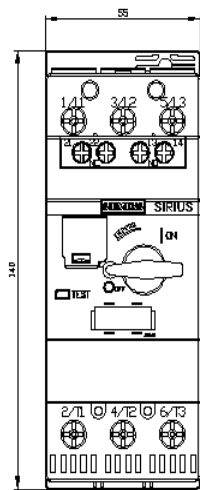
[http://www.automation.siemens.com/bilddb/cax\\_de.aspx?mlfb=3RV2032-4PA15&lang=en](http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2032-4PA15&lang=en)

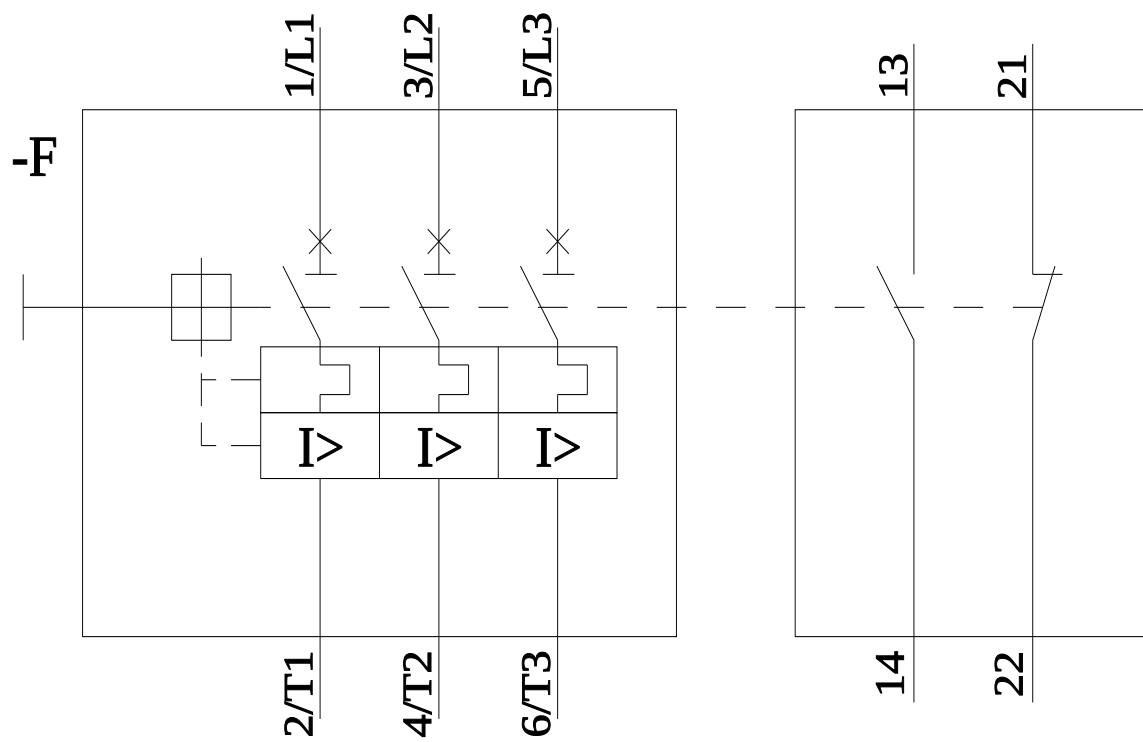
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

<https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4PA15/char>

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

<http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4PA15&objecttype=14&gridview=view1>





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