## **SIEMENS**

Data sheet 3RV2332-4UC10



Circuit breaker size S2 for starter combination Rated current 40 A N-release 585 A screw terminal increased switching capacity

| product brand name  | SIRIUS                   |  |
|---|--------------------------|--|
| product designation   | Circuit breaker          |  |
| design of the product   | For starter combinations |  |
| 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                   |                          |  |
| <ul> <li>at AC in hot operating state</li> </ul>                | 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)                      |                          |  |
| <ul> <li>of the main contacts typical</li> </ul>                | 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   | Blei - 7439-92-1         |  |
| Ambient conditions  |                          |  |
| installation altitude at height above sea level maximum         | 2 000 m                  |  |
| ambient temperature   |                          |  |
| <ul> <li>during operation</li> </ul>                            | -20 +60 °C               |  |
| during storage  | -50 +80 °C               |  |
| during transport  | -50 +80 °C               |  |
| relative humidity during operation                              | 10 95 %                  |  |
| Main circuit  |                          |  |
| number of poles for main current circuit                        | 3                        |  |
| operating voltage   |                          |  |
| • rated value   | 20 690 V                 |  |
| <ul> <li>at AC-3 rated value maximum</li> </ul>                 | 690 V                    |  |
| at AC-3e rated value maximum                                    | 690 V                    |  |
| operating frequency rated value                                 | 50 60 Hz                 |  |
| operational current rated value                                 | 40 A                     |  |
| operational current   |                          |  |
| • at AC-3 at 400 V rated value                                  | 40 A                     |  |
| • at AC-3e at 400 V rated value                                 | 40 A                     |  |
| operating power   |                          |  |
|   |                          |  |

|  | • at AC-3   |  |
|--|---|--|
|  | — at 230 V rated value  | 11 kW  |
| = at 230 V rated value   | — at 400 V rated value  | 18.5 kW  |
| # at AC-Qe   | — at 500 V rated value  | 22 kW  |
|  | — at 690 V rated value  | 37 kW  |
|  | • at AC-3e  |  |
|  | — at 230 V rated value  | 11 kW  |
| operating frequency  ■ of AC-S maximum ■ 15 1/h ■ of AC-S maximum ■ 15 1/h ■ of AC-S maximum ■ 15 1/h  Axiliary critical  Tumber of NC contacts for auxiliary contacts ■ 0  Protective and monitoring functions  product function ■ operating fault detection ■ operating short-circuit current broaking capacity (ics) at AC ■ of AC of 300 V rated value ■ of AC of 900 V rated value ■ of AC of 900 V rated value ■ of 400 V rated value ■ of 400 V rated value ■ of 800 V r  | — at 400 V rated value  | 18.5 kW  |
| operating frequency  | — at 500 V rated value  | 22 kW  |
| e at AC-3 maximum 15 1/h  Auxiliary circuit  number of NC contacts for auxiliary contacts 0  Protective and monitoring functions  product function No expression fault detection No No expression fault detection No  | — at 690 V rated value  | 37 kW  |
| availlary circuit numbor of NC contacts for auxillary contacts 0 numbor of NC contacts for auxillary contacts 0 numbor of NC contacts for auxillary contacts 0 reflocture and monitoring functions  - ground fault detection - ground fault detection - privace failure detection - privace failure detection - privace failure detection - privace failure detection - No - privace failure failure value - Ale 200 V rated value - Ale 200  | operating frequency   |  |
| Auxiliary circuit number of NC contacts for auxillary contacts   | • at AC-3 maximum   | 15 1/h   |
| number of NC contacts for auxiliary contacts 0 number of NO contacts for auxiliary contacts 0 Profective and monitoring functions product function • ground fault detection No • ground fault detection No • phase failure detection No • phase failure detection No • phase failure detection No • at AC at 240 V rated value 100 KA • at AC at 240 V rated value 100 KA • at AC at 2500 V rated value 15 KA • at AC at 3500 V rated value 100 KA • at AC at 2500 V rated value 100 KA • at 400 V rated value 100 KA • at 500 V rat | at AC-3e maximum  | 15 1/h   |
| Institute of NO contacts for auxiliary contacts   Protective and monitoring functions  | Auxiliary circuit   |  |
| product function   | number of NC contacts for auxiliary contacts                    | 0  |
| product function   |   | 0  |
| e ground fault detection No phase failure detection No phase failure detection No CLASS 10  maximum short-circuit current broaking capacity (Icu)  | Protective and monitoring functions                             |  |
|  | product function  |  |
| Itrip class  | <ul> <li>ground fault detection</li> </ul>                      | No   |
| maximum short-circuit current breaking capacity (Icu)  at AC at 240 V rated value  at AC at 400 V rated value  at AC at 400 V rated value  at AC at 550 V rated value  at AC at 660 V rated value  at AC at 660 V rated value  at 400 V rated value  at 400 V rated value  at 550 KA  at 400 V rated value  at 550 KA  at 550 V rated value  at 650 V rated value  but 650 KA  at 650 V rated value  but 650 KA  at 650 V rated value  at 650 V rated value  40 A  40 A  41 650 V rated value  yielded mechanical performance (Ipp)  for single-phase AC motor   | phase failure detection   | No   |
| • at AC at 240 V rated value • at AC at 400 V rated value • at AC at 400 V rated value • at AC at 500 V rated value • at AC at 500 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at AC at 690 V rated value • at 400 V rated value • at 400 V rated value • at 500 V rated value • at 600 V rated value • at 200 V rated value • at 57,660 V rated value • at 600 V rated value • at 600 V rated value • at 400 V rated value • at 500 V rated value • at 400 V rated value • at 500 V rated value • at 400 V rated value • at 500 V rated value • at 400 V rated value • at 500 V rated value • at 400 V rated  | trip class  | CLASS 10   |
| at AC at 400 V rated value   | maximum short-circuit current breaking capacity (Icu)           |  |
|  | • at AC at 240 V rated value                                    | 100 kA   |
| e at AC at 690 V rated value  operating short-circuit current breaking capacity (Ics) at AC  e at 240 V rated value  at 600 V rated value  at 690 V rated value  for ingle-phase AC motor  at 110/120 V rated value  at 230 V rated value  at 230 V rated value  at 200/208 V rated value  for 3-phase AC motor  at 200/208 V rated value  for 3-phase AC motor  at 200/208 V rated value  for 3-phase AC motor  at 200/208 V rated value  for 6-phase AC motor  at 200/208 V rated value  for 6-phase AC motor  at 200/208 V rated value  for 6-phase AC motor  at 200/208 V rated value  for 6-phase AC motor  at 200/208 V rated value  for 6-phase AC motor  at 200/208 V rated value  for 6-phase AC motor  at 200/208 V rated value  for 6-phase AC motor  at 200/208 V rated value  for 6-phase AC motor  at 200/208 V rated value  for 6-phase AC motor  at 200/208 V rated value  for 6-phase AC motor  at 200/208 V rated value  for 6-phase AC motor  at 200/208 V rated value  for 6-phase AC motor  at 600 V rated value  for 6-phase AC motor  at 600 V rated value  for 6-phase AC motor  for 6-phase A | <ul> <li>at AC at 400 V rated value</li> </ul>                  | 100 kA   |
| operating short-circuit current breaking capacity (ics) at AC  | <ul> <li>at AC at 500 V rated value</li> </ul>                  | 15 kA  |
|  | at AC at 690 V rated value                                      | 6 kA   |
|  | operating short-circuit current breaking capacity (Ics) at AC   |  |
| at 500 V rated value at 690 V rated value  * at 690 V rated value  response value current of instantaneous short-circuit trip unit  585 A  **ULCSA ratings**  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value 40 A  yielded mechanical performance [hp]  • for single-phase AC motor — at 110/120 V rated value  **or 3-phase AC motor — at 2200 V rated value  • for 3-phase AC motor — at 2200/208 V rated value  • for 3-phase AC motor — at 2200/208 V rated value  • for 3-phase AC motor — at 2200/208 V rated value — at 660/400 V rated value — at 660/400 V rated value — at 660/400 V rated value  **or 3-phase AC motor — at 757600 V rated value  **or 460/480 V rated value 40 hp  **Short-circuit protection  product function short circuit protection design of the short-circuit trip  design of the short-circuit trip  **or 4140 V **at 400 V **at 400 V **at 690 V **at 690 V **at 690 V    | <ul> <li>at 240 V rated value</li> </ul>                        | 100 kA   |
| * at 690 V rated value response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor     * at 480 V rated value     * at 600 V rated value     * at 600 V rated value     * at 100 V rated value     * at 230 V rated value     * at 220/230 V rated value     * at 220/230 V rated value     * at 220/230 V rated value     * at 480/480 V rated value     * at 480/480 V rated value     * at 480/480 V rated value     * at 575/500 V rated value     * at 575/500 V rated value  Product function short circuit protection  product function short circuit trip  design of the fuse link for IT network for short-circuit protection of the main circuit     * at 240 V     * at 690 V  Installation/ mounting/ dimensions  mounting position  fastening method     height     width     55 mm  depth  | <ul> <li>at 400 V rated value</li> </ul>                        | 50 kA  |
| response value current of instantaneous short-circuit trip unit  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  | <ul> <li>at 500 V rated value</li> </ul>                        | 8 kA   |
| UII-load current (FLA) for 3-phase AC motor   • at 480 V rated value   | at 690 V rated value  | 4 kA   |
| full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value • at 600 V rated value  • of single-phase AC motor  — at 110/120 V rated value — at 230 V rated value • for 3-phase AC motor — at 200/208 V rated value — at 460/480 V rated value — at 475/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 675/600 V rated value — at 680/480 V rated | response value current of instantaneous short-circuit trip unit | 585 A  |
| ■ at 480 V rated value     ■ at 600 V rated value     ■ 40 A              vielded mechanical performance [hp]             for single-phase AC motor       — at 1101/120 V rated value       — at 230 V rated value       — at 220/208 V rated value       — at 220/208 V rated value       — at 220/230 V rated value       — at 460/480 V rated value       — at 460/480 V rated value       — at 575/600 V rated value       — at 575/600 V rated value       — at 757/600 V rated value       — at 20/230 V rated value       — at 575/600 V rated value       — at 575/600 V rated value       — at 575/600 V rated value       — at 400/480 V rated value       — at 575/600 V rated value       — at 400/480 V rated value       — at 575/600 V rated value       — at 575/       | UL/CSA ratings  |  |
| ■ at 600 V rated value   40 A  | full-load current (FLA) for 3-phase AC motor                    |  |
| yielded mechanical performance [hp]              • for single-phase AC motor             — at 110/120 V rated value             — at 230 V rated value             • for 3-phase AC motor             — at 200/208 V rated value             • for 3-phase AC motor             — at 220/230 V rated value             — at 220/230 V rated value             — at 460/480 V rated value             — at 460/480 V rated value             — at 575/600 V rat   | <ul> <li>at 480 V rated value</li> </ul>                        | 40 A   |
|  | at 600 V rated value  | 40 A   |
| - at 110/120 V rated value   | yielded mechanical performance [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 30 hp  - at 460/480 V rated value 40 hp  Short-circuit protection  product function short circuit protection 4esign of the short-circuit trip 4esign of the fuse link for IT network for short-circuit protection of the main circuit 40 hp  • at 240 V 125  • at 500 V 100  • at 690 V 80  Installation/ mounting/ dimensions  mounting position any fastening method 55 mm  depth 149 mm   | <ul> <li>for single-phase AC motor</li> </ul>                   |  |
| for 3-phase AC motor         — at 200/208 V rated value  | — at 110/120 V rated value                                      | 3 hp   |
| - 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  Short-circuit protection  product function short circuit protection 4 gesign of the short-circuit trip 5 magnetic 6 design of the fuse link for IT network for short-circuit protection of the main circuit 6 at 400 V 125 125 100 100 100 100 100 100 100 100 100 10   | — at 230 V rated value  | 7.5 hp   |
| - at 220/230 V rated value   | <ul> <li>for 3-phase AC motor</li> </ul>                        |  |
| - at 460/480 V rated value 30 hp - at 575/600 V rated value 40 hp  Short-circuit protection product function short circuit protection Yes design of the short-circuit trip magnetic  design of the fuse link for IT network for short-circuit protection of the main circuit • at 240 V none required • at 400 V 125 • at 500 V 100 • at 690 V 80  Installation/ mounting/ dimensions mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 140 mm width 55 mm depth 149 mm   | — at 200/208 V rated value                                      | 15 hp  |
| - at 575/600 V rated value  Short-circuit protection  product function short circuit protection  design of the short-circuit trip  design of the fuse link for IT network for short-circuit protection of the main circuit  • at 240 V  • at 400 V  • at 500 V  • at 690 V  Installation/ mounting/ dimensions  mounting position  fastening method  height  vidth  depth  40 hp  Yes  magnetic  Yes  magnetic  125  none required  125  100  80  Installation/ mounting/ dimensions  any  fastening method  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  height  vidth  40 mm  | — at 220/230 V rated value                                      | 15 hp  |
| Short-circuit protection  product function short circuit protection  design of the short-circuit trip  design of the fuse link for IT network for short-circuit protection of the main circuit  • at 240 V  • at 400 V  • at 500 V  • at 690 V  Installation/ mounting/ dimensions  mounting position  fastening method  height  vidth  depth  149 mm  | — at 460/480 V rated value                                      | 30 hp  |
| product function short circuit protection  design of the short-circuit trip  design of the fuse link for IT network for short-circuit protection of the main circuit  • at 240 V  • at 400 V  • at 500 V  • at 690 V  Installation/ mounting/ dimensions  mounting position fastening method  height  width  55 mm  depth  |   | 40 hp  |
| design of the short-circuit trip     magnetic       design of the fuse link for IT network for short-circuit protection of the main circuit     none required       • at 240 V     none required       • at 500 V     100       • at 690 V     80       Installation/ mounting/ dimensions     any       fastening method     screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715       height     140 mm       width     55 mm       depth     149 mm  | Short-circuit protection  |  |
| design of the fuse link for IT network for short-circuit protection of the main circuit  • at 240 V  • at 400 V  • at 500 V  • at 690 V  Installation/ mounting/ dimensions  mounting position fastening method  height  width  55 mm  depth  149 mm   | product function short circuit protection                       | Yes  |
| protection of the main circuit  at 240 V  at 400 V  at 500 V  at 690 V  Installation/ mounting/ dimensions  mounting position  fastening method  height  width  depth  at 240 V  none required  125  100  80  Installation/ mounting/ dimensions  any  fastening method  screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715  140 mm  140 mm  | design of the short-circuit trip                                | magnetic   |
| <ul> <li>at 400 V</li> <li>at 500 V</li> <li>at 690 V</li> <li>80</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>width</li> <li>b5 mm</li> <li>depth</li> <li>149 mm</li> </ul>  |   |  |
| <ul> <li>at 500 V</li> <li>at 690 V</li> <li>80</li> <li>Installation/ mounting/ dimensions</li> <li>mounting position</li> <li>fastening method</li> <li>height</li> <li>width</li> <li>b5 mm</li> <li>depth</li> <li>depth</li> <li>140 mm</li> <li>149 mm</li> </ul>  | • at 240 V  | none required  |
| ● at 690 V  Installation/ mounting/ dimensions  mounting position any  fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height height width 55 mm depth 149 mm  | • at 400 V  | 125  |
| Installation/ mounting/ dimensions  mounting position any fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 height 140 mm width 55 mm depth 149 mm   | • at 500 V  | 100  |
| mounting positionanyfastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height140 mmwidth55 mmdepth149 mm  | • at 690 V  | 80   |
| fastening methodscrew and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715height140 mmwidth55 mmdepth149 mm  | Installation/ mounting/ dimensions                              |  |
| height         140 mm           width         55 mm           depth         149 mm   | mounting position   | any  |
| width         55 mm           depth         149 mm   | fastening method  | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| depth 149 mm   | height  | 140 mm   |
| <u> </u>   | width   | 55 mm  |
| required spacing   | depth   | 149 mm   |
|  | required spacing  |  |

| 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  |
| — backwards   | 0 mm   |
| — at the side   | 10 mm  |
| — forwards  | 0 mm   |
| • for live parts at 690 V   |  |
| — downwards   | 50 mm  |
| — upwards   | 50 mm  |
| — backwards   | 0 mm   |
| — at the side   | 10 mm  |
| — forwards  | 0 mm   |
| Connections/ Terminals  |  |
| type of electrical connection   |  |
| for main current circuit  | screw-type terminals                             |
| arrangement of electrical connectors for main current circuit           | Top and bottom                                   |
| type of connectable conductor cross-sections                            |  |
| for main contacts   |  |
| <ul><li>— solid or stranded</li></ul>                                   | 2x (1 35 mm²), 1x (1 50 mm²)                     |
| <ul> <li>finely stranded with core end processing</li> </ul>            | 2x (1 25 mm²), 1x (1 35 mm²)                     |
| for AWG cables for main contacts  | 2x (18 2), 1x (18 1)                             |
| tightening torque   |  |
| for main contacts with screw-type terminals                             | 3 4.5 N·m  |
| design of screwdriver shaft   | Diameter 5 to 6 mm                               |
| size of the screwdriver tip   | Pozidriv size 2                                  |
| design of the thread of the connection screw                            |  |
| • for main contacts   | M6   |
| Safety related data   |  |
| proportion of dangerous failures  |  |
| with low demand rate according to SN 31920                              | 50 %   |
| with high demand rate according to SN 31920                             | 50 %   |
| failure rate [FIT] with low demand rate according to SN 31920           | 50 FIT   |
| B10 value with high demand rate according to SN 31920                   | 5 000  |
| IEC 61508   |  |
| T1 value for proof test interval or service life according to IEC 61508 | 10 a   |
| Electrical Safety   |  |
| protection class IP on the front according to IEC 60529                 | IP20   |
| touch protection on the front according to IEC 60529                    | finger-safe, for vertical contact from the front |
| display version for switching status                                    | Handle   |
| Approvals Certificates  |  |
| General Product Approval  |  |
|   |  |





Confirmation





<u>KC</u>

General Product Approval

**Test Certificates** 

Marine / Shipping



Special Test Certificate

Type Test Certificates/Test Report







Marine / Shipping

other







**Miscellaneous** 

Confirmation



Railway

**Environment** 

Confirmation

EPD Typ II/III (with life cylce assessment)

## Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

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=3RV2332-4UC10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2332-4UC10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2332-4UC10

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

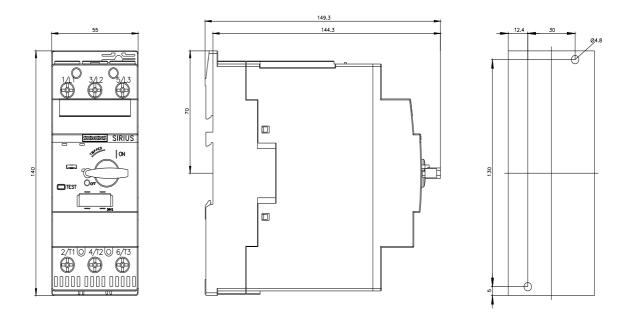
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2332-4UC10&lang=en

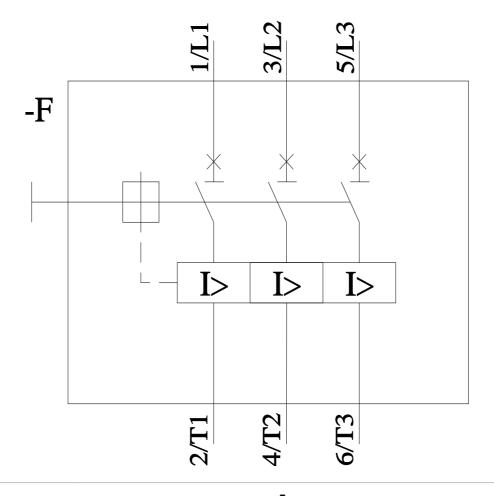
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV2332-4UC10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2332-4UC10&objecttype=14&gridview=view1





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