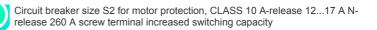
SIEMENS

Data sheet

3RV2032-4TA10







| 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 | 14.5 W |
| at AC in hot operating state per pole | 4.8 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 |
| Weight | 1.139 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 | |
| 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 |
| Main circuit | |

| number of poles for main current circuit | 3 |
|--|----------|
| adjustable current response value current of the current- dependent overload release | 12 17 A |
| 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 | 17 A |
| operational current | |
| at AC-3 at 400 V rated value | 17 A |
| • at AC-3e at 400 V rated value | 17 A |
| operating power | |
| • at AC-3 | |
| — at 230 V rated value | 4 kW |
| — at 400 V rated value | 7.5 kW |
| — at 500 V rated value | 7.5 kW |
| — at 690 V rated value | 15 kW |
| • at AC-3e | |
| at AC-se — at 230 V rated value | 4 kW |
| | |
| — at 400 V rated value | 7.5 kW |
| — at 500 V rated value | 7.5 kW |
| — at 690 V rated value | 15 kW |
| operating frequency | |
| • at AC-3 maximum | 15 1/h |
| • at AC-3e maximum | 15 1/h |
| Protective and monitoring functions | |
| product function | |
| ground fault detection | No |
| phase failure detection | Yes |
| trip class | CLASS 10 |
| design of the overload release | thermal |
| maximum short-circuit current breaking capacity (lcu) | |
| 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 | 18 kA |
| at AC at 690 V rated value | 8 kA |
| operating short-circuit current breaking capacity (Ics) at AC | |
| • at 240 V rated value | 100 kA |
| • at 400 V rated value | 50 kA |
| • at 500 V rated value | 10 kA |
| • at 690 V rated value | 5 kA |
| response value current of instantaneous short-circuit trip unit | 260 A |
| UL/CSA ratings | |
| full-load current (FLA) for 3-phase AC motor | |
| • at 480 V rated value | 17 A |
| at 600 V rated value | 17 A |
| yielded mechanical performance [hp] | |
| • for single-phase AC motor | |
| — at 110/120 V rated value | 1.5 hp |
| — at 230 V rated value | 3 hp |
| for 3-phase AC motor | |
| - at 200/208 V rated value | 5 hp |
| — at 220/200 V rated value | 7.5 hp |
| | |
| - at 460/480 V rated value | 15 hp |
| - at 575/600 V rated value | 15 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 | |

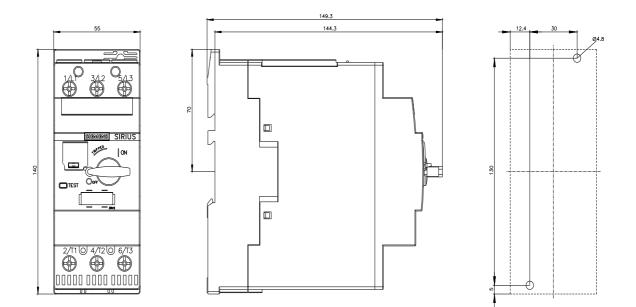
| | | none required | • at 240 V |
|---|----------|---|--|
| • at 500 V 80 • at 600 V 63 mounting position any fastening method sorew and snape-on mounting onto 35 mm DIN rail according to DIN EN height 140 mm with 65 mm depth 149 mm required spacing 0 mm • with disch-yside mounting at the side 0 mm • for grounded parts at 400 V - - downwards 50 mm - at the side 10 mm • for grounded parts at 400 V - - downwards 50 mm - at the side 10 mm • for grounded parts at 500 V - - downwards 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm • for grounded parts at 500 V - - downwards 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm • for grounded parts at 600 V - - downwards 50 mm - upwards 50 mm - at the side 10 mm • for grounded parts at 600 V - - downwards 50 mm - at the side 10 mm | | | |
| • at 680 V 63 Installation mounting possibility any fastering method serve and snap-on mounting onto 35 mm DIN rail according to DIN EN height 140 mm with 65 mm 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< | | | |
| Installation/ mounting volume is one of the source of the sourc | | | |
| fastening method screw and snap-on mounting onto 35 mm DIN rail according to DIN EN height 140 mm width 65 mm depth 149 mm required spacing 0 mm • with side-by-side mounting at the side 0 mm • of or grounded parts at 400 V 50 mm - downwards 50 mm - upwards 50 mm - at the side 10 mm • for loc parts at 400 V 50 mm - downwards 50 mm - upwards 50 mm | | | |
| height 140 mm width 65 mm depth 149 mm required spacing 0 mm • with side-by-side mounting at the side 0 mm • upwards 50 mm - athe | | any | mounting position |
| width 55 mm depth 149 mm required spacing 0 mm • for grounded parts at 400 V 0 mm - downwards 50 mm - utwards 50 mm - | EN 60715 | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 6071 | fastening method |
| depth 149 mm required spacing omm • (in disc by-side mounting at the side 0 mm • (or grounded parts at 400 V 50 mm - downwards 50 mm - at the side 10 mm • (or live parts at 400 V 50 mm - downwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm • (or grounded parts at 500 V - - downwards 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm • (or grounded parts at 500 V - - downwards 50 mm - upwards 50 mm - at the side 10 mm • for rain contact 50 mm - upwards 50 mm - at the side 10 mm • for anin c | | 140 mm | height |
| required spacing with side-by-side mounting at the side for grounded parts at 400 V downwards upwards for mail context downwards of mail at the side 10 mm for live parts at 400 V downwards for mail contexts for ma | | 55 mm | width |
| • with side-by-side mounting at the side 0 mm • for grounded parts at 400 V 50 mm - upwards 50 mm - at the side 10 mm • of live parts at 400 V - - downwards 50 mm - upwards 5 | | 149 mm | depth |
| | | | required spacing |
| - downwards 50 mm - upwards 50 mm - at the side 10 mm - downwards 50 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm - at the side 10 mm - at the side 10 mm - upwards 50 mm - at the side 10 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm - at the side 10 mm - at the side 10 mm - upwards 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm - for live parts at 690 V 50 mm - at the side 10 mm - for live parts at 690 V | | 0 mm | with side-by-side mounting at the side |
| | | | for grounded parts at 400 V |
| at the side 10 mm • for live parts at 400 V | | | — downwards |
| • for live parts at 400 V − downwards − upwards 0 mm − upwards 0 mm − downwards 0 mm • for grounded parts at 500 V − downwards 0 mm − upwards 0 mm − upwards 0 mm − upwards 0 mm − at the side 10 mm • for live parts at 500 V − downwards 0 mm − upwards 0 mm in urrent circuit screw-type terminals arrangement of electrical connectors for main current circuit of main current circuit arrangement of electrical connectors for main current of main contacts − solid or stranded 2x (1 35 mm²), 1x (1 35 mm²) • for AWG | | | |
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| upwards50 mm at the side10 mm• for grounded parts at 500 V downwards50 mm upwards50 mm at the side10 mm• for live parts at 500 V downwards50 mm at the side10 mm• for live parts at 500 V downwards50 mm upwards50 mm at the side10 mm at the side10 mm at the side10 mm downwards50 mm upwards50 mm otonnectable conductor cross-sections• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current circuitTop and bottomtype of connectable conductor cross-sections• for main current circuit2x (1 35 mm²), 1x (1 50 mm²)- infely stranded with core end processing2x (1 25 mm²), 1x (1 35 mm²)• for All contacts2x (1 25 mm²), 1x (1 35 mm²)• for main contacts2x (1 25 mm²), 1x (1 35 mm²)• for main contacts with screw-type terminals3 4.5 N·mde | | | |
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| • for live parts at 500 V 50 mm - downwards 50 mm - upwards 50 mm - at the side 10 mm • downwards 50 mm - downwards 50 mm - downwards 50 mm - downwards 50 mm - upwards 50 mm - at the side 10 mm - at the side 10 mm - downwards 50 mm - at the side 10 mm - downwards 50 mm - at the side 10 mm - upwards 50 mm - at the side 10 mm Connections/Terminals 50 mm - at the side 10 mm Connections/Terminals screw-type terminals arrangement of electrical connectors for main current circuit screw-type terminals arrangement of electrical connectors for main current circuit screw-type terminals type of connectable conductor cross-sections • for main contacts • for waic notacts 2x (1 35 mm²), 1x (1 50 mm²) - fiely stranded with core end processing 2x (1 25 mm²), 1x (1 50 mm²) • for A | | | - |
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| • for grounded parts at 690 V 50 mm - downwards 50 mm - upwards 50 mm - at the side 10 mm • for live parts at 690 V - - downwards 50 mm - downwards 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm Connections/Terminals type of electrical connection • for main current circuit screw-type terminals arrangement of electrical connectors for main current circuit arrangement of electrical connectors for main current circuit screw-type terminals arrangement of sectrical connects for end processing 2x (1 35 mm²), 1x (1 50 mm²) - solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) - finely stranded with core end processing 2x (1 25 mm²), 1x (1 50 mm²) - for AWG cables for main contac | | | |
| - downwards 50 mm - upwards 50 mm - at the side 10 mm • for live parts at 690 V - - downwards 50 mm - upwards 50 mm - upwards 50 mm - at the side 10 mm - at the side 10 mm - at the side 10 mm Connections/Terminals 50 mm type of electrical connection screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom arrangement of electrical connectors for main current Top and bottom circuit screw-type terminals arrangement of electrical connectors for main current Top and bottom of or main contacts - solid or stranded - solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) - finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) - for AWG cables for main contacts 2x (18 2), 1x (18 1) tightening torque 3 4.5 N·m - 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 M6 | | | |
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| at the side10 mmConnections/ Terminalstype of electrical connection• for main current circuitscrew-type terminalsarrangement of electrical connectors for main current circuitTop and bottomtype of connectable conductor cross-sections• for main contacts- solid or stranded- solid or stranded- finely stranded with core end processing2x (1 35 mm²), 1x (1 50 mm²)• for AWG cables for main contacts2x (1 25 mm²), 1x (1 35 mm²)• for anin contacts2x (1 25 mm²), 1x (1 35 mm²)• for AWG cables for main contacts2x (1 25 mm²), 1x (1 35 mm²)• for anin contacts2x (1 25 mm²), 1x (1 35 mm²)• for AWG cables for main contacts2x (1 25 mm²), 1x (1 35 mm²)• for main contacts with screw-type terminals3 4.5 N-mdesign of screwdriver shaftDiameter 5 to 6 mmsize of the screwdriver tipPozidriv size 2design of the thread of the connection screw• for main contactsM6 | | 50 mm | |
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| type of electrical connection screw-type terminals arrangement of electrical connectors for main current circuit Top and bottom type of connectable conductor cross-sections For main contacts - solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) - finely stranded with core end processing 2x (1 35 mm²), 1x (1 50 mm²) • for AWG cables for main contacts 2x (1 25 mm²), 1x (1 35 mm²) • 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 M6 | | 10 mm | — at the side |
| • for main current circuit screw-type terminals arrangement of electrical connectors for main current Top and bottom type of connectable conductor cross-sections • • for main contacts 2x (1 35 mm²), 1x (1 50 mm²) - solid or stranded 2x (1 35 mm²), 1x (1 50 mm²) - finely stranded with core end processing 2x (1 25 mm²), 1x (1 35 mm²) • for AWG cables for main contacts 2x (1 8 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 M6 | | | Connections/ Terminals |
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| • 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 M6 | | 2x (18 2), 1x (18 1) | |
| 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 M6 | | 2 4 5 N m | |
| size of the screwdriver tip Pozidriv size 2 design of the thread of the connection screw M6 | | | |
| design of the thread of the connection screw • for main contacts M6 | | | |
| for main contacts M6 | | I ULIUITY JILG L | |
| | | M6 | |
| Satety related data | | | Safety related data |
| product function suitable for safety function Yes | | Yes | |
| suitability for use | | | |
| safety-related switching on No | | No | - |
| safety-related switching OFF Yes | | | |
| service life maximum 10 a | | | |
| test wear-related service life necessary Yes | | | |
| proportion of dangerous failures | | | |
| with low demand rate according to SN 31920 40 % | | 40 % | |

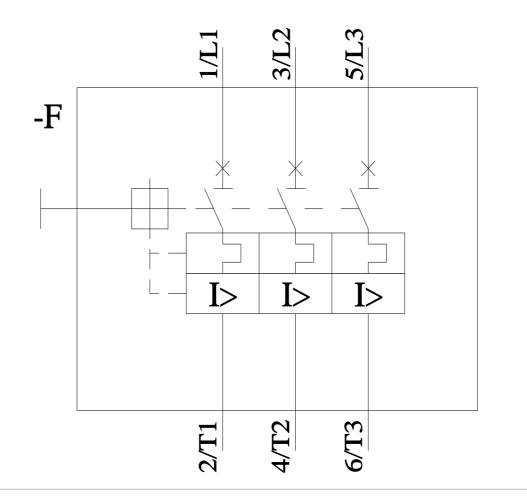
| with high demand | d rate according to SN 31 | 1920 | 50 % | | | |
|---|---------------------------|-----------------------------------|-----------------------|------------------------|-----------------------|--|
| B10 value with high d | emand rate according t | o SN 31920 | 5 000 | | | |
| failure rate [FIT] with I 31920 | low demand rate accord | ding to SN | 50 FIT | | | |
| ISO 13849 | | | | | | |
| device type according | g to ISO 13849-1 | | 3 | | | |
| | cording to ISO 13849-2 | necessary | Yes | | | |
| IEC 61508 | | | | | | |
| safety device type according to IEC 61508-2 | | | Туре А | | | |
| 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 contac | t from the front | | | |
| Display | | | | | | |
| display version for swite | ching status | | Handle | | | |
| Approvals Certificates | | | | | | |
| General Product App | roval | | | | | |
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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2032-4TA10 Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4TA10 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2032-4TA10&lang=en Characteristic: Tripping characteristics, I²t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RV2032-4TA10/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2032-4TA10&objecttype=14&gridview=view1





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