SIEMENS

Data sheet

3RV2142-4RA10



Circuit breaker size S3 for motor protection CLASS 10 with overload relay function A-release 65...84 A N-release 1170 A screw terminal Increased switching capacity 100 kA

| product brand name | SIRIUS | | |
|---|--|--|--|
| product designation | Circuit breaker | | |
| design of the product | For motor protection with overload relay function | | |
| product type designation | 3RV2 | | |
| General technical data | | | |
| size of the circuit-breaker | S3 | | |
| size of contactor can be combined company-specific | S3 | | |
| product extension auxiliary switch | Yes | | |
| power loss [W] for rated value of the current | | | |
| at AC in hot operating state | 34 W | | |
| at AC in hot operating state per pole | 11.3 W | | |
| insulation voltage with degree of pollution 3 at AC rated value | 1 000 V | | |
| surge voltage resistance rated value | 8 kV | | |
| shock resistance according to IEC 60068-2-27 | 25g / 11 ms Sinus | | |
| mechanical service life (operating cycles) | | | |
| of the main contacts typical | 25 000 | | |
| of auxiliary contacts typical | 25 000 | | |
| electrical endurance (operating cycles) typical | 25 000 | | |
| reference code according to IEC 81346-2 | Q | | |
| Substance Prohibitance (Date) | 03/01/2017 | | |
| 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 % | | |
| Main circuit | | | |
| number of poles for main current circuit | 3 | | |
| | | | |
| adjustable current response value current of the current-dependent overload release | 65 84 A | | |
| | 65 84 A | | |
| current-dependent overload release | 20 690 V | | |
| current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum | 20 690 V 690 V | | |
| current-dependent overload release operating voltage • rated value | 20 690 V 690 V 690 V | | |
| current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum | 20 690 V 690 V | | |
| current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value | 20 690 V 690 V 690 V | | |
| current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value operational current | 20 690 V 690 V 690 V 50 60 Hz 84 A | | |
| current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value • at AC-3 at 400 V rated value | 20 690 V 690 V 690 V 50 60 Hz 84 A 84 A | | |
| current-dependent overload release operating voltage • rated value • at AC-3 rated value maximum • at AC-3e rated value maximum operating frequency rated value operational current rated value operational current | 20 690 V 690 V 690 V 50 60 Hz 84 A | | |

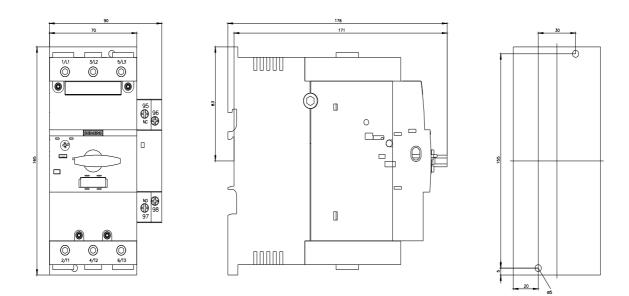
| • at AC-3 | 20.111/ | | | |
|--|--|--|--|--|
| — at 230 V rated value | 22 kW | | | |
| — at 400 V rated value | 45 kW | | | |
| — at 500 V rated value | 55 kW | | | |
| — at 690 V rated value | 75 kW | | | |
| • at AC-3e | | | | |
| — at 230 V rated value | 22 kW | | | |
| — at 400 V rated value | 45 kW | | | |
| — at 500 V rated value | 55 kW | | | |
| — at 690 V rated value | 75 kW | | | |
| operating frequency | | | | |
| at AC-3 maximum | 15 1/h | | | |
| at AC-3e maximum | 15 1/h | | | |
| Auxiliary circuit | | | | |
| number of NC contacts for auxiliary contacts | | | | |
| • note | 1 | | | |
| number of NO contacts for auxiliary contacts | | | | |
| • note | 1 | | | |
| 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 (Icu) | | | | |
| at AC at 240 V rated value | 100 kA | | | |
| at AC at 400 V rated value | 100 kA | | | |
| at AC at 500 V rated value | 10 kA | | | |
| at AC at 690 V rated value | 6 kA | | | |
| operating short-circuit current breaking capacity (lcs) | | | | |
| at AC | | | | |
| at 240 V rated value | 100 kA | | | |
| at 400 V rated value | 50 kA | | | |
| at 500 V rated value | 5 kA | | | |
| at 690 V rated value | 3 kA | | | |
| response value current of instantaneous short-circuit trip unit | 1 170 A | | | |
| UL/CSA ratings | | | | |
| full-load current (FLA) for 3-phase AC motor | | | | |
| | 04.4 | | | |
| at 480 V rated value | 84 A | | | |
| • at 600 V rated value | 84 A | | | |
| yielded mechanical performance [hp] | | | | |
| for single-phase AC motor | | | | |
| — at 110/120 V rated value | 7.5 hp | | | |
| — at 230 V rated value | 15 hp | | | |
| for 3-phase AC motor | | | | |
| — at 200/208 V rated value | 25 hp | | | |
| — at 220/230 V rated value | 30 hp | | | |
| — at 460/480 V rated value | 60 hp | | | |
| — at 575/600 V rated value | 75 hp | | | |
| Short-circuit protection | | | | |
| product function short circuit protection | Yes | | | |
| design of the short-circuit trip | magnetic | | | |
| Installation/ mounting/ dimensions | | | | |
| | 201/ | | | |
| mounting position fastening method | any screw and snap-on mounting onto 35 mm DIN rail according to DIN EN | | | |
| | 60715 | | | |
| height | 165 mm | | | |
| width | 90 mm | | | |
| depth | 176 mm | | | |
| required spacing | | | | |
| with side-by-side mounting at the side | 0 mm | | | |
| for grounded parts at 400 V | | | | |
| | | | | |

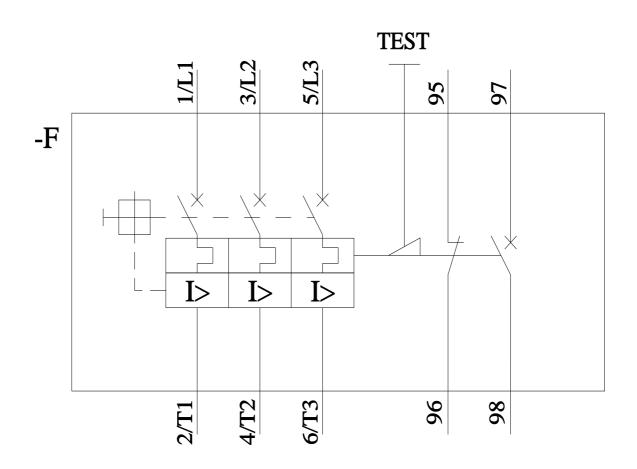
| | 70 | | | |
|---|---|--|--|--|
| — downwards | 70 mm | | | |
| — upwards | 70 mm | | | |
| — at the side | 10 mm | | | |
| for live parts at 400 V | | | | |
| — downwards | 70 mm | | | |
| — upwards | 70 mm | | | |
| — at the side | 10 mm | | | |
| for grounded parts at 500 V | | | | |
| — downwards | 110 mm | | | |
| — upwards | 110 mm | | | |
| — at the side | 10 mm | | | |
| for live parts at 500 V | | | | |
| — downwards | 110 mm | | | |
| — upwards | 110 mm | | | |
| — at the side | 10 mm | | | |
| for grounded parts at 690 V | | | | |
| — downwards | 150 mm | | | |
| — upwards | 150 mm | | | |
| — backwards | 0 mm | | | |
| — at the side | 30 mm | | | |
| — at the side — forwards | 0 mm | | | |
| | U TIITI | | | |
| • for live parts at 690 V | 150 mm | | | |
| — downwards | 150 mm | | | |
| — upwards | | | | |
| — backwards | 0 mm | | | |
| — at the side | 30 mm | | | |
| — forwards | 0 mm | | | |
| Connections/ Terminals | | | | |
| type of electrical connection | | | | |
| for main current circuit | screw-type terminals | | | |
| for auxiliary and control circuit | screw-type terminals | | | |
| arrangement of electrical connectors for main current circuit | Top and bottom | | | |
| time of compositely conductor erections | | | | |
| type of connectable conductor cross-sections | | | | |
| for main contacts | | | | |
| | 2x (2.5 16 mm²) | | | |
| for main contacts | 2x (2.5 16 mm²) 2x (2,5 50 mm²), 1x (10 70 mm²) | | | |
| for main contacts — solid — solid or stranded | 2x (2,5 50 mm ²), 1x (10 70 mm ²) | | | |
| for main contacts — solid — solid or stranded — finely stranded with core end processing | 2x (2,5 50 mm²), 1x (10 70 mm²) 2x (2.5 35 mm²), 1x (2.5 50 mm²) | | | |
| for main contacts — solid — solid or stranded — finely stranded with core end processing — finely stranded without core end processing | 2x (2,5 50 mm ²), 1x (10 70 mm ²) | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections | 2x (2,5 50 mm²), 1x (10 70 mm²) 2x (2.5 35 mm²), 1x (2.5 50 mm²) | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing type of connectable conductor cross-sections for auxiliary contacts at AWG cables for auxiliary contacts | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing to auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug maximum tightening torque for main contacts with screw-type terminals | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm 4.5 6 N·m | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing total auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm 4.5 6 N·m 0.8 1.2 N·m | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm 4.5 6 N·m | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm 4.5 6 N·m 0.8 1.2 N·m | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm 4.5 6 N·m 0.8 1.2 N·m | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals of auxiliary contacts with screw-type terminals | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm 4.5 6 N·m 0.8 1.2 N·m | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of the thread of the connection screw of the auxiliary and control contacts B10 value | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm 4.5 6 N·m 0.8 1.2 N·m M3 | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of the thread of the connection screw of the auxiliary and control contacts B10 value with high demand rate according to SN 31920 | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm 4.5 6 N·m 0.8 1.2 N·m M3 | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals of the auxiliary and control contacts Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm 4.5 6 N·m 0.8 1.2 N·m M3 | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of the thread of the connection screw of the auxiliary and control contacts B10 value with high demand rate according to SN 31920 proportion of dangerous failures with low demand rate according to SN 31920 | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm 4.5 6 N·m 0.8 1.2 N·m M3 5 000 50 % | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of the thread of the connection screw of the auxiliary and control contacts Safety related data B10 value with high demand rate according to SN 31920 with low demand rate according to SN 31920 with high demand rate according to SN 31920 | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm 4.5 6 N·m 0.8 1.2 N·m M3 5 000 50 % 50 % | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of the thread of the connection screw of the auxiliary and control contacts Safety related data with high demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm 4.5 6 N·m 0.8 1.2 N·m M3 5 000 50 % 50 % 10 a IP20 | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing to auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of the thread of the connection screw of the auxiliary and control contacts Safety related data B10 value with high demand rate according to SN 31920 proportion of dangerous failures with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 60529 touch protection on the front according to IEC 60529 | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm 4.5 6 N·m 0.8 1.2 N·m M3 5 000 50 % 50 % 10 a IP20 finger-safe, for vertical contact from the front | | | |
| for main contacts solid solid or stranded finely stranded with core end processing finely stranded without core end processing type of connectable conductor cross-sections for auxiliary contacts finely stranded with core end processing at AWG cables for auxiliary contacts tightening torque for main contacts for ring cable lug outer diameter of the usable ring cable lug maximum tightening torque for main contacts with screw-type terminals for auxiliary contacts with screw-type terminals design of the thread of the connection screw of the auxiliary and control contacts Safety related data with high demand rate according to SN 31920 with high demand rate according to SN 31920 with high demand rate according to SN 31920 T1 value for proof test interval or service life according to IEC 61508 protection class IP on the front according to IEC 60529 | 2x (2,5 50 mm ²), 1x (10 70 mm ²) 2x (2.5 35 mm ²), 1x (2.5 50 mm ²) 2x (10 35 mm ²), 1x (10 50 mm ²) 2x (0.5 1.5 mm ²), 2x (0.75 2.5 mm ²) 2x (20 16), 2x (18 14) 4.5 6 N·m 19 mm 4.5 6 N·m 0.8 1.2 N·m M3 5 000 50 % 50 % 10 a IP20 | | | |

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| General Product A | pproval | | | | Declaration of Conformity |
|------------------------------|-------------------------------|--|-------------------|---------------------|------------------------------|
| | <u>Confirmation</u> | | <u>KC</u> | EHC | UK CA |
| Declaration of Conformity | Test Certificates | | Marine / Shipping | | |
| CE EG-Konf. | Special Test Certific- ate | <u>Type Test Certific-</u> ates/Test Report | ABS | BUREAU VERITAS | |
| Marine / Shipping | | | | other | |
| Llovd's Kegister urs | PRS | RINA | RMRS R | <u>Confirmation</u> | |
| Railway | | | | | |
| <u>Confirmation</u> | Vibration and Shock | | | | |

| 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=3RV2142-4RA10 |
| Cax online generator |
| http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2142-4RA10 |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,) |
| https://support.industry.siemens.com/cs/ww/en/ps/3RV2142-4RA10 |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,) |
| http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RV2142-4RA10⟨=en |
| Characteristic: Tripping characteristics, I ² t, Let-through current |
| https://support.industry.siemens.com/cs/ww/en/ps/3RV2142-4RA10/char |
| Further characteristics (e.g. electrical endurance, switching frequency) |
| http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2142-4RA10&objecttype=14&gridview=view1 |





last modified:

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