## **SIEMENS**

Data sheet 3RV1011-0HA10



Circuit breaker size S00 for motor protection, CLASS 10 A-release 0.55...0.8 A N-release 10 A Screw terminal Standard switching capacity

| product brand name  | SIRIUS               |
|---|----------------------|
| product designation   | Circuit breaker      |
| design of the product   | For motor protection |
| product type designation  | 3RV1                 |
| Seneral technical data  |                      |
| size of the circuit-breaker   | S00                  |
| size of contactor can be combined company-specific                                      | S00                  |
| product extension auxiliary switch  | Yes                  |
| power loss [W] for rated value of the current   |                      |
| at AC in hot operating state  | 5.5 W                |
| at AC in hot operating state per pole   | 1.8 W                |
| insulation voltage with degree of pollution 3 at AC rated value                         | 690 V                |
| surge voltage resistance rated value  | 6 kV                 |
| mechanical service life (operating cycles)  |                      |
| of the main contacts typical  | 100 000              |
| of auxiliary contacts typical   | 100 000              |
| electrical endurance (operating cycles) typical   | 100 000              |
| reference code according to IEC 81346-2   | Q                    |
| Substance Prohibitance (Date)   | 01/01/2013           |
| SVHC substance name   | Lead - 7439-92-1     |
| Weight  | 233 g                |
| mbient 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 %              |
| lain circuit  |                      |
| number of poles for main current circuit  | 3                    |
| adjustable current response value current of the current-<br>dependent overload release | 0.55 0.8 A           |
| type of voltage for main current circuit  | AC                   |
| 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   | 0.8 A                |

| <ul> <li>at AC-3 at 400 V rated value</li> </ul>  | 0.8 A  |
|---|--|
| at AC-3e at 400 V rated value   | 0.8 A  |
| operating power   |  |
| • at AC-3   |  |
| — at 230 V rated value  | 0.12 kW  |
| — at 400 V rated value  | 0.18 kW  |
| — at 500 V rated value  | 0.25 kW  |
| — at 690 V rated value  | 0.37 kW  |
| • at AC-3e  |  |
| — at 230 V rated value  | 0.12 kW  |
| — at 400 V rated value  | 0.18 kW  |
| — at 500 V rated value  | 0.25 kW  |
|   |  |
| — at 690 V rated value  | 0.37 kW  |
| operating frequency   | 45.40  |
| • at AC-3 maximum   | 15 1/h   |
| at AC-3e maximum  | 15 1/h   |
| Auxiliary circuit   |  |
| type of voltage for auxiliary and control circuit   | AC/DC  |
| number of NC contacts for auxiliary contacts  | 0  |
| number of NO contacts for auxiliary contacts  | 0  |
| number of CO contacts for auxiliary contacts  | 0  |
| Protective and monitoring functions   |  |
| product function  |  |
| <ul> <li>ground fault detection</li> </ul>  | No   |
| <ul> <li>phase failure detection</li> </ul>   | 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  | 100 kA   |
| at AC at 690 V rated value  | 100 kA   |
| operating short-circuit current breaking capacity (Ics) at AC   |  |
| • at 240 V rated value  | 100 kA   |
| at 400 V rated value  | 100 kA   |
| at 500 V rated value  | 100 kA   |
| at 690 V rated value     at 690 V rated value   | 100 kA   |
| response value current of instantaneous short-circuit trip unit   | 10 A   |
| UL/CSA ratings  | IUA  |
|   |  |
| full-load current (FLA) for 3-phase AC motor  | 0.0.4  |
| • at 480 V rated value  | 0.8 A  |
| at 600 V rated value  | 0.8 A  |
| 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  | page required  |
| • at 240 V  | none required  |
| • at 400 V  | None required  |
| • at 500 V  | gG 6 A   |
| • at 690 V  | gG 6 A   |
| Installation/ mounting/ dimensions  |  |
| mounting position   | any  |
| fastening method  | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| height  | 90 mm  |
| width   | 45 mm  |
| depth   | 75 mm  |
| required spacing  |  |
| • for grounded parts at 400 V   |  |
| — downwards   | 20 mm  |
| — upwards   | 20 mm  |
| April Annual Control of the Control |  |

| • for live parts all 400 V   |  |   |
|--|--|---|
| downwards  | — at the side  | 9 mm  |
| - upwards  | •  |   |
| at the side  | — downwards  | 20 mm   |
| • for grounded patis at 500 V  | — upwards  | 20 mm   |
| Commands at the side at the  | — at the side  | 9 mm  |
|  | <ul> <li>for grounded parts at 500 V</li> </ul>  |   |
| - at the side  | — downwards  | 20 mm   |
| • for live parts at 80 0V  — downwards — upwards — at the side — upwards — upwards — upwards — upwards — backwards — upwards — to regrounded parts at 800 V — downwards — at the side — for wards — to live parts at 800 V — downwards — to live parts at 800 V — downwards — to live parts at 800 V — downwards — upwards — omm — omm — of live parts at 800 V — downwards — omm — backwards — omm — omm — one upwards — one upwards — omm — one upwards — omm — one upwards  | — upwards  | 20 mm   |
| downwards upwards upwards at the side of orgrounded parts at 600 V downwards pupwards pupwards pupwards pupwards pupwards pupwards pupwards at the side pupwards at the side forwards of five parts at 600 V downwards of five parts at 600 V downwards pupwards pupw   | — at the side  | 9 mm  |
| upwards  | <ul> <li>for live parts at 500 V</li> </ul>  |   |
| ■ for grounded parts at 690 V  - downwards  - upwards  - backwards  - forwards  - forwards  - forwards  - forwards  - forwards  - forwards  - own  - downwards  - forwards  - own  - downwards  - pupwards  - pupwards  - pupwards  - pupwards  - pupwards  - man be ackwards  - man  - the side  - forwards  - own  - backwards  - own  - backwards  - own  - backwards  - own  - man  - ownerds  - own  - ownerds  - forwards  - own  - forwards  - own  - forwards  - forwards  - forwards  - forwards  - forwards  - forwards  - for main current circuit  - for main contacts  - solid or stranded  - fine's stranded with core end processing  - for awnificy contacts  - solid or stranded  - fine's stranded with core end processing  - for awnificy contacts  - solid or stranded  - fine's stranded  - for main contacts  - solid or stranded  - for main contacts  - solid or stranded  - fine's stranded  - for main contacts with screw-type terminals  - solid or stranded  - for awnificy contacts  - solid or stranded  - fine's stranded  - for main contacts with screw-type terminals  - solid or stranded  - for awnificy contacts  - solid or stranded  - fine's stran  | — downwards  | 20 mm   |
| • for grounded parts at 690 V  | — upwards  | 20 mm   |
| - downwards - upwards - upwards - backwards - at the side - forwards - for live parts at 690 V - downwards - upwards | — at the side  | 9 mm  |
| - upwards - backwards 0 mm 9 m   | <ul> <li>for grounded parts at 690 V</li> </ul>  |   |
| - backwards - at the side - for wards • for live parts at 690 V - downwards - upwards - backwards - upwards - backwards - on the side - howards - on the side - for main current tricuit - solid or stranded - finely stranded with core and processing - for auxiliary contacts - solid or stranded - finely stranded with core and processing - solid or stranded - finely stranded with core and processing - solid or stranded - finely stranded with core whype terminals - for auxiliary contacts - solid or stranded - for auxiliary contacts - for auxiliary contacts with screw-type terminals - for main contacts - solid or stranded - for main contacts - with screw-type terminals - for auxiliary contacts with screw-type terminals - for main contacts - for main current -  | — downwards  | 20 mm   |
| - at the side - forwards - forwar | — upwards  | 20 mm   |
| - forwards • for live parts at 690 V - downwards - upwards - upwards - backwards - at the side - of main current circuit  type of electrical connection • for main current circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts - solid or stranded - finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts - solid or stranded - solid or stranded - solid or stranded - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts with screw-type terminals - solid or stranded - for main contacts - solid or stranded - so | — backwards  | 0 mm  |
| of rive parts at 690 V     onwards     outwards     one parts     o      | — at the side  | 9 mm  |
| of rive parts at 690 V     onwards     outwards     one parts     o      |  |   |
| - downwards 20 mm 20 mm 30 mm  |  |   |
| - upwards - backwards - at the side - forwards - omm - at the side - forwards - omm - forwards - omm - forwards - omm - for main current circuit - for main current circuit - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - solid or stranded - solid  | •  | 20 mm   |
|  |  |   |
| at the side — forwards 0 mm  Connections/ Terminals  type of electrical connection • for main current oricuit screw-type terminals arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections • for main contacts solid or stranded finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts solid or stranded finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts solid or stranded solid or solid  | ·  |   |
| Connections/ Terminals  type of electrical connection  • for main current circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)  type of connectable conductor cross-sections  • for auxiliary contacts — solid or stranded — finely stranded • for auxiliary contacts — solid or stranded • for auxiliary contacts — solid or stranded • for finely stranded • for auxiliary contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for main contacts with screw-type terminals • for auxiliary contacts • for main contacts with screw-type terminals • for auxiliary contacts • for main contacts with screw-type terminals • for auxiliary contacts • for main contacts with screw-type terminals • for auxiliary contacts • for main conta             |  |   |
| type of electrical connection  • for main current circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing type of connectable conductor cross-sections  • for auxiliary contacts — solid or stranded — solid or stranded — solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x (1 4 mm²)  type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded tightening torque • for main contacts with screw-type terminals of an auxiliary contacts with screw-type terminals design of screwdriver shaft size of the screwdriver shaft size of the screwdriver tip design of the thread of the connection screw • for main contacts  Safety related data product function suitable for safety function suitability for use • safety-related switching on • safety-related switching OFF Yes service life maximum 10 a test wear-related service life necessary proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 SO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary Yes   |  |   |
| type of electrical connection  • for main current circuit  type of connectable conductor cross-sections  • for main contacts  - solid or stranded  - finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded  - finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  type of connectable conductor cross-sections  • for auxiliary contacts  - solid or stranded  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  tightening torque  • for main contacts with screw-type terminals  • for auxiliary contacts                 |  | O THIN  |
| • for main current circuit  arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts — solid or stranded — solid or stranded — finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts — solid or stranded  tightening torque  • for main contacts with screw-type terminals — of or auxiliary contacts with screw-type terminals — for auxiliary contacts with screw-type terminals — solid or screwdriver tip — 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 — of or main contacts  M3  Safety related data  product function suitable for safety function  yes  suitability for use — safety-related switching on — safety-related switching OFF — yes  service life maximum — to a  test wear-related service life necessary — yes  proportion of dangerous failures — with low demand rate according to SN 31920 — with high demand rate according to SN 31920 — with high demand rate according to SN 31920  • with high demand rate according to SN 31920  10 SO 13849  device type according to ISO 13849-1  group of connectable conductor cross-sections  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²) 2x (0,75 2,5 mm²), 2x (1 4 mm²)  2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)  2   |  |   |
| arrangement of electrical connectors for main current circuit  type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing  type of connectable conductor cross-sections  • for auxiliary contacts — solid or stranded  • for auxiliary contacts — solid or stranded  tightening torque • for main contacts with screw-type terminals • for auxiliary contacts • for main contacts  **Ma** **Safety relacted data*  **product function suitable for safety function • safety-related switching on • safety-related switching on • safety-related switching on • safety-related switching of F  **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 • with high demand rate according to SN 31920 • with high demand rate according to SN 31920  **with high demand rate according to SN 31920  **with high demand rate according to SN 31920  **with high demand rate ac |  | corou typo terminale                              |
| type of connectable conductor cross-sections  • for main contacts  — solid or stranded — finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded  • for auxiliary contacts — solid or stranded  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts  ### Diameter 5 to 6 mm  ### Diameter 5 to 6 mm  ### Start of the screw-type terminals  ### Diameter 5 to 6 mm  ### Start of the screw-type terminals  ### Diameter 5 to 6 mm  ### Start of the screw-type terminals  ### Diameter 5 to 6 mm  ### Start of the screw-type terminals  ### Diameter 5 to 6 mm  ### Start of the screw-type terminals  ### Diameter 5 to 6 mm  ### Start of the screw-type terminals  ### Diameter 5 to 6 mm  ### Start of the screw-type terminals  ### Diameter 5 to 6 mm  ### Start of the screw-type terminals  ### Diameter 5 to 6 mm  ### Start o |  |   |
| • for main contacts  — solid or stranded — finely stranded with core end processing  type of connectable conductor cross-sections • for auxiliary contacts — solid or stranded  **To main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals • for main contacts with screw-type terminals  **Safety related data**  product function suitable for safety function  **safety-related switching on • safety-related switching on • safety-related switching OFF  **yes  **sarvice life maximum  10 a  test wear-related service life necessary  proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  for FIT  **To SN 31920  SO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  Yes   |  | TOP AND DOLLOTTI                                  |
| - solid or stranded - finely stranded with core end processing  type of connectable conductor cross-sections  of or auxiliary contacts - solid or stranded  of or auxiliary contacts - solid or stranded  tightening torque of or main contacts with screw-type terminals of or auxiliary contacts with screw-type terminals of the screwdriver shaft planeter's to 6 mm size of the screwdriver tip poladriv size 2  design of the thread of the connection screw of or main contacts  Safety related data product function suitable for safety function suitability for use o safety-related switching on safety-related switching OFF  yes service life maximum 10 a test wear-related service life necessary yes  proportion of dangerous failures owith low demand rate according to SN 31920 with high demand rate according to SN 31920 owith high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-2 necessary Yes  | type of connectable conductor cross-sections   |   |
| type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  tightening torque  • for main contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • servement of the screwdriver shaft  size of the screwdriver shaft  size of the screwdriver tip  Pozidriv size 2  design of the thread of the connection screw  • for main contacts  M3  Safety related data  product function suitable for safety function  • safety-related switching on  • 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  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  for the screw of the s | • for main contacts  |   |
| type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  tightening torque  • for main contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • servement of the screwdriver shaft  size of the screwdriver shaft  size of the screwdriver tip  Pozidriv size 2  design of the thread of the connection screw  • for main contacts  M3  Safety related data  product function suitable for safety function  • safety-related switching on  • 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  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  for the screw of the s | — solid or stranded  | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x (1 4 mm²) |
| type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded  2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  tightening torque  • for main contacts with screw-type terminals  • for auxiliary contacts  • pozidriv size 2  design of the thread of the connection screw  • for main contacts  M3  Safety related data  product function suitable for safety function  Yes  suitability for use  • safety-related switching on  • safety-related switching or  • 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  • with high demand rate according to SN 31920  • with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  device type according to ISO 13849-1  3  overdimensioning according to ISO 13849-2 necessary  | <ul> <li>finely stranded with core end processing</li> </ul>                                       | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)               |
| • for auxiliary contacts — solid or stranded 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  tightening torque • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals 0.8 1.2 N·m  design of screwdriver shaft plameter 5 to 6 mm  size of the screwdriver tip Pozidriv size 2  design of the thread of the connection screw • for main contacts  M3  Safety related data  product function suitable for safety function safety-related switching on • safety-related switching of F  service life maximum 10 a  test wear-related service life necessary Proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920 50 %  B10 value with high demand rate according to SN 31920 failure rate [FiT] with low demand rate according to SN 31920 failure rate [FiT] with low demand rate according to SN 31920 failure rate [FiT] with low demand rate according to SN 31920 device type according to ISO 13849-1 device type according to ISO 13849-2 necessary Yes   |  |   |
| tightening torque  • for main contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  • for auxiliary contacts with screw-type terminals  design of screwdriver shaft  size of the screwdriver tip  pozidriv size 2  design of the thread of the connection screw  • for main contacts  M3  Safety related data  product function suitable for safety function  safety-related switching on  • safety-related switching OFF  yes  service life maximum  test wear-related service life necessary  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  suitability read to suit the service life necessary  • with high demand rate according to SN 31920  suith high demand rate according to SN 31920  failure rate [FiT] with low demand rate according to SN 31920  failure rate [FiT] with low demand rate according to SN 31920  failure rate [FiT] with low demand rate according to SN 31920  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  Yes   |  |   |
| tightening torque  • for main contacts with screw-type terminals • for auxiliary contacts with screw-type terminals 0.8 1.2 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 M3  Safety related data  product function suitable for safety function yes suitability for use • safety-related switching on • safety-related switching OFF Yes service life maximum 10 a  test wear-related service life necessary yres proportion of dangerous failures • with low demand rate according to SN 31920 • with high demand rate according to SN 31920  50 W  B10 value with high demand rate according to SN 31920  Failure rate [FIT] with low demand rate according to SN 31920  ISO 13849 device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary Yes  | •  | 2x (0.5 1.5 mm²). 2x (0.75 2.5 mm²)               |
| • for main contacts with screw-type terminals     • for auxiliary contacts with screw-type terminals     • for auxiliary contacts with screw-type terminals     design of screwdriver shaft     size of the screwdriver tip     Pozidriv size 2  design of the thread of the connection screw     • for main contacts     M3  Safety related data  product function suitable for safety function     suitability for use     • safety-related switching on     • safety-related switching OFF     Yes  service life maximum     10 a  test wear-related service life necessary     Proportion of dangerous failures     • with low demand rate according to SN 31920     • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  Yes  |  |   |
| • for auxiliary contacts with screw-type terminals  design of screwdriver shaft  plaineter 5 to 6 mm  size of the screwdriver tip  design of the thread of the connection screw     • for main contacts  M3  Safety related data  product function suitable for safety function  safety-related switching on     • safety-related switching OFF  service life maximum  10 a  test wear-related service life necessary  proportion of dangerous failures     • with low demand rate according to SN 31920     • with high demand rate according to SN 31920  suitability for use  10 o      |  | 0.8 1.2 N·m                                       |
| design of screwdriver shaft size of the screwdriver tip Pozidriv size 2  design of the thread of the connection screw  | J.   |   |
| size of the screwdriver tip  design of the thread of the connection screw  ofor main contacts  M3  Safety related data  product function suitable for safety function  Yes  suitability for use of safety-related switching on safety-related switching OFF Yes  service life maximum 10 a  test wear-related service life necessary  proportion of dangerous failures of with low demand rate according to SN 31920 of with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary  M3  Yes  M3  M3  M3  M3  M4  M5  M5  M5  M5  M5  M5  M5  M5  M5  |  |   |
| design of the thread of the connection screw  • for main contacts  Safety related data  product function suitable for safety function  suitability for use  • safety-related switching on • safety-related switching OFF  service life maximum  10 a  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  So 00  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  M3  Yes  M3  A  M6  A  B  M3  A  M6  A  A  A  A  A  A  A  A  A  A  A  A  A  |  |   |
| • for main contacts  Safety related data  product function suitable for safety function  suitability for use  • safety-related switching on • safety-related switching OFF  yes  service life maximum  10 a  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  50 %  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  Yes  | ·  | 1 OZIGITY SIZO Z                                  |
| product function suitable for safety function  product function suitable for safety function  suitability for use  • safety-related switching on  • safety-related switching OFF  Yes  service life maximum  10 a  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  50 %  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  Yes  | -  | M3  |
| product function suitable for safety function  suitability for use  • safety-related switching on  • safety-related switching OFF  Yes  service life maximum  10 a  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  50 %  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  Yes   |  | IIIO  |
| suitability for use  • safety-related switching on  • safety-related switching OFF  Yes  service life maximum  10 a  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  50 %  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  Yes  |  | Voc   |
| <ul> <li>safety-related switching on</li> <li>safety-related switching OFF</li> <li>Yes</li> <li>service life maximum</li> <li>10 a</li> <li>test wear-related service life necessary</li> <li>proportion of dangerous failures</li> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>so with high demand rate according to SN 31920</li> <li>Failure rate [FIT] with low demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> </ul>  |  |   |
| safety-related switching OFF     service life maximum     10 a  test wear-related service life necessary     Yes  proportion of dangerous failures     • with low demand rate according to SN 31920     • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  Yes   | -  | Na  |
| service life maximum  test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  10 a  10  | -  |   |
| test wear-related service life necessary  proportion of dangerous failures  • with low demand rate according to SN 31920  • with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  Yes   | · · · · · · · · · · · · · · · · · · ·  |   |
| proportion of dangerous failures  ● with low demand rate according to SN 31920 40 %  ● with high demand rate according to SN 31920 50 %  B10 value with high demand rate according to SN 31920 5 000  failure rate [FIT] with low demand rate according to SN 31920 50 FIT 31920  ISO 13849  device type according to ISO 13849-1 3  overdimensioning according to ISO 13849-2 necessary Yes   |  |   |
| <ul> <li>with low demand rate according to SN 31920</li> <li>with high demand rate according to SN 31920</li> <li>B10 value with high demand rate according to SN 31920</li> <li>failure rate [FIT] with low demand rate according to SN 31920</li> <li>ISO 13849</li> <li>device type according to ISO 13849-1</li> <li>overdimensioning according to ISO 13849-2 necessary</li> <li>Yes</li> </ul>   | ·  | Yes   |
| with high demand rate according to SN 31920  B10 value with high demand rate according to SN 31920  failure rate [FIT] with low demand rate according to SN 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  50 %  50 %  50 FIT  31  32  50 %  |  | 40.07   |
| B10 value with high demand rate according to SN 31920 5 000  failure rate [FIT] with low demand rate according to SN 31920 50 FIT 31920  ISO 13849  device type according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary Yes   | -  |   |
| failure rate [FIT] with low demand rate according to SN 31920  ISO 13849 device type according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary Yes  |  |   |
| 31920 ISO 13849 device type according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary Yes   |  |   |
| device type according to ISO 13849-1 3 overdimensioning according to ISO 13849-2 necessary Yes   |  | 50 FIT  |
| overdimensioning according to ISO 13849-2 necessary  Yes   |  |   |
|  | ISO 13849  |   |
| IFC 64500  | ISO 13849<br>device type according to ISO 13849-1  |   |
| IEC 61508  | ISO 13849 device type according to ISO 13849-1 overdimensioning according to ISO 13849-2 necessary |   |

| safety device type according to IEC 61508-2             | Type 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   |  |
| display version for switching status                    | Rocker switch                                    |
| Approvals Certificates                                  |  |
| General Product Approval                                |  |









<u>KC</u>



General Product Approval

For use in hazardous locations

**Test Certificates** 

Marine / Shipping

**BIS CRS** 





Type Test Certificates/Test Report

Special Test Certificate



## Marine / Shipping













other

Railway Environment

**Miscellaneous** 

Confirmation



Special Test Certificate 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=3RV1011-0HA10

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RV1011-0HA10}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0HA10

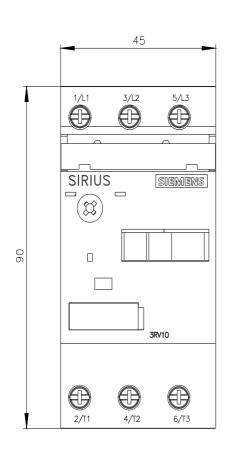
 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ 

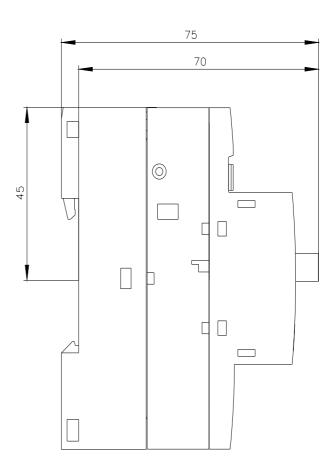
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV1011-0HA10&lang=en

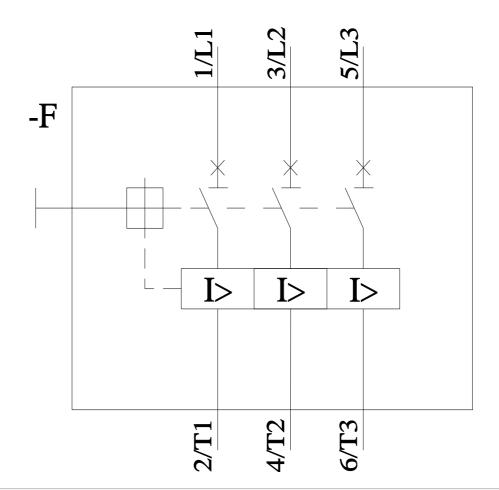
Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RV1011-0HA10/char Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV1011-0HA10&objecttype=14&gridview=view1







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