## **SIEMENS**

3RV2711-0CD10 **Data sheet** 





Circuit breaker size S00 for system protection with approval circuit breaker UL 489, CSA C22.2 No.5-02 A-release 0.25 A N-release 3.3 A screw terminal Standard



| product brand name  | SIRIUS  |
|---|---|
| product designation   | Circuit breaker   |
| design of the product   | For system protection according to UL 489/CSA C22.2 No. 5 |
| product type designation  | 3RV2  |
| General technical data  |   |
| size of the circuit-breaker                                     | S00   |
| product extension auxiliary switch                              | Yes   |
| power loss [W] for rated value of the current                   |   |
| <ul> <li>at AC in hot operating state</li> </ul>                | 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  |
| shock resistance according to IEC 60068-2-27                    | 25 g / 11 ms (rectangular impulse and sine pulse)         |
| mechanical service life (operating cycles)                      |   |
| <ul> <li>of the main contacts typical</li> </ul>                | 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)                                   | 10/01/2009  |
| SVHC substance name   | Lead - 7439-92-1  |
| Weight  | 0.425 kg  |
| Ambient conditions  |   |
| installation altitude at height above sea level maximum         | 2 000 m   |
| ambient temperature   |   |
| <ul> <li>during operation</li> </ul>                            | -20 +60 °C  |
| <ul> <li>during storage</li> </ul>                              | -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                                 | 0.25 A  |
| operational current   |   |

| • at AC-3 at 400 V rated value                                      | 0.25 A   |
|---|--|
| at AC-3e at 400 V rated value                                       | 0.25 A   |
| operating power   |  |
| • at AC-3   |  |
| — at 230 V rated value  | 0 kW   |
| — at 400 V rated value  | 0.1 kW   |
| — at 500 V rated value  | 0.1 kW   |
| — at 690 V rated value  | 0.1 kW   |
| • at AC-3e  |  |
| — at 230 V rated value  | 0 kW   |
| — at 400 V rated value  | 0.1 kW   |
| — at 500 V rated value  | 0.1 kW   |
| — at 690 V rated value  | 0.1 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   | No   |
| 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   |
| • at 480 AC Y/277 V according to UL 489 rated value                 | 65 kA  |
| operating short-circuit current breaking capacity (lcs) 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  | 100 kA   |
| response value current of instantaneous short-circuit trip unit     | 3.3 A  |
| Short-circuit protection  |  |
| product function short circuit protection                           | Yes  |
| design of the short-circuit trip                                    | magnetic   |
| Installation/ mounting/ dimensions                                  |  |
| mounting position   | any  |
| fastening method  | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715 |
| height  | 144 mm   |
| width   | 45 mm  |
| depth   | 97 mm  |
| required spacing  |  |
| <ul> <li>for grounded parts at 400 V</li> </ul>                     |  |
| — downwards   | 30 mm  |
| — upwards   | 30 mm  |
| — at the side   | 30 mm  |
| <ul> <li>for live parts at 400 V</li> </ul>                         |  |
| — downwards   | 30 mm  |
| — upwards   | 30 mm  |
| — at the side   | 30 mm  |
| <ul> <li>for grounded parts at 500 V</li> </ul>                     |  |
| — downwards   | 30 mm  |
| — upwards   | 30 mm  |
| — at the side   | 30 mm  |
| <ul> <li>for live parts at 500 V</li> </ul>                         |  |
| — downwards   | 30 mm  |
| — upwards   | 30 mm  |
|   |  |
| — at the side   | 30 mm  |
| <ul><li>— at the side</li><li>for grounded parts at 690 V</li></ul> |  |

| - upwards 70 mm   - backwards 0 mm   - at the side 30 mm   - forwards 0 mm   • for live parts at 690 V   - downwards 70 mm   - upwards 70 mm   - backwards 0 mm   - backwards 0 mm   - backwards 0 mm   - man   - man   - forwards 0 mm   - forwards 0 mm   - forwards 0 mm   - forwards 0 mm   - formards 0 mm    Connections/ Terminals  type of electrical connection   • for main current circuit screw-type terminals   - arrangement of electrical connectors for main current circuit type of connectable conductor cross-sections • for main contacts   - solid or stranded  | dayyayada   | 70   |
|--|---|--|
| - backwards  | — downwards   | 70 mm  |
| - at the aide  | •   |  |
| - for live parts at 690 V - downwards 70 mm - upwards 70 mm - backwards 90 mm - at the side 90 mm - at the side 90 mm - for words 90 mm - at the side 90 mm - for man contacts 10 mm - for man contacts 10 mm - for man contacts 10 mm - finely stranded with core ond processing 1 10 mm², max. 2x 10 mm² - finely stranded with core ond processing 1 10 mm², max. 2x 10 mm² - finely stranded with core ond processing 2x 1 10 mm², max. 2x 10 mm² - finely stranded with core ond processing 2x 1 10 mm², max. 2x 10 mm² - finely stranded with core ond processing 2x 1 10 mm², max. 2x 10 mm² - finely stranded 1 10 mm², max. 2x 10 mm² - finely stranded 1 10 mm², max. 2x 10 mm² - finely stranded 1 10 mm², max. 2x 10 mm² - finely stranded with core ond processing 2x 1 10 mm², max. 2x 10 mm² - for man contacts 4 10 mm², max. 2x 10 mm² - for man contacts 4 10 mm², max. 2x 10 mm² - for man contacts 4 10 mm², max. 2x 10 mm² - for man contacts 5 10 mm², max. 2x 10 mm² - for man contacts 5 10 mm², max. 2x 10 mm² - for man contacts 5 10 mm², max. 2x 10 mm² - for man contacts 6 10 mm², max. 2x 10 mm² - for man contacts 6 10 mm², max. 2x 10 mm² - for man contacts 6 10 mm², max. 2x 10 mm² - for man contacts 7 10 mm², max. 2x 10 mm² - for man contacts 7 10 mm², max. 2x 10 mm² - for man contacts 8 10 mm² - for man contacts 8 10 mm² - for man contacts 8 10 mm² - for man contacts 9 10 mm² - for ma   |   |  |
| • for live parts at 690 V     — downwards     — upwards     — upwards     — backwards     — at the side     — 30 mm     — forwards     — forwards     — forwards     — ommediate the side     — at the side     — 30 mm     — forwards     — forwards  Connections I Terminals  Uppe of clonection       • for main current circuit     — sold or stranded     — sold or stranded     — sold or stranded     — for ward stranded     — for ward stranded     — for yet stranded with core end processing     — sold or stranded     — for yet stranded with core end processing     — for final contacts     — sold or stranded     — for yet stranded with core end processing     — for final contacts     — sold or stranded     — for yet stranded with core end processing     — for final contacts     — sold or stranded     — for yet stranded with core wypo terminals     — for final contacts     — sold or stranded stranded     — for yet stranded with core end processing     — for main contacts     — for main contacts     — for final contacts     — for main contacts     — f      |   |  |
| - downwards - upwards - backwards - backwards - at the side - at the side - forwards - forwards - forwards - forwards - forwards - forwards - forman current circuit - forwards - for main current circuit - forwards - for main contacts - solid or stranded - finely stranded with core and processing - for AWG cables for main contacts - solid or stranded - finely stranded with scree-type terminals - for main contacts - for main | — forwards  | 0 mm   |
| - upwards  | <ul> <li>for live parts at 690 V</li> </ul>                     |  |
| backwards at the side 30 mm at the side 50 mm 50   | — downwards   | 70 mm  |
| at the side   0 mm      | — upwards   | 70 mm  |
| Connections/ Terminals  Vippo of electrical connectors  of main current circuit  arrangement of electrical connectors for main current circuit  Vippo of connectable conductor cross-sections  of main contacts  — solid or stranded — finely stranded with core end processing  of for AWG cables for main contacts  of main contacts with screw-type terminals  of main contacts  of main contacts  of main contacts  of main contacts  Ma  Safety-related of the connection screw  of main contacts  of main contacts  with low demand rate according to SN 31920  of with low demand rate according to SN 31920  of with high demand rate according to SN 31920  of with high demand rate according to SN 31920  of with low demand rate according to SN 31920  of with high demand rate according to SN 31920  of with low demand rate according to SN 31920  of wordlimensioning according to ISO 13849-1  of proof test interval or service life according to IEC 61508  safety device type according to IEC 615082  In your control of the front according to IEC 60529  Display  protection on the front according to IEC 60529  Display  protection on the front according to IEC 60529  Display  Display  protection on the front according to IEC 60529  Display  Display  Display  Control of the main and the contact from the front  Display version for switching status  Approvals Certificates   | — backwards   | 0 mm   |
| type of electrical connection  of or main current circuit  type of connectable conductor cross-sections  of or main contacts  — solid or stranded — finely stranded with core end processing  of na AWG cables for main contacts  **To main contacts  — finely stranded with core end processing  of na AWG cables for main contacts  **To main contacts   | — at the side   | 30 mm  |
| type of electrical connection  | — forwards  | 0 mm   |
| • for main current circuit     arrangement of electrical connectors for main current circuit     type of connectable conductor cross-sections     • for for main contacts  | Connections/ 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 • for AWG cables for main contacts  • for AWG cables for main contacts  • for faw in contacts with screw-type terminals  • for faw in contacts with screw-type terminals  design of screwdriver tip  design of screwdriver tip  pozidirv size 2  design of the thread of the connection screw • for main contacts  • safety-related switching on  • safety-related switching on  • safety-related switching on  • safety-related switching or Fores  • safety-related switching or Fores  • 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 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 low demand rate according to SN 31920  • with low demand rate according to SN 31920  • with low demand rate according to SN 31920  • with low demand rate according to SN 31920  • with low demand rate according to SN 31920  • with low demand rate according to SN 31920  • with low demand rate according to SN 31920  • with low demand rate according to SN 31920  • with low demand rate according to SN 31920  • with low demand rate according to SN 31920  • with low demand rate according to SN 31920  • wit | type of electrical connection                                   |  |
| circuit type of connectable conductor cross-sections  • for main contacts  — solid or stranded — Inely stranded with core end processing • for AWG cables for main contacts  • for AWG cables for main contacts  • for AWG cables for main contacts  2x (14 10)  tightening torque • for main contacts with screw-type terminals  25 3 N·m  design of screwdriver shaft size of the screwdriver tip  design of the thread of the connection screw • for main contacts  8M4  Safety related data  product function suitable for safety function  valuability for use • safety-related switching on • safety-related switching OFF  ves  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 with high demand rate according to SN 31920  so with high demand rate according to SN 31920  so with high demand rate according to SN 31920  so verdimensioning according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary ISO 13849  device type according to ISO 13849-2 necessary ISO 15849  device type according to ISO 13849-2 necessary ISO 15849  electrical Safety  rotection class IP on the front according to IEC 65529  IP20  touch protection on the front according to IEC 65529  Ippopovals Certificates  Handle  Approvals Certificates  | for main current circuit  | screw-type terminals                             |
| olid or stranded   |   | Top and bottom                                   |
| solid or stranded finely stranded with core end processing for AWG cables for main contacts  tightening torque for main contacts with screw-type terminals for main contacts with screw-type terminals design of screwdriver shaft size of the screwdriver tip design of the thread of the connection screw for main contacts for main contacts for main contacts MA  MA  MA  Safety related data  product function suitable for safety function safety-related switching on safety-related switching OFF yes sarety-related switching OFF yes sarety-related switching OFF 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 safety-related with high demand rate according to SN 31920 safety-related switching on 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 safety-related switching on SN 31920 safety-related switching on 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 safety device type according to ISO 13849-2 necessary yes   | type of connectable conductor cross-sections                    |  |
| • finely stranded with core end processing • for AWG cables for main contacts 2x (14 10)  tightening torque • for main contacts with screw-type terminals 25 3 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 Afety related data  product function suitable for safety function  safety-related switching on • safety-related switching on • safety-related switching OFF  service life maximum 10 a  test wear-related service life necessary • 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 failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according         | <ul> <li>for main contacts</li> </ul>                           |  |
| • for AWG cables for main contacts     19  | — solid or stranded   | 1 10 mm², max. 2x 10 mm²                         |
| tightening torque  • for main contacts with screw-type terminals  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  Affect related data  product function suitable for safety function  safety-related switching on  • safety-related switching of Pes  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  • 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 according to SN 31920  • Ves  SI 10 value with high demand rate according to SN 31920  SI 31920  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  FEC 61508  safety device type according to IEC 61508-2  Type A  Ti value  • for proof test interval or service life according to IEC  • for proof test interval or service life according to IEC  • for proof test interval or service life according to IEC  finds  Electrical Safety  protection class IP on the front according to IEC 60529  Display  display version for switching status  Handle  Approvals Certificates   | <ul> <li>finely stranded with core end processing</li> </ul>    | 1 16 mm², max. 6 + 16 mm²                        |
| e for main contacts with screw-type terminals  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  M4  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 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  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  failure rate [FIT] with low demand rate according to SN 31920  failure rate [FIT] with low demand rate according to ISO 13849-2 necessary  Yes  IEC 61508  safety device type according to IEC 61508-2  Type A  Type | <ul> <li>for AWG cables for main contacts</li> </ul>            | 2x (14 10)                                       |
| design of screwdriver shaft size of the screwdriver tip Pozidriv size 2  design of the thread of the connection screw of main contacts  M4  Safety related data  product function suitable for safety function Safety-related switching on safety-related switching on safety-related switching OFF Yes Service life maximum 10 a  tost wear-related service life necessary reproportion 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 sith high demand rate according to SN 31920 failure rate [FIT] with low demand rate accord | tightening torque   |  |
| size of the screwdriver tip  design of the thread of the connection screw  • for main contacts  M4  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  • 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  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  T value  • for proof test interval or service life according to IEC 60529  protection class IP on the front according to IEC 60529  finger-safe, for vertical contact from the front  Display  display version for switching status  Handle  Approvals Certificates   | <ul> <li>for main contacts with screw-type terminals</li> </ul> | 2.5 3 N·m  |
| design of the thread of the connection screw   | design of screwdriver shaft                                     | Diameter 5 to 6 mm                               |
| • 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  test wear-related service life necessary  proportion of dangerous fallures  • 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  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  IEC 61508  safety device type according to IEC 61508-2  T1 value  • for proof test interval or service life according to IEC 61508  Electrical Safety  protection class IP on the front according to IEC 60529  Display  display version for switching status  Handle  Approvals Certificates   | size of the screwdriver tip                                     | Pozidriv size 2                                  |
| 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  IEC 61508  safety device type according to IEC 61508-2  T1 value  • for proof test interval or service life according to IEC 61508  Electrical Safety  protection class IP on the front according to IEC 60529  Display  display version for switching status  Handle  Approvals Certificates  | design of the thread of the connection screw                    |  |
| product function suitable for safety function  suitability for use  • safety-related switching on  • safety-related switching OFF  Yes  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  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  averdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  T1 value  • for proof test interval or service life according to IEC  61508  Electrical Safety  protection class IP on the front according to IEC 60529  finger-safe, for vertical contact from the front  Display  display version for switching status  Handle  Approvals Certificates  | <ul> <li>for main contacts</li> </ul>                           | M4   |
| suitability for use  • safety-related switching on  • safety-related switching OFF  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  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  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A  T1 value  • for proof test interval or service life according to IEC 61508  Electrical Safety  protection class IP on the front according to IEC 60529  Display  display version for switching status  Handle  Approvals Certificates  | Safety related data   |  |
| 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     so 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  IEC 61508  safety device type according to IEC 61508-2  T1 value     for proof test interval or service life according to IEC 61508  Electrical Safety  protection class IP on the front according to IEC 60529  Display  display version for switching status  Handle  Approvals Certificates  | product function suitable for safety function                   | Yes  |
| 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     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  IEC 61508  safety device type according to IEC 61508-2  T1 value     • for proof test interval or service life according to IEC     61508  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  Display  display version for switching status  Handle  Approvals Certificates  | suitability for use   |  |
| 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  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  ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A  T1 value  for proof test interval or service life according to IEC  61508  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  finger-safe, for vertical contact from the front  Display  display version for switching status  Approvals Certificates   | <ul> <li>safety-related switching on</li> </ul>                 | No   |
| 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 3 overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2 T1 value • for proof test interval or service life according to IEC 61508 Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display version for switching status  Approvals Certificates  40 %  4 | <ul> <li>safety-related switching OFF</li> </ul>                | Yes  |
| 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  IEC 61508  safety device type according to IEC 61508-2  T1 value  • for proof test interval or service life according to IEC 61508  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  display version for switching status  Approvals Certificates  | service life maximum  | 10 a   |
| 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  IEC 61508  safety device type according to IEC 61508-2  T1 value  • for proof test interval or service life according to IEC 61508  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  display version for switching status  Approvals Certificates  40 %  50 %  50 %  50 N  50 FIT  3  3  40 %  50 %  50 N  50 PIT  3  40 A  50 PIT  3  40 A  50 PIT  41 A  50 PIT       | test wear-related service life necessary                        | 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  IEC 61508  safety device type according to IEC 61508-2  T1 value  • for proof test interval or service life according to IEC 61508  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  display version for switching status  Approvals Certificates  50 %  50 %  50 FIT  10 a  | proportion of dangerous failures                                |  |
| 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  IEC 61508  safety device type according to IEC 61508-2  Type A  T1 value  • for proof test interval or service life according to IEC 61508  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  display  display version for switching status  Handle  Approvals Certificates  | <ul> <li>with low demand rate according to SN 31920</li> </ul>  | 40 %   |
| 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  IEC 61508  safety device type according to IEC 61508-2 Type A  T1 value  • for proof test interval or service life according to IEC 61508  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 Handle  Approvals Certificates  | <ul> <li>with high demand rate according to SN 31920</li> </ul> | 50 %   |
| ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A  T1 value  • for proof test interval or service life according to IEC 61508  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  display  display version for switching status  Handle  Approvals Certificates  | B10 value with high demand rate according to SN 31920           | 5 000  |
| ISO 13849  device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A  T1 value  • for proof test interval or service life according to IEC 61508  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  display  display version for switching status  Handle  Approvals Certificates  |   | 50 FIT   |
| device type according to ISO 13849-1  overdimensioning according to ISO 13849-2 necessary  IEC 61508  safety device type according to IEC 61508-2  Type A  T1 value  • for proof test interval or service life according to IEC 61508  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  display version for switching status  Approvals Certificates  |   |  |
| overdimensioning according to ISO 13849-2 necessary IEC 61508 safety device type according to IEC 61508-2 T1 value  • for proof test interval or service life according to IEC 61508  Electrical Safety protection class IP on the front according to IEC 60529 touch protection on the front according to IEC 60529 display display version for switching status  Approvals Certificates  |   |  |
| safety device type according to IEC 61508-2  Type A  T1 value  • for proof test interval or service life according to IEC 61508  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  display version for switching status  Approvals Certificates  |   |  |
| safety device type according to IEC 61508-2  Type A  To value  ● for proof test interval or service life according to IEC 61508  Electrical Safety  protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  Display  display version for switching status  Approvals Certificates   |   | Yes  |
| T1 value  ● for proof test interval or service life according to IEC 61508  Electrical Safety protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  finger-safe, for vertical contact from the front  Display  display version for switching status  Handle  Approvals Certificates   |   |  |
| for proof test interval or service life according to IEC 61508  Electrical Safety protection class IP on the front according to IEC 60529  touch protection on the front according to IEC 60529  finger-safe, for vertical contact from the front  Display  display version for switching status  Approvals Certificates  10 a  10 a  Handle   |   | 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 Handle  Approvals Certificates  |   |  |
| 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 Handle  Approvals Certificates  | 61508   | 10 a   |
| touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front  Display  display version for switching status Handle  Approvals Certificates  |   |  |
| Display display version for switching status Approvals Certificates Handle   | <u> </u>  |  |
| display version for switching status  Approvals Certificates  Handle   |   | finger-safe, for vertical contact from the front |
| Approvals Certificates   | Display   |  |
|  | · · ·   | Handle   |
| General Product Approval   | Approvals Certificates  |  |
|  | General Product Approval  |  |





Confirmation





<u>KC</u>

**General Product Ap-**

**Test Certificates** 

Marine / Shipping

other

**Special Test Certific-**

Type Test Certificates/Test Report





Miscellaneous

other

Railway

Environment

Confirmation



**Special Test Certific**ate







**Environmental Con**firmations

## 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=3RV2711-0CD10

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RV2711-0CD10

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

https://support.industry.siemens.com/cs/ww/en/ps/3RV2711-0CD10

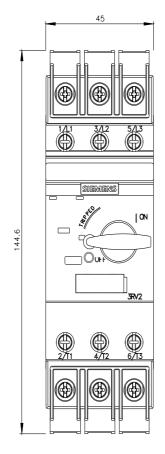
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

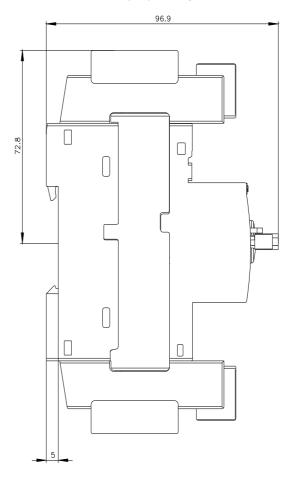
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RV2711-0CD10&lang=en

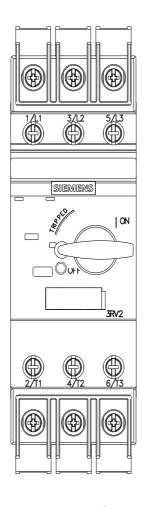
Characteristic: Tripping characteristics, I2t, Let-through current

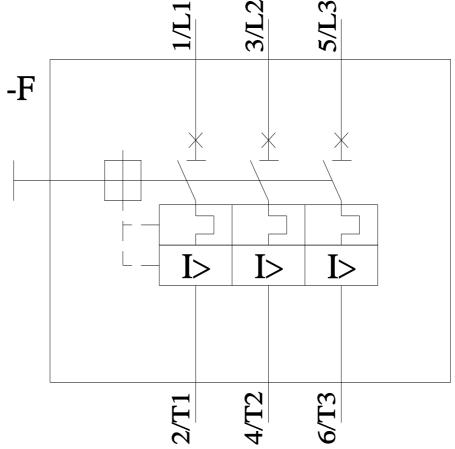
https://support.industry.siemens.com/cs/ww/en/ps/3RV2711-0CD10/char

Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RV2711-0CD10&objecttype=14&gridview=view1









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