## **SIEMENS**

Data sheet 3RT2517-2AB00



power contactor, AC-3, 12 A, 5.5 kW / 400 V, 4-pole, 24 V AC, 50/60 Hz, main contacts: 2 NO + 2 NC, spring-loaded terminal, size: S00

| product brand name                                                                                           | SIRIUS                     |
|--------------------------------------------------------------------------------------------------------------|----------------------------|
| product designation                                                                                          | contactor                  |
| product type designation                                                                                     | 3RT25                      |
| General technical data                                                                                       |                            |
| size of contactor                                                                                            | S00                        |
| product extension                                                                                            |                            |
| <ul> <li>function module for communication</li> </ul>                                                        | No                         |
| auxiliary switch                                                                                             | Yes                        |
| power loss [W] for rated value of the current                                                                |                            |
| <ul> <li>at AC in hot operating state per pole</li> </ul>                                                    | 0.5 W                      |
| without load current share typical                                                                           | 1.5 W                      |
| type of calculation of power loss depending on pole                                                          | quadratic                  |
| insulation voltage                                                                                           |                            |
| <ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>                                   | 690 V                      |
| <ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul>                              | 690 V                      |
| surge voltage resistance                                                                                     |                            |
| <ul> <li>of main circuit rated value</li> </ul>                                                              | 6 kV                       |
| of auxiliary circuit rated value                                                                             | 6 kV                       |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1 | 400 V                      |
| shock resistance at rectangular impulse                                                                      |                            |
| • at AC                                                                                                      | 7,3g / 5 ms, 4,7g / 10 ms  |
| shock resistance with sine pulse                                                                             |                            |
| • at AC                                                                                                      | 11,4g / 5 ms, 7,3g / 10 ms |
| mechanical service life (operating cycles)                                                                   |                            |
| <ul> <li>of contactor typical</li> </ul>                                                                     | 30 000 000                 |
| <ul> <li>of the contactor with added electronically optimized<br/>auxiliary switch block typical</li> </ul>  | 5 000 000                  |
| <ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>                               | 10 000 000                 |
| reference code according to IEC 81346-2                                                                      | Q                          |
| Substance Prohibitance (Date)                                                                                | 10/01/2009                 |
| Weight                                                                                                       | 0.25 kg                    |
| Ambient conditions                                                                                           |                            |
| installation altitude at height above sea level maximum                                                      | 2 000 m                    |
| ambient temperature                                                                                          |                            |
| <ul> <li>during operation</li> </ul>                                                                         | -25 +60 °C                 |
| during storage                                                                                               | -55 +80 °C                 |
| relative humidity minimum                                                                                    | 10 %                       |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum                                               | 95 %                       |
| Environmental footprint                                                                                      |                            |

| Environmental Product Declaration(EPD)                                                                    | Yes                                                       |
|-----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------|
| Global Warming Potential [CO2 eq] total                                                                   | 39.6 kg                                                   |
| Global Warming Potential [CO2 eq] during manufacturing                                                    | 1.18 kg                                                   |
| Global Warming Potential [CO2 eq] during operation                                                        | 38.5 kg                                                   |
| Global Warming Potential [CO2 eq] after end of life                                                       | -0.155 kg                                                 |
| Main circuit                                                                                              |                                                           |
| number of poles for main current circuit                                                                  | 4                                                         |
| number of NO contacts for main contacts                                                                   | 2                                                         |
| number of NC contacts for main contacts                                                                   | 2                                                         |
| operational current                                                                                       |                                                           |
| ● at AC-1 up to 690 V                                                                                     |                                                           |
| <ul> <li>at ambient temperature 40 °C rated value</li> </ul>                                              | 22 A                                                      |
| <ul> <li>— at ambient temperature 60 °C rated value</li> </ul>                                            | 20 A                                                      |
| • at AC-2 at AC-3 at 400 V                                                                                |                                                           |
| <ul> <li>per NO contact rated value</li> </ul>                                                            | 12 A                                                      |
| — per NC contact rated value                                                                              | 9 A                                                       |
| minimum cross-section in main circuit at maximum AC-1 rated                                               | 4 mm²                                                     |
| value                                                                                                     |                                                           |
| operational current                                                                                       |                                                           |
| • at 1 current path at DC-1                                                                               | 20 A                                                      |
| — at 24 V rated value                                                                                     | 20 A                                                      |
| — at 110 V rated value                                                                                    | 2.1 A                                                     |
| — at 220 V rated value  — at 440 V rated value                                                            | 0.8 A<br>0.6 A                                            |
| with 2 current paths in series at DC-1                                                                    | 0.0 A                                                     |
| — at 24 V rated value                                                                                     | 20 A                                                      |
| — at 110 V rated value                                                                                    | 12 A                                                      |
| — at 220 V rated value                                                                                    | 1.6 A                                                     |
| — at 440 V rated value                                                                                    | 0.8 A                                                     |
| • at 1 current path at DC-3 at DC-5                                                                       | 0.071                                                     |
| — at 24 V per NC contact rated value                                                                      | 20 A                                                      |
| — at 24 V per NO contact rated value                                                                      | 20 A                                                      |
| — at 110 V per NC contact rated value                                                                     | 0.075 A                                                   |
| — at 110 V per NO contact rated value                                                                     | 0.15 A                                                    |
| — at 220 V per NC contact rated value                                                                     | 0.375 A                                                   |
| — at 220 V per NO contact rated value                                                                     | 0.75 A                                                    |
| with 2 current paths in series at DC-3 at DC-5                                                            |                                                           |
| — at 24 V per NC contact rated value                                                                      | 20 A                                                      |
| — at 24 V per NO contact rated value                                                                      | 20 A                                                      |
| — at 110 V per NC contact rated value                                                                     | 0.175 A                                                   |
| — at 110 V per NO contact rated value                                                                     | 0.35 A                                                    |
| operating power at AC-2 at AC-3                                                                           |                                                           |
| at 230 V per NC contact rated value                                                                       | 2.2 kW                                                    |
| at 230 V per NO contact rated value                                                                       | 3 kW                                                      |
| at 400 V per NC contact rated value                                                                       | 4 kW                                                      |
| at 400 V per NO contact rated value                                                                       | 5.5 kW                                                    |
| short-time withstand current in cold operating state up to                                                |                                                           |
| 40 °C                                                                                                     | 405 A. Han minimum array                                  |
| Ilimited to 1 s switching at zero current maximum                                                         | 125 A; Use minimum cross-section acc. to AC-1 rated value |
| limited to 5 s switching at zero current maximum                                                          | 123 A; Use minimum cross-section acc. to AC-1 rated value |
| Ilmited to 10 s switching at zero current maximum     Ilmited to 20 s switching at zero current maximum   | 96 A; Use minimum cross-section acc. to AC-1 rated value  |
| Ilmited to 30 s switching at zero current maximum     Ilmited to 60 s switching at zero current maximum   | 74 A; Use minimum cross-section acc. to AC-1 rated value  |
| Ilmited to 60 s switching at zero current maximum  Power loss IMI at AC 2 at 400 V for rated value of the | 61 A; Use minimum cross-section acc. to AC-1 rated value  |
| power loss [W] at AC-3 at 400 V for rated value of the operational current per conductor                  | 0.5 W                                                     |
| power loss [W] at AC-3e at 400 V for rated value of the operational current per conductor                 | 0.5 W                                                     |
| no-load switching frequency                                                                               |                                                           |
| • at AC                                                                                                   | 10 000 1/h                                                |
| • at DC                                                                                                   | 10 000 1/h                                                |
| operating frequency                                                                                       |                                                           |
| • at AC-1 maximum                                                                                         | 1 000 1/h                                                 |
|                                                                                                           |                                                           |

| Control circuit/ Control                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                  |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| type of voltage of the control supply voltage                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | AC                                                                                               |
| control supply voltage at AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                  |
| at 50 Hz rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 24 V                                                                                             |
| at 60 Hz rated value     at 60 Hz rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 24 V                                                                                             |
| operating range factor control supply voltage rated value of                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                  |
| magnet coil at AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                  |
| • at 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.8 1.1                                                                                          |
| ● at 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.85 1.1                                                                                         |
| apparent pick-up power of magnet coil at AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 37 VA                                                                                            |
| ● at 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 37 VA                                                                                            |
| ● at 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 33 VA                                                                                            |
| inductive power factor with closing power of the coil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.8                                                                                              |
| ● at 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.8                                                                                              |
| ● at 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.75                                                                                             |
| apparent holding power of magnet coil at AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5.7 VA                                                                                           |
| ● at 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 5.7 VA                                                                                           |
| • at 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4.4 VA                                                                                           |
| inductive power factor with the holding power of the coil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.25                                                                                             |
| • at 50 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.25                                                                                             |
| • at 60 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.25                                                                                             |
| closing delay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |
| • at AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9 35 ms                                                                                          |
| opening delay                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                  |
| • at AC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4 15 ms                                                                                          |
| arcing time                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 10 15 ms                                                                                         |
| residual current of the electronics for control with signal                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                  |
| <0>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |
| at AC at 230 V maximum permissible                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.004 A                                                                                          |
| Auxiliary circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                  |
| number of NC contacts for auxiliary contacts instantaneous contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0                                                                                                |
| number of NO contacts for auxiliary contacts instantaneous                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0                                                                                                |
| contact                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | ·                                                                                                |
| operational current at AC-12 maximum                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10 A                                                                                             |
| operational current at AC-15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                  |
| at 230 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 10 A                                                                                             |
| • at 400 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3 A                                                                                              |
| operational current at DC-12                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                  |
| • at 48 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 6 A                                                                                              |
| • at 60 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 6 A                                                                                              |
| at 110 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 6 A<br>3 A                                                                                       |
| <ul><li>at 110 V rated value</li><li>at 125 V rated value</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 3 A                                                                                              |
| • at 125 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3 A<br>2 A                                                                                       |
| <ul><li>at 125 V rated value</li><li>at 220 V rated value</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 3 A<br>2 A<br>1 A                                                                                |
| <ul><li>at 125 V rated value</li><li>at 220 V rated value</li><li>at 600 V rated value</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 3 A<br>2 A<br>1 A                                                                                |
| <ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> operational current at DC-13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 3 A<br>2 A<br>1 A<br>0.15 A                                                                      |
| <ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> operational current at DC-13 <ul> <li>at 24 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 3 A<br>2 A<br>1 A<br>0.15 A                                                                      |
| at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13 at 24 V rated value at 48 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3 A 2 A 1 A 0.15 A                                                                               |
| at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 60 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A                                                                 |
| at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 110 V rated value                                                                                                                                                                                                                                                                                                                                                                                                                                | 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A                                                             |
| <ul> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> </ul> operational current at DC-13 <ul> <li>at 24 V rated value</li> <li>at 48 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> </ul>                                                                                                                                                                                                                                                                                                                                   | 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.3 A                                                       |
| at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value                                                                                                                                                                                                                                                                                                                                                                | 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.3 A 0.1 A                                                 |
| at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts                                                                                                                                                                                                                                                       | 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.3 A 0.1 A                                                 |
| at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value rated value at 600 V rated value                                                                                                                                                                   | 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.3 A 0.1 A                                                 |
| at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value contact reliability of auxiliary contacts  UL/CSA ratings yielded mechanical performance [hp]                                                                                                                                                                                                   | 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) |
| at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value for at 600 V rated value at 600 V rated value for at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value                                                                                                                                                               | 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) |
| at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13 at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value for at 600 V rated value at 600 V rated value  or at 600 V rated value  or at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  yielded mechanical performance [hp] or single-phase AC motor at 230 V rated value or for 3-phase AC motor at 460/480 V rated value                                                                                       | 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) |
| at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value for at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL                                           | 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) |
| at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value at 600 V rated value for at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  yielded mechanical performance [hp] for single-phase AC motor at 230 V rated value for 3-phase AC motor at 460/480 V rated value contact rating of auxiliary contacts according to UL  Short-circuit protection design of the fuse link                                   | 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) |
| at 125 V rated value at 220 V rated value at 600 V rated value  operational current at DC-13  at 24 V rated value at 48 V rated value at 60 V rated value at 110 V rated value at 220 V rated value at 600 V rated value at 600 V rated value for at 600 V rated value at 600 V rated value  or at 220 V rated value  or at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  yielded mechanical performance [hp]  or for single-phase AC motor at 230 V rated value or for 3-phase AC motor at 460/480 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection | 3 A 2 A 1 A 0.15 A  10 A 2 A 2 A 1 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA) |

| — with type of assignment 2 required                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | gG: 20A (690V, 100kA)                                                                                                                                                                                                                   |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | fuse gG: 10 A                                                                                                                                                                                                                           |
| Installation/ mounting/ dimensions                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                         |
| mounting position                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | +/-180° rotation possible on vertical mounting surface; can be tilted forward and backward by +/- 22.5° on vertical mounting surface                                                                                                    |
| fastening method side-by-side mounting                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Yes                                                                                                                                                                                                                                     |
| fastening method                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 50022                                                                                                                                                                |
| height                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 70 mm                                                                                                                                                                                                                                   |
| width                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 45 mm                                                                                                                                                                                                                                   |
| depth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 73 mm                                                                                                                                                                                                                                   |
| required spacing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                         |
| <ul><li>with side-by-side mounting</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                         |
| — forwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 mm                                                                                                                                                                                                                                    |
| — backwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0 mm                                                                                                                                                                                                                                    |
| — upwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 mm                                                                                                                                                                                                                                    |
| — downwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0 mm                                                                                                                                                                                                                                    |
| — at the side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0 mm                                                                                                                                                                                                                                    |
| • for grounded parts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                         |
| — forwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0 mm                                                                                                                                                                                                                                    |
| — backwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0 mm                                                                                                                                                                                                                                    |
| — upwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 mm                                                                                                                                                                                                                                    |
| — at the side<br>— downwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 6 mm<br>0 mm                                                                                                                                                                                                                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | O min                                                                                                                                                                                                                                   |
| for live parts     — forwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0 mm                                                                                                                                                                                                                                    |
| — backwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0 mm                                                                                                                                                                                                                                    |
| — upwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0 mm                                                                                                                                                                                                                                    |
| — downwards                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0 mm                                                                                                                                                                                                                                    |
| — at the side                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 6 mm                                                                                                                                                                                                                                    |
| Connections/ Terminals                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                         |
| type of electrical connection                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                         |
| for main current circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | spring-loaded terminals                                                                                                                                                                                                                 |
| • for auxiliary and control circuit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | spring-loaded terminals                                                                                                                                                                                                                 |
| <ul> <li>for auxiliary and control circuit</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                         |
| tor auxiliary and control circuit     at contactor for auxiliary contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Spring-type terminals                                                                                                                                                                                                                   |
| •                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Spring-type terminals Spring-type terminals                                                                                                                                                                                             |
| at contactor for auxiliary contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | . 5 %                                                                                                                                                                                                                                   |
| at contactor for auxiliary contacts     of magnet coil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | . 5 %                                                                                                                                                                                                                                   |
| at contactor for auxiliary contacts     of magnet coil  type of connectable conductor cross-sections for main contacts                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Spring-type terminals                                                                                                                                                                                                                   |
| at contactor for auxiliary contacts     of magnet coil  type of connectable conductor cross-sections for main contacts     solid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Spring-type terminals  2x (0.5 4 mm²)                                                                                                                                                                                                   |
| at contactor for auxiliary contacts     of magnet coil  type of connectable conductor cross-sections for main contacts     solid     solid or stranded                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Spring-type terminals  2x (0.5 4 mm²)  2x (0,5 4 mm²)                                                                                                                                                                                   |
| at contactor for auxiliary contacts     of magnet coil  type of connectable conductor cross-sections for main contacts     solid     solid or stranded     finely stranded with core end processing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 2x (0.5 4 mm²)<br>2x (0.5 4 mm²)<br>2x (0.5 2.5 mm²)                                                                                                                                                                                    |
| <ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Spring-type terminals  2x (0.5 4 mm²)  2x (0.5 4 mm²)  2x (0.5 2.5 mm²)  2x (0.5 2.5 mm²)                                                                                                                                               |
| <ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Spring-type terminals  2x (0.5 4 mm²)  2x (0,5 4 mm²)  2x (0.5 2.5 mm²)  2x (0.5 2.5 mm²)                                                                                                                                               |
| <ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid</li> <li>solid or stranded</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Spring-type terminals  2x (0.5 4 mm²)  2x (0.5 4 mm²)  2x (0.5 2.5 mm²)  2x (0.5 2.5 mm²)  2x (0.5 4 mm²)                                                                                                                               |
| <ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Spring-type terminals  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 4 mm²)                                                                                                    |
| at contactor for auxiliary contacts of magnet coil  type of connectable conductor cross-sections for main contacts solid 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 solid solid or stranded finely stranded with core end processing finely stranded with core end processing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Spring-type terminals  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²)                                                                                   |
| <ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                  | Spring-type terminals  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)                                                 |
| at contactor for auxiliary contacts of magnet coil  type of connectable conductor cross-sections for main contacts solid 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 solid solid or stranded finely stranded with core end processing finely stranded with core end processing                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Spring-type terminals  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²)                                                                                   |
| <ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section for</li> </ul>                                                                                                                                                                                                                                                                                                                             | Spring-type terminals  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)                                                 |
| at contactor for auxiliary contacts of magnet coil  type of connectable conductor cross-sections for main contacts solid 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 solid solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section for main contacts  Safety related data product function                                                                                                                                                                                                                                                                                                                                                                                            | Spring-type terminals  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)                                                 |
| <ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>Safety related data</li> <li>product function</li> <ul> <li>mirror contact according to IEC 60947-4-1</li> </ul> </ul>                                                                                                                                                                                          | Spring-type terminals  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)                                                 |
| <ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>Safety related data</li> <li>product function         <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> </li> </ul>                                                                                                                 | Spring-type terminals  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²)               |
| <ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> </ul> </li> <li>for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>Safety related data</li> <li>product function         <ul> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> </li> <li>Electrical Safety</li> </ul>                                                                                      | Spring-type terminals  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12)  Yes; with 3RH29 No |
| <ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>Safety related data         <ul> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> </li> <li>Electrical Safety</li> <li>protection class IP on the front according to IEC 60529</li> </ul>                     | Spring-type terminals  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12)  Yes; with 3RH29 No |
| <ul> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections for main contacts</li> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts         <ul> <li>solid</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section for main contacts</li> <li>Safety related data         <ul> <li>product function</li> <li>mirror contact according to IEC 60947-4-1</li> <li>positively driven operation according to IEC 60947-5-1</li> </ul> </li> <li>Electrical Safety         <ul> <li>protection class IP on the front according to IEC 60529</li> </ul> </li> </ul> | Spring-type terminals  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12)  Yes; with 3RH29 No |
| at contactor for auxiliary contacts of magnet coil type of connectable conductor cross-sections for main contacts solid 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 solid solid or stranded finely stranded with core end processing finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing for AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section for main contacts  Safety related data product function mirror contact according to IEC 60947-4-1 positively driven operation according to IEC 60947-5-1 Electrical Safety protection class IP on the front according to IEC 60529                                                                                                                                                                        | Spring-type terminals  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²)  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12)  Yes; with 3RH29 No |





Confirmation







EMV

**Test Certificates** 

Marine / Shipping



Type Test Certificates/Test Report

Special Test Certific-<u>ate</u>







Marine / Shipping

other









**Miscellaneous** 

Confirmation

Railway

Environment

Special Test Certific-<u>ate</u>



Environmental Con-firmations

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=3RT2517-2AB00

Cax online generator

 $\underline{\text{http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RT2517-2AB00}$ 

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-2AB00

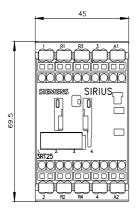
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

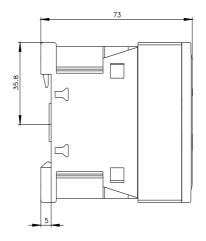
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2517-2AB00&lang=en

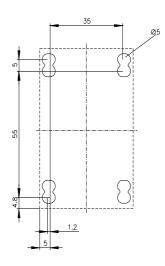
Characteristic: Tripping characteristics, I2t, Let-through current

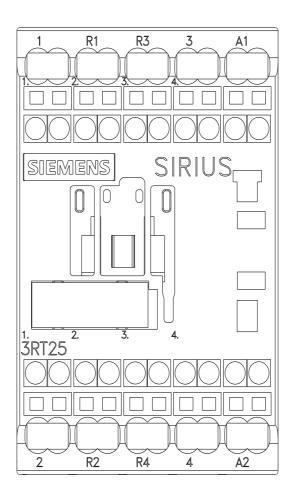
https://support.industry.siemens.com/cs/ww/en/ps/3RT2517-2AB00/char

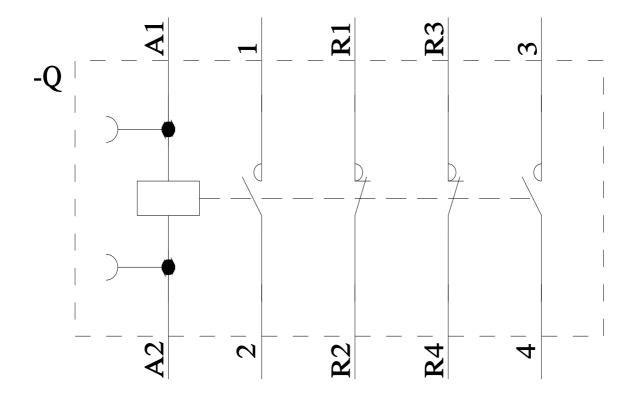
Further characteristics (e.g. electrical endurance, switching frequency)
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2517-2AB00&objecttype=14&gridview=view1











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