## **SIEMENS**

Data sheet 3RT2017-1AF01



Power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO, 110 V AC, 50 / 60 Hz 3-pole, Size S00 screw terminal

| product brand name  | SIRIUS                     |
|---|----------------------------|
| product designation   | Power contactor            |
| product type designation  | 3RT2                       |
| 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</li> </ul>  | 1.5 W                      |
| <ul> <li>at AC in hot operating state per pole</li> </ul>   | 0.5 W                      |
| <ul> <li>without load current share typical</li> </ul>  | 5.7 W                      |
| 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                       |
| <ul> <li>of auxiliary circuit rated value</li> </ul>  | 6 kV                       |
| maximum permissible voltage for safe isolation 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 (switching 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<br/>typical</li> </ul>                          | 10 000 000                 |
| reference code according to IEC 81346-2   | Q                          |
| Substance Prohibitance (Date)   | 10/01/2009                 |
| 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 %                       |

| ain circuit number of poles for main current circuit                    | 3      |
|---|--------|
| number of NO contacts for main contacts                                 | 3      |
| operating voltage   |        |
| at AC-3 rated value maximum   | 690 V  |
| at AC-3e rated value maximum  | 690 V  |
| operational current   |        |
| at AC-1 at 400 V at ambient temperature 40 °C                           | 22 A   |
| rated value   |        |
| • at AC-1   |        |
| — up to 690 V at ambient temperature 40 °C                              | 22 A   |
| rated value   |        |
| — up to 690 V at ambient temperature 60 °C                              | 20 A   |
| rated value   |        |
| • at AC-3   |        |
| — at 400 V rated value  | 12 A   |
| — at 500 V rated value  | 9.2 A  |
| — at 690 V rated value  | 6.7 A  |
| • at AC-3e  |        |
| — at 500 V rated value  | 9.2 A  |
| — at 690 V rated value  | 6.7 A  |
| • at AC-4 at 400 V rated value  | 8.5 A  |
| <ul> <li>at AC-5a up to 690 V rated value</li> </ul>                    | 19.4 A |
| <ul> <li>at AC-5b up to 400 V rated value</li> </ul>                    | 9.9 A  |
| • at AC-6a  |        |
| <ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul> | 7.2 A  |
| up to 400 V for current peak value n=20 rated value                     | 7.2 A  |
| up to 500 V for current peak value n=20 rated value                     | 7.2 A  |
| up to 690 V for current peak value n=20 rated value                     | 6.7 A  |
| • at AC-6a  |        |
| — up to 230 V for current peak value n=30 rated                         | 4.8 A  |
| value   |        |
| <ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul> | 4.8 A  |
| <ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul> | 4.8 A  |
| <ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul> | 4.8 A  |
| minimum cross-section in main circuit at maximum AC-1 rated value       | 4 mm²  |
| operational current for approx. 200000 operating cycles at AC-4         |        |
| at 400 V rated value  | 4.1 A  |
| at 690 V rated value  | 3.3 A  |
| operational current   |        |
| • at 1 current path at DC-1   |        |
| — at 24 V rated value   | 20 A   |
| — at 110 V rated value  | 2.1 A  |
| — at 220 V rated value  | 0.8 A  |
| — at 440 V rated value  | 0.6 A  |
| — at 600 V rated value  | 0.6 A  |
| • with 2 current paths in series at DC-1                                |        |
| — 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 600 V rated value  | 0.7 A  |
|   | V./ A  |
| • with 3 current paths in series at DC-1                                |        |

| -t 440 Vtdl   | 00.4  |  |  |  |  |
|---|---|--|--|--|--|
| — at 110 V rated value  | 20 A  |  |  |  |  |
| — at 220 V rated value  | 20 A  |  |  |  |  |
| — at 440 V rated value  | 1.3 A<br>1 A  |  |  |  |  |
| — at 600 V rated value  | 1 A   |  |  |  |  |
| at 1 current path at DC-3 at DC-5   | 00.4  |  |  |  |  |
| — at 24 V rated value   | 20 A  |  |  |  |  |
| — at 110 V rated value  | 0.1 A   |  |  |  |  |
| with 2 current paths in series at DC-3 at DC-5  |   |  |  |  |  |
| — at 24 V rated value   | 20 A  |  |  |  |  |
| — at 110 V rated value  | 0.35 A  |  |  |  |  |
| <ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>                                    |   |  |  |  |  |
| — at 24 V rated value   | 20 A  |  |  |  |  |
| — at 110 V rated value  | 20 A  |  |  |  |  |
| — at 220 V rated value  | 1.5 A   |  |  |  |  |
| — at 440 V rated value  | 0.2 A   |  |  |  |  |
| — at 600 V rated value  | 0.2 A   |  |  |  |  |
| operating power   |   |  |  |  |  |
| • at AC-3   | O LW  |  |  |  |  |
| — at 230 V rated value  | 3 kW  |  |  |  |  |
| — at 400 V rated value  | 5.5 kW  |  |  |  |  |
| — at 500 V rated value  | 5.5 kW  |  |  |  |  |
| — at 690 V rated value  | 5.5 kW  |  |  |  |  |
| • at AC-3e  | O LW  |  |  |  |  |
| — at 230 V rated value  | 3 kW  |  |  |  |  |
| — at 400 V rated value  | 5.5 kW  |  |  |  |  |
| — at 500 V rated value  | 5.5 kW  |  |  |  |  |
| — at 690 V rated value  | 5.5 kW  |  |  |  |  |
| operating power for approx. 200000 operating cycles at AC-4   |   |  |  |  |  |
| at 400 V rated value  | 2 kW  |  |  |  |  |
| at 690 V rated value  | 2.5 kW  |  |  |  |  |
| operating apparent power at AC-6a   |   |  |  |  |  |
| • up to 230 V for current peak value n=20 rated value   | 2.8 kVA   |  |  |  |  |
| • up to 400 V for current peak value n=20 rated value   | 4.9 kVA   |  |  |  |  |
| • up to 500 V for current peak value n=20 rated value   | 6.2 kVA   |  |  |  |  |
| • up to 690 V for current peak value n=20 rated value   | 8 kVA   |  |  |  |  |
| operating apparent power at AC-6a   |   |  |  |  |  |
| up to 230 V for current peak value n=30 rated value   | 1.9 kVA   |  |  |  |  |
| <ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>                               | 3.3 kVA   |  |  |  |  |
| up to 500 V for current peak value n=30 rated value   | 4.1 kVA   |  |  |  |  |
| <ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul>                               | 5.7 kVA   |  |  |  |  |
| short-time withstand current in cold operating state up to 40 °C                                      |   |  |  |  |  |
| Iimited to 1 s switching at zero current maximum  | 200 A; Use minimum cross-section acc. to AC-1 rated value |  |  |  |  |
| limited to 1 s switching at zero current maximum     limited to 5 s switching at zero current maximum | 123 A; Use minimum cross-section acc. to AC-1 rated value |  |  |  |  |
| limited to 10 s switching at zero current maximum   | 96 A; Use minimum cross-section acc. to AC-1 rated value  |  |  |  |  |
| limited to 30 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   | 61 A; Use minimum cross-section acc. to AC-1 rated value  |  |  |  |  |
| no-load switching frequency   | ,   |  |  |  |  |
| • at AC   | 10 000 1/h  |  |  |  |  |
| operating frequency   |   |  |  |  |  |
| at AC-1 maximum   | 1 000 1/h   |  |  |  |  |
| • at AC-2 maximum   | 750 1/h   |  |  |  |  |
| • at AC-3 maximum   | 750 1/h   |  |  |  |  |
| • at AC-3e maximum  | 750 1/h   |  |  |  |  |
| <ul><li>at AC-4 maximum</li></ul>   | 250 1/h   |  |  |  |  |
| Control circuit/ Control  |   |  |  |  |  |
| type of voltage of the control supply voltage   | AC  |  |  |  |  |
| control supply voltage at AC  |   |  |  |  |  |
| <ul> <li>at 50 Hz rated value</li> </ul>  | 110 V   |  |  |  |  |
|   |   |  |  |  |  |

| at 60 Hz rated value  | 110 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   |  |
| ● at 50 Hz  | 37 VA  |
| ● at 60 Hz  | 33 VA  |
| inductive power factor with closing power of the coil   |  |
| ● at 50 Hz  | 0.8  |
| ● at 60 Hz  | 0.75   |
| apparent holding power of magnet coil at AC   |  |
| ● at 50 Hz  | 5.7 VA   |
| ● at 60 Hz  | 4.4 VA   |
| inductive power factor with the holding power of the  |  |
| coil  |  |
| • at 50 Hz  | 0.25   |
| • at 60 Hz  | 0.25   |
| closing delay   |  |
| • at AC   | 9 35 ms  |
| opening delay   |  |
| • at AC   | 7 13 ms  |
| arcing time   | 10 15 ms   |
| control version of the switch operating mechanism   | Standard A1 - A2   |
| Auxiliary circuit   |  |
| number of NO contacts for auxiliary contacts instantaneous contact  | 1  |
| operational current at AC-12 maximum  | 10 A   |
| operational current at AC-15  |  |
| <ul> <li>at 230 V rated value</li> </ul>  | 10 A   |
| <ul> <li>at 400 V rated value</li> </ul>  | 3 A  |
| • at 500 V rated value  | 2 A  |
| • at 690 V rated value  | 1 A  |
| operational current at DC-12  |  |
| at 24 V rated value   | 10 A   |
| at 48 V rated value   | 6 A  |
| at 60 V rated value   | 6 A  |
| at 110 V rated value  | 3 A  |
|   |  |
| at 125 V rated value  | 2 A  |
| <ul><li>at 125 V rated value</li><li>at 220 V rated value</li></ul>   | 2 A<br>1 A   |
|   |  |
| • at 220 V rated value  | 1 A  |
| <ul><li>at 220 V rated value</li><li>at 600 V rated value</li></ul>   | 1 A  |
| at 220 V rated value     at 600 V rated value  operational current at DC-13   | 1 A<br>0.15 A  |
| at 220 V rated value  at 600 V rated value  operational current at DC-13  at 24 V rated value   | 1 A<br>0.15 A<br>10 A  |
| 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  | 1 A<br>0.15 A<br>10 A<br>2 A   |
| 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   | 1 A<br>0.15 A<br>10 A<br>2 A<br>2 A  |
| 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 125 V rated value   | 1 A<br>0.15 A<br>10 A<br>2 A<br>2 A<br>1 A<br>0.9 A  |
| 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 125 V rated value  at 220 V rated value   | 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A   |
| 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 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value   | 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A   |
| 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 125 V rated value  at 220 V rated value  at 600 V rated value  contact reliability of auxiliary contacts  | 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A   |
| 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 125 V rated value  at 220 V rated value  at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  | 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A   |
| 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 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  total current (FLA) for 3-phase AC motor   | 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)                 |
| 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 125 V rated value  at 220 V rated value  at 600 V rated value  to at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value   | 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)                 |
| 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 125 V rated value  at 220 V rated value  at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  at 600 V rated value  | 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)                 |
| 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 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  yielded mechanical performance [hp]   | 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)                 |
| 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 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  for single-phase AC motor                     | 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)                 |
| 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 125 V rated value  at 220 V rated value  at 600 V rated value  contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  full-load current value  at 600 V rated value  at 600 V rated value  at 600 V rated value  reliability of auxiliary contacts  value  at 110/120 V rated value | 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)                 |
| 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 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  tontact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  for single-phase AC motor  at 110/120 V rated value  at 230 V rated value  at 230 V rated value   | 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)                 |
| 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 125 V rated value  at 220 V rated value  at 600 V rated value  tontact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  for single-phase AC motor  at 110/120 V rated value  at 230 V rated value  for 3-phase AC motor  at 230 V rated value  for 3-phase AC motor                   | 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)  11 A 11 A 11 A |
| 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 125 V rated value  at 220 V rated value  at 600 V rated value  at 600 V rated value  tontact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  at 480 V rated value  at 600 V rated value  for single-phase AC motor  at 110/120 V rated value  at 230 V rated value  at 230 V rated value   | 1 A 0.15 A  10 A 2 A 2 A 1 A 0.9 A 0.3 A 0.1 A 1 faulty switching per 100 million (17 V, 1 mA)                 |

| — at 460/480 V rated value  | 7.5 hp   |  |  |  |  |
|---|--|--|--|--|--|
| — at 575/600 V rated value  | 10 hp  |  |  |  |  |
| contact rating of auxiliary contacts according to UL                    | A600 / Q600  |  |  |  |  |
| Short-circuit protection  |  |  |  |  |  |
| design of the fuse link   |  |  |  |  |  |
| <ul> <li>for short-circuit protection of the main circuit</li> </ul>    |  |  |  |  |  |
| <ul> <li>— with type of coordination 1 required</li> </ul>              | gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)  |  |  |  |  |
| — with type of assignment 2 required                                    | gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)  |  |  |  |  |
| for short-circuit protection of the auxiliary switch required           | gG: 10 A (500 V, 1 kA)   |  |  |  |  |
| 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  | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715   |  |  |  |  |
| side-by-side mounting   | Yes  |  |  |  |  |
| height  | 58 mm  |  |  |  |  |
| width   | 45 mm  |  |  |  |  |
| depth   | 73 mm  |  |  |  |  |
| required spacing  |  |  |  |  |  |
| <ul><li>with side-by-side mounting</li></ul>                            |  |  |  |  |  |
| — forwards  | 10 mm  |  |  |  |  |
| — upwards   | 10 mm  |  |  |  |  |
| — downwards   | 10 mm  |  |  |  |  |
| — at the side   | 0 mm   |  |  |  |  |
| <ul> <li>for grounded parts</li> </ul>                                  |  |  |  |  |  |
| — forwards  | 10 mm  |  |  |  |  |
| — upwards   | 10 mm  |  |  |  |  |
| — at the side   | 6 mm   |  |  |  |  |
| — downwards   | 10 mm  |  |  |  |  |
| • for live parts  |  |  |  |  |  |
| — forwards  | 10 mm  |  |  |  |  |
| — upwards   | 10 mm  |  |  |  |  |
| — downwards   | 10 mm  |  |  |  |  |
| — at the side   | 6 mm   |  |  |  |  |
| Connections/ Terminals  |  |  |  |  |  |
| type of electrical connection   |  |  |  |  |  |
| <ul> <li>for main current circuit</li> </ul>                            | screw-type terminals   |  |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> </ul>                   | screw-type terminals   |  |  |  |  |
| <ul> <li>at contactor for auxiliary contacts</li> </ul>                 | Screw-type terminals   |  |  |  |  |
| of magnet coil  | Screw-type terminals   |  |  |  |  |
| type of connectable conductor cross-sections                            |  |  |  |  |  |
| for main contacts   |  |  |  |  |  |
| — solid   | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²  |  |  |  |  |
| <ul><li>— solid or stranded</li></ul>                                   | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²  |  |  |  |  |
| <ul> <li>finely stranded with core end processing</li> </ul>            | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  |  |  |  |  |
| at AWG cables for main contacts   | 2x (20 16), 2x (18 14), 2x 12  |  |  |  |  |
| connectable conductor cross-section for main contacts                   |  |  |  |  |  |
| • solid   | 0.5 4 mm²  |  |  |  |  |
| • stranded  | 0.5 4 mm²  |  |  |  |  |
| finely stranded with core end processing                                | 0.5 2.5 mm²  |  |  |  |  |
| connectable conductor cross-section for auxiliary contacts              |  |  |  |  |  |
| solid or stranded   | 0.5 4 mm²  |  |  |  |  |
| finely stranded with core end processing                                | 0.5 2.5 mm <sup>2</sup>  |  |  |  |  |
| type of connectable conductor cross-sections                            | V.V 2.V IIIII  |  |  |  |  |
|   |  |  |  |  |  |
| <ul> <li>for auxiliary contacts</li> <li>— solid or stranded</li> </ul> | 2v (0.5  |  |  |  |  |
| — solid or stranded     — finely stranded with core end processing      | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), 2x 4 mm²<br>2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)   |  |  |  |  |
| — intery strainted with core end processing                             | ΔΛ (V.V 1.V IIIII ), ΔΛ (V.1 J Δ. V IIIII )  |  |  |  |  |

| at AWG cables for auxiliary contacts                                    | 2x (20 16), 2x (18 14), 2x 12                    |
|---|--|
| AWG number as coded connectable conductor cross section                 |  |
| <ul> <li>for main contacts</li> </ul>                                   | 20 12  |
| <ul> <li>for auxiliary contacts</li> </ul>                              | 20 12  |
| Safety related data   |  |
| product function  |  |
| <ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>           | Yes; with 3RH29                                  |
| B10 value with high demand rate according to SN 31920                   | 1 000 000  |
| proportion of dangerous failures  |  |
| <ul> <li>with low demand rate according to SN 31920</li> </ul>          | 40 %   |
| <ul> <li>with high demand rate according to SN 31920</li> </ul>         | 73 %   |
| failure rate [FIT] with low demand rate according to SN 31920           | 100 FIT  |
| T1 value for proof test interval or service life according to IEC 61508 | 20 y   |
| protection class IP on the front according to IEC 60529                 | IP20   |
| touch protection on the front according to IEC 60529                    | finger-safe, for vertical contact from the front |
| suitability for use   |  |
| <ul> <li>safety-related switching OFF</li> </ul>                        | Yes  |

Certificates/ approvals

## **General Product Approval**



Confirmation





<u>KC</u>



| EMC | Functional<br>Safety/Safety of<br>Machinery | Declaration of Conformity |          | Test Certificates                  |                              |
|-----|---|---------------------------|----------|------------------------------------|------------------------------|
| RCM | Type Examination<br>Certificate             | <b>C €</b>                | UK<br>CA | Type Test Certificates/Test Report | Special Test Certificate ate |

## Marine / Shipping













Marine / Shipping other



Confirmation



Confirmation

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=3RT2017-1AF01

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2017-1AF01

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

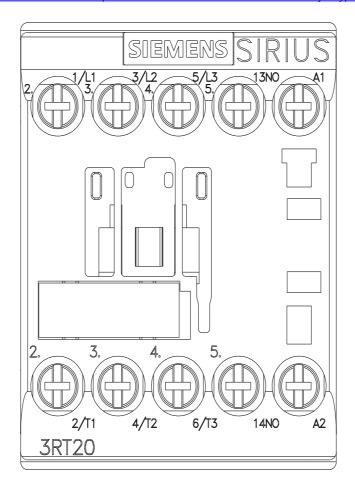
https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AF01

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) <a href="http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-1AF01&lang=en">http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-1AF01&lang=en</a>

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-1AF01/char

Further characteristics (e.g. electrical endurance, switching frequency)
<a href="http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-1AF01&objecttype=14&gridview=view1">http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-1AF01&objecttype=14&gridview=view1</a>



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