## **SIEMENS**

3RT2017-2VB41 **Data sheet** 



power contactor, AC-3 12 A, 5.5 kW / 400 V 1 NO, 24 V DC 0.85-1.85\* US, with diode integrated, 3-pole size S00, spring-type terminal not expandable with auxiliary switch

| size of contactor product extension • function module for communication • function module for communication • auxiliary switch  power loss [W] for rated value of the current • at AC in hot operating state   1.5 W   • at AC in hot operating state   1.5 W   • at AC in hot operating state   1.6 W   • without load current share typical   1.6 W   • insulation voltage • of main circuit with degree of pollution 3 rated value   690 V   • of auxiliary circuit with degree of pollution 3 rated value   68 W   • of auxiliary circuit rated value   6 kV   • of auxiliary circuit rated value   6 kV   • of auxiliary circuit rated value   6 kV   • of auxiliary circuit rated value   7.3g / 5 ms, 4.7g / 10 ms   • at DC   1.4g / 5 ms, 7.3g / 10 ms   • at DC   2.5 ms, 4.7g / 10 ms   • at DC   2.5 ms, 4.7g / 10 ms   • at DC   3.0000000   • of contactor typical   30 000 000   • of | product brand name   | SIRIUS                     |
|--|--|----------------------------|
| Size of contactor product extension • function module for communication • auxillary switch ot at C in hot operating state per pole • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxillary circuit with degree of pollution 3 rated value • of main circuit rated value • of main circuit rated value • of auxillary circuit with degree of pollution 3 rated value • of auxillary circuit rated value • at DC  7.3g / 5 ms, 4.7g / 10 ms  shock resistance with sine pulse • at DC  30 000 000  shock resistance with sine pulse • at DC  4 at DC  2 uny definition  installation altitude at height above sea level maximum • during operation • during storage • during storage  relative humidity minimum  to with the current  auxillary circuit with degree of pollution 3 rated value  800 V  680 V  690 V  69 | product designation  | Coupling contactor         |
| size of contactor product extension • function module for communication • function module for communication • auxiliary switch  power loss [W] for rated value of the current • at AC in hot operating state   1.5 W   • at AC in hot operating state   1.5 W   • at AC in hot operating state   1.6 W   • without load current share typical   1.6 W   • insulation voltage • of main circuit with degree of pollution 3 rated value   690 V   • of auxiliary circuit with degree of pollution 3 rated value   68 W   • of auxiliary circuit rated value   6 kV   • of auxiliary circuit rated value   6 kV   • of auxiliary circuit rated value   6 kV   • of auxiliary circuit rated value   7.3g / 5 ms, 4.7g / 10 ms   • at DC   1.4g / 5 ms, 7.3g / 10 ms   • at DC   2.5 ms, 4.7g / 10 ms   • at DC   2.5 ms, 4.7g / 10 ms   • at DC   3.0000000   • of contactor typical   30 000 000   • of | product type designation   | 3RT2                       |
| product extension  • function module for communication • auxilliary switch  power loss [W] for rated value of the current • at AC in hot operating state • at AC in hot operating state per pole • without load current share typical • of main circuit with degree of pollution 3 rated value • of auxilliary circuit with degree of pollution 3 rated value • of auxilliary circuit with degree of pollution 3 rated value • of auxilliary circuit rated value • of auxilliary circuit rated value • of auxiliary circuit rated value • of work of the wo | General technical data   |                            |
| • function module for communication     • auxiliary switch  Power loss [W] for rated value of the current     • at AC in hot operating state     • at AC in hot operating state per pole     • without load current share typical  Insulation voltage     • of main circuit with degree of pollution 3 rated value     • of auxiliary circuit with degree of pollution 3 rated value     • of auxiliary circuit with degree of pollution 3 rated value     • of auxiliary circuit with degree of pollution 3 rated value     • of main circuit rated value     • of auxiliary c      | size of contactor  | S00                        |
| e auxiliary switch  power loss [W] for rated value of the current  e at AC in hot operating state per pole e without load current share typical  insulation voltage e of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value e of auxiliary circuit rated value  8 6 kV  400 V  400 V  400 V  5 bock resistance at rectangular impulse e at DC  7.3g / 5 ms, 4.7g / 10 ms  brack resistance with sine pulse e at DC  11.4g / 5 ms, 7,3g / 10 ms  mechanical service life (switching cycles) e of contactor typical erference code according to IEC 81346-2 Q  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum ambient temperature e during operation e during storage  55 +60 °C eduring storage  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  | product extension  |                            |
| power loss [W] for rated value of the current  | <ul> <li>function module for communication</li> </ul>                      | No                         |
| at AC in hot operating state at AC in hot operating state per pole without load current share typical  insulation voltage of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit rated value of kV  400 V  circuit rated value of kV  7.3g / 5 ms, 4.7g / 10 ms  shock resistance at rectangular impulse of contactor typical of contacto  | auxiliary switch   | No                         |
| at AC in hot operating state per pole     without load current share typical  insulation voltage     of main circuit with degree of pollution 3 rated value     of auxiliary circuit with degree of pollution 3 rated value     of auxiliary circuit with degree of pollution 3 rated value     of auxiliary circuit rated value     of auxiliary c      | power loss [W] for rated value of the current                              |                            |
| insulation voltage  of main circuit with degree of pollution 3 rated value  of auxiliary circuit with degree of pollution 3 rated value  of auxiliary circuit with degree of pollution 3 rated value  of main circuit rated value  of main circuit rated value  of auxiliary circuit value  of auxiliary circ  | <ul> <li>at AC in hot operating state</li> </ul>                           | 1.5 W                      |
| insulation voltage  of main circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value of auxiliary circuit with degree of pollution 3 rated value surge voltage resistance of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1 shock resistance at rectangular impulse of at DC shock resistance with sine pulse of contactor typical of contactor typical reference code according to IEC 81346-2 Substance Prohibitance (Date) Ambient conditions installation altitude at height above sea level maximum ambient temperature of during operation of during storage relative humidity minimum relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  690 V 68 V 690 | <ul> <li>at AC in hot operating state per pole</li> </ul>                  | 0.5 W                      |
| of main circuit with degree of pollution 3 rated value     of auxiliary circuit with degree of pollution 3 rated value  surge voltage resistance     of main circuit rated value     of auxiliary circuit rated value     of kV     of auxiliary circuit rated value     of kV     ov     of auxiliary circuit rated value     of kV     ov          | <ul> <li>without load current share typical</li> </ul>                     | 1.6 W                      |
| of auxiliary circuit with degree of pollution 3 rated value  surge voltage resistance     of main circuit rated value     of auxiliary circuit rated value      maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse     ot at DC     7.3g / 5 ms, 4.7g / 10 ms  shock resistance with sine pulse     ot DC     11,4g / 5 ms, 7,3g / 10 ms  mechanical service life (switching cycles)     of contactor typical     of contactor typical     substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum     of during operation     of during storage  relative humidity minimum  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit   6 kV  400 V  400 V  400 V  400 V   | insulation voltage   |                            |
| value  surge voltage resistance  of main circuit rated value of auxiliary circuit rated value of auxiliary circuit rated value  foll and main contacts according to EN 60947-1  shock resistance at rectangular impulse of at DC shock resistance with sine pulse of at DC 11,4g / 5 ms, 7,3g / 10 ms  mechanical service life (switching cycles) of contactor typical soubstance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum ambient temperature of during operation of during storage relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  6 kV  6 kV  6 kV  400 V  400  | <ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul> | 690 V                      |
| of main circuit rated value     of auxiliary circuit rated value     d kV      maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1      shock resistance at rectangular impulse     ot DC   | , , ,  | 690 V                      |
| of auxiliary circuit rated value     maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse     o at DC     shock resistance with sine pulse     o at DC   | surge voltage resistance   |                            |
| maximum permissible voltage for safe isolation between coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse   | <ul> <li>of main circuit rated value</li> </ul>                            | 6 kV                       |
| coil and main contacts according to EN 60947-1  shock resistance at rectangular impulse  • at DC  shock resistance with sine pulse  • at DC  11,4g / 5 ms, 7,3g / 10 ms  mechanical service life (switching cycles)  • of contactor typical  reference code according to IEC 81346-2  Qu Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  | <ul> <li>of auxiliary circuit rated value</li> </ul>                       | 6 kV                       |
| • at DC  shock resistance with sine pulse • at DC  11,4g / 5 ms, 7,3g / 10 ms  mechanical service life (switching cycles) • of contactor typical  reference code according to IEC 81346-2  Quad Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature • during operation • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit   | ,  | 400 V                      |
| shock resistance with sine pulse  • at DC  mechanical service life (switching cycles)  • of contactor typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit   | shock resistance at rectangular impulse                                    |                            |
| ● at DC  mechanical service life (switching cycles)  ● of contactor typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  ● during operation ● during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  11,4g / 5 ms, 7,3g / 10 ms  30 000 000  30 000 000  20 000  10/01/2009  40/01/2009  10/01/2009  20 00 m  20 00 m  10/01/2009  10/01/  | • at DC  | 7.3g / 5 ms, 4.7g / 10 ms  |
| mechanical service life (switching cycles)  • of contactor typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  30 000 000  10/01/2009  2000 m  2 | shock resistance with sine pulse   |                            |
| ● of contactor typical  reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  ● during operation  ● during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  30 000 000  Q  2000  10/01/2009  2000 m  200  | • at DC  | 11,4g / 5 ms, 7,3g / 10 ms |
| reference code according to IEC 81346-2  Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit   | mechanical service life (switching cycles)                                 |                            |
| Substance Prohibitance (Date)  Ambient conditions  installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  | <ul> <li>of contactor typical</li> </ul>                                   | 30 000 000                 |
| installation altitude at height above sea level maximum  ambient temperature  • during operation • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  2 000 m  -25 +60 °C  -25 +80 °C  10 %  95 %  | reference code according to IEC 81346-2                                    | Q                          |
| installation altitude at height above sea level maximum  ambient temperature  • during operation  • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  | Substance Prohibitance (Date)  | 10/01/2009                 |
| ambient temperature  • during operation • during storage  -55 +60 °C  • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  | Ambient conditions   |                            |
| <ul> <li>during operation</li> <li>during storage</li> <li>telative humidity minimum</li> <li>relative humidity at 55 °C according to IEC 60068-2-30 maximum</li> <li>Main circuit</li> </ul>  | installation altitude at height above sea level maximum                    | 2 000 m                    |
| • during storage  relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  | ambient temperature  |                            |
| relative humidity minimum  relative humidity at 55 °C according to IEC 60068-2-30 maximum  Main circuit  | during operation   | -25 +60 °C                 |
| relative humidity at 55 °C according to IEC 60068-2-30 95 % maximum  Main circuit  | during storage   | -55 +80 °C                 |
| maximum Main circuit   | relative humidity minimum  | 10 %                       |
|  |  | 95 %                       |
|  | Main circuit   |                            |
| number of poles for main current circuit 3   | number of poles for main current circuit                                   | 3                          |
| number of NO contacts for main contacts 3  | number of NO contacts for main contacts                                    | 3                          |

| operating voltage   | 000.1/         |
|---|----------------|
| at AC-3 rated value maximum   | 690 V          |
| at AC-3e rated value maximum  | 690 V          |
| operational current   | 22.4           |
| at AC-1 at 400 V at ambient temperature 40 °C rated value                               | 22 A           |
| • at AC-1   | 00.4           |
| <ul> <li>up to 690 V at ambient temperature 40 °C rated value</li> </ul>                | 22 A           |
| — up to 690 V at ambient temperature 60 °C rated value                                  | 20 A           |
| • at AC-3   | 40.4           |
| — 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  | 40.4           |
| — 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-4 at 400 V rated value  | 8.5 A          |
| at AC-5a up to 690 V rated value  | 19.4 A         |
| at AC-5b up to 400 V rated value  | 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          |
| <ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>                 | 7.2 A          |
| <ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>                 | 7.2 A          |
| <ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul>                 | 6.7 A          |
| • at AC-6a  |                |
| <ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>                 | 4.8 A          |
| — up to 400 V for current peak value n=30 rated value                                   | 4.8 A          |
| <ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>                 | 4.8 A          |
| — up to 690 V for current peak value n=30 rated value                                   | 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  | 0.07.          |
| — 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  | 0.6 A<br>0.7 A |
|   | U.I A          |
| <ul> <li>with 3 current paths in series at DC-1</li> <li>at 24 V rated value</li> </ul> | 20 A           |
| — at 110 V rated value  | 20 A           |
|   |                |
| — at 220 V rated value  | 20 A           |

| — at 440 V rated value   | 1.3 A   |
|--|---|
| — at 600 V rated value   | 1 A   |
| <ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>                            |   |
| — at 24 V rated value  | 20 A  |
| — at 110 V rated value   | 0.1 A   |
| <ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>               |   |
| — 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  |   |
| — 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   |   |
| — 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  |   |
| <ul> <li>at 400 V rated value</li> </ul>   | 2 kW  |
| at 690 V rated value   | 2.5 kW  |
| operating apparent power at AC-6a  |   |
| <ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul>          | 2.8 kVA   |
| <ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul>          | 4.9 kVA   |
| <ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul>          | 6.2 kVA   |
| up to 690 V for current peak value n=20 rated value                              | 8 kVA   |
| operating apparent power at AC-6a  |   |
| <ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>          | 1.9 kVA   |
| <ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul>          | 3.3 kVA   |
| <ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul>          | 4.1 kVA   |
| up to 690 V for current peak value n=30 rated value                              | 5.7 kVA   |
| short-time withstand current in cold operating state up to 40 $^{\circ}\text{C}$ |   |
| <ul> <li>limited to 1 s switching at zero current maximum</li> </ul>             | 200 A; Use minimum cross-section acc. to AC-1 rated value |
| <ul> <li>limited to 5 s switching at zero current maximum</li> </ul>             | 123 A; Use minimum cross-section acc. to AC-1 rated value |
| <ul> <li>limited to 10 s switching at zero current maximum</li> </ul>            | 96 A; Use minimum cross-section acc. to AC-1 rated value  |
| <ul> <li>limited to 30 s switching at zero current maximum</li> </ul>            | 74 A; Use minimum cross-section acc. to AC-1 rated value  |
| <ul> <li>limited to 60 s switching at zero current maximum</li> </ul>            | 61 A; Use minimum cross-section acc. to AC-1 rated value  |
| no-load switching frequency  |   |
| • at DC  | 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   |
| • at AC-4 maximum  | 250 1/h   |
| Control circuit/ Control   |   |
| type of voltage of the control supply voltage                                    | DC  |
| control supply voltage at DC   |   |
| • rated value  | 24 V  |
| operating range factor control supply voltage rated                              |   |
| value of magnet coil at DC   |   |
| initial value  | 0.85  |
|  |   |

| design of the surge suppressor closing power of magnet coil at DC holding power of magnet coil at DC closing delay  and DC poining delay  and DC around the switch operating mechanism Auxiliary circuit unumber of NO contacts for auxiliary contacts instantaneous contact operational current at AC-12 maximum  of at 200 V rated value  at 260 V rated value  at 212 V rated value           | • full-scale value                                   | 1.85  |
|--|--|---|
| Closing power of magnet coil at DC   | design of the surge suppressor                       | diode   |
| Individual power of magnet coil at DC  |  | 1.6 W   |
| Closing delay  |  | 1.6 W   |
| ■ at DC     poening delay     ■ at DC     arcing time     ontrol version of the switch operating mechanism     Auxiliary circuit     instantaneous contact     instantan                 |  |   |
| a th DC  | • at DC  | 25 120 ms   |
| arcing time  | opening delay  |   |
| Control version of the switch operating mechanism   Standard A1 - A2   | • at DC  | 20 80 ms  |
| Auxiliary circuit   number of NO contacts for auxiliary contacts   number of NO contacts for No contacts   number of NO contacts   n             | arcing time  | 10 15 ms  |
|  | control version of the switch operating mechanism    | Standard A1 - A2  |
| instantaneous contact operational current at AC-15  at 230 V rated value at 400 V rated value at 500 V rated value at 60 V rated value at 60 V rated value at 60 V rated value at 80 V rat           | Auxiliary circuit                                    |   |
| instantaneous contact operational current at AC-12 maximum operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 500 V rated value • at 500 V rated value • at 60 V rated value • at 64 V v rated value • at 64 V rated value • at 125 V rated value • at 126 V rated value • at 120 V rated value • at 120 V rated value • at 140 V rated value • at 140 V rated value • at 150 V rated value • at 1           | number of NO contacts for auxiliary contacts         | 1   |
| a   230 V rated value  | instantaneous contact                                |   |
| * at 230 V rated value   |  | 10 A  |
| * at 400 V rated value   | operational current at AC-15                         |   |
| * at 500 V rated value   | <ul> <li>at 230 V rated value</li> </ul>             | 10 A  |
| • at 890 V rated value   | <ul> <li>at 400 V rated value</li> </ul>             | 3 A   |
| Operational current at DC-12   | <ul> <li>at 500 V rated value</li> </ul>             | 2 A   |
| at 24 V rated value  | at 690 V rated value                                 | 1 A   |
| • 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 60 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 260 V rated value • at 60 V rated value • at 10 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 260 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 480 V rated value • at 480 V rated value • at 110 V rated value • at 120 V rated value • at 120 V rated value • at 220 V rated value • at 300 V rated value • at 480 V rated value • at 600 V rated value • at 60           | operational current at DC-12                         |   |
| • at 60 V rated value • at 110 V rated value • at 125 V rated value • at 220 V rated value • at 220 V rated value • at 800 V rated value • at 148 V rated value • at 150 V rated value • at 110 V rated value • at 110 V rated value • at 125 V rated value • at 22 V rated value • at 22 V rated value • at 22 V rated value • at 25 V rated value • at 25 V rated value • at 25 V rated value • at 20 V rated value • at 20 V rated value • at 600 V rated value • for 3-phase AC motor  - at 200/208 V rated value • for 3-phase AC motor  - at 200/208 V rated value - at 275/600 V rated value - at 60/480 V rated value - at 60           | • at 24 V rated value                                | 10 A  |
| • 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 • at 48 V rated value • at 48 V rated value • at 110 V rated value • at 125 V rated value • at 125 V rated value • at 220 V rated value • at 320 V rated value • at 600 V rated value • at 1000 V rated value • at 1000 V rated value • at 1000 V rated value • for 3-phase AC motor — at 1101/20 V rated value • for 3-phase AC motor — at 220 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 200/208 V rated value • for 3-phase AC motor — at 500/208 V rated value • for 3-phase AC motor — at 576/600 V rated value • for 3-phase AC motor — at 756/600 V rated value • for 3-phase AC motor — at 756/600 V rated value • for 3-phase AC motor — at 756/600 V rated value • for 3-phase AC motor — at 60/480 V rated value — at 756/600 V rated value — at 60/480 V rated value   | <ul><li>at 48 V rated value</li></ul>                | 6 A   |
| at 125 V rated value   | <ul> <li>at 60 V rated value</li> </ul>              | 6 A   |
|  | <ul> <li>at 110 V rated value</li> </ul>             | 3 A   |
| • at 600 V rated value   | <ul> <li>at 125 V rated value</li> </ul>             | 2 A   |
| 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 22 A • at 1110 V rated value • at 220 V rated value • at 48 V rated value • at 220 V rated value • at 480 V rated value • at 600 V rated value • for single-phase AC motor • at 110/120 V rated value • for 3-phase AC motor • at 200/208 V rated value • at 220/208 V rated value • at 220/230 V rated value • at 460/480 V rated value • at 460/480 V rated value • at 450/480 V rated value • at 575/600 V rated value • at 600 V grade value • at 600 V grade value • at 600 V grade value • or 3-phase AC motor • at 800 V grade value • at 800 V grade value • at 800 V grade value • at 9 phase AC motor • at 200 V grade value • at 200 V grade value • for 3-phase AC motor • at 200 V grade value • for 3-phase AC motor • at 200 V grade value • for 3-phase AC motor • at 200 V grade value • for 3-phase AC motor • at 200 V grade value • for 3-phase AC motor • at 200 V grade value • for 3-phase AC motor • at 200 V grade value • for 3-phase AC motor • at 200 V grade value • for 3-phase AC motor • at 200 V grade value • for 3-phase AC motor • at 200 V grade value • for 3-phase AC motor • at 110 A • for 3-phase AC motor • at 110 A • for 4 grade value • for 3-phase AC motor • at 110 A • for 4 grade value • for 3-phase AC motor • for 4 grade value • for 5 grade value • for 6 grade value • f           | <ul> <li>at 220 V rated value</li> </ul>             | 1 A   |
| at 24 V rated value at 48 V rated value 2 A at 60 V rated value 2 A at 110 V rated value 3 1 A at 125 V rated value 3 at 220 V rated value 4 at 220 V rated value 5 at 60 V rated value 5 at 60 V rated value 6 at 220 V rated value 7 at 600 V rated value 7 at 600 V rated value 7 at 600 V rated value 8 at 600 V rated value 9 at 600 V rated value 9 at 480 V rated value 11 A 11 A 11 A 11 A 12 V rated value 11 A 11 A 11 A 11 A 11 A 12 V rated value 11 A 11 A 11 A 11 A 11 A 12 V rated value 11 A 11 A 11 A 12 V rated value 11 A 11 A 12 V rated value 11 A 13 A 14 A 15 A 16 A 16 A 17 A 18  | at 600 V rated value                                 | 0.15 A  |
|  | operational current at DC-13                         |   |
| at 160 V rated value at 110 V rated value at 125 V rated value at 1220 V rated value at 220 V rated value at 220 V rated value 0.3 A at 600 V rated value 0.1 A  contact reliability of auxiliary contacts  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value 11 A  at 600 V rated value 11 A  it is do v rated value 11 A  yielded mechanical performance [hp]  for single-phase AC motor — at 110/120 V rated value 1  | <ul> <li>at 24 V rated value</li> </ul>              | 10 A  |
| <ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> <li>at 220 V rated value</li> <li>0.3 A</li> <li>at 600 V rated value</li> <li>0.1 A</li> <li>contact reliability of auxiliary contacts</li> <li>1 faulty switching per 100 million (17 V, 1 mA)</li> <li>UL/CSA ratings</li> <li>full-load current (FLA) for 3-phase AC motor</li> <li>at 480 V rated value</li> <li>at 600 V rated value</li> <li>for single-phase AC motor</li> <li>at 11 A</li> <li>for single-phase AC motor</li> <li>at 11 A</li> <li>for 3-phase AC motor</li> <li>at 101/120 V rated value</li> <li>for 3-phase AC motor</li> <li>at 220/230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 220/230 V rated value</li> <li>at 220/230 V rated value</li> <li>for 3-phase AC motor</li> <li>at 250/230 V rated value</li> <li>for 46/480 V rated value</li> <li>at 575/600 V rated value</li> <li>to hp</li> <li>contact rating of auxiliary contacts according to UL</li> <li>Short-circuit protection</li> <li>design of the fuse link</li> <li>for short-circuit protection of the main circuit</li> <li>with type of coordination 1 required</li> <li>gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) 8GC, 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) 8GC, 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) 8GC, 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) 8GC, 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) 8GC, 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA) 8GC, 20A (690V,100kA), aM: 16A (690V,100kA), BS88: 20A (415V,80kA) 8GC, 20A (690V,100kA), aM: 16A (690V,100kA), BS88: 20A (415V,80kA) 8GC, 20A (690V,100kA), aM: 16A (690V,10</li></ul> | <ul> <li>at 48 V rated value</li> </ul>              | 2 A   |
| at 125 V rated value at 220 V rated value at 600 V rated value at 600 V rated value  contact reliability of auxiliary contacts  I faulty switching per 100 million (17 V, 1 mA)  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 at 600 V rated value at 11 A  yleided mechanical performance [hp] for single-phase AC motor — at 110/120 V rated value — at 230 V rated value at 230 V rated value at 220/230 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 575/600 V rated value — at 60/480 V rated value — at 60/480 V rated value — at 60/480 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  for short-circuit protection of the auxiliary switch required  | <ul> <li>at 60 V rated value</li> </ul>              | 2 A   |
| at 220 V rated value at 600 V rated value at 600 V rated value  contact reliability of auxiliary contacts  I faulty switching per 100 million (17 V, 1 mA)  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor at 480 V rated value at 600 V rated value  in for single-phase AC motor  - at 110/120 V rated value at 110/120 V rated value at 110/120 V rated value be for 3-phase AC motor - at 200/208 V rated value at 220/230 V rated value - at 220/230 V rated value - at 480/480 V rated value - at 575/600 V rated value - at 575/            | <ul> <li>at 110 V rated value</li> </ul>             | 1 A   |
| ontact reliability of auxiliary contacts  I faulty switching per 100 million (17 V, 1 mA)  IUL/CSA ratings  full-load current (FLA) for 3-phase AC motor     ontact reliability of auxiliary switching per 100 million (17 V, 1 mA)  III A     ontact reliability of auxiliary switching per 100 million (17 V, 1 mA)  III A     ontact reliability of auxiliary switching per 100 million (17 V, 1 mA)  III A     ontact reliability of auxiliary contacts  III A     ontact reliability of auxiliary contacts  III A     ontact reliability of auxiliary switching per 100 million (17 V, 1 mA)  III A     ontact reliability of auxiliary contact [hg]  III A     ontact reliability of auxiliary contact succording to III A     ontact reliability of auxiliary contacts according t                | <ul> <li>at 125 V rated value</li> </ul>             | 0.9 A   |
| contact reliability of auxiliary contacts  1 faulty switching per 100 million (17 V, 1 mA)  UL/CSA ratings  full-load current (FLA) for 3-phase AC motor  • at 480 V rated value • at 600 V rated value  11 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value • for 3-phase AC motor  — at 230 V rated value • for 3-phase AC motor  — at 220/230 V rated value • at 220/230 V rated value — at 460/480 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  | <ul> <li>at 220 V rated value</li> </ul>             | 0.3 A   |
| full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  11 A  11 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value  0.5 hp  - at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value  — at 220/230 V rated value  3 hp  — at 420/230 V rated value  — at 575/600 V rated value  7.5 hp  - at 460/480 V rated value  7.5 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  | at 600 V rated value                                 | 0.1 A   |
| full-load current (FLA) for 3-phase AC motor  • at 480 V rated value  • at 600 V rated value  11 A  yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value — at 230 V rated value  • for 3-phase AC motor  — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 4575/600 V rated value — at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit — with type of assignment 2 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions   | contact reliability of auxiliary contacts            | 1 faulty switching per 100 million (17 V, 1 mA)                       |
| at 480 V rated value  at 600 V rated value  yielded mechanical performance [hp]  for single-phase AC motor  - at 110/120 V rated value - at 230 V rated value - at 230 V rated value - at 200/208 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 575/600 V rated value - at 575/600 V rated value - at 575/600 V rated value - with type of coordination 1 required - with type of assignment 2 required  for short-circuit protection of the auxiliary switch required  for short-circuit protection of the auxiliary switch required  for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions   | UL/CSA ratings                                       |   |
| in the state of the fuse link     in the state of the st                | full-load current (FLA) for 3-phase AC motor         |   |
| yielded mechanical performance [hp]  • for single-phase AC motor  — at 110/120 V rated value — at 230 V rated value — of for 3-phase AC motor — at 200/208 V rated value — at 220/230 V rated value — at 460/480 V rated value — at 575/600 V rated value — at 575/600 V rated value — to the fuse link  • for short-circuit protection  design of the fuse link • for short-circuit protection of the main circuit — with type of coordination 1 required — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions   | <ul> <li>at 480 V rated value</li> </ul>             | 11 A  |
| for single-phase AC motor         — at 110/120 V rated value         — at 230 V rated value         • for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 220/230 V rated value         — at 460/480 V rated value         — at 575/600 V rated value          Contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link         • for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  | at 600 V rated value                                 | 11 A  |
| - at 110/120 V rated value - at 230 V rated value 9 for 3-phase AC motor - at 200/208 V rated value 3 hp - at 220/230 V rated value 3 hp - 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  Short-circuit protection  design of the fuse link 9 for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required 9G: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA) 9 for short-circuit protection of the auxiliary switch required Installation/ mounting/ dimensions   | yielded mechanical performance [hp]                  |   |
| - at 230 V rated value  • for 3-phase AC motor  - at 200/208 V rated value  - at 220/230 V rated value  - at 460/480 V rated value  - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  - with type of coordination 1 required  - with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions   | <ul> <li>for single-phase AC motor</li> </ul>        |   |
| for 3-phase AC motor         — at 200/208 V rated value         — at 220/230 V rated value         — at 460/480 V rated value         — at 575/600 V rated value          Contact rating of auxiliary contacts according to UL          Short-circuit protection          design of the fuse link         — for short-circuit protection of the main circuit         — with type of coordination 1 required         — with type of assignment 2 required         — with type of assignment 2 required         — for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  | — at 110/120 V rated value                           | 0.5 hp  |
| - at 220/230 V rated value - at 220/230 V rated value - at 460/480 V rated value - at 460/480 V rated value - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  | — at 230 V rated value                               | 2 hp  |
| - at 220/230 V rated value - at 460/480 V rated value - at 575/600 V rated value 10 hp  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit - with type of coordination 1 required with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions   | <ul> <li>for 3-phase AC motor</li> </ul>             |   |
| - at 460/480 V rated value - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit - with type of coordination 1 required - with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  7.5 hp  10 hp  A600 / Q600  Short-circuit protection  4600 / Q600  GG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)  GG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA)  gG: 10 A (500 V, 1 kA)  | — at 200/208 V rated value                           | 3 hp  |
| - at 575/600 V rated value  contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  10 hp  A600 / Q600  A600 / Q600   GG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)  gG: 50A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA)  gG: 10 A (500 V, 1 kA)  | — at 220/230 V rated value                           | 3 hp  |
| contact rating of auxiliary contacts according to UL  Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  A600 / Q600  A600 / Q600  A600 / Q600   GG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)  gG: 50A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA)  gG: 10 A (500 V, 1 kA)  | — at 460/480 V rated value                           | 7.5 hp  |
| Short-circuit protection  design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)  gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)  gG: 10 A (500 V, 1 kA)   | — at 575/600 V rated value                           | 10 hp   |
| design of the fuse link  • for short-circuit protection of the main circuit  — with type of coordination 1 required  — with type of assignment 2 required  • for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)  gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V,80kA)  gG: 10 A (500 V, 1 kA)  | contact rating of auxiliary contacts according to UL | A600 / Q600   |
| <ul> <li>for short-circuit protection of the main circuit         <ul> <li>with type of coordination 1 required</li> <li>with type of assignment 2 required</li> </ul> </li> <li>for short-circuit protection of the auxiliary switch required</li> <li>Installation/ mounting/ dimensions</li> <li>gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)</li> <li>gG: 20A (690V,100kA), aM: 16A (690V, 100kA), BS88: 20A (415V, 80kA)</li> <li>gG: 10 A (500 V, 1 kA)</li> </ul>  | Short-circuit protection                             |   |
| — with type of coordination 1 required 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  Installation/ mounting/ dimensions   | design of the fuse link                              |   |
| — with type of coordination 1 required 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  Installation/ mounting/ dimensions   | _  |   |
| — 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  Installation/ mounting/ dimensions   |  | gG: 50A (690V,100kA), aM: 20A (690V,100kA), BS88: 35A (415V,80kA)     |
| for short-circuit protection of the auxiliary switch required  Installation/ mounting/ dimensions  80kA)  gG: 10 A (500 V, 1 kA)   |  |   |
| Installation/ mounting/ dimensions   |  |   |
| Installation/ mounting/ dimensions   |  | gG: 10 A (500 V, 1 kA)  |
|  |  |   |
| mounting position +/-180° rotation possible on vertical mounting surface; can be tilted  | -  |   |
|  | mounting position                                    | +/-180° rotation possible on vertical mounting surface; can be tilted |

| Assening method  |   | forward and backward by +/- 22.5° on vertical mounting surface |
|--|---|--|
| eside-by-side mounting Yes helght 70 mm width 45 mm depth 73 mm required spacing  - with side-by-side mounting - forwards 10 mm - downwards 10 mm - downwards 10 mm - downwards 10 mm - for grounded parts - for grounded parts - for grounded parts - downwards 10 mm - upwards 10 mm - upwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - at the side 6 mm - downwards 10 mm - for live parts - for five parts - for five parts - for five parts - for man contacts - for main contacts - for main contacts - for main contacts - for suitiliary and control circuit - at contactor for auxiliary contacts - for finely stranded with core end processing - finely stranded with core end proces | fastening method  | · ·  |
| e side-by-side mounting         Yes           width         45 mm           dopth         75 mm           required spacing         ************************************  | actoring motion   |  |
| width         45 mm           depth         73 mm           required spacing         with side-by-side mounting           — forwards         10 mm           — upwards         10 mm           — downwards         10 mm           — for grounded parts         10 mm           — forwards         10 mm           — at the side         6 mm           — at the side         6 mm           — downwards         10 mm           — forwards         10 mm           — forwards         10 mm           — downwards         10 mm           — for main current circuit         spring-loaded terminals           * for main current circuit         spring-loaded terminals           • for main current circuit         spring-loaded terminals           • for availiary and control circuit         spring-loaded terminals           • for availiary contacts         2x (0.5 4 mm²)           - solid or stranded         2x (0.5 4 mm²)   | <ul><li>side-by-side mounting</li></ul>                         | Yes  |
| required spacing   with sict-by-side mounting   10 mm   10 m   | height  | 70 mm  |
| e with side-by-side mounting   | width   | 45 mm  |
| • with side-by-side mounting   | depth   | 73 mm  |
| forwards upwards upwards downwards downwards for grounded parts forwards forwards forwards forwards the side downwards at the side downwards the side downwards to file parts forwards downwards downwards downwards downwards downwards forman at the side forman at the side forman current circuit for main current circuit for main current circuit for main contacts for main contacts for main contacts for main contacts solid solid or stranded finely stranded without core end processing finely stranded without core end processing solid or stranded finely stranded without core end processing solid or stranded finely stranded without core end processing finely stranded with core end processing finely stranded without core e   | required spacing  |  |
| - upwards  | <ul> <li>with side-by-side mounting</li> </ul>                  |  |
| downwards at the side of man contects convertable conductor cross-section for main contacts solid or stranded finely stranded without core end processing finely stranded without core end proce   | — forwards  | 10 mm  |
| - at the side  | — upwards   | 10 mm  |
| • for grounded parts  - forwards - upwards - at the side - downwards - for live parts - forwards - upwards - for live parts - forwards - upwards - downwards - for main current circuit - for auxiliary and control circuit - at contactor for auxiliary contacts - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded with core end processing - finely stranded without core end processing - finely stranded with core end processing - finely stranded without core end processing - finely str | — downwards   | 10 mm  |
| forwards upwards upwards d the side downwards for live parts forwards forwards forwards forwards forwards upwards forwards upwards forwards upwards downwards for main current circuit sorid downwards for main current circuit solid sorid downwards sorid sorid downwards solid sorid downwards finely stranded with core end processing finely stranded with core end processing finely stranded with ore end processing at AWG cables for main contacts solid solid sorid downwards solid stranded finely stranded without core end processing finely stranded without core end processing solid or stranded finely stranded without core end processing finely stranded with core end processing -  | — at the side   | 0 mm   |
| - upwards - at the side - downwards • for live parts - forwards - upwards - upwards - downwards - upwards - at the side - downwards - upwards - at the side - downwards - at the side - downwards - at the side - downwards - at the side - at   | <ul> <li>for grounded parts</li> </ul>                          |  |
| - at the side - downwards - 10 mm - 10 | — forwards  | 10 mm  |
| - downwards • for live parts - forwards - upwards - upwards - downwards - at the side - at the side - of man  Connections/ Terminals  type of electrical connection • for auxiliary and control circuit • for auxiliary and control circuit • 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 • at AWG cables for unit core end processing • finely stranded with co | — upwards   | 10 mm  |
| • for live parts     — forwards     — upwards     — downwards     — at the side     One main current circuit     • at contactor for auxiliary contacts     • of magnet coll     very stranded without core end processing     • finely stranded with core end processing     • finely stranded without core end processing     • finely stranded without core end processing     • finely stranded without core end processing     • for auxiliary contacts      • solid or stranded     • finely stranded without core end processing     • for auxiliary contacts      • solid or stranded     • finely stranded without core end processing     • for auxiliary contacts      • for auxiliar      | — at the side   | 6 mm   |
| forwards upwards upwards downwards at the side for awain current circuit for awain arcent circuit for awaillary and control circuit for awaillary and control circuit at contactor for awaillary contacts for main current circuit for awaillary contacts for main contacts solid for main contacts solid solid conductor cross-sections finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing finely stranded without core end processing finely stranded with core end processing finely stranded without core end processing finely stranded without core end processing finely stranded with core end processing finely stranded without core end processing  | — downwards   | 10 mm  |
| - upwards  | • for live parts  |  |
| downwards 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 • at contactor for auxiliary contacts • of magnet coil Spring-type terminals • for connectable conductor cross-sections • for main contacts solid Spring-type terminals  2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) finely stranded with core end processing finely stranded with core end proces  | — forwards  | 10 mm  |
| Type of electrical connection  • for main current circuit • for auxiliary and control circuit • at contactor for auxiliary contacts • of magnet coil  type of connectable conductor cross-sections • for main contacts  — solid — solid 0 — solid 0 — solid 0 — finely stranded with core end processing • at AVVG cables for main contacts • solid • stranded • finely stranded with core end processing • for auxiliary contacts  — solid or stranded • finely stranded with core end processing • for auxiliary contacts  — solid or stranded • finely stranded with core end processing • for auxiliary contacts  — for auxiliary contacts • for auxiliary contacts • for fauxiliary contacts • for auxiliary conta | — upwards   | 10 mm  |
| type of electrical connection  • for main current circuit • at contactor for auxiliary and control circuit • 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 • stranded • finely stranded with core end processing • solid • stranded • finely stranded with core end processing • for on auxiliary contacts  - solid or stranded - finely stranded with core end processing • for one conductor cross-sections • for auxiliary contacts  - for finely stranded with core end processing • at AWG cables for auxiliary contacts  - for main contacts • for or auxiliary contacts                                | — downwards   | 10 mm  |
| type of electrical connection  • for main current circuit  • for auxiliary and control circuit  • for auxiliary and control circuit  • at contactor for auxiliary contacts  • of magnet coil  type of connectable conductor cross-sections  • for main contacts  — solid  — solid or stranded — finely stranded with our cend processing — finely stranded without core end processing • stranded • sinely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • solid • stranded • sinely stranded without core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for or auxiliary contacts  • for for main contacts • for or auxiliary contacts  product function  |   | 6 mm   |
| • for main current circuit     • for auxiliary and control circuit     • 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     — at AWG cables for main contacts      • solid     • solid or stranded with core end processing     • finely stranded with core end processing     • finely stranded without core end processing     • finely stranded without core end processing     • finely stranded without core end processing     • finely stranded with core end processing     • finely stranded without core end processing     • finely stranded with core end processing     • finely stranded with core end processing     • finely stranded with core end processing     • finely stranded without core end processing     • finely stranded with core end processing     • all AWG cables for auxiliary contacts   AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts      • for of auxiliary contacts       |   |  |
| of or auxiliary and control circuit     of or auxiliary contacts     of magnet coil  type of connectable conductor cross-sections     of main contacts   | type of electrical connection                                   |  |
| of a contactor for auxiliary contacts     of magnet coil  type of connectable conductor cross-sections     of main contacts  | for main current circuit  | spring-loaded terminals  |
| type of connectable conductor cross-sections  • for main contacts  — solid — solid 0 2x (0.5 4 mm²) 2x (0.5 4 mm²) 2x (0.5 2.5 mm²) • tor main contacts — finely stranded with core end processing — finely stranded without core end processing • at AWG cables for main contacts  • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts   |   |  |
| • for main contacts  - solid  - solid or stranded  - finely stranded with core end processing  • at AWG cables for main contacts  - solid  - solid or stranded without core end processing  • at AWG acables for main contacts  - solid  • stranded  • finely stranded with core end processing  • finely stranded without core end processing  • finely stranded without core end processing  • finely stranded with core end processing  • finely stranded with core end processing  • finely stranded without core end processing  • for auxiliary contacts  - solid or stranded  - finely stranded without core end processing  • for auxiliary contacts  - solid or stranded  - finely stranded without core end processing  • for auxiliary contacts  - solid or stranded  - finely stranded without core end processing  • to a uxiliary contacts  - solid or stranded  - finely stranded without core end processing  • to a uxiliary contacts  - solid or stranded  - finely stranded without core end processing  • to a uxiliary contacts  - solid or stranded  - finely stranded without core end processing  • to a uxiliary contacts  - solid or stranded  - finely stranded without core end processing  • to a uxiliary contacts  - solid or stranded  - finely stranded without core end processing  • to a uxiliary contacts  - solid or stranded  - finely stranded without core end processing  • to a uxiliary contacts  - solid or stranded  - finely stranded without core end processing  • to a uxiliary contacts  - solid or stranded  - finely stranded without core end processing  • to a uxiliary contacts  - solid or stranded  | -   |  |
| • for main contacts  - solid - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for main contacts - solid - stranded - finely stranded without core end processing - at AWG cables for main contacts - solid - stranded - stranded - stranded - stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - solid or stranded - solid or strande - solid or strande - solid or st |   | Spring-type terminals  |
| - solid - solid or stranded 2x (0.5 4 mm²) 2x (0.5 4 mm²) - finely stranded with core end processing 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 (0.5 2.5 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 (0.5 2.5 mm²) 2x (0.5 .   |   |  |
| - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for main contacts  2x (0.5 2.5 mm²) 2x (20 12)  connectable conductor cross-section for main contacts - solid - 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 - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - finely stranded with core end processing - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded without core e         |   |  |
| - finely stranded with core end processing - finely stranded without core end processing • at AWG cables for main contacts  • solid • stranded • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  - for main contacts • for auxiliary contacts  - for auxiliary contacts - for auxiliary c |   |  |
| - finely stranded without core end processing  • at AWG cables for main contacts  connectable conductor cross-section for main contacts  • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • solid or stranded • finely stranded without core end processing • finely stranded without core end processing • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for main contacts • for main contacts • for auxiliary contacts  20 12  Safety related data  product function   |   |  |
| • at AWG cables for main contacts  connectable conductor cross-section for main contacts  • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts  20 12  AWG number as coded connectable conductor cross-section • for main contacts • for auxiliary contacts  20 12  Safety related data  product function  |   |  |
| connectable conductor cross-section for main contacts  • solid • stranded • finely stranded with core end processing • finely stranded without core end processing connectable conductor cross-section for auxiliary contacts  • solid or stranded • finely stranded with core end processing connectable conductor cross-section for auxiliary contacts  • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts  - solid or stranded - finely stranded without core end processing - solid or stranded - finely stranded with core end processing - finely stranded with core end processing - finely stranded with core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  - for auxiliary contacts  20 12  Safety related data  product function   |   |  |
| contacts  • solid • stranded • finely stranded with core end processing • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing connectable conductor cross-section for auxiliary contacts • solid or stranded • finely stranded without core end processing • finely stranded without core end processing • finely stranded without core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing 2x (0,5 4 mm²) - finely stranded with core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  20 12 • for auxiliary contacts  Safety related data  product function   |   | 2x (20 12)   |
| <ul> <li>solid</li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>o.5 2.5 mm²</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG number as coded connectable conductor crosssection</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> <li>20 12</li> </ul> Safety related data product function  |   |  |
| <ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for linely stranded with core end processing</li> <li>for stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> </ul> Safety related data product function  |   | 0.5 4 mm²  |
| <ul> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>for linely stranded with core end processing</li> <li>for stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> </ul>   | stranded  | 0.5 4 mm²  |
| <ul> <li>finely stranded without core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> <li>product function</li> </ul>  | finely stranded with core end processing                        |  |
| connectable conductor cross-section for auxiliary contacts  • solid or stranded • finely stranded with core end processing • finely stranded without core end processing • for auxiliary contacts  - solid or stranded - finely stranded with core end processing - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  • for auxiliary contacts  • for auxiliary contacts  - solid or stranded - 2x (0,5 4 mm²) - 2x (0.5 2.5 mm²) - 2x (0.5 2.5 mm²) - 2x (20 12)  - 3x (20 12) - 3x (20  |   |  |
| osolid or stranded ofinely stranded with core end processing ofinely stranded without core end processing of finely stranded without core end processing of or auxiliary contacts of or auxiliary contacts  — solid or stranded — finely stranded with core end processing — finely stranded without core end processing — finely stranded without core end processing — finely stranded without core end processing at AWG cables for auxiliary contacts  ■ at AWG cables for auxiliary contacts  of or main contacts of or main contacts of or auxiliary contacts  ■ for auxiliary contacts ■ for auxiliary conta  |   |  |
| <ul> <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 or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>product function</li> </ul>   |   |  |
| <ul> <li>finely stranded without core end processing</li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded without core end processing</li> <li>finely stranded without core end processing</li> <li>at AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for main contacts</li> <li>for auxiliary contacts</li> </ul> </li> <li>20 12</li> <li>for auxiliary contacts</li> <li>20 12</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> </ul>   | <ul> <li>solid or stranded</li> </ul>                           | 0.5 4 mm²  |
| type of connectable conductor cross-sections  • for auxiliary contacts  — solid or stranded — finely stranded with core end processing — finely stranded without core end processing 2x (0.5 2.5 mm²) — finely stranded without core end processing 2x (0.5 2.5 mm²)  2x (0.5 2.5 mm²)  2x (20 12)  AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts 20 12  • for auxiliary contacts 20 12  Safety related data  product function   | <ul> <li>finely stranded with core end processing</li> </ul>    | 0.5 2.5 mm <sup>2</sup>  |
| • for auxiliary contacts     — solid or stranded     — finely stranded with core end processing     — finely stranded without core end processing     — finely stranded without core end processing     — at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section     • for main contacts     • for auxiliary contacts 20 12  Safety related data  product function  2x (0,5 4 mm²) 2x (0.5 2.5 mm²) 2x (20 12)  2x (20 12)  | finely stranded without core end processing                     | 0.5 2.5 mm²  |
| - solid or stranded - finely stranded with core end processing - finely stranded without core end processing - finely stranded without core end processing - at AWG cables for auxiliary contacts  2x (0.5 2.5 mm²) 2x (0.5 2.5 mm²) 2x (20 12)  AWG number as coded connectable conductor cross section - for main contacts - for auxiliary contacts 20 12  Safety related data  product function   | type of connectable conductor cross-sections                    |  |
| - finely stranded with core end processing - finely stranded without core end processing • at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section • for main contacts • for auxiliary contacts  20 12  Safety related data  product function  | <ul> <li>for auxiliary contacts</li> </ul>                      |  |
| — finely stranded without core end processing  | — solid or stranded   | 2x (0,5 4 mm²)   |
| at AWG cables for auxiliary contacts  AWG number as coded connectable conductor cross section      for main contacts     for auxiliary contacts     for auxiliary contacts     product function      at AWG cables for auxiliary contacts     20 12     20 12  20 12   | <ul> <li>finely stranded with core end processing</li> </ul>    | 2x (0.5 2.5 mm²)   |
| AWG number as coded connectable conductor cross section  • for main contacts • for auxiliary contacts 20 12  • for auxiliary contacts 20 12  Safety related data  product function   | <ul> <li>finely stranded without core end processing</li> </ul> | 2x (0.5 2.5 mm²)   |
| • for main contacts • for auxiliary contacts 20 12 • for auxiliary contacts 20 12  Safety related data  product function   | at AWG cables for auxiliary contacts                            | 2x (20 12)   |
| for main contacts  |   |  |
| • for auxiliary contacts  20 12  Safety related data  product function   |   | 20 42  |
| product function   |   |  |
| product function   | ·   | ZU 1Z  |
|  |   |  |
| Thirtor contact according to ILO 00077-7-1   |   | No   |
| 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 Safety/Safety of Machinery | Declaration of Conformity | Test Certificates |
|---|---------------------------|-------------------|
|---|---------------------------|-------------------|



Type Examination Certificate





Special Test Certificate

Type Test Certificates/Test Report

## Marine / Shipping













Marine / Shipping other Dangerous Good



Confirmation



<u>Transport Information</u>

## **Further information**

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=3RT2017-2VB41

Cax online generator

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

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2VB41

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2017-2VB41\&lang=en}}$ 

Characteristic: Tripping characteristics, I2t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RT2017-2VB41/char

Further characteristics (e.g. electrical endurance, switching frequency)

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2017-2VB41&objecttype=14&gridview=view1

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