## SIEMENS

## Data sheet

## 3RT2028-1AC20



power contactor, AC-3e/AC-3, 38 A, 18.5 kW / 400 V, 3-pole, 24 V AC, 50/60 Hz, auxiliary contacts: 1 NO + 1 NC, screw terminal, size: S0

| product brand name         SIRIUS           product varie designation         Power contactor           ortradict designation         SRT2           Central technical data         So           size of contactor         So           size of contactor         No           • function module for communication         No           • auxiliary switch         Yes           • at AC in hot operating state         9.6 W           • at AC in hot operating state per pole         3.2 W           • without load current share typical         2.7 W           insultation vortage         600 V           • of main circuit with degree of pollution 3 rated value         600 V           • of auxiliary circuit with degree of pollution 3 rated value         600 V           • of auxiliary circuit with degree of pollution 3 rated value         600 V           • of auxiliary circuit rated value         6 kV           • of auxiliary circuit rated value         5 kV           • of auxiliary circuit rated value         5 kV           •  | 4/13  |                            |
|--|---|----------------------------|
| product type designation         3RT2           General technical data   | product brand name  | SIRIUS                     |
| General technical data     S0       size of contactor     S0       product extension     • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     9.6 W       • at AC in hot operating state     9.6 W       • at AC in hot operating state per pole     3.2 W       • without load current share typical     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit rated value     64 V       • of auxiliary circuit rated value     64 V       • of and main contacts according to EN 60947-1     400 V       shock resistance at rectangular impulse     8.3g / 5 ms, 5,3g / 10 ms       • at AC     13,5g / 5 ms, 8,3g / 10 ms       mechanical service life (operating cycles)     10 000 000       • of the contactor with added acteronically optimized auxiliary switch block typical     10000 000       • of the contactor with added actertonically optimized auxiliary switch block typical     10000 000       • of the contactor with added actertonically optimized auxiliary switch block typical     1000000       • of the contactor with a  | product designation   | Power contactor            |
| size of contactor         S0           product extension         • function module for communication         No           • auxilary switch         Yes           power loss [W] for rated value of the current         9.6 W           • at AC in hot operating state per pole         3.2 W           • without load current share typical         2.7 W           insulation voltage         690 V           • of main circult with degree of pollution 3 rated value         690 V           • of auxillary circuit ated value         690 V           • of main circult with degree of pollution 3 rated value         690 V           • of main circult ated value         61V           • of main circult ated value         61V           • of main circult rated value         61V           • of auxiliary circult rated value         61V           • of main circult with degree of pollution 3 rated value         61V           • of auxiliary circult rated value         61V           • of auxiliary circult rated value         61V           • of auxiliary circult rated value         10.00 V           • of the contactor with added electron  | product type designation  | 3RT2                       |
| product extension     No       • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     9.6 W       • at AC in hot operating state     9.6 W       • at AC in hot operating state per pole     3.2 W       • without load current share typical     2.7 W       insulation voltage     690 V       • of main circui with degree of pollution 3 rated value     690 V       • of an in circui rated value     690 V       • of an in circui rated value     6 kV       • of an in circui rated value     6 kV       • of an in circui rated value     6 kV       • of an in contrate value     6 kV       • of analizing vicruit rated value     6 kV       • at AC     13,5g / 5 ms, 5,3g / 10 ms       • at AC     13,5g / 5 ms, 8,3g / 10 ms       • at AC     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     0 0       • of the contactor with added auxiliary switch bl  | General technical data  |                            |
| • function module for communication     No       • auxiliary switch     Yes       power loss [W] for rated value of the current     -       • at AC in hot operating state     9.6 W       • at AC in hot operating state per pole     3.2 W       • without load current share typical     2.7 W       insulation voitage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit with degree of pollution 3 rated value     64 kV       • of main circuit rated value     6 kV       • of main circuit rated value     6 kV       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     10 V       • of auxiliary circuit rated value     6 kV       • at AC     8,3g / 5 ms, 8,3g / 10 ms       shock resistance with sine pulse     10 000 000       • at AC     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the   | size of contactor   | S0                         |
| • audilary switch     Yes       power loss [W] for rated value of the current     9.6 W       • at AC in hot operating state     9.6 W       • at AC in hot operating state per pole     3.2 W       • without load current share typical     2.7 W       insulation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     690 V       • of main circuit rated value     6 kV       • of auxiliary circuit with degree of pollution 3 rated value     600 V       surge voltage resistance     6 kV       • of auxiliary circuit with degree of pollution 3 rated value     600 V       adm and circuit rated value     6 kV       • of auxiliary circuit with degree of polletive separation between coll and main contacts according to EN 60947-1     8/0 V       shock resistance with sine pulse     8.3g / 5 ms, 8,3g / 10 ms       • at AC     8.3g / 5 ms, 8,3g / 10 ms       mechanical service life (operating cycles)     10 000 000       • of contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added elec   | product extension   |                            |
| power loss [W] for rated value of the current         9.6 W           • at AC in hot operating state per pole         3.2 W           • without load current share typical         2.7 W           insulation voltage         600 V           • of main circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit with degree of pollution 3 rated value         690 V           • of auxiliary circuit rated value         64 V           • of main circuit with degree of pollution 3 rated value         64 V           • of main circuit rated value         64 V           • of main circuit rated value         64 V           • of auxiliary circuit rated value         64 V           • at AC         8.3g / 5 ms, 5.3g / 10 ms           shock resistance with sine pulse         8.3g / 5 ms, 5.3g / 10 ms           • at AC         13.5g / 5 ms, 8.3g / 10 ms           mechanical service life (operating cycles)         10 000 000           • of the contactor with added auxiliary switch block typical         10 000 000           • of the contactor with added auxiliary   | <ul> <li>function module for communication</li> </ul>                           | No                         |
| • at AC in hot operating state     9.6 W       • at AC in hot operating state price     3.2 W       • without load current share typical     2.7 W       insultation voltage     690 V       • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       • of main circuit rated value     690 V       • of auxiliary circuit rated value     6 k/V       • of auxiliary circuit rated value     8.3g / 5 ms, 5.3g / 10 ms       shock resistance at rectangular impulse     13.5g / 5 ms, 8.3g / 10 ms       • at AC     13.5g / 5 ms, 8.3g / 10 ms       rechanical service life (operating cycles)     10 000 000       • of the contactor with added electronically optimized     2000 00       auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added electronically optimized     2000 m  | auxiliary switch  | Yes                        |
| • ett AC in hot operating state per pole       3.2 W         • without load current share typical       2.7 W         Insulation voltage       6         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       690 V         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • of main circuit with degree of pollution 2 rated value       6 kV         • of main circuit vitated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       4.00 V         • at AC       8.3g / 5 ms, 8.3g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000  | power loss [W] for rated value of the current                                   |                            |
| • without load current share typical       2.7 W         insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       690 V         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between       400 V         • at AC       8,3g / 5 ms, 5,3g / 10 ms         • at AC       13,5g / 5 ms, 8,3g / 10 ms         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       1001/2009         Ambient conditions       -55 +60 °C         • during torage       -55 +60 °C         • during storage       -5   | <ul> <li>at AC in hot operating state</li> </ul>                                | 9.6 W                      |
| Insulation voltage       690 V         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       690 V         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       8.3g / 5 ms, 5.3g / 10 ms         • at AC       8.3g / 5 ms, 8.3g / 10 ms         shock resistance with sine pulse       13.5g / 5 ms, 8.3g / 10 ms         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient temperature       -         • during storage       -25 +60 °C         • during storage       -55 +8  | <ul> <li>at AC in hot operating state per pole</li> </ul>                       | 3.2 W                      |
| • of main circuit with degree of pollution 3 rated value     690 V       • of auxiliary circuit with degree of pollution 3 rated value     690 V       surge voltage resistance     6 kV       • of main circuit rated value     6 kV       maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1     400 V       shock resistance at rectangular impulse     6 kV       • at AC     8,3g / 5 ms, 5,3g / 10 ms       shock resistance with sine pulse     13,5g / 5 ms, 8,3g / 10 ms       • at AC     13,5g / 5 ms, 8,3g / 10 ms       mechanical service life (operating cycles)     10 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliar | <ul> <li>without load current share typical</li> </ul>                          | 2.7 W                      |
| • of auxiliary circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       8.3g / 5 ms, 5.3g / 10 ms         • at AC       8.3g / 5 ms, 8.3g / 10 ms         • at AC       13.5g / 5 ms, 8.3g / 10 ms         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary witch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during storage       -55 +60 °C   | insulation voltage  |                            |
| surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       8,3g / 5 ms, 5,3g / 10 ms         • at AC       8,3g / 5 ms, 5,3g / 10 ms         shock resistance with sine pulse       -         • at AC       13,5g / 5 ms, 8,3g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of the contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         ambient temperature       -25 +60 °C         • during sporage       -25 +60 °C         • during storage       -55 +80 °C         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       95 %     <  | <ul> <li>of main circuit with degree of pollution 3 rated value</li> </ul>      | 690 V                      |
| • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       8,3g / 5 ms, 5,3g / 10 ms         shock resistance with sine pulse       8,3g / 5 ms, 8,3g / 10 ms         • at AC       13,5g / 5 ms, 8,3g / 10 ms         mechanical service life (operating cycles)       0 000 000         • of the contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         ambient temperature       -55 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minum       10 %         95 %       95 %  | <ul> <li>of auxiliary circuit with degree of pollution 3 rated value</li> </ul> | 690 V                      |
| • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       400 V         • at AC       8,3g / 5 ms, 5,3g / 10 ms         shock resistance with sine pulse       -         • at AC       13,5g / 5 ms, 8,3g / 10 ms         mechanical service life (operating cycles)       -         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Amblent conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         95 %       95 %  | surge voltage resistance  |                            |
| maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse <ul> <li>at AC</li> <li>8,3g / 5 ms, 5,3g / 10 ms</li> </ul> shock resistance with sine pulse <ul> <li>at AC</li> <li>13,5g / 5 ms, 8,3g / 10 ms</li> </ul> mechanical service life (operating cycles) <ul> <li>of contactor typical</li> <li>10 000 000</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>10 000 000</li> </ul> 10 000 000           reference code according to IEC 81346-2         Q           Substance Prohibitance (Date)         10/01/2009           Ambient conditions         2 000 m           installation altitude at height above sea level maximum         2 000 m           ambient temperature <ul> <li>during operation</li> <li>-25 +60 °C</li> <li>etative humidity minimum</li> <li>10 %</li> <li>95 %</li> </ul>  | <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 AC       8,3g / 5 ms, 5,3g / 10 ms         shock resistance with sine pulse         • at AC       13,5g / 5 ms, 8,3g / 10 ms         mechanical service life (operating cycles)         • of contactor typical         • of the contactor with added electronically optimized auxiliary switch block typical         • of the contactor with added auxiliary switch block typical         • of the contactor with added auxiliary switch block typical         • of the contactor with added auxiliary switch block typical         • of the contactor with added auxiliary switch block typical         • of the contactor with added auxiliary switch block typical         • of the contactor with added auxiliary switch block typical         • of the contactor with added auxiliary switch block typical         • of the contactor (Date)         10 /00 /000         reference code according to IEC 81346-2         Q         Substance Prohibitance (Date)         Installation altitude at height above sea level maximum         2 000 m         ambient temperature         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         <   | <ul> <li>of auxiliary circuit rated value</li> </ul>                            | 6 kV                       |
| • at AC8,3g / 5 ms, 5,3g / 10 msshock resistance with sine pulse   |   | 400 V                      |
| shock resistance with sine pulse       in 3,5g / 5 ms, 8,3g / 10 ms         e at AC       13,5g / 5 ms, 8,3g / 10 ms         mechanical service life (operating cycles)       in 0 000 000         • of contactor typical       10 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       40 in circuit  | shock resistance at rectangular impulse   |                            |
| • at AC13,5g / 5 ms, 8,3g / 10 msmechanical service life (operating cycles)0• of contactor typical10 000 000• of the contactor with added electronically optimized<br>auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum<br>e during operation<br>• during storage2 000 mrelative humidity minimum10 %relative humidity minimum10 %maximum95 %   | • at AC   | 8,3g / 5 ms, 5,3g / 10 ms  |
| mechanical service life (operating cycles)       10 000 000         • of contactor typical       5 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit   | shock resistance with sine pulse  |                            |
| • of contactor typical10 000 000• of the contactor with added electronically optimized<br>auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature<br>• during operation<br>• during storage-25 +60 °Crelative humidity minimum<br>relative humidity minimum10 %relative humidity at 55 °C according to IEC 60068-2-30<br>maximum95 %  | • at AC   | 13,5g / 5 ms, 8,3g / 10 ms |
| • of the contactor with added electronically optimized<br>auxiliary switch block typical5 000 000• of the contactor with added auxiliary switch block typical10 000 000reference code according to IEC 81346-2QSubstance Prohibitance (Date)10/01/2009Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature<br>• during operation-25 +60 °C• during storage-55 +80 °Crelative humidity minimum10 %Main circuit  | mechanical service life (operating cycles)                                      |                            |
| auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         Main circuit       95 %  | <ul> <li>of contactor typical</li> </ul>  | 10 000 000                 |
| reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2009         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         Main circuit       95 %  |   | 5 000 000                  |
| Substance Prohibitance (Date)       10/01/2009         Ambient conditions       10/01/2009         installation altitude at height above sea level maximum       2 000 m         ambient temperature       2 000 m         • during operation       -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 %  | <ul> <li>of the contactor with added auxiliary switch block typical</li> </ul>  | 10 000 000                 |
| Ambient conditions         installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during operation       -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 %         Main circuit  | reference code according to IEC 81346-2   | Q                          |
| installation altitude at height above sea level maximum       2 000 m         ambient temperature <ul> <li>during operation</li> <li>-25 +60 °C</li> <li>during storage</li> <li>-55 +80 °C</li> </ul> relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30 maximum       95 %         Main circuit       4   | Substance Prohibitance (Date)   | 10/01/2009                 |
| ambient temperature     -25 +60 °C       • during operation     -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 %       Main circuit   | Ambient conditions  |                            |
| • during operation     -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 %       Main circuit  | installation altitude at height above sea level maximum                         | 2 000 m                    |
| • during storage     -55 +80 °C       relative humidity minimum     10 %       relative humidity at 55 °C according to IEC 60068-2-30 maximum     95 %       Main circuit  | ambient temperature   |                            |
| relative humidity minimum       10 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       95 %   | during operation  | -25 +60 °C                 |
| relative humidity at 55 °C according to IEC 60068-2-30 95 % Main circuit   | during storage  | -55 +80 °C                 |
| maximum Main circuit   | relative humidity minimum   | 10 %                       |
|  |   | 95 %                       |
| number of poles for main current circuit 3   | Main 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              |
| <ul> <li>at AC-3e rated value maximum</li> </ul>   | 690 V              |
| operational current  |                    |
| • at AC-1 at 400 V at ambient temperature 40 °C rated  | 50 A               |
| value  |                    |
| • at AC-1  |                    |
| — up to 690 V at ambient temperature 40 °C rated<br>value  | 50 A               |
| — up to 690 V at ambient temperature 60 °C rated   | 42 A               |
| value  |                    |
| • at AC-3  |                    |
| — at 400 V rated value   | 38 A               |
| — at 500 V rated value   | 32 A               |
| — at 690 V rated value   | 21 A               |
| • at AC-3e   |                    |
| — at 400 V rated value   | 38 A               |
| — at 500 V rated value   | 32 A               |
| — at 690 V rated value   | 21 A               |
| at AC-4 at 400 V rated value   | 22 A               |
| at AC-5a up to 690 V rated value   | 44 A               |
| • at AC-5b up to 400 V rated value   | 31.5 A             |
| • at AC-6a   | 30.8 A             |
| — up to 230 V for current peak value n=20 rated value  |                    |
| — up to 400 V for current peak value n=20 rated value  | 30.8 A<br>30.8 A   |
| <ul> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> </ul> | 21 A               |
| • at AC-6a   | 21A                |
| <ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul>  | 20.5 A             |
| — up to 200 V for current peak value n=30 rated value  | 20.5 A             |
| — up to 500 V for current peak value n=30 rated value  | 21.4 A             |
| — up to 690 V for current peak value n=30 rated value  | 21 A               |
| minimum cross-section in main circuit at maximum AC-1 rated  | 10 mm <sup>2</sup> |
| value  |                    |
| operational current for approx. 200000 operating cycles at AC-4  |                    |
| at 400 V rated value   | 12 A               |
| at 690 V rated value   | 12 A               |
| operational current  |                    |
| <ul> <li>at 1 current path at DC-1</li> </ul>  |                    |
| — at 24 V rated value  | 35 A               |
| — at 60 V rated value  | 20 A               |
| — at 110 V rated value   | 4.5 A              |
| — at 220 V rated value   | 1 A                |
| — at 440 V rated value   | 0.4 A              |
| — at 600 V rated value   | 0.25 A             |
| • with 2 current paths in series at DC-1   |                    |
| — at 24 V rated value  | 35 A               |
| — at 60 V rated value  | 35 A               |
| — at 110 V rated value   | 35 A               |
| — at 220 V rated value   | 5 A                |
| — at 440 V rated value   | 1 A                |
| — at 600 V rated value   | 0.8 A              |
| <ul> <li>with 3 current paths in series at DC-1</li> </ul>   |                    |
| — at 24 V rated value  | 35 A               |
| — at 60 V rated value  | 35 A               |
| — at 110 V rated value   | 35 A               |
| — at 220 V rated value   | 35 A               |
| — at 440 V rated value   | 2.9 A              |
| — at 600 V rated value   | 1.4 A              |
| <ul> <li>at 1 current path at DC-3 at DC-5</li> </ul>  |                    |

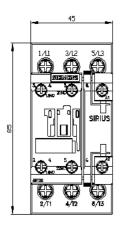
| — at 24 V rated value   | 20 A   |
|---|--|
| — at 60 V rated value   | 5 A  |
| — at 220 V rated value  | 1 A  |
| — at 440 V rated value  | 0.09 A   |
| — at 600 V rated value  | 0.06 A   |
| <ul> <li>with 2 current paths in series at DC-3 at DC-5</li> </ul>  |  |
| — at 24 V rated value   | 35 A   |
| — at 60 V rated value   | 35 A   |
| — at 110 V rated value  | 15 A   |
| — at 220 V rated value  | 3 A  |
| — at 440 V rated value  | 0.27 A   |
| — at 600 V rated value  | 0.16 A   |
| <ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>  |  |
| — at 24 V rated value   | 35 A   |
| — at 60 V rated value   | 35 A   |
| — at 110 V rated value  | 35 A   |
| — at 220 V rated value  | 10 A   |
| — at 440 V rated value  | 0.6 A  |
| — at 600 V rated value  | 0.6 A  |
|   |  |
| operating power   |  |
| • at AC-3   | 11 MA  |
| — at 230 V rated value  | 11 kW  |
| — at 400 V rated value  | 18.5 kW  |
| — at 500 V rated value  | 18.5 kW  |
| — at 690 V rated value  | 18.5 kW  |
| • at AC-3e  |  |
| — at 230 V rated value  | 11 kW  |
| — at 400 V rated value  | 18.5 kW  |
| — at 500 V rated value  | 18.5 kW  |
| — at 690 V rated value  | 18.5 kW  |
| operating power for approx. 200000 operating cycles at AC-<br>4   |  |
|   |  |
| at 400 V rated value  | 6 kW   |
| • at 400 V rated value  |  |
| <ul><li>at 400 V rated value</li><li>at 690 V rated value</li></ul>   | 6 kW<br>10.3 kW  |
| at 400 V rated value     at 690 V rated value     operating apparent power at AC-6a   | 10.3 kW  |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> </ul>  | 10.3 kW<br>12.2 kVA  |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul> <b>operating apparent power at AC-6a</b> <ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> </ul>  | 10.3 kW<br>12.2 kVA<br>21.3 kVA  |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul> <b>operating apparent power at AC-6a</b> <ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> </ul>   | 10.3 kW<br>12.2 kVA<br>21.3 kVA<br>26.6 kVA  |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul> <b>operating apparent power at AC-6a</b> <ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> </ul>  | 10.3 kW<br>12.2 kVA<br>21.3 kVA  |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul> <b>operating apparent power at AC-6a</b> <ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> </ul> <b>operating apparent power at AC-6a</b>   | 10.3 kW<br>12.2 kVA<br>21.3 kVA<br>26.6 kVA<br>25 kVA  |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul> <b>operating apparent power at AC-6a</b> <ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=20 rated value</li> </ul>  | 10.3 kW<br>12.2 kVA<br>21.3 kVA<br>26.6 kVA<br>25 kVA<br>8.1 kVA   |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> </ul> <b>operating apparent power at AC-6a</b> <ul> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> </ul>  | 10.3 kW<br>12.2 kVA<br>21.3 kVA<br>26.6 kVA<br>25 kVA<br>8.1 kVA<br>14.2 kVA   |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> </ul>   | 10.3 kW<br>12.2 kVA<br>21.3 kVA<br>26.6 kVA<br>25 kVA<br>8.1 kVA<br>14.2 kVA<br>18.5 kVA   |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>  | 10.3 kW<br>12.2 kVA<br>21.3 kVA<br>26.6 kVA<br>25 kVA<br>8.1 kVA<br>14.2 kVA   |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> </ul>   | 10.3 kW<br>12.2 kVA<br>21.3 kVA<br>26.6 kVA<br>25 kVA<br>8.1 kVA<br>14.2 kVA<br>18.5 kVA   |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>   | 10.3 kW<br>12.2 kVA<br>21.3 kVA<br>26.6 kVA<br>25 kVA<br>8.1 kVA<br>14.2 kVA<br>18.5 kVA   |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>  | 10.3 kW<br>12.2 kVA<br>21.3 kVA<br>26.6 kVA<br>25 kVA<br>8.1 kVA<br>14.2 kVA<br>18.5 kVA<br>25 kVA<br>593 A; Use minimum cross-section acc. to AC-1 rated value  |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>  | 10.3 kW<br>12.2 kVA<br>21.3 kVA<br>26.6 kVA<br>25 kVA<br>8.1 kVA<br>14.2 kVA<br>18.5 kVA<br>25 kVA   |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>  | 10.3 kW<br>12.2 kVA<br>21.3 kVA<br>26.6 kVA<br>25 kVA<br>8.1 kVA<br>14.2 kVA<br>18.5 kVA<br>593 A; Use minimum cross-section acc. to AC-1 rated value<br>341 A; Use minimum cross-section acc. to AC-1 rated value<br>260 A; Use minimum cross-section acc. to AC-1 rated value  |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> </ul>   | 10.3 kW<br>12.2 kVA<br>21.3 kVA<br>26.6 kVA<br>25 kVA<br>8.1 kVA<br>14.2 kVA<br>18.5 kVA<br>25 kVA<br>593 A; Use minimum cross-section acc. to AC-1 rated value<br>341 A; Use minimum cross-section acc. to AC-1 rated value<br>260 A; Use minimum cross-section acc. to AC-1 rated value<br>199 A; Use minimum cross-section acc. to AC-1 rated value   |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 500 V for surrent peak value n=30 rated value</li> <li>up to 500 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 500 V for surrent peak value n=30 rated value</li> <li>up to 500 V for surrent peak value n=30 rated value</li> <li>up to 500 V for surrent peak value n=30 rated value</li> <li>up to 600 V for surrent peak value n=30 rated value</li> <li>up to 600 V for surrent peak value n=30 rated value</li> <li>up to 500 V for surrent peak value n=30 rated value</li> <li>up to 600 V for surrent peak value n=30 rated value</li> <li>up to 600 V for surrent peak value n=30 rated value</li> <li>up to 500 V for surrent peak value n=30 rated value</li> <li>up to 600 V for surrent peak value n=30 rated value</li> <li>up to 600 V for surrent peak value n=30 rated value</li> <li>up to 600 V for surrent peak value n=30 rated value</li> </ul>  | 10.3 kW<br>12.2 kVA<br>21.3 kVA<br>26.6 kVA<br>25 kVA<br>8.1 kVA<br>14.2 kVA<br>18.5 kVA<br>593 A; Use minimum cross-section acc. to AC-1 rated value<br>341 A; Use minimum cross-section acc. to AC-1 rated value<br>260 A; Use minimum cross-section acc. to AC-1 rated value  |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 500 V for surrent peak value n=30 rated value</li> <li>up to 500 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li>up to 690 V for surrent peak value n=30 rated value</li> <li></li></ul>  | <ul> <li>10.3 kW</li> <li>12.2 kVA</li> <li>21.3 kVA</li> <li>26.6 kVA</li> <li>25 kVA</li> <li>8.1 kVA</li> <li>14.2 kVA</li> <li>18.5 kVA</li> <li>25 kVA</li> <li>593 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>341 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>260 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>199 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>199 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>199 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>162 A; Use minimum cross-section acc. to AC-1 rated value</li> </ul>  |
| <ul> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>operating apparent power at AC-6a</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 400 V for current peak value n=20 rated value</li> <li>up to 500 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 690 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=20 rated value</li> <li>up to 230 V for current peak value n=30 rated value</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>to 10 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>limited to 60 s switching at zero current maximum</li></ul>  | 10.3 kW<br>12.2 kVA<br>21.3 kVA<br>26.6 kVA<br>25 kVA<br>8.1 kVA<br>14.2 kVA<br>18.5 kVA<br>25 kVA<br>593 A; Use minimum cross-section acc. to AC-1 rated value<br>341 A; Use minimum cross-section acc. to AC-1 rated value<br>260 A; Use minimum cross-section acc. to AC-1 rated value<br>199 A; Use minimum cross-section acc. to AC-1 rated value   |
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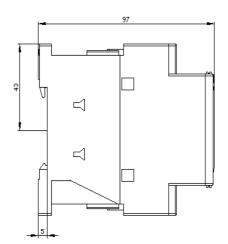
| control supply voltage at AC  |   |
|---|---|
| • at 50 Hz rated value  | 24 V  |
| • at 60 Hz rated value  | 24 V  |
| operating range factor control supply voltage rated value of<br>magnet coil at AC |   |
| ● at 50 Hz  | 0.8 1.1   |
| • at 60 Hz  | 0.85 1.1  |
| apparent pick-up power of magnet coil at AC                                       |   |
| ● at 50 Hz  | 81 VA   |
| • at 60 Hz  | 79 VA   |
| inductive power factor with closing power of the coil                             |   |
| • at 50 Hz  | 0.72  |
| • at 60 Hz  | 0.74  |
| apparent holding power of magnet coil at AC                                       |   |
| • at 50 Hz  | 10.5 VA   |
| • at 60 Hz  | 8.5 VA  |
| inductive power factor with the holding power of the coil                         |   |
| • at 50 Hz  | 0.25  |
| • at 60 Hz  | 0.28  |
| closing delay   |   |
| • at AC   | 8 40 ms   |
| opening delay   |   |
| • at AC   | 4 16 ms   |
| arcing time   | 10 10 ms  |
| control version of the switch operating mechanism                                 | Standard A1 - A2                                |
| Auxiliary circuit   |   |
| number of NC contacts for auxiliary contacts instantaneous<br>contact             | 1   |
| number of NO contacts for auxiliary contacts instantaneous contact                | 1   |
| operational current at AC-12 maximum  | 10 A  |
| operational current at AC-15  |   |
| at 230 V rated value  | 10 A  |
| at 400 V rated value  | 3 A   |
| • at 500 V rated value  | 2 A   |
| at 690 V rated value  | 1A  |
| 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 100 V rated value  | 3 A   |
| at 125 V rated value  | 2 A   |
| at 220 V rated value  | 1A  |
| at 220 V rated value     at 600 V rated value                                     | 0.15 A  |
| operational current at DC-13  |   |
| • at 24 V rated value   | 10 A  |
| at 24 V rated value     at 48 V rated value                                       | 2 A   |
| at 46 V rated value     at 60 V rated value                                       | 2 A<br>2 A                                      |
|   | 2 A<br>1 A                                      |
| <ul> <li>at 110 V rated value</li> <li>at 125 V rated value</li> </ul>            | 1 A<br>0.9 A                                    |
| at 125 V rated value     at 220 V rated value                                     |   |
|   | 0.3 A   |
| at 600 V rated value  | 0.1 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  | 34 A  |
| at 600 V rated value  | 27 A  |
| yielded mechanical performance [hp]   |   |
| e tor single phase AC motor   |   |
| for single-phase AC motor   |   |
| - at 110/120 V rated value<br>- at 230 V rated value                              | 3 hp<br>5 hp                                    |

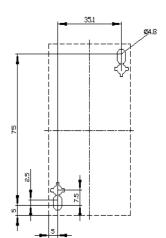
|  | e for 3 phase AC motor   |  |  |  |
|--|--|--|--|--|
|  | <ul> <li>for 3-phase AC motor</li> <li>— at 200/208 V rated value</li> </ul> | 10 hp  |  |  |
|  |  | •  |  |  |
|  |  |  |  |  |
| context rating of auxiliary contacts according to UL     AB00 / P800       Short circuit protection of the main circuit  |  |  |  |  |
| Short-Cruck protection           design of the fuse link           - with type of conditation 1 required           - with type of conditation 1 required           - with type of assignment 2 required           - with table type of assignment 2 required           - stath-type of assignment 2 required           - stath-type of assignment 2 required           - with table type of assignment 2 required           - of type area           - of type area   |  |  |  |  |
| design of the face link         • for short-Encut protection of the main circuit   |  | A00071000  |  |  |
| - for short-circuit protection of the main circuit.     - with type of assignment 2 required     - with a sole mounting     - with a sole     -   |  |  |  |  |
| - with type of consignment 2 required<br>of a storic of the auxiliary switch require<br>g6: 50, (600V, 100kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA)<br>g6: 50, (600V, 100kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA)<br>g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA)<br>g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA)<br>g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA)<br>g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA)<br>g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA)<br>g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA)<br>g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA)<br>g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA)<br>g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA)<br>g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA)<br>g6: 10A, (500 V, 1.0kA), abt. 25A, (690V, 100kA), BSB: 12A, (15V, 30KA)<br>g7, (14V, 14V, 14V, 14V, 14V, 14V, 14V, 14V,  | -  |  |  |  |
| - with "pee of assignment 2 required<br>of a SAA (680V, 100AA), adv. 25A (690V, 100AA), BSB8: 50A (415V, 80AA)<br>gG: 10 A (500 V, 1 BA)<br>mounting position<br>belower and samp-or mounting surface; can be filted forward and<br>belower and samp-or mounting surface; can be filted forward and<br>belower and samp-or mounting surface; can be filted forward and<br>belower and samp-or mounting surface; can be filted forward and<br>belower and samp-or mounting surface; can be filted forward and<br>belower and samp-or mounting surface; can be filted forward and<br>belower and samp-or mounting surface; can be filted forward and<br>belower and samp-or mounting surface; can be filted forward and<br>belower and samp-or mounting surface; can be filted forward and<br>belower and samp-or mounting surface; can be filted forward and<br>belower and samp-or mounting surface; can be filted forward and<br>belower and samp-or mounting surface; can be filted forward and<br>belower and samp-or mounting surface; can be filted forward and<br>belower and samp-or mounting surface; can be filted forward and<br>- forwards<br>- forwards<br>- downards<br>- downards<br>- downards<br>- of a sub filted polited<br>- downards<br>- downards<br>- forwards<br>- forwards<br>- downards<br>- downar | -  | aG: 1254 (690V/ 100k4) aM: 504 (690V/ 100k4) BS88: 1254 (415V/ 80k4)                           |  |  |
| • for short-struit protection of the auxiliary switch: required<br>installation (mounting) definerations         gG: 10 A (500 V, 1 kA)           Installation (mounting) settion         +-160° rotation possible on vertical mounting surface; can be tilted forward and<br>backward by +-22.5° on vertical mounting surface;<br>e side-by-side mounting         Set   |  |  |  |  |
| Instalation/mounting/dimensions  |  |  |  |  |
| meuring position         +i-180° rotation possible on vertical mounting surface:<br>solve by side mounting           festening method         screw and snap-on mounting onto 35 mm DIN reli according to DIN EN 60715           • side by side mounting         Yes           beight         85 mm           vidth         45 mm           depth         97 mm           required spacing         97 mm           • with side by side mounting         10 mm           - upwards         10 mm           - domwards         10 mm           - upwards         10 mm   |  | 30.1077(000 4, 1107)   |  |  |
| Image: Second   |  | +/-180° rotation possible on vertical mounting surface: can be tilted forward and              |  |  |
| • side-by-side mounting       Yes         height       85 mm         width       45 mm         depth       97 mm         required spacing       97 mm         • with side-by-side mounting       -         - forwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - for grounded parts       -         - for grounded parts       0 mm         - at the side       6 mm         - downwards       10 mm         - at the side       6 mm         - downwards       10 mm         - for and corntol circuit       screw-  |  |  |  |  |
| height       86 mm         width       45 mm         depth       97 mm         required spacing       97 mm         • with side by-side mounting       10 mm         - upwards       10 mm         - downwards       10 mm         - downwards       10 mm         - drawads       10 mm         - drawaliary and control circuit <t< td=""><td>fastening method</td><td>screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715</td></t<>  | fastening method   | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715                       |  |  |
| width     45 mm       depth     97 mm       required spacing     97 mm       - forwards     10 mm       - upwards     10 mm       - downwards     10 mm       - of majnet coll     Screw-type terminals       type of connectable conductor cross-sections for main contacts       - solid     scl - 2.5 mm <sup>2</sup> ), 2  | <ul> <li>side-by-side mounting</li> </ul>                                    | Yes  |  |  |
| depth     97 mm       required spacing     97 mm       • with side by-side mounting     - forwards       - upwards     10 mm       - upwards     10 mm       - at the side     0 mm       - at the side     0 mm       - forwards     10 mm       - at the side     0 mm       - downwards     10 mm       - of rauxilary and control circuit     screw-type terminals       * of magnet coil     Screw-type terminals       • of magnet coil     Screw-type terminals       !ype of olectricul for auxilary contacts     Screw-type terminals       • solid or stranded     1 10 mm <sup>2</sup> • finely stranded with core end processing     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )  | height   | 85 mm  |  |  |
| required spacing         • with side-by-side mounting        forwards       10 mm        upwards       10 mm        downwards       0 mm        downwards       10 mm        forwards       10 mm        forwards       10 mm        forwards       10 mm        upwards       10 mm        forwards       10 mm        downwards       10 mm <td>width</td> <td>45 mm</td>   | width  | 45 mm  |  |  |
| with side-by-side mounting         forwards         forwards         forwards         forwards         forwards         downwards         downwards         downwards         downwards         forwards         downwards  | depth  | 97 mm  |  |  |
| - forwards10 mm upwards10 mm upwards10 mm at the side0 mm at the side0 mm for grounded parts10 mm upwards10 mm upwards10 mm upwards10 mm upwards10 mm downwards10 mm downwards5 mm downwards10 mm downwards10 mm downwards5 mm<   | required spacing   |  |  |  |
| upwards10 mmdownwards00 mmforvards00 mmforvards10 mmupwards10 mmupwards10 mmupwards10 mmupwards10 mmdownwards10 mmdownwards10 mmforvards10 mmdownwards10 mmdownwards10 mmupwards10 mmdownwards10 mmdownwards10 mmupwards10 mmdownwards00 mmdownwards10 mmdownwardsScrew-type terminalsdownwardsScrew-type terminalsdownwardsScrew-type terminalsorable conductor cross-sections for main contactsScrew-type terminalsorable conductor cross-section for main contacts2x (1 25 mm²), 2x (2.5 10 mm²)orable conductor cross-section for main contacts  | <ul> <li>with side-by-side mounting</li> </ul>                               |  |  |  |
| -<br>or maximum of the standed parts10 mm $-$ at the side0 mm $-$ forwards10 mm $-$ upwards10 mm $-$ upwards0 mm $-$ at the side6 mm $-$ downwards10 mm $-$ for auxiliary contacts2 crew-type terminals $-$ solid2 crews-type terminals $-$ solid or stranded1 10 mm² $-$ solid or stranded0.5 2.5 mm²), 2x (2.5 16 mm²), 1x 10 mm² $-$ finely s  |  |  |  |  |
| at the side0 mm• for grounded parts10 mm forwards10 mm upwards10 mm at the side6 mm at the side10 mm downwards10 mm downwards10 mm forwards10 mm upwards10 mm upwards10 mm upwards10 mm upwards10 mm upwards10 mm at the side6 mmConnections/ Terminals6 mmConnections/ Terminals5 crew-type terminals• for axiliary and control circuitscrew-type terminals• for axiliary and control circuitscrew-type terminals• of magnet collScrew-type terminals• of axiliary and control circuitscrew-type terminals• of axiliary and control circuitscrew-type terminals• of axiliary and control circuitscrew-type terminals• of axiliary contactsscrew-type terminals• of axiliary contactsscrew-type terminals• of add or stranded2x (1 25 mm²), 2x (25 10 mm²)• inclu stranded with core end processing2x (1 25 mm²), 2x (25 10 mm²)• of inclu stranded with core end processing1 10 mm²• inclu stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• of axiliary contacts 00 mm²• of axiliary contacts 00 mm²• of axiliary contacts 00 mm²• inley stranded with core end processing   |  |  |  |  |
| • for grounded parts       10 mm         - forwards       10 mm         - upwards       10 mm         - downwards       10 mm         - downwards       10 mm         • for live parts       10 mm         - forwards       10 mm         - upwards       10 mm         - downwards       5 mm         Connections/ Terminals       5 mm         Vpe of electrical connection       6 mm         • for awiliary and control circuit       screw-type terminals         • of maulilary contacts       Screw-type terminals         • of magnet coil       Screw-type terminals         • of magnet coil       2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )         • solid or stranded       2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )         • solid or stranded       1 10 mm <sup>2</sup> • onductor cross-section for main contacts       6 may think core end processing         • solid or stranded       1 10 mm <sup>2</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>2</sup> , 2x (0.75 2.5 mm <sup>2</sup> )         • finely stranded with core end processing<  |  |  |  |  |
| -     forwards     10 mm       -     upwards     10 mm       -     at the side     6 mm       -     downwards     10 mm       -     for live parts     10 mm       -     powards     10 mm       -     gowards     10 mm       -     downwards     10 mm       -     gowards     10 mm       -     at the side     6 mm       Connectable Conductor locicult     screw-type terminals       of a magnet coll     Screw-type terminals       type of connectable conductor cross-sections for main contacts     screw-type terminals       • of anganet coll     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       • olid or stranded     2x (1 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )       • olid or stranded     1 10 mm <sup>2</sup> • finely stranded with core end processing     1 10 mm <sup>2</sup> •   |  | 0 mm   |  |  |
| - upwards       10 mm         - at the side       6 mm         - downwards       10 mm         of live parts       10 mm         - forwards       10 mm         - upwards       10 mm         - at the side       6 mm         Connections/Terminals       6 mm         connationation circuit       screw-type terminals         of magnet coil       Screw-type terminals         type of connectable conductor cross-sections for main contacts       screw-type terminals         of magnet coil       2x (1 25 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )         e solid       1 10 mm <sup>2</sup> e stranded       1 10 mm <sup>2</sup> e solid or stranded       0.5 2.5 mm <sup>2</sup> of magnet coil contacts       0.5 2.5 mm <sup>2</sup> e finely stra   | <ul> <li>for grounded parts</li> </ul>                                       |  |  |  |
| at the side     6 mm       downwards     10 mm       • for live parts     10 mm       forwards     10 mm       upwards     10 mm       upwards     10 mm       downwards     10 mm       downwards     10 mm       at the side     6 mm       Connection/Terminals     6 mm       Connection/Terminals     5 crew-type terminals       • for ania current circuit     screw-type terminals       • of magnet coil     Screw-type terminals       • of magnet coil     Screw-type terminals       • of magnet coil     Screw-type terminals       • of standed     2x (1 2.5 mm²), 2x (2.5 10 mm²)       • solid or stranded     2x (1 2.5 mm²), 2x (2.5 10 mm²)       • solid     1 10 mm²       • finely stranded with core end processing     2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²       connectable conductor cross-section for main contacts     0.5 2.5 mm²       • solid or stranded     1 10 mm²       • finely stranded with core end processing     0.5 2.5 mm²       • of auxiliary contacts     0.5 2.5 mm²       • solid or stranded     1 10 mm²       • finely stranded with core end processing     0.5 2.5 mm²       • of auxiliary contacts     0.5 2.5 mm² <td< td=""><td>— forwards</td><td></td></td<>  | — forwards   |  |  |  |
| downwards10 mm• for live parts forwards10 mm- upwards10 mm- downwards10 mm- downwards10 mm- at the side6 mmConnections/ TerminalsScrew-type term   |  |  |  |  |
| <ul> <li>for live parts         <ul> <li>forwards</li> <li>forwards</li> <li>upwards</li> <li>downwards</li> <li>downwards</li> <li>formal</li> <li>downwards</li> <li>formal</li> </ul> </li> <li>downwards</li> <li>formain current circuit</li> <li>for auxiliary and control circuit</li> <li>for auxiliary and control circuit</li> <li>screw-type terminals</li> <li>screw-type terminals</li> <li>of magnet coll</li> <li>Screw-type terminals</li> <li>of magnet coll</li> <li>Screw-type terminals</li> <li>of angent coll</li> <li>Screw-type terminals</li> <li>solid or stranded</li> <li>2x (1 2.5 mm<sup>2</sup>), 2x (2.5 10 mm<sup>2</sup>)</li> <li>finely stranded with core end processing</li> <li>zx (1 2.5 mm<sup>2</sup>), 2x (2.5 10 mm<sup>2</sup>)</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>stranded</li> <li>more and the conductor cross-section for main contacts</li> <li>solid or stranded</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with cor</li></ul>   |  |  |  |  |
| forwards       10 mm         upwards       10 mm         downwards       10 mm         downwards       10 mm         at the side       6 mm         Connections/Terminals         Connection (incurt         • for main current circuit       screw-type terminals         • at contactor for auxiliary contacts       Screw-type terminals         • of magnet coil       Screw-type terminals         type of connectable conductor cross-sections for main contacts       screw-type terminals         • solid       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         • solid or stranded       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         • forley stranded with core end processing       2x (1 2.5 mm <sup>3</sup> ), 2x (2.5 10 mm <sup>3</sup> )         • solid       1 10 mm <sup>3</sup> • solid or stranded       1 10 mm <sup>3</sup> • solid or stranded       0.5 2.5 mm <sup>3</sup> , 2x (2.5 6 mm <sup>3</sup> ), 1x 10 mm <sup>2</sup> connectable conductor cross-section for auxiliary contacts       solid or stranded         • solid or stranded       0.5 2.5 mm <sup>3</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>3</sup> • finely stranded with core end processing       0.5 2.5 mm <sup>3</sup> • for auxiliary contacts       - solid or strande   |  | 10 mm  |  |  |
| upwards     10 mm      downwards     10 mm      downwards     10 mm      at the side     6 mm       Connections/ Torminals     6 mm       type of electrical connection     6 mm       • for main current circuit     screw-type terminals       • at contactor for auxiliary contacts     Screw-type terminals       • of magnet coll     Screw-type terminals       • of magnet coll     Screw-type terminals       • of magnet coll     Screw-type terminals       • solid     2x (1 2.5 mm²), 2x (2.5 10 mm²)       • solid or stranded     2x (1 2.5 mm²), 2x (2.5 10 mm²)       • solid     1 10 mm²       • solid or stranded     1 10 mm²       • solid or stranded     0.5 2.5 mm²       • solid or stranded     0.5 2.5 mm²       • solid or stranded     0.5 2.5 mm²       • finely stranded with core end processing     0.5 2.5 mm²       • solid or stranded     0.5 2.5 mm²       • solid or stranded     0.5 2.5 mm²       • for auxiliary contacts     - solid or stranded       • solid or stranded     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       • for auxiliary contacts     - solid or stranded       • solid or stranded     2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)       • for auxiliary contacts  |  |  |  |  |
|  |  |  |  |  |
| at the side       6 mm         Connections/ Terminals         type of electrical connection         • for main current circuit       screw-type terminals         • at contactor for auxiliary contacts       Screw-type terminals         • of magnet coil       Screw-type terminals         type of connectable conductor cross-sections for main contacts       Screw-type terminals         • solid       2x (1 2.5 mm²), 2x (2.5 10 mm²)         • solid or stranded       2x (1 2.5 mm²), 2x (2.5 10 mm²)         • finely stranded with core end processing       2x (1 2.5 mm²), 2x (2.5 10 mm²)         • solid       1 10 mm²         • solid       1 10 mm²         • stranded       1 10 mm²         • solid or stranded       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • finely stranded       0.5 2.5 mm²         • finely stranded       0.5 2.5 mm²         • finely stranded       0.5 2.5 mm²)         • finely stranded       0.5 2.5 mm²)         • finely stranded with core end processing </td <td></td> <td></td>  |  |  |  |  |
| Connections/ Terminals         type of electrical connection         • for main current circuit       screw-type terminals         • at contactor for auxiliary contacts       Screw-type terminals         • at contactor for auxiliary contacts       Screw-type terminals         • of magnet coil       Screw-type terminals         type of connectable conductor cross-sections for main contacts       Screw-type terminals         • solid       2x (1 2.5 mm²), 2x (2.5 10 mm²)         • solid or stranded       2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²         connectable conductor cross-section for main contacts       1 10 mm²         • solid       1 10 mm²         • stranded       1 10 mm²         • finely stranded with core end processing       1 10 mm²         • solid or stranded       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         • for auxiliary contacts       - solid or stranded         • for auxiliary contacts       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • finely stranded with core end processing       2x (0.5  |  |  |  |  |
| type of electrical connection• for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)• finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²connectable conductor cross-section for main contacts1 10 mm²• solid1 10 mm²• solid or stranded0.5 2.5 mm²)• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross2x (20 16), 2x (18 14)  |  | 6 mm   |  |  |
| • for main current circuitscrew-type terminals• for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contactsScrew-type terminals• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• solid1 10 mm²• solid or stranded1 10 mm²• stranded1 10 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts- solid or stranded• for auxiliary contacts- solid or strand   |  |  |  |  |
| • for auxiliary and control circuitscrew-type terminals• at contactor for auxiliary contactsScrew-type terminals• of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contacts2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)• finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²• solid1 10 mm²• solid1 10 mm²• solid or stranded1 10 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.  |  |  |  |  |
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| • of magnet coilScrew-type terminalstype of connectable conductor cross-sections for main contacts<br>• solid2x (1 2.5 mm²), 2x (2.5 10 mm²)• solid or stranded2x (1 2.5 mm²), 2x (2.5 10 mm²)• finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²connectable conductor cross-section for main contacts<br>• solid1 10 mm²• solid1 10 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing1 10 mm²• finely stranded with core end processing0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross<br>section2x (20 16), 2x (18 14)   | -  |  |  |  |
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| <ul> <li>solid</li> <li>2x (1 2.5 mm<sup>2</sup>), 2x (2.5 10 mm<sup>2</sup>)</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>2x (1 2.5 mm<sup>2</sup>), 2x (2.5 10 mm<sup>2</sup>)</li> <li>2x (1 2.5 mm<sup>2</sup>), 2x (2.5 6 mm<sup>2</sup>), 1x 10 mm<sup>2</sup></li> <li>connectable conductor cross-section for main contacts</li> <li>solid</li> <li>1 10 mm<sup>2</sup></li> <li>stranded</li> <li>finely stranded with core end processing</li> <li>1 10 mm<sup>2</sup></li> <li>finely stranded with core end processing</li> <li>1 10 mm<sup>2</sup></li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>o.5 2.5 mm<sup>2</sup></li> <li>finely stranded with core end processing</li> <li>0.5 2.5 mm<sup>2</sup></li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> <li>a solid or stranded</li> <li>for auxiliary contacts</li> <li>a solid or stranded with core end processing</li> <li>a solid or stranded</li> <li>b solid or stranded</li> <li>connectable conductor cross-sections</li> <li>a for auxiliary contacts</li> <li>a solid or stranded</li> <li>contacts</li> <li>a solid or stranded</li> <li>b solid or stranded</li> <li>contacts</li> <li>a solid or stranded</li> <li>b solid or stranded</li> <li>contacts</li> <li>a solid or stranded</li> <li>b solid or stranded</li> <li>contacts</li> <li>conductor cross sections</li> <li>a solid or stranded</li> <li>b solid or stranded</li> <li>contacts</li> <li>contacts</li> <li>conductor cross section</li> <li>contacts</li> <li>contacts</li> <li>contacts</li> <li>contacts</li> <li>contacts</li> <li>contacts</li> <li>contacts</li> <li>contactacts</li> <li>contactacts</li> <li>c</li></ul>   | · · · · · · · · · · · · · · · · · · ·  | ou cw-type terminals   |  |  |
| • solid or stranded $2x (1 2.5 mm^2), 2x (2.5 10 mm^2)$ • finely stranded with core end processing $2x (1 2.5 mm^2), 2x (2.5 6 mm^2), 1x 10 mm^2$ connectable conductor cross-section for main contacts $1 10 mm^2$ • solid $1 10 mm^2$ • stranded $1 10 mm^2$ • finely stranded with core end processing $1 10 mm^2$ connectable conductor cross-section for auxiliary contacts $0.5 2.5 mm^2$ • solid or stranded $0.5 2.5 mm^2$ • finely stranded with core end processing $0.5 2.5 mm^2$ • finely stranded with core end processing $0.5 2.5 mm^2$ • finely stranded with core end processing $0.5 2.5 mm^2$ • finely stranded with core end processing $0.5 2.5 mm^2$ • finely stranded with core end processing $0.5 2.5 mm^2$ • finely stranded with core end processing $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • finely stranded with core end processing $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • finely stranded with core end processing $2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$ • for AWG cables for auxiliary contacts $2x (20 16), 2x (18 14)$ AWG number as coded connectable conductor cross<br>section $2x (20 16), 2x (18 14)$   |  | $2x (1 - 2.5 \text{ mm}^2) 2x (2.5 - 10 \text{ mm}^2)$   |  |  |
| • finely stranded with core end processing2x (1 2.5 mm²), 2x (2.5 6 mm²), 1x 10 mm²connectable conductor cross-section for main contacts1 10 mm²• solid1 10 mm²• stranded1 10 mm²• finely stranded with core end processing1 10 mm²connectable conductor cross-section for auxiliary contacts0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²• finely or connectable conductor cross-sections0.5 2.5 mm²• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)- finely stranded with core end processing2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross<br>section2x (20 16), 2x (18 14)   |  |  |  |  |
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| • finely stranded with core end processing1 10 mm²connectable conductor cross-section for auxiliary contacts0.5 2.5 mm²• solid or stranded0.5 2.5 mm²• finely stranded with core end processing0.5 2.5 mm²type of connectable conductor cross-sections2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for auxiliary contacts2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)• for AWG cables for auxiliary contacts2x (20 16), 2x (18 14)AWG number as coded connectable conductor cross2x (20 16), 2x (18 14)   |  |  |  |  |
| connectable conductor cross-section for auxiliary contacts       0.5 2.5 mm²         • solid or stranded       0.5 2.5 mm²         • finely stranded with core end processing       0.5 2.5 mm²         type of connectable conductor cross-sections       0.5 2.5 mm²         • for auxiliary contacts       - solid or stranded         - solid or stranded       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         - finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       2x (20 16), 2x (18 14)   |  |  |  |  |
| <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>finely stranded with core end processing</li> <li>for auxiliary contacts         <ul> <li>solid or stranded</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for AWG cables for auxiliary contacts</li> </ul> <ul> <li>AWG number as coded connectable conductor cross sections</li> <li>section</li> </ul> </li> </ul>   |  |  |  |  |
| • finely stranded with core end processing       0.5 2.5 mm²         type of connectable conductor cross-sections       • for auxiliary contacts         • for auxiliary contacts       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         - finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       2x (20 16), 2x (18 14)   | -  | 0.5 2.5 mm²  |  |  |
| type of connectable conductor cross-sections         • for auxiliary contacts         — solid or stranded         — finely stranded with core end processing         • for AWG cables for auxiliary contacts         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts         2x (20 16), 2x (18 14)  |  |  |  |  |
| <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>for AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> </ul>  |  |  |  |  |
|  |  |  |  |  |
| — finely stranded with core end processing       2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)         • for AWG cables for auxiliary contacts       2x (20 16), 2x (18 14)         AWG number as coded connectable conductor cross section       2x (20 16), 2x (18 14)   |  | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)  |  |  |
| for AWG cables for auxiliary contacts     2x (20 16), 2x (18 14)  AWG number as coded connectable conductor cross section  |  |  |  |  |
| AWG number as coded connectable conductor cross section  |  |  |  |  |
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| • for main contacts 16 8   |  |  |  |  |
|  | for main contacts  | 16 8   |  |  |

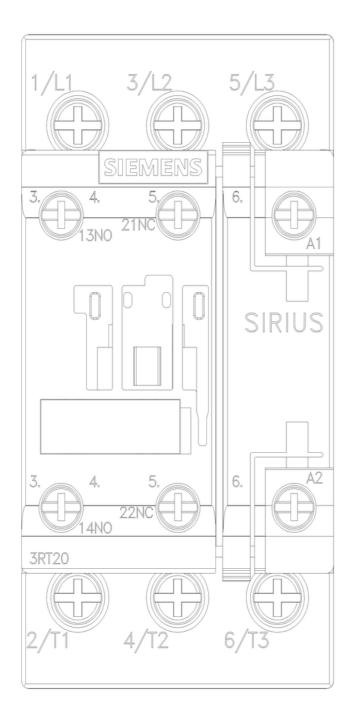
| <ul> <li>for auxiliary co</li> </ul>   | ntacts  | 2   | 20 14  |  |                               |
|--|---|---|--|--|-------------------------------|
| Safety related data  |   |   |  |  |                               |
| product function   |   |   |  |  |                               |
| <ul> <li>mirror contact</li> </ul>   | according to IEC 60947-4-1  | Y   | ſes  |  |                               |
| suitability for use safety-related switching OFF   |   | γ   | ſes  |  |                               |
| B10 value with high c  | demand rate according to SN   | 4 31920 4                                   | 150 000                                      |  |                               |
| proportion of dange  |   |   |  |  |                               |
|  | nd rate according to SN 319   | 20 4  | 10 %   |  |                               |
|  | and rate according to SN 319  |   | 73 %   |  |                               |
|  | low demand rate according   |   | 100 FIT                                      |  |                               |
|  | st interval or service life acco  |   | 20 a   |  |                               |
| 61508  |   | <u> </u>                                    |  |  |                               |
| protection class IP  | on the front according to I   | EC 60529                                    | IP20   |  |                               |
| touch protection on  | the front according to IEC  | <b>60529</b> fi                             | inger-safe, for vertical contac              | t from the front                               |                               |
| Certificates/ approval   | ls  |   |  |  |                               |
| General Product Ap   | oproval   |   |  |  |                               |
| SP<br>M  | <u>Confirmation</u>   |   |  | KC   | EHC                           |
| EMC  | Functional<br>Safety/Safety of Ma-<br>chinery   | Declaration of Co                           | nformity                                     | Test Certificates                              |                               |
| RCM  | Type Examination Cer-<br>tificate   | UK<br>CA                                    | CE<br>EG-Konf.                               | <u>Type Test Certific-</u><br>ates/Test Report | Special Test Certific-<br>ate |
| Marine / Shipping  |   |   |  |  |                               |
| ABS  | BUREAU<br>VERITAS   |   | Llovd's<br>Register<br>Uts                   |  | KARS RANGE                    |
| other  |   |   | Railway                                      | Environment                                    |                               |
| <u>Confirmation</u>  |   | <u>Confirmation</u>                         | Vibration and Shock                          | Environmental Con-<br>firmations               |                               |
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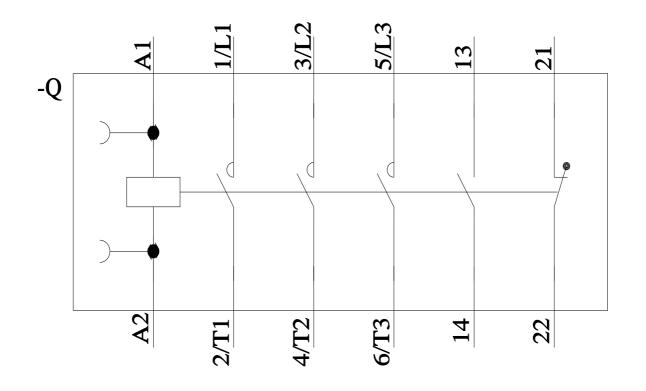
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