## SIEMENS

## Data sheet

## 3RT2037-1AP04-3MA0



power contactor, AC-3e/AC-3, 65 A, 30 kW / 400 V, 3-pole, 230 V AC, 50 Hz, auxiliary contacts: 2 NO + 2 NC, screw terminal, size: S2, captive auxiliary switch

| product brand name         SIRUS           product designation         Power contactor           product vige designation         3RT2           ceneral tachnical data         size of contactor           size of contactor         S2           product visitesion         No           • function module for communication         No           • auxiliary switch         No           opwer loss [W] for rated value of the current         14.4 W           • at AC in hot operating state         11.4 W           • at AC in hot operating state per pole         3.8 W           • without load current share bylical         660 V           • of main circuit rated value         690 V           • of auxiliary circuit rated value         680 V           • of auxiliary circuit rated value         680 V           • of auxiliary circuit rated value         64 kV           • of auxiliary circuit rated value         15.3g / 5 ms, 6.5g / 10 ms           shock resistance with sine pulse         13.3g / 5 ms, 10.1g / 10 ms           • at AC         10.000 000         10 000 000  |   |                             |
|---|---|-----------------------------|
| product type designation         3RT2           Central technical data  | product brand name  | SIRIUS                      |
| Conneral technical data           size of contactor         S2           product extension         No           • function module for communication         No           • auxiliary switch         No           • at AC in hot operating state         11.4 W           • at AC in hot operating state per pole         3.8 W           • without load current share typical         16 W           Insultation voltage         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 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 with degree of pollution 3 rated value         690 V           • of auxiliary 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         610 V <t< th=""><th>product designation</th><th>Power contactor</th></t<> | product designation   | Power contactor             |
| size of contactor         §2           product extension         • function module for communication         No           • auxiliary switch         No         No           power loss [W] for rated value of the current         • at AC in hot operating state per pole         3.8 W           • at AC in hot operating state per pole         3.8 W         • at AC in hot operating state per pole           • of main circuit with degree of pollution 3 rated value         690 V         690 V           • of auxiliary circuit with degree of pollution 3 rated value         690 V         690 V           • of main circuit with degree of pollution 3 rated value         690 V         690 V           • of main circuit with degree of pollution 3 rated value         690 V         64V           • of auxiliary circuit rated value         64V         600 V           • of auxiliary circuit rated value         64V         64V           • of auxiliary circuit with degree of pollution 3 rated value         64V         00V           • of auxiliary circuit rated value         64V         64V         00V           shock res   | product type designation  | 3RT2                        |
| product extension     innetion module for communication     No       • auxiliary switch     No       • auxiliary switch     No       • ext AC in hot operating state     11.4 W       • at AC in hot operating state per pole     3.8 W       • 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     600 V       • of main circuit with degree of pollution 3 rated value     6 kV       • of main circuit value     6 kV       • of main circuit value     6 kV       • of auxiliary circuit with degree of pollution 3 rated value     6 kV       • of main circuit value     6 kV       • of auxiliary circuit rated value     9.8g / 5 ms, 6.5g / 10 ms       • at AC     15.3g / 5 ms, 10.1g / 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 electronically optimized auxiliary switch block typical     2 000 m   | General technical data  |                             |
|   | size of contactor   | S2                          |
| • auxiliary switch     No       power loss [W] for rated value of the current     11.4 W       • at AC in hot operating state     11.4 W       • at AC in hot operating state prole     3.8 W       • without load current share typical     16 W       insulation voltage     690 V       • of main dircuit with degree of pollution 3 rated value     690 V       • of main dircuit rated value     690 V       • of auxiliary 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 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     6 kV       • at AC     9.8g / 5 ms, 6.5g / 10 ms       • at AC     9.8g / 5 ms, 10.1g / 10 ms       mechanical service life (operating cycles)     10 000 000       • of contactor 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 <t< th=""><th>product extension</th><th></th></t<>      | product extension   |                             |
| power loss [W] for rated value of the current       11.4 W         • at AC in hot operating state       11.4 W         • at AC in hot operating state per pole       3.8 W         • without load current share typical       16 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         • of auxiliary circuit rated value       64 V         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         • at AC       9.8g / 5 ms, 6.5g / 10 ms         shock resistance at rectangular impulse       15.3g / 5 ms, 10.1g / 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       10 000 000         reference code according to IEC 81346-2       Q <th><ul> <li>function module for communication</li> </ul></th> <th>No</th>                         | <ul> <li>function module for communication</li> </ul>                           | No                          |
| • at AC in hot operating state per pole       3.8 W         • without load current share typical       16 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         • of auxiliary circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit rated value       6 kV         • at AC       9.8g / 5 ms, 6.5g / 10 ms         • at AC       15.3g / 5 ms, 10.1g / 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   | auxiliary switch  | No                          |
| • at AC in hot operating state per pole       3.8 W         • withbut load current share typical       16 W         insulation voltage       680 V         • of main circuit with degree of pollution 3 rated value       690 V         surge voltage resistance       690 V         • of auxiliary circuit with degree of pollution 3 rated value       690 V         • of auxiliary circuit rated value       6 kV         • at AC       9.8g / 5 ms, 6.5g / 10 ms         • at AC       9.8g / 5 ms, 10.1g / 10 ms         • at AC       15.3g / 5 ms, 10.1g / 10 ms         • at AC       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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)<  | power loss [W] for rated value of the current                                   |                             |
| • without load current share typical     16 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     6 kV       • of auxiliary circuit rated value     6 kV       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     6 kV       • at AC     9.8g / 5 ms, 6.5g / 10 ms       • of contactor typical     10 000 000       • of the contactor with added electronically optimized     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   | <ul> <li>at AC in hot operating state</li> </ul>                                | 11.4 W                      |
| Insulation voltage <ul> <li>of main circuit with degree of pollution 3 rated value</li> <li>690 V</li> </ul> surge voltage resistance         690 V           of main circuit rated value         690 V           surge voltage resistance         6 kV           of auxiliary circuit rated value         6 kV           auxiliary circuit rated value         6 kV           add main contacts according to EN 60947-1         500k resistance at rectangular impulse           at AC         9.8g / 5 ms, 6.5g / 10 ms           shock resistance with sine pulse         15.3g / 5 ms, 10.1g / 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           reference code according to IEC 81346-2         Q           Substance Prohibitance (Date)         10/01/2014           Ambient temperature         -25 +60 °C          - during storage   | <ul> <li>at AC in hot operating state per pole</li> </ul>                       | 3.8 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       680 V         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       6 kV         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       9.8g / 5 ms, 6.5g / 10 ms         • at AC       9.8g / 5 ms, 6.5g / 10 ms         shock resistance with sine pulse       15.3g / 5 ms, 10.1g / 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 auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2 000 m         ambient temperature       -25 +60 °C         • during storage       -55 +60 °C         • faltive humidity at 55 °C according to IEC 6   | <ul> <li>without load current share typical</li> </ul>                          | 16 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         maximum permissible voltage for protective separation between coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       9.8g / 5 ms, 6.5g / 10 ms         • at AC       9.8g / 5 ms, 10.1g / 10 ms         shock resistance with sine pulse       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       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       2 000 m         installation atitude at height above sea level maximum       2 000 m         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity at 55 °C according to IEC 60068-2-30   | 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<br>coll and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       9.8g / 5 ms, 6.5g / 10 ms         • at AC       9.8g / 5 ms, 6.5g / 10 ms         shock resistance with sine pulse       -         • at AC       15.3g / 5 ms, 10.1g / 10 ms         mechanical service life (operating cycles)       10 000 000         • of the contactor with added electronically optimized<br>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)       100/1/2014         Ambient conditions       2000 m         ambient temperature       -         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         95 %       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 coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       9.8g / 5 ms, 6.5g / 10 ms         • at AC       9.8g / 5 ms, 6.5g / 10 ms         shock resistance with sine pulse       • at AC         • at AC       15.3g / 5 ms, 10.1g / 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       100/01/2014         Ambient conditions       2000 m         ambient temperature       -         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         relative humidity minimum       10 %         maximum       55 %  | <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       9.8g / 5 ms, 6.5g / 10 ms         • at AC       9.8g / 5 ms, 6.5g / 10 ms         shock resistance with sine pulse       •         • at AC       15.3g / 5 ms, 10.1g / 10 ms         mechanical service life (operating cycles)       •         • 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         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 %         95 %       95 %   | surge voltage resistance  |                             |
| maximum permissible voltage for protective separation between       400 V         coil and main contacts according to EN 60947-1       400 V         shock resistance at rectangular impulse       9.8g / 5 ms, 6.5g / 10 ms         • at AC       9.8g / 5 ms, 10.1g / 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient conditions       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         relative humidity minimum       10 %         95 %       95 %  | <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       9.8g / 5 ms, 6.5g / 10 ms         shock resistance with sine pulse         • at AC       15.3g / 5 ms, 10.1g / 10 ms         mechanical service life (operating cycles)         • 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         Ambient 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 %         relative humidity at 55 °C according to IEC 60068-2-30       95 %         Main circuit       95 %   | <ul> <li>of auxiliary circuit rated value</li> </ul>                            | 6 kV                        |
| • at AC       9.8g / 5 ms, 6.5g / 10 ms         shock resistance with sine pulse       15.3g / 5 ms, 10.1g / 10 ms         • at AC       15.3g / 5 ms, 10.1g / 10 ms         mechanical service life (operating cycles)       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)       10/01/2014         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  |   | 400 V                       |
| shock resistance with sine pulse       15.3g / 5 ms, 10.1g / 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         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  | shock resistance at rectangular impulse   |                             |
| • at AC       15.3g / 5 ms, 10.1g / 10 ms         mechanical service life (operating cycles)       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)       10/01/2014         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 %  | • at AC   | 9.8g / 5 ms, 6.5g / 10 ms   |
| mechanical service life (operating cycles)       000000000000000000000000000000000000   | shock resistance with sine pulse  |                             |
| • 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         • 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)       10/01/2014         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  | • at AC   | 15.3g / 5 ms, 10.1g / 10 ms |
| • 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         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         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 maximum       95 %   | mechanical service life (operating cycles)                                      |                             |
| auxiliary switch block typical       10 000 000         reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         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       Main circuit   | <ul> <li>of contactor typical</li> </ul>  | 10 000 000                  |
| reference code according to IEC 81346-2       Q         Substance Prohibitance (Date)       10/01/2014         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 maximum       95 %   |   | 5 000 000                   |
| Substance Prohibitance (Date)       10/01/2014         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  | <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       -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  | Substance Prohibitance (Date)   | 10/01/2014                  |
| 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     -25 +80 °C  | 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 maximum       95 %         Main circuit       10 %  | <ul> <li>during operation</li> </ul>  | -25 +60 °C                  |
| relative humidity at 55 °C according to IEC 60068-2-30       95 %         maximum       95 %         Main circuit       95 %  | during storage  | -55 +80 °C                  |
| Main circuit  | relative humidity minimum   | 10 %                        |
|   |   | 95 %                        |
| number of noise for main ourrent circuit  | Main circuit  |                             |
| number of poles for main current circuit 3  | number of poles for main current circuit  | 3                           |

| number of NO contacts for main contacts                                   | 3                  |
|---|--------------------|
| operating voltage   | 5                  |
| • at AC-3 rated value maximum   | 690 V              |
| at AC-3 rated value maximum     at AC-3e rated value maximum              | 690 V              |
| operational current   |                    |
| at AC-1 at 400 V at ambient temperature 40 °C rated                       | 80 A               |
| value   |                    |
| • at AC-1   |                    |
| — up to 690 V at ambient temperature 40 °C rated                          | 80 A               |
| value   |                    |
| — up to 690 V at ambient temperature 60 °C rated value                    | 70 A               |
| • at AC-3   |                    |
| — at 400 V rated value  | 65 A               |
| — at 500 V rated value  | 65 A               |
| — at 690 V rated value  | 47 A               |
| • at AC-3e  |                    |
| — at 400 V rated value  | 65 A               |
| — at 500 V rated value  | 65 A               |
| — at 690 V rated value  | 47 A               |
| at AC-4 at 400 V rated value  | 55 A               |
| • at AC-5a up to 690 V rated value  | 70.4 A             |
| • at AC-5b up to 400 V rated value  | 53.9 A             |
| ● at AC-6a  |                    |
| — up to 230 V for current peak value n=20 rated value                     | 56.9 A             |
| — up to 400 V for current peak value n=20 rated value                     | 56.9 A             |
| — up to 500 V for current peak value n=20 rated value                     | 56.9 A             |
| — up to 690 V for current peak value n=20 rated value                     | 47 A               |
| ● at AC-6a  |                    |
| <ul> <li>— up to 230 V for current peak value n=30 rated value</li> </ul> | 38 A               |
| <ul> <li>— up to 400 V for current peak value n=30 rated value</li> </ul> | 38 A               |
| <ul> <li>— up to 500 V for current peak value n=30 rated value</li> </ul> | 38 A               |
| <ul> <li>— up to 690 V for current peak value n=30 rated value</li> </ul> | 38 A               |
| minimum cross-section in main circuit at maximum AC-1 rated value         | 25 mm <sup>2</sup> |
| operational current for approx. 200000 operating cycles at AC-4           |                    |
| • at 400 V rated value  | 28 A               |
| • at 690 V rated value  | 22 A               |
| operational current   |                    |
| <ul> <li>at 1 current path at DC-1</li> </ul>                             |                    |
| — at 24 V rated value   | 55 A               |
| — at 60 V rated value   | 23 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             |
| <ul> <li>with 2 current paths in series at DC-1</li> </ul>                |                    |
| — at 24 V rated value   | 55 A               |
| — at 60 V rated value   | 45 A               |
| — at 110 V rated value  | 45 A               |
| — at 220 V rated value  | 5 A                |
| — at 440 V rated value  | 1 A                |
| — at 600 V rated value  | 0.8 A              |
| with 3 current paths in series at DC-1                                    |                    |
| — at 24 V rated value   | 55 A               |
| — at 60 V rated value   | 55 A               |
| - at 110 V rated value  | 55 A               |
| - at 220 V rated value  | 45 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   | 35 A  |
|--|---|---|
|  | — at 60 V rated value   | 6 A   |
|  | — at 220 V rated value  | 1 A   |
| • win 2 current path in series at DC-3 at DC-5         5           - at 24 V rade value         55 Å           - at 110 V rade value         25 Å           - at 110 V rade value         5 Å           - at 440 V rade value         0.27 Å           - at 440 V rade value         0.18 Å           - at 440 V rade value         0.18 Å           - at 460 V rade value         0.18 Å           - at 460 V rade value         0.5 Å           - at 460 V rade value         55 Å           - at 460 V rade value         55 Å           - at 460 V rade value         0.38 Å           - at 460 V rade value         30 kW           - at 470 V rade value         30 kW           - at 400 V rade value         37 kW           - at 600 V rade value         32 kW <td>— at 440 V rated value</td> <td>0.1 A</td>   | — at 440 V rated value  | 0.1 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>      |   |
| - all 10 Vinited value<br>at 440 Vinited value<br>b 27 A<br>- at 600 Vinited value<br>0 27 A<br>- at 600 Vinited value<br>0 27 A<br>- at 600 Vinited value<br>0 27 A<br>- at 60 Vinited value<br>55 A<br>- at 24 Vinited value<br>55 A<br>- at 24 Vinited value<br>55 A<br>- at 70 Vinited value<br>56 A<br>- at 700 Vinited value<br>57 A<br>- at 400 Vinited value<br>58 A<br>- at 700 Vinited value<br>59 A<br>- at 700 Vinited value<br>50 Vinited value | — at 24 V rated value   | 55 A  |
|  | — at 60 V rated value   | 45 A  |
|  | — at 110 V rated value  | 25 A  |
|  | — at 220 V rated value  | 5 A   |
| • with 3 current path in series at DC-3 at DC-5     55 A       - at 20 V rated value     55 A       - at 110 V rated value     55 A       - at 120 V rated value     55 A       - at 440 V rated value     66 A       - at 420 V rated value     0.35 A       operating power     0.35 A       - at 600 V rated value     0.35 A       operating power     0.15 KW       - at 230 V rated value     30 KW       - at 230 V rated value     30 KW       - at 500 V rated value     30 KW       - at 500 V rated value     30 KW       - at 500 V rated value     37 KW       - at 600 V rated value     30 KW       - at 500 V rated value     30 kW       - at 500 V rated value     30 kW       - at 600 V rated value     30 kW       opoperating poperator     30 kW <tr< td=""><td>— at 440 V rated value</td><td>0.27 A</td></tr<>  | — 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   | 55 A  |
|  | — at 60 V rated value   | 55 A  |
|  | — at 110 V rated value  | 55 A  |
|  | — at 220 V rated value  | 25 A  |
| operating power       at AC-2 at 400 V rated value       30 kW         • at AC-3   | — at 440 V rated value  | 0.6 A   |
|  | — at 600 V rated value  | 0.35 A  |
|  | operating power   |   |
|  |   | 30 kW   |
|  | • at AC-3   |   |
| at 400 V rated value30 kW at 500 V rated value37 kW at 230 V rated value37 kW at 230 V rated value15. kW at 400 V rated value30 kW at 630 V rated value30 kW at 630 V rated value37 kW at 630 V rated value20 kWoperating power for approx. 20000 operating cycles at AC at 640 V rated value20 kWoperating apparent power at AC-6820 kW operating apparent power at AC-6850 kW op to 200 V for current peak value n=20 rated value34 kVA up to 200 V for current peak value n=20 rated value35 kVA op to 400 V for current peak value n=30 rated value36 k kVA up to 200 V for current peak value n=30 rated value26 kVA op to 400 V for current peak value n=30 rated value28 kVA up to 560 V for current peak value n=30 rated value28 kVA op to 660 V for current peak value n=30 rated value28 kVA op to 650 V for current peak value n=30 rated value28 kVA op to 650 V for current peak value n=30 rated value28 kVA op time bas value n=30 rated value28 kVA <td>— at 230 V rated value</td> <td>18.5 kW</td>   | — at 230 V rated value  | 18.5 kW   |
| at 890 V rated value37 kW• at AC-3e at 230 V rated value30 kW at 400 V rated value30 kW at 690 V rated value37 kW at 690 V rated value20 kWoperating paperent power at AC-6a22.6 kVA up to 500 V for current peak value n=20 rated value39.4 kVA up to 500 V for current peak value n=20 rated value56.1 kVA up to 500 V for current peak value n=20 rated value56.1 kVA up to 500 V for current peak value n=30 rated value56.1 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current peak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA up to 500 V for current neak value n=30 rated value28.2 kVA </td <td>— at 400 V rated value</td> <td>30 kW</td>   | — at 400 V rated value  | 30 kW   |
| • at AC-3eI at 230 V rated value15.5 kW- at 400 V rated value30 kW- at 600 V rated value37 kW- at 600 V rated value37 kW- at 600 V rated value37 kWoperating power for approx. 20000 operating cycles at AC-414.7 kW• at 400 V rated value14.7 kW• at 600 V rated value20 kWoperating apparent power at AC-6a20 kW• up to 230 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value39.4 kVA• up to 690 V for current peak value n=20 rated value56.1 kVAoperating apparent power at AC-6a15.1 kVA• up to 690 V for current peak value n=30 rated value22.8 kVA• up to 600 V for current peak value n=30 rated value25.8 kVA• up to 500 V for current peak value n=30 rated value25.8 kVA• up to 500 V for current peak value n=30 rated value25.8 kVA• up to 500 V for current peak value n=30 rated value35.4 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value35.4 kVA• up to 500 V for current no current maximum1055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 ra   | — at 500 V rated value  | 37 kW   |
| at 230 V rated value18.5 kW at 400 V rated value30 kW at 500 V rated value37 kWoperating power for approx. 20000 operating cycles at AC-<br>47 kW• at 400 V rated value14.7 kWoperating apparent power at AC-6a22<br>22 kWA• up to 230 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value50.1 kVA• up to 500 V for current peak value n=20 rated value51.4 kVA• up to 500 V for current peak value n=30 rated value52.4 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value22.8 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value33.6 k.U se minimum cross-section acc. to AC-1 rated value• up to 500 V for current peak value n=30 rated value33.6 k.U se minimum cross-section acc. to AC-1 rated value• uimited to 1 s switching at zero current maximum33.6 k.U se minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum35.0 k.U se minimum cross-   | — at 690 V rated value  | 37 kW   |
|  | • at AC-3e  |   |
|  | — at 230 V rated value  | 18.5 kW   |
|  | — at 400 V rated value  | 30 kW   |
| operating power for approx. 20000 operating cycles at AC-4       14.7 kW         • at 400 V rated value       20 kW         operating apparent power at AC-6a       20 kW         • up to 230 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       46.1 kVA         • up to 500 V for current peak value n=20 rated value       56.1 kVA         operating apparent power at AC-6a       15.1 kVA         • up to 500 V for current peak value n=30 rated value       56.2 kVA         • up to 500 V for current peak value n=30 rated value       28.8 kVA         • up to 500 V for current peak value n=30 rated value       28.8 kVA         • up to 690 V for current peak value n=30 rated value       32.8 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         short-time withstand current in cold operating state up to 40° C       1055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1s switching at zero current maximum       1055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       236 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at   | — at 500 V rated value  | 37 kW   |
| 4     i at 400 V rated value     14.7 kW       • at 690 V rated value     20 kW       operating apparent power at AC-6a     22.6 kVA       • up to 230 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     49.2 kVA       • up to 500 V for current peak value n=20 rated value     56.1 kVA       operating apparent power at AC-6a     15.1 kVA       • up to 230 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 500 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     26.2 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     32.8 kVA       • up to 600 V for current peak value n=30 rated value     45.3 kVA       • up to 600 V for current maximum     1055 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     500 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     27   | — at 690 V rated value  | 37 kW   |
| 4     i at 400 V rated value     14.7 kW       • at 690 V rated value     20 kW       operating apparent power at AC-6a     22.6 kVA       • up to 230 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     39.4 kVA       • up to 500 V for current peak value n=20 rated value     49.2 kVA       • up to 500 V for current peak value n=20 rated value     56.1 kVA       operating apparent power at AC-6a     15.1 kVA       • up to 230 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 500 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     28.2 kVA       • up to 600 V for current peak value n=30 rated value     26.2 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     26.3 kVA       • up to 600 V for current peak value n=30 rated value     32.8 kVA       • up to 600 V for current peak value n=30 rated value     45.3 kVA       • up to 600 V for current maximum     1055 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     500 A; Use minimum cross-section acc. to AC-1 rated value       • limited to 10 s switching at zero current maximum     27   |   |   |
| • at 690 V rated value       20 kW         operating apparent power at AC-6a       22.6 kVA         • up to 230 V for current peak value n=20 rated value       39.4 kVA         • up to 600 V for current peak value n=20 rated value       39.4 kVA         • up to 690 V for current peak value n=20 rated value       49.2 kVA         • up to 690 V for current peak value n=20 rated value       56.1 kVA         operating apparent power at AC-6a       51.1 kVA         • up to 230 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       28.8 kVA         • up to 690 V for current peak value n=30 rated value       28.8 kVA         • up to 690 V for current peak value n=30 rated value       28.8 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         short-time withstand current in cold operating state up to 40°C       45.3 kVA         • limited to 1 s switching at zero current maximum       1 055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       20 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       20 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 30 s switching at zero current maximum       20 A; Use minimum cross-section acc. to AC-1 rated value   |   |   |
| operating apparent power at AC-6a22.6 kVA• up to 230 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value39.4 kVA• up to 500 V for current peak value n=20 rated value49.2 kVA• up to 690 V for current peak value n=20 rated value50.1 kVAoperating apparent power at AC-6a15.1 kVA• up to 230 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value22.6 kVA• up to 500 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value28.8 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 500 V for current peak value n=30 rated value45.3 kVA• up to 690 V for current peak value n=30 rated value45.3 kVA• up to 500 V for current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum20 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum36 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value   | <ul> <li>at 400 V rated value</li> </ul>                                | 14.7 kW   |
| • up to 230 V for current peak value n=20 rated value       22.6 kVA         • up to 400 V for current peak value n=20 rated value       39.4 kVA         • up to 500 V for current peak value n=20 rated value       49.2 kVA         • up to 690 V for current peak value n=20 rated value       50.1 kVA         operating apparent power at AC-6a       6         • up to 230 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       28.4 kVA         • up to 500 V for current peak value n=30 rated value       28.4 kVA         • up to 690 V for current peak value n=30 rated value       32.8 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       45.3 kVA         • up to 690 V for current peak value n=30 rated value       50 A (Use minimum cross-section acc. to AC-1 rated value <td><ul> <li>at 690 V rated value</li> </ul></td> <td>20 kW</td>  | <ul> <li>at 690 V rated value</li> </ul>                                | 20 kW   |
| up to 400 V for current peak value n=20 rated value39.4 kVAup to 500 V for current peak value n=20 rated value49.2 kVAup to 690 V for current peak value n=20 rated value56.1 kVAoperating apparent power at AC-6aup to 230 V for current peak value n=30 rated value15.1 kVAup to 400 V for current peak value n=30 rated value26.2 kVAup to 500 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value32.8 kVAup to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to<br>40 °C40 °Cilmited to 1 s switching at zero current maximum1055 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 50 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum36 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum270 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueilmited to 60 s switching at zero current maximum200 1/hoperating frequency5000 1/he at AC5000 1/he at AC-1 maximum800 1/h<  | operating apparent power at AC-6a                                       |   |
| • up to 500 V for current peak value n=20 rated value       49.2 kVA         • up to 690 V for current peak value n=20 rated value       56.1 kVA         operating apparent power at AC-6a       15.1 kVA         • up to 230 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       26.2 kVA         • up to 500 V for current peak value n=30 rated value       25.3 kVA         • up to 500 V for current peak value n=30 rated value       45.3 kVA         • up to 500 V for current peak value n=30 rated value       45.3 kVA         • up to 500 V for current peak value n=30 rated value       45.3 kVA         • up to 500 V for current maximum       1 055 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 1 s switching at zero current maximum       520 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 10 s switching at zero current maximum       236 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 S switching at zero current maximum       272 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       272 A; Use minimum cross-section acc. to AC-1 rated value         • limited to 60 s switching at zero current maximum       272 A; Use minimum cross-section acc. to AC-1 rated value <td><ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul></td> <td>22.6 kVA</td>  | <ul> <li>up to 230 V for current peak value n=20 rated value</li> </ul> | 22.6 kVA  |
| • up to 690 V for current peak value n=20 rated value     for current peak value n=30 rated value     iup to 230 V for current peak value n=30 rated value     iup to 230 V for current peak value n=30 rated value     iup to 500 V for current peak value n=30 rated value     26.2 kVA     iup to 500 V for current peak value n=30 rated value     32.8 kVA     iup to 690 V for current peak value n=30 rated value     short-time withstand current in cold operating state up to     40 °C     ilimited to 1 s switching at zero current maximum     limited to 5 s switching at zero current maximum     ilimited to 10 s switching at zero current maximum     ilimited to 30 s switching at zero current maximum     ilimited to 30 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     ilimited to 60 s switching at zero current maximum     at AC-     sound thing frequency     i at AC-     for  | <ul> <li>up to 400 V for current peak value n=20 rated value</li> </ul> | 39.4 kVA  |
| operating apparent power at AC-6a15.1 kVA• up to 230 V for current peak value n=30 rated value15.1 kVA• up to 400 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to 40 °C45.3 kVA• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h  | <ul> <li>up to 500 V for current peak value n=20 rated value</li> </ul> | 49.2 kVA  |
| <ul> <li>up to 230 V for current peak value n=30 rated value</li> <li>15.1 kVA</li> <li>up to 400 V for current peak value n=30 rated value</li> <li>26.2 kVA</li> <li>up to 500 V for current peak value n=30 rated value</li> <li>32.8 kVA</li> <li>up to 690 V for current peak value n=30 rated value</li> <li>45.3 kVA</li> <li>short-time withstand current in cold operating state up to</li> <li>40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>1055 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 1 s switching at zero current maximum</li> <li>1055 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 30 s switching at zero current maximum</li> <li>S20 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 30 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>limited to 60 s switching at zero current maximum</li> <li>S22 A; Use minimum cross-section acc. to AC-1 rated value</li> <li>at AC</li> <li>s to 00 1/h</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-1 maximum</li> <li>at AC-2 maximum</li> <li>at AC-3 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> <li>at AC-4 maximum</li> </ul>   | <ul> <li>up to 690 V for current peak value n=20 rated value</li> </ul> | 56.1 kVA  |
| • up to 400 V for current peak value n=30 rated value26.2 kVA• up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVA <b>short-time withstand current in cold operating state up to</b><br><b>40 °C</b> 1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency5 000 1/h• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h   | operating apparent power at AC-6a                                       |   |
| • up to 500 V for current peak value n=30 rated value32.8 kVA• up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to<br>40 °C1055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h   | <ul> <li>up to 230 V for current peak value n=30 rated value</li> </ul> | 15.1 kVA  |
| • up to 690 V for current peak value n=30 rated value45.3 kVAshort-time withstand current in cold operating state up to<br>40 °C45.3 kVA• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h   | <ul> <li>up to 400 V for current peak value n=30 rated value</li> </ul> | 26.2 kVA  |
| short-time withstand current in cold operating state up to<br>40 °C1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h   | <ul> <li>up to 500 V for current peak value n=30 rated value</li> </ul> | 32.8 kVA  |
| 40 °C• limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 e maximum700 1/h• at AC-4 maximum200 1/h  | <ul> <li>up to 690 V for current peak value n=30 rated value</li> </ul> | 45.3 kVA  |
| • limited to 1 s switching at zero current maximum1 055 A; Use minimum cross-section acc. to AC-1 rated value• limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching frequency272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum800 1/h• at AC-3 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h   |   |   |
| • limited to 5 s switching at zero current maximum730 A; Use minimum cross-section acc. to AC-1 rated value• limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h  |   |   |
| • limited to 10 s switching at zero current maximum520 A; Use minimum cross-section acc. to AC-1 rated value• limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated value• no-load switching frequency272 A; Use minimum cross-section acc. to AC-1 rated value• at AC5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h  | -   |   |
| • limited to 30 s switching at zero current maximum336 A; Use minimum cross-section acc. to AC-1 rated value• limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency<br>• at AC5 000 1/hoperating frequency5 000 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h   | -   |   |
| • limited to 60 s switching at zero current maximum272 A; Use minimum cross-section acc. to AC-1 rated valueno-load switching frequency5 000 1/h• at AC5 000 1/hoperating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum200 1/h   | -   |   |
| no-load switching frequency• at AC5 000 1/hoperating frequency• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3 maximum700 1/h• at AC-4 maximum200 1/h   | -   |   |
| • at AC5 000 1/hoperating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h  |   | 272 A; Use minimum cross-section acc. to AC-1 rated value |
| operating frequency800 1/h• at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h  |   |   |
| • at AC-1 maximum800 1/h• at AC-2 maximum400 1/h• at AC-3 maximum700 1/h• at AC-3e maximum700 1/h• at AC-4 maximum200 1/h  |   | 5 000 1/h   |
| • at AC-2 maximum       400 1/h         • at AC-3 maximum       700 1/h         • at AC-3e maximum       700 1/h         • at AC-4 maximum       200 1/h   |   |   |
| • at AC-3 maximum       700 1/h         • at AC-3e maximum       700 1/h         • at AC-4 maximum       200 1/h   |   |   |
| • at AC-3e maximum         700 1/h           • at AC-4 maximum         200 1/h   |   |   |
| • at AC-4 maximum 200 1/h  |   |   |
|  |   |   |
| Control circuit/ Control   |   | 200 1/h   |
|  | Control circuit/ Control  |   |

| type of voltage of the control supply voltage   | AC  |
|---|---|
| control supply voltage at AC  |   |
| at 50 Hz rated value  | 230 V   |
| operating range factor control supply voltage rated value of<br>magnet coil at AC   |   |
| • at 50 Hz  | 0.8 1.1   |
| apparent pick-up power of magnet coil at AC<br>• at 50 Hz   | 190 VA  |
| inductive power factor with closing power of the coil   |   |
| • at 50 Hz  | 0.72  |
| apparent holding power of magnet coil at AC<br>• at 50 Hz   | 16 VA   |
| inductive power factor with the holding power of the coil   |   |
| • at 50 Hz  | 0.37  |
| closing delay   |   |
| • at AC   | 10 80 ms  |
| opening delay   |   |
| • at AC   | 10 18 ms  |
| arcing time   | 10 20 ms  |
| control version of the switch operating mechanism   | Standard A1 - A2                                |
| Auxiliary circuit   |   |
| number of NC contacts for auxiliary contacts instantaneous<br>contact   | 2   |
| number of NO contacts for auxiliary contacts instantaneous<br>contact   | 2   |
| operational current at AC-12 maximum  | 10 A  |
| operational current at AC-15  |   |
| at 230 V rated value  | 6 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 10 V rated value   | 3 A   |
| at 125 V rated value  | 2 A   |
| at 220 V rated value  | 1A  |
| at 600 V rated value  | 0.15 A  |
| operational current at DC-13  |   |
| at 24 V rated value   | 6 A   |
| at 48 V rated value   | 2 A   |
| at 40 V rated value     at 60 V rated value   | 2 A<br>2 A                                      |
| at 10 V rated value   | 1A  |
| at 125 V rated value  | 0.9 A   |
| at 125 V rated value     at 220 V rated value   | 0.3 A   |
|   | 0.3 A<br>0.1 A                                  |
| at 600 V rated value  |   |
| contact reliability of auxiliary contacts<br>UL/CSA ratings   | 1 faulty switching per 100 million (17 V, 1 mA) |
|   |   |
| full-load current (FLA) for 3-phase AC motor  | 65 A  |
| at 480 V rated value  | 65 A  |
| • at 600 V rated value  |   |
| violdod mochanical porformance [hn]   | 52 A  |
| yielded mechanical performance [hp]   | 52 A  |
| for single-phase AC motor   |   |
| • for single-phase AC motor<br>— at 110/120 V rated value   | 5 hp  |
| <ul> <li>for single-phase AC motor</li> <li>— at 110/120 V rated value</li> <li>— at 230 V rated value</li> </ul>   |   |
| <ul> <li>for single-phase AC motor</li> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> <li>for 3-phase AC motor</li> </ul>   | 5 hp<br>10 hp                                   |
| <ul> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> </ul> </li> </ul>                                   | 5 hp<br>10 hp<br>20 hp                          |
| <ul> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> <li>at 220/230 V rated value</li> </ul> </li> </ul> | 5 hp<br>10 hp<br>20 hp<br>20 hp                 |
| <ul> <li>for single-phase AC motor <ul> <li>at 110/120 V rated value</li> <li>at 230 V rated value</li> </ul> </li> <li>for 3-phase AC motor <ul> <li>at 200/208 V rated value</li> </ul> </li> </ul>                                   | 5 hp<br>10 hp<br>20 hp                          |

| contact rating of auxiliary contacts according to UL  | A600 / Q600   |
|---|---|
| Short-circuit protection  |   |
| design of the fuse link   |   |
| for short-circuit protection of the main circuit  |   |
| - with type of coordination 1 required  | gG: 250 A (690 V, 100 kA), aM: 160 A (690 V, 100 kA), BS88: 200 A (415 V, 80      |
|   | kA)   |
| - with type of assignment 2 required  | gG: 125A (690V,100kA), aM: 63A (690V,100kA), BS88: 100A (415V,80kA)               |
| <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul>                       | gG: 10 A (500 V, 1 kA)  |
| Installation/ mounting/ dimensions  |   |
| mounting position   | +/-180° rotation possible on vertical mounting surface; can be tilted forward and |
|   | backward by +/- 22.5° on vertical mounting surface                                |
| fastening method  | screw and snap-on mounting onto 35 mm DIN rail according to DIN EN 60715          |
| side-by-side mounting   | Yes   |
| height  | 114 mm  |
| width   | 55 mm   |
| depth   | 174 mm  |
| required spacing  |   |
| with side-by-side mounting     forwarda   | 10 mm   |
| — forwards  | 10 mm   |
| — upwards   | 10 mm   |
| — downwards   | 10 mm   |
| - at the side   | 0 mm  |
| for grounded parts     forwards   | 10 mm   |
| — forwards  |   |
| — upwards   | 10 mm   |
| — at the side   | 6 mm  |
| — downwards   | 10 mm   |
| for live parts  | 10  |
| — forwards  | 10 mm   |
| — upwards   | 10 mm   |
| - downwards   | 10 mm   |
| — at the side<br>Connections/ Terminals   | 6 mm  |
|   |   |
| type of electrical connection <ul> <li>for main current circuit</li> </ul>                              | corow typo terminale  |
|   | screw-type terminals<br>screw-type terminals                                      |
| for auxiliary and control circuit   | Screw-type terminals  |
| at contactor for auxiliary contacts   | Screw-type terminals  |
| of magnet coil     type of connectable conductor cross-sections for main contacts                       | Sciew-type terminals  |
| solid or stranded   | $2x(1 - 25 \text{ mm}^2) + x(1 - 50 \text{ mm}^2)$                                |
|   | 2x (1 35 mm²), 1x (1 50 mm²)<br>2x (1 25 mm²), 1x (1 35 mm²)                      |
| finely stranded with core end processing     connectable conductor cross-section for main contacts      | 2x (1 25 mm <sup>-</sup> ), 1x (1 35 mm <sup>-</sup> )                            |
|   | 1 35 mm²  |
| finely stranded with core end processing     connectable conductor cross-section for auxiliary contacts |   |
| solid or stranded   | 0.5 2.5 mm²   |
| <ul> <li>finely stranded with core end processing</li> </ul>  | 0.5 2.5 mm <sup>2</sup>   |
| type of connectable conductor cross-sections  |   |
| for auxiliary contacts  |   |
| - solid or stranded   | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)   |
| <ul> <li>— finely stranded with core end processing</li> </ul>  | 2x (0.5 1.5 mm <sup>2</sup> ), 2x (0.75 2.5 mm <sup>2</sup> )                     |
| <ul> <li>for AWG cables for auxiliary contacts</li> </ul>   | 2x (20 16), 2x (18 14)  |
| AWG number as coded connectable conductor cross   |   |
| section   |   |
| for main contacts   | 18 1  |
| <ul> <li>for auxiliary contacts</li> </ul>  | 20 14   |
| Safety related data   |   |
| product function  |   |
| <ul> <li>mirror contact according to IEC 60947-4-1</li> </ul>   | Yes   |
| <ul> <li>positively driven operation according to IEC 60947-5-1</li> </ul>                              | No  |
| B10 value with high demand rate according to SN 31920   | 1 000 000   |
| proportion of dangerous failures  |   |
|   |   |

|   | l esta a secolia e ta ON 0400  |  | 40.0/        |                             |   |   |
|---|--|--|--------------|-----------------------------|---|---|
|   | d rate according to SN 3192  |  | 40 %<br>73 % |                             |   |   |
| with high demand rate according to SN 31920 failure rate [FIT] with low demand rate according to SN 31920 |  |  | 100 FI       | іт                          |   |   |
|   | interval or service life according   |  | 20 a         |                             |   |   |
| protection class IP on the front according to IEC 60529   |  |  | IP20         |                             |   |   |
| -   | he front according to IEC  |  | finger-      | -safe, for vertical contact | from the front                              |   |
| suitability for use   |  |  |              |                             |   |   |
| <ul> <li>safety-related sw</li> </ul>   | vitching OFF   |  | Yes          |                             |   |   |
| ertificates/ approvals  |  |  | _            |                             |   |   |
| General Product App   | oroval   |  |              |                             |   |   |
| (SP)  |  | <u>Confirmatio</u>                           | <u>n</u>     |                             | KC  | EHE   |
| EMC   | Functional<br>Safety/Safety of Ma-<br>chinery  | Declaration of                               | Conform      | nity                        | Test Certificates                           |   |
| RCM   | <u>Type Examination Cer-</u><br><u>tificate</u>  | UK<br>CA                                     | Ì            | CE<br>EG-Konf.              | <u>Special Test Certific-</u><br><u>ate</u> | <u>Type Test Certificates</u><br>ates/Test Report |
| Marine / Shipping   |  |  |              |                             |   |   |
| ABS   |  |  |              | Llovd's<br>Register<br>uts  | PRS   | RINA  |
| Marine / Shipping   | other  |  |              | Railway                     | Dangerous Good                              |   |
|   | <u>Confirmation</u>  | <u>Confirmatio</u>                           | <u>n</u>     | Vibration and Shock         | Transport Information                       |   |
| https://press.siemens.c<br>Siemens is working c   | I to exit the Russian mark<br>com/global/en/pressrelease<br>on the renewal of the curr<br>cal Siemens office on the si | <u>/siemens-wind-do</u><br>ent EAC certifica | ates.        |                             | d to import or offer to suppl               | y these products to a                             |
| Information on the pa<br>https://support.industry   | other than the sanctioned E<br>ackaging<br><u>siemens.com/cs/ww/en/vie</u><br>nloadcenter (Catalogs, B                 | ew/109813875                                 | ites Russ    | sia or Belarus).            |   |   |

Information- and Downloadcenter (Catalogs, Brochures,...)

https://www.siemens.com/ic10

Industry Mall (Online ordering system) https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2037-1AP04-3MA0

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT2037-1AP04-3MA0

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AP04-3MA0

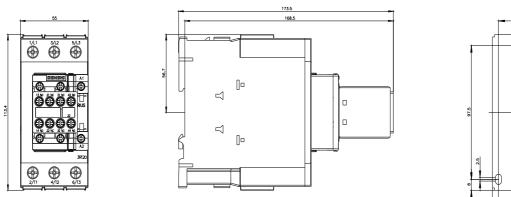
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT2037-1AP04-3MA0&lang=en

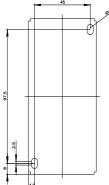
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

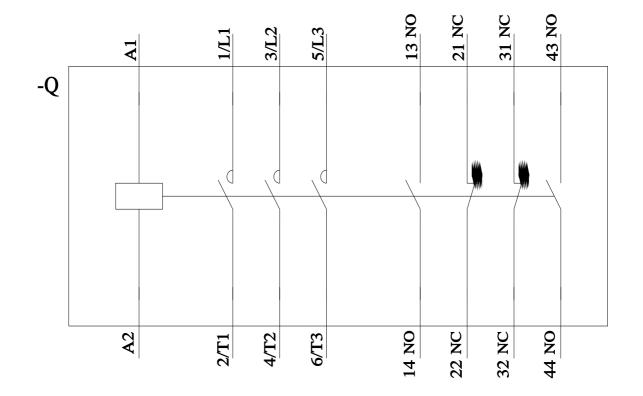
https://support.industry.siemens.com/cs/ww/en/ps/3RT2037-1AP04-3MA0/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2037-1AP04-3MA0&objecttype=14&gridview=view1







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