## SIEMENS

## Data sheet

## 3RT2036-1AP04



power contactor, AC-3 50 A, 22 kW / 400 V 2 NO + 2 NC, 230 V AC, 50 Hz, 3-pole, Size S2, screw terminal

| product designation         Power contactor           product designation         3RT2           Concral technical data   |   |                             |
|---|---|-----------------------------|
| product type designation         3RT2           General technical data  | product brand name  | SIRIUS                      |
| Concrait technical data           size of contactor         S2           product extension         No           • function module for communication         No           • auxiliary switch         No           power loss [W] for rated value of the current at AC in hot operating state         12 W           • per pole         4 W           of main circuit rated value of the current without load current share typical         6 kV           surge voltage resistance         6 kV           • of main circuit rated value         6 kV           • of maxinum permissible voltage for safe isolation between coil and main contacts acc. to EN 60947-1         400 V           shock resistance with sine pulse         9.8g / 5 ms, 6.5g / 10 ms           • at AC         9.8g / 5 ms, 6.5g / 10 ms           e at AC         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 typic   |   |                             |
| size of contactor     S2       product extension     •       • function module for communication     No       • auxiliary switch     No       power loss [W] for rated value of the current at AC in hot<br>operating state     12 W       • per pole     4 W       power loss [W] for rated value of the current without<br>load current share typical     16 W       surge voltage resistance     6 kV       • of main circuit rated value     6 kV       • of auxiliary circuit rated value     9.8g / 5 ms, 6.5g / 10 ms       shock resistance at rectangular impulse     9.8g / 5 ms, 10.1g / 10 ms       mechanical service life (switching 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<br>typical     10 000 000       reference code acc. to IEC 81346-2     Q       Substance Prohibitance (Date)     01.10.2014 00.00:00       Ambient temperature     -200 m       • during operation     -25 +60 °C       • during operation     -25   |   | 3RT2                        |
| product extension       No         • function module for communication       No         • auxiliary switch       No         operating state       4W         • per pole       4W         power loss [W] for rated value of the current without<br>load current share typical       16 W         surge voltage resistance       6 kV         • of main circuit rated value       6 kV         • of auxiliary circuit rated value       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 (switching cycles)       10 000 000         • of the contactor with added auxiliary switch block typical       10 0000 000         reference code acc. to IEC  | General technical data  |                             |
| • function module for communicationNo• auxiliary switchNopower loss [W] for rated value of the current at AC in hot12 W• per pole4 W• per pole4 Wpower loss [W] for rated value of the current without16 Wad current share typical16 Wsurge voltage resistance6 kV• of main circuit rated value6 kV• of auxiliary circuit rated value9.8g / 5 ms, 6.5g / 10 ms• at AC9.8g / 5 ms, 10.1g / 10 ms• at AC10 000 000• at AC10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized<br>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 000 000• of the contactor with added auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added auxiliary switch block typical2000 m• of the contactor with added electronically optimized<br>auxiliary switch block typical2000 m• of the contactor with added second the typical2000 m• of the contactor with added electronically optimized<br>auxiliary switch block typical2000 m• of the contactor with added second the typical2000 m <td< td=""><td>size of contactor</td><td>S2</td></td<>  | size of contactor   | S2                          |
| • auxiliary switchNopower loss [W] for rated value of the current at AC in hot<br>operating state12 W• per pole4 Wpower loss [W] for rated value of the current without<br>load current share typical16 Wsurge voltage resistance6 kV• of main circuit rated value6 kV• of auxiliary circuit rated value9 kg / 5 ms, 6.5g / 10 ms• at AC15.3g / 5 ms, 10.1g / 10 msmechanical service life (switching cycles)10 000 000• of the contactor with added electronically optimized<br>auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block<br>typical0• of the contactor with added auxiliary switch block<br>typical0.000• of the contactor with added auxiliary switch block<br>typical0.000• of the contactor with added auxiliary switch block<br>   | product extension   |                             |
| power loss [W] for rated value of the current at AC in hot       12 W         oper pole       4 W         power loss [W] for rated value of the current without       16 W         surge voltage resistance       6 kV         of main circuit rated value       6 kV         of auxiliary circuit rated value       6 kV         of main circuit rated value       6 kV         of auxiliary circuit rated value       6 kV         of auxiliary circuit rated value       9.8g / 5 ms, 6.5g / 10 ms         shock resistance at rectangular impulse       9.8g / 5 ms, 6.5g / 10 ms         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         of the contactor with added auxiliary switch block typical       2 000 m         methonibitiance (Date)       0 1.10.2014 00:00:00         Ambient conditions       -25 +60 °C         of uning operation       -25 +60 °C         of uning operation       -25 +60 °C         of uning storage       -55 +80 °C         Main circuit <t< td=""><td><ul> <li>function module for communication</li> </ul></td><td>No</td></t<>  | <ul> <li>function module for communication</li> </ul>   | No                          |
| operating state         4 W           oper log         4 W           power loss [W] for rated value of the current without<br>load current share typical         16 W           surge voltage resistance         6 kV           of main circuit rated value         6 kV           of auxiliary circuit rated value         6 kV           maximum permissible voltage for safe isolation between<br>coil and main contacts ac. to E 00947-1         400 V           shock resistance at rectangular impulse         9.8g / 5 ms, 6.5g / 10 ms           at AC         15.3g / 5 ms, 10.1g / 10 ms           shock resistance with sine pulse         10 000 000           of ontactor typical         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<br>typical         10 000 000           reference code acc. to IEC 81346-2         Q           Substance Prohibitance (Date)         2 000 m           ambient conditions         2 000 m           installation altitude at height above sea level maximum         2 000 m           ambient conditions         -25 +60 °C           ouring operation         -25 +60 °C           ouring operation         -55 +60 °C           ouring operation         3 <td><ul> <li>auxiliary switch</li> </ul></td> <td>No</td>   | <ul> <li>auxiliary switch</li> </ul>  | No                          |
| power loss [W] for rated value of the current without<br>load current share typical       16 W         surge voltage resistance <ul> <li>of main circuit rated value</li> <li>of auxiliary circuit rated value</li> <li>6 kV</li> <li>at AC</li> <li>at AC</li> <li>at AC</li> <li>at AC</li> <li>bock resistance with sine pulse       <ul> <li>at AC</li> <li>fsock resistance with sine pulse</li> <li>at AC</li> <li>at AC</li> <li>15.3g / 5 ms, 10.1g / 10 ms</li> <li>mechanical service life (switching cycles)</li> <li>of 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>of the contactor with added 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>block resistance (Date)</li> <li>01.0.2014 00:00:00</li> <li>Anbient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>abient temperature         <ul> <li>during operation</li> <li>-25 +60 °C</li>             &lt;</ul></li></ul></li></ul> |   | 12 W                        |
| ioad current share typical         ioad current share typical           surge voltage resistance         6 kV           • of main circuit rated value         6 kV           of auxiliary circuit rated value         6 kV           maximum permissible voltage for safe isolation between coll and main contacts acc. 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         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           • 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         2000 m           substance Prohibitance (Date)         0.11.0.2014 00:00:00           Ambient conditions         2000 m           ambient temperature         -25 +60 °C           • during operation         -25 +60   | • per pole  | 4 W                         |
| • of main circuit rated value6 kV• of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between<br>coil and main contacts acc. to EN 60947-1400 Vshock resistance at rectangular impulse400 V• at AC9.8g / 5 ms, 6.5g / 10 msshock resistance with sine pulse<br>• at AC15.3g / 5 ms, 10.1g / 10 msmechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized<br>auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block<br>typical10 000 000reference code acc. to IEC 81346-2QSubstance Prohibitance (Date)01.10.2014 00:00:00Ambient conditions2000 mambient temperature<br>• during operation<br>• during sorage2000 mambient temperature<br>• during sorage-25 +60 °C<br>-55 +60 °C<br>-55 +60 °C<br>-55 +60 °CMain circuit3  |   | 16 W                        |
| • of auxiliary circuit rated value6 kVmaximum permissible voltage for safe isolation between<br>coil and main contacts acc. to EN 60947-1400 Vshock resistance at rectangular impulse9.8g / 5 ms, 6.5g / 10 ms• at AC9.8g / 5 ms, 6.5g / 10 msshock resistance with sine pulse15.3g / 5 ms, 10.1g / 10 ms• at AC15.3g / 5 ms, 10.1g / 10 msmechanical service life (switching cycles)10 000 000• of contactor typical10 000 000• of the contactor with added electronically optimized<br>auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block<br>typical10 000 000reference code acc. to IEC 81346-2QSubstance Prohibitance (Date)2 000 mambient temperature<br>• during operation<br>• during storage-25 +60 °C• during storage-25 +80 °CMain circuit3number of NO contacts for main current circuit3number of NO contacts for main contacts3  | surge voltage resistance  |                             |
| maximum permissible voltage for safe isolation between<br>coil and main contacts acc. to EN 60947-1400 Vshock resistance at rectangular impulse<br>• at AC9.8g / 5 ms, 6.5g / 10 msshock resistance with sine pulse<br>• at AC15.3g / 5 ms, 10.1g / 10 msmechanical service life (switching cycles)<br>• of contactor typical10 000 000• of the contactor with added electronically optimized<br>auxiliary switch block typical10 000 000• of the contactor with added auxiliary switch block<br>typical10 000 000• of the contactor with added auxiliary switch block<br>typical10 000 000• of the contactor with added auxiliary switch block<br>typical00 000• of the contactor with added auxiliary switch block<br>typical01 000 000• of the contactor with added auxiliary switch block<br>typical01 000 000• of the contactor with added auxiliary switch block<br>typical00 000• of the contactor with added auxiliary switch block<br>typical01 000 000• of the contactor with added auxiliary switch block<br>typical01 000 000• of the contactor with added auxiliary switch block<br>typical01 000 000• of the contactor of Data01.10.2014 00:00:00Ambient conditions<br>installation altitude at height above sea level maximum<br>• during operation<br>• during operation<br>• 25 +60 °C<br>• 55 +80 °CMain circuit<br>number of NO contacts for main contacts3  | <ul> <li>of main circuit rated value</li> </ul>   | 6 kV                        |
| coil and main contacts acc. 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       9.8g / 5 ms, 10.1g / 10 ms         mechanical service life (switching cycles)       10 000 000         • 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       0 000         • of the contactor with added auxiliary switch block typical       0 000         • of the contactor with added auxiliary switch block       0 000         typical       0 000 000         reference code acc. to IEC 81346-2       Q         Substance Prohibitance (Date)       01.10.2014 00:00:00         Ambient conditions       2 000 m         ambient temperature       -25 +60 °C         • during operation       -25 +60 °C         • during storage       -55 +80 °C         Main circuit       3         number of poles for main current circuit       3         number of NO contacts for main contacts       3 <td><ul> <li>of auxiliary circuit rated value</li> </ul></td> <td>6 kV</td>   | <ul> <li>of auxiliary circuit rated value</li> </ul>  | 6 kV                        |
| • at AC9.8g / 5 ms, 6.5g / 10 msshock resistance with sine pulse• at AC15.3g / 5 ms, 10.1g / 10 msmechanical service life (switching cycles)• 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<br>typical10 000 000• of the contactor with added auxiliary switch block<br>typical0 000 000• of the contactor with added auxiliary switch block<br>typical0 000 000• of the contactor with added auxiliary switch block<br>typicalQsubstance Prohibitance (Date)01.10.2014 00:00:00Ambient conditions2 000 m• during operation<br>• during operation<br>• during storage-25 +60 °C<br>- 55 +80 °CMain circuit3number of poles for main current circuit<br>number of NO contacts for main contacts3   |   | 400 V                       |
| shock resistance with sine pulse15.3g / 5 ms, 10.1g / 10 mse at AC15.3g / 5 ms, 10.1g / 10 msmechanical service life (switching cycles)10 000 000• 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<br>typical10 000 000• of the contactor with added auxiliary switch block<br>typical10 000 000• of the contactor with added auxiliary switch block<br>typical10 000 000reference code acc. to IEC 81346-2QSubstance Prohibitance (Date)01.10.2014 00:00:00Ambient conditions2 000 minstallation altitude at height above sea level maximum<br>e during operation<br>e during storage2 000 mambient temperature<br>o during storage-25 +60 °C• during storage-55 +80 °CMain circuit3number of poles for main current circuit<br>number of NO contacts for main contacts3   | shock resistance at rectangular impulse   |                             |
| • at AC15.3g / 5 ms, 10.1g / 10 msmechanical service life (switching cycles).• 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<br>typical10 000 000• of the contactor with added auxiliary switch block<br>typical10 000 000• of the contactor with added auxiliary switch block<br>typical0 000 000• of the contactor with added auxiliary switch block<br>typical0 000 000• of the contactor with added auxiliary switch block<br>typical0 000 000• of the contactor with added auxiliary switch block<br>typical0 000 000• of the contactor with added auxiliary switch block<br>typical0 000 000• fafference code acc. to IEC 81346-2<br>Substance Prohibitance (Date)Q• during contact (Date)0 1.10.2014 00:00:00• during operation<br>• during operation<br>• during storage2 000 m• during storage-25 +60 °C• during storage-25 +80 °C• Main circuit<br>number of poles for main current circuit<br>number of NO contacts for main contacts3   | • at AC   | 9.8g / 5 ms, 6.5g / 10 ms   |
| mechanical service life (switching cycles)Notice of a service of a service life (switching cycles)• of contactor typical10 000 000• of the contactor with added electronically optimized 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 acc. to IEC 81346-2QSubstance Prohibitance (Date)01.10.2014 00:00:00Ambient conditions2 000 mambient temperature-25 +60 °C• during operation-25 +80 °CMain circuit3number of poles for main current circuit3number of NO contacts for main contacts3   | 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<br>typical10 000 000reference code acc. to IEC 81346-2QSubstance Prohibitance (Date)01.10.2014 00:00:00Ambient conditions2 000 minstallation altitude at height above sea level maximum<br>e during operation<br>during storage2 000 mambient temperature<br>of during storage-25 +60 °C<br>-55 +80 °CMain circuit3number of poles for main current circuit3number of NO contacts for main contacts3  | • at AC   | 15.3g / 5 ms, 10.1g / 10 ms |
| <ul> <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>reference code acc. to IEC 81346-2</li> <li>Q</li> <li>Substance Prohibitance (Date)</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>ambient temperature</li> <li>during operation</li> <li>-25 +60 °C</li> <li>-55 +80 °C</li> <li>Main circuit</li> <li>number of poles for main current circuit</li> <li>number of NO contacts for main contacts</li> <li>3</li> </ul>   | mechanical service life (switching cycles)  |                             |
| auxiliary switch block typicalI0 000 000• of the contactor with added auxiliary switch block<br>typical10 000 000reference code acc. to IEC 81346-2QSubstance Prohibitance (Date)01.10.2014 00:00:00Ambient conditions2 000 minstallation altitude at height above sea level maximum<br>e during operation<br>e during storage2 000 mAmbient conditions-25 +60 °C<br>-55 +80 °CMain circuit3number of poles for main current circuit3number of NO contacts for main contacts3   | <ul> <li>of contactor typical</li> </ul>  | 10 000 000                  |
| typicalreference code acc. to IEC 81346-2QSubstance Prohibitance (Date)01.10.2014 00:00:00Ambient conditions2 000 minstallation altitude at height above sea level maximum2 000 mambient temperature-25 +60 °C• during operation-25 +60 °C• during storage-55 +80 °CMain circuit3number of poles for main current circuit3number of NO contacts for main contacts3  | <ul> <li>of the contactor with added electronically optimized<br/>auxiliary switch block typical</li> </ul> | 5 000 000                   |
| Substance Prohibitance (Date)       01.10.2014 00:00:00         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         Main circuit       3         number of poles for main current circuit       3         number of NO contacts for main contacts       3   |   | 10 000 000                  |
| 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         Main circuit       3         number of poles for main current circuit       3         number of NO contacts for main contacts       3   | reference code acc. to IEC 81346-2  | Q                           |
| installation altitude at height above sea level maximum       2 000 m         ambient temperature       -25 +60 °C         • during storage       -25 +60 °C         Main circuit       -55 +80 °C         number of poles for main current circuit       3         number of NO contacts for main contacts       3   | Substance Prohibitance (Date)   | 01.10.2014 00:00:00         |
| ambient temperature         • during operation         • during storage  | Ambient conditions  |                             |
| • during operation     -25 +60 °C       • during storage     -55 +80 °C       Main circuit     -55 +80 °C       number of poles for main current circuit     3       number of NO contacts for main contacts     3  | installation altitude at height above sea level maximum   | 2 000 m                     |
| • during storage -55 +80 °C Main circuit number of poles for main current circuit 3 number of NO contacts for main contacts 3   | ambient temperature   |                             |
| Main circuit     3       number of poles for main current circuit     3       number of NO contacts for main contacts     3   | <ul> <li>during operation</li> </ul>  | -25 +60 °C                  |
| number of poles for main current circuit     3       number of NO contacts for main contacts     3  | during storage  | -55 +80 °C                  |
| number of NO contacts for main contacts 3   | Main circuit  |                             |
|   | number of poles for main current circuit  | 3                           |
| operating voltage at AC-3 rated value maximum 690 V   | number of NO contacts for main contacts   | 3                           |
|   | operating voltage at AC-3 rated value maximum   | 690 V                       |

| operational current   | -                     |
|---|-----------------------|
| <ul> <li>at AC-1 at 400 V at ambient temperature 40 °C<br/>rated value</li> </ul>   | 70 A                  |
| • at AC-1   |                       |
| — up to 690 V at ambient temperature 40 °C rated value  | 70 A                  |
| — up to 690 V at ambient temperature 60 °C rated value  | 60 A                  |
| • at AC-3   |                       |
| — at 400 V rated value  | 51 A                  |
| — at 500 V rated value  | 51 A                  |
| — at 690 V rated value  | 24 A                  |
| <ul> <li>at AC-4 at 400 V rated value</li> </ul>  | 41 A                  |
| <ul> <li>at AC-5a up to 690 V rated value</li> </ul>  | 61.6 A                |
| ● at AC-5b up to 400 V rated value  | 41.5 A                |
| • at AC-6a  |                       |
| — up to 230 V for current peak value n=20 rated value   | 43.2 A                |
| — up to 400 V for current peak value n=20 rated value   | 43.2 A                |
| — up to 500 V for current peak value n=20 rated value   | 43.2 A                |
| — up to 690 V for current peak value n=20 rated value   | 24 A                  |
| • at AC-6a  | 20.0 \                |
| — up to 230 V for current peak value n=30 rated value   | 28.8 A                |
| — up to 400 V for current peak value n=30 rated<br>value<br>— up to 500 V for current peak value n=30 rated   | 28.8 A<br>28.8 A      |
| value<br>— up to 690 V for current peak value n=30 rated  | 24 A                  |
| value   |                       |
| 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   |                       |
| <ul> <li>at 400 V rated value</li> </ul>  | 24 A                  |
| <ul> <li>at 690 V rated value</li> </ul>  | 20 A                  |
| operational current   |                       |
| <ul> <li>at 1 current path at DC-1</li> </ul>   |                       |
| — at 24 V rated value   | 55 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   | 55 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                 |
| <ul> <li>with 3 current paths in series at DC-1</li> </ul>  |                       |
|   |                       |
| — at 24 V rated value   | 55 A                  |
| — at 24 V rated value<br>— at 110 V rated value   | 55 A                  |
| — at 24 V rated value<br>— at 110 V rated value<br>— at 220 V rated value   | 55 A<br>45 A          |
| <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul>                               | 55 A<br>45 A<br>2.9 A |
| <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> </ul> | 55 A<br>45 A          |
| <ul> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul>                               | 55 A<br>45 A<br>2.9 A |

| <ul> <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>28.6</li> <li>operating apparent power at AC-6a         <ul> <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>extreme withstand current in cold operating state</li> <li>up to 40 °C</li> <li>limited to 1 s switching at zero current maximum</li> <li>limited to 10 s switching at zero current maximum</li> <li>468 A</li> <li>limited to 30 s switching at zero current maximum</li> </ul> </li> </ul> | kW         kV·A         kV         b) 1/h         k)   |
|--|--|
|  | kW         kV·A  |
|  | kW         kV·A  |
|  | kW         kV·A  |
|  | kW         kV·A  |
|  | kW         kV·A  |
|  | kW         kV·A  |
|  | kW         kV-A  |
|  | kW         kV-A  |
|  | kW         kV·A         k   |
|  | kW<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV |
|  | kW<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV |
|  | kW<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A   |
|  | kW<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A   |
|  | kW<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A   |
|  | kW<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A   |
|  | kW<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A   |
|  | kW<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A   |
|  | kW<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A   |
|  | kW<br>kV·A<br>kV·A<br>kV·A<br>kV·A<br>kV·A   |
|  | kW<br>kV·A<br>kV·A<br>kV·A<br>kV·A   |
|  | kW<br>kV·A<br>kV·A<br>kV·A<br>kV·A   |
|  | kW<br>kV·A<br>kV·A<br>kV·A   |
|  | kW<br>kV·A<br>kV·A<br>kV·A   |
|  | kW<br>kV·A<br>kV·A<br>kV·A   |
|  | kW<br>kV·A<br>kV·A   |
| <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>22 k</li> <li>operating power for approx. 200000 operating cycles<br/>at AC-4</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 690 V rated value</li> <li>12.6</li> <li>at 690 V rated value</li> <li>18.2</li> </ul>  | kW<br>kV·A   |
|  | kW   |
|  |  |
| <ul> <li>at 230 V rated value</li> <li>at 400 V rated value</li> <li>at 400 V rated value</li> <li>at 500 V rated value</li> <li>at 690 V rated value</li> <li>22 k</li> <li>operating power for approx. 200000 operating cycles at AC-4</li> <li>at 400 V rated value</li> <li>12.6</li> </ul>  |  |
| at 230 V rated value15 kV at 400 V rated value22 kV at 500 V rated value30 kV at 690 V rated value22 kVoperating power for approx. 200000 operating cycles<br>at AC-4  | kW   |
|  |  |
|  |  |
| — at 230 V rated value15 k²— at 400 V rated value22 k²— at 500 V rated value30 k²  | IV   |
| — at 230 V rated value15 k²— at 400 V rated value22 k²   |  |
| - at 230 V rated value 15 k  |  |
|  |  |
|  | N/   |
| • at AC-2 at 400 V rated value 22 k  | N  |
| operating power  |  |
| - at 600 V rated value 0.35  | A  |
| - at 440 V rated value 0.6 A   |  |
| - at 220 V rated value 25 A  |  |
| — at 110 V rated value 55 A  |  |
| — at 24 V rated value 55 A   |  |
| <ul> <li>with 3 current paths in series at DC-3 at DC-5</li> </ul>   |  |
| — at 600 V rated value 0.16  | A  |
| - at 440 V rated value 0.27  | A  |
| — at 220 V rated value 5 A   |  |
| — at 110 V rated value 25 A  |  |
| - at 24 V rated value 55 A   |  |
| with 2 current paths in series at DC-3 at DC-5   |  |
| - at 600 V rated value 0.06  |  |
| - at 220 V rated value 1 A<br>- at 440 V rated value 0.1 A   |  |
| - at 110 V rated value 2.5 A<br>- at 220 V rated value 1 A   |  |

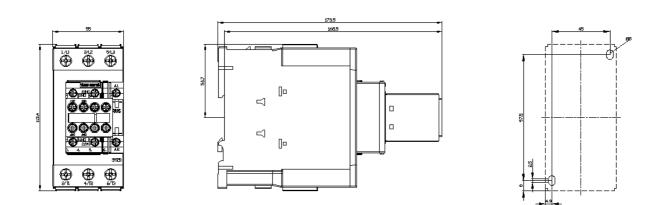
|   | 400.1/ A  |
|---|---|
| • at 50 Hz  | 190 V·A   |
| inductive power factor with closing power of the coil                 | 0.72  |
| • at 50 Hz  | 0.72  |
| apparent holding power of magnet coil at AC<br>• at 50 Hz             | 16 V·A  |
| inductive power factor with the holding power of the                  |   |
| 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<br>instantaneous contact | 2   |
| number of NO contacts for auxiliary contacts<br>instantaneous 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   |
| <ul> <li>at 500 V rated value</li> </ul>                              | 2 A   |
| • at 690 V rated value  | 1 A   |
| operational current at DC-12  |   |
| <ul> <li>at 24 V rated value</li> </ul>                               | 10 A  |
| <ul> <li>at 48 V rated value</li> </ul>                               | 6 A   |
| <ul> <li>at 60 V rated value</li> </ul>                               | 6 A   |
| <ul> <li>at 110 V rated value</li> </ul>                              | 3 A   |
| <ul> <li>at 125 V rated value</li> </ul>                              | 2 A   |
| <ul> <li>at 220 V rated value</li> </ul>                              | 1 A   |
| • at 600 V rated value  | 0.15 A  |
| operational current at DC-13  |   |
| <ul> <li>at 24 V rated value</li> </ul>                               | 6 A   |
| <ul> <li>at 48 V rated value</li> </ul>                               | 2 A   |
| <ul> <li>at 60 V rated value</li> </ul>                               | 2 A   |
| <ul> <li>at 110 V rated value</li> </ul>                              | 1 A   |
| <ul> <li>at 125 V rated value</li> </ul>                              | 0.9 A   |
| <ul> <li>at 220 V rated value</li> </ul>                              | 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                          |   |
| <ul> <li>at 480 V rated value</li> </ul>                              | 52 A  |
| <ul> <li>at 600 V rated value</li> </ul>                              | 52 A  |
| yielded mechanical performance [hp]                                   |   |
| <ul> <li>for single-phase AC motor</li> </ul>                         |   |
| — at 110/120 V rated value  | 3 hp  |
| — at 230 V rated value  | 10 hp   |
| <ul> <li>for 3-phase AC motor</li> </ul>                              |   |
| — at 200/208 V rated value  | 15 hp   |
| — at 220/230 V rated value  | 15 hp   |
| — at 460/480 V rated value  | 40 hp   |
| — at 575/600 V rated value  | 50 hp   |
| contact rating of auxiliary contacts according to UL                  | A600 / Q600                                     |
| Short-circuit protection  |   |
| design of the fuse link   |   |
| <ul> <li>for short-circuit protection of the main circuit</li> </ul>  |   |
|   |   |

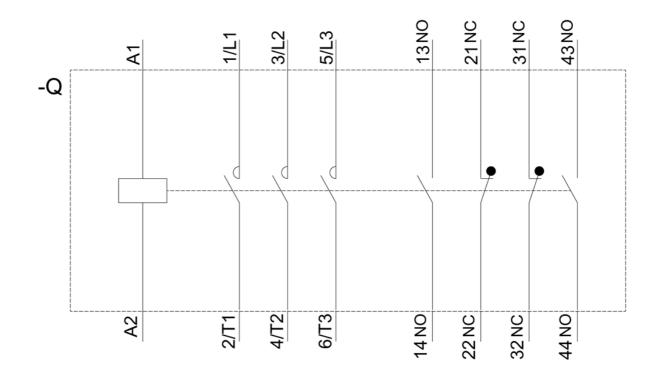
| — with type of coordination 1 required  | gG: 160 A (690 V, 100 kA), aM: 80 A (690 V, 100 kA), BS88: 125 A (415 V, 80 kA)   |  |  |  |
|---|---|--|--|--|
| - with type of assignment 2 required  | gG: 80A (690V,100kA), aM: 50A (690V,100kA), BS88: 63A (415V,80kA)   |  |  |  |
| <ul> <li>for short-circuit protection of the auxiliary switch<br/>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 standard mounting rail according to DIN EN 60715  |  |  |  |
| side-by-side mounting   | Yes   |  |  |  |
| height  | 114 mm  |  |  |  |
| width   | 55 mm   |  |  |  |
| depth   | 174 mm  |  |  |  |
| required spacing  |   |  |  |  |
| <ul> <li>with side-by-side mounting</li> </ul>  |   |  |  |  |
| — forwards  | 10 mm   |  |  |  |
| — upwards   | 10 mm   |  |  |  |
| — downwards   | 10 mm   |  |  |  |
| — at the side   | 0 mm  |  |  |  |
| <ul> <li>for grounded parts</li> </ul>  |   |  |  |  |
| — forwards  | 10 mm   |  |  |  |
| — upwards   | 10 mm   |  |  |  |
| — at the side   | 6 mm  |  |  |  |
| — downwards   | 10 mm   |  |  |  |
| <ul> <li>for live parts</li> </ul>  |   |  |  |  |
| — forwards  | 10 mm   |  |  |  |
| — upwards   | 10 mm   |  |  |  |
| — downwards   | 10 mm   |  |  |  |
| — at the side   | 6 mm  |  |  |  |
| Connections/ Terminals  |   |  |  |  |
| type of electrical connection   |   |  |  |  |
| <ul> <li>for main current circuit</li> </ul>  | screw-type terminals  |  |  |  |
|   |   |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> </ul>   | screw-type terminals  |  |  |  |
|   | screw-type terminals<br>Screw-type terminals  |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> </ul>   |   |  |  |  |
| <ul><li>for auxiliary and control circuit</li><li>at contactor for auxiliary contacts</li></ul>   | Screw-type terminals  |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> </ul>  | Screw-type terminals  |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections</li> </ul>  | Screw-type terminals  |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li> </ul>   | Screw-type terminals<br>Screw-type terminals  |  |  |  |
| for auxiliary and control circuit     at contactor for auxiliary contacts     of magnet coil     type of connectable conductor cross-sections     of main contacts  | Screw-type terminals<br>Screw-type terminals<br>2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )  |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts         <ul> <li>– solid or stranded</li> <li>– finely stranded with core end processing</li> </ul> </li> </ul>  | Screw-type terminals<br>Screw-type terminals<br>2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )  |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main</li> </ul>   | Screw-type terminals<br>Screw-type terminals<br>2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )  |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts</li> </ul>  | Screw-type terminals<br>Screw-type terminals<br>2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>2x (18 2), 1x (18 1)  |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary</li> </ul> </li> </ul>   | Screw-type terminals<br>Screw-type terminals<br>2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>2x (18 2), 1x (18 1)  |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>ontacts</li> <li>finely stranded with core end processing</li> <li>contacts</li> </ul>   | Screw-type terminals         Screw-type terminals         2x (1 35 mm²), 1x (1 50 mm²)         2x (1 25 mm²), 1x (1 35 mm²)         2x (18 2), 1x (18 1)         1 35 mm²   |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts         <ul> <li>of magnet coil</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>ontacts</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> </ul>  | Screw-type terminals<br>Screw-type terminals<br>2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>2x (18 2), 1x (18 1)<br>1 35 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup>   |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts         <ul> <li>of magnet coil</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>ontacts</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul>  | Screw-type terminals<br>Screw-type terminals<br>2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>2x (18 2), 1x (18 1)<br>1 35 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup>   |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts         <ul> <li>of magnet coil</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>ontacts</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> </ul>  | Screw-type terminals<br>Screw-type terminals<br>2x (1 35 mm <sup>2</sup> ), 1x (1 50 mm <sup>2</sup> )<br>2x (1 25 mm <sup>2</sup> ), 1x (1 35 mm <sup>2</sup> )<br>2x (18 2), 1x (18 1)<br>1 35 mm <sup>2</sup><br>0.5 2.5 mm <sup>2</sup>   |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts</li> <li>of magnet coil</li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts             <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-section for auxiliary contacts             <ul> <li>finely stranded with core end processing</li> <li>for auxiliary contacts</li> </ul> </li> </ul></li></ul>   | Screw-type terminals         Screw-type terminals         2x (1 35 mm²), 1x (1 50 mm²)         2x (1 25 mm²), 1x (1 35 mm²)         2x (1 8 2), 1x (18 1)         1 35 mm²         0.5 2.5 mm²         0.5 2.5 mm²  |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts         <ul> <li>of magnet coil</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>efinely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> <li>type of connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> </ul> </li>  | Screw-type terminals         Screw-type terminals         2x (1 35 mm²), 1x (1 50 mm²)         2x (1 25 mm²), 1x (1 35 mm²)         2x (18 2), 1x (18 1)         1 35 mm²         0.5 2.5 mm²         0.5 2.5 mm²         2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)   |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts         <ul> <li>of magnet coil</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>onnectable conductor cross-section for auxiliary contacts</li> <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> <li>totacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>totacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>totacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</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>finely stranded with core end processing</li> </ul> </li></ul>   | Screw-type terminals         Screw-type terminals         2x (1 35 mm²), 1x (1 50 mm²)         2x (1 25 mm²), 1x (1 35 mm²)         2x (18 2), 1x (18 1)         1 35 mm²         0.5 2.5 mm²         0.5 2.5 mm²         2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)   |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts         <ul> <li>of magnet coil</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <ul> <li>finely stranded with core end processing</li> </ul> <ul> <li>finely stranded with core end processing</li> </ul> <li>connectable conductor cross-section for auxiliary contacts             <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> </ul> </li> <li>at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross</li> </ul>  | Screw-type terminals         Screw-type terminals         2x (1 35 mm²), 1x (1 50 mm²)         2x (1 25 mm²), 1x (1 35 mm²)         2x (18 2), 1x (18 1)         1 35 mm²         0.5 2.5 mm²         0.5 2.5 mm²         2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²)   |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts         <ul> <li>of magnet coil</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>ontacts</li> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections                 <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li></ul></li></ul></li></ul>   | Screw-type terminals<br>Screw-type terminals<br>$2x (1 35 mm^2), 1x (1 50 mm^2)$<br>$2x (1 25 mm^2), 1x (1 35 mm^2)$<br>2x (18 2), 1x (18 1)<br>$1 35 mm^2$<br>$0.5 2.5 mm^2$<br>$0.5 2.5 mm^2$<br>$2x (0,5 1,5 mm^2), 2x (0,75 2,5 mm^2)$<br>$2x (0.5 1.5 mm^2), 2x (0.75 2.5 mm^2)$<br>2x (20 16), 2x (18 14)   |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts         <ul> <li>of magnet coil</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> </ul> <li>connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-section for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for auxiliary contacts</li> <li>solid or stranded</li> <li>for auxiliary contacts</li> <li>align or stranded</li> <li>for auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> </ul> </li> <li>AWG number as coded connectable conductor cross section         <ul> <li>for main contacts</li> </ul> </li>  | Screw-type terminals         Screw-type terminals         2x (1 35 mm²), 1x (1 50 mm²)         2x (1 25 mm²), 1x (1 35 mm²)         2x (1 8 2), 1x (18 1)         1 35 mm²         0.5 2.5 mm²         0.5 2.5 mm²         2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2,5 mm²)         2x (20 16), 2x (18 14)         18 1              |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts         <ul> <li>of magnet coil</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> <li>connectable conductor cross-section for main contacts</li> </ul> <li>finely stranded with core end processing</li> <li>connectable conductor cross-section for auxiliary contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts         <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> </ul> </li> <li>type of connectable conductor cross-sections</li> <li>a solid or stranded</li> <li>for auxiliary contacts</li> <li>solid or stranded</li> <ul> <li>mean contacts</li> <li>a solid or stranded</li> <li>for auxiliary contacts</li> <li>for auxiliary contacts</li> </ul> <li>AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for main contacts</li> <li>for auxiliary contacts</li>   | Screw-type terminals         Screw-type terminals         2x (1 35 mm²), 1x (1 50 mm²)         2x (1 25 mm²), 1x (1 35 mm²)         2x (1 8 2), 1x (18 1)         1 35 mm²         0.5 2.5 mm²         0.5 2.5 mm²         2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         2x (0.5 1.5 mm²), 2x (0.75 2,5 mm²)         2x (20 16), 2x (18 14)         18 1              |  |  |  |
| <ul> <li>for auxiliary and control circuit</li> <li>at contactor for auxiliary contacts         <ul> <li>of magnet coil</li> </ul> </li> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> <li>at AWG cables for main contacts</li> </ul> </li> <li>connectable conductor cross-section for main contacts         <ul> <li>finely stranded with core end processing</li> </ul> </li> <ul> <li>finely stranded with core end processing</li> </ul> <ul> <li>finely stranded with core end processing</li> </ul> <ul> <li>finely stranded with core end processing</li> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>type of connectable conductor cross-sections</li> <li>for auxiliary contacts                 <ul> <li>solid or stranded</li> <li>finely stranded with core end processing</li> <li>at AWG cables for auxiliary contacts</li> <li>at AWG cables for auxiliary contacts</li> <li>AWG number as coded connectable conductor cross section</li> <li>for main contacts</li> <li>for auxiliary contacts</li></ul></li></ul></ul> | Screw-type terminals         Screw-type terminals         2x (1 35 mm²), 1x (1 50 mm²)         2x (1 25 mm²), 1x (1 35 mm²)         2x (18 2), 1x (18 1)         1 35 mm²         0.5 2.5 mm²         0.5 2.5 mm²         2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²)         2x (20 16), 2x (18 14)         18 1         20 14 |  |  |  |

| munamentian - f -l-   |   |               |   |                               |                   |  |  |
|---|---|---------------|---|-------------------------------|-------------------|--|--|
| proportion of dange   |   | 40.04         |   |                               |                   |  |  |
|   | nd rate acc. to SN 31920  | 40 %          |   |                               |                   |  |  |
| -   | nd rate acc. to SN 31920  |               | 73 %                                    |                               |                   |  |  |
|   | low demand rate acc. to SN 3192<br>tively driven operation acc. to IEC  |               | 100 FIT<br>No                           |                               |                   |  |  |
|   | est interval or service life acc. to  | <b>o</b> 20 y | 20 y                                    |                               |                   |  |  |
|   | P on the front and to IEC 60520   |               |   |                               |                   |  |  |
| -   | ction class IP on the front acc. to IEC 60529 IP20  |               |   |                               |                   |  |  |
| suitability for use   | ouch protection on the front acc. to IEC 60529 finger-safe, for vertical contact from the front   |               |   |                               |                   |  |  |
| <ul> <li>safety-related s</li> </ul>                                    | witching OFF  | Yes           | Voc                                     |                               |                   |  |  |
| certificates/ approval  | •   | 100           |   |                               |                   |  |  |
| General Product Ap  |   |               |   |                               | EMC               |  |  |
| ()<br>E   |   |               | KC                                      | EHC                           | RCM               |  |  |
| Functional<br>Safety/Safety of<br>Machinery                             | Declaration of Conformity   |               | Test Certificates                       |                               | Marine / Shipping |  |  |
| <u>Type Examination</u><br><u>Certificate</u>                           | UK Declaration of<br>Conformity   | G-Konf.       | Type Test Certific-<br>ates/Test Report | Special Test Certific-<br>ate | ABS               |  |  |
| Marine / Shipping   |   |               |   |                               |                   |  |  |
|   | Lloyds<br>Register<br>uis   | PRS           | RINA                                    | RMRS RARS                     | DNV-GL            |  |  |
| other   |   |               |   |                               |                   |  |  |
| <u>Confirmation</u>   | <u>Confirmation</u>   |               |   |                               |                   |  |  |
| https://www.siemens.<br>Industry Mall (Onlin<br>https://mall.industry.s | urther information<br>Information- and Downloadcenter (Catalogs, Brochures,)<br>https://www.siemens.com/ic10<br>Industry Mall (Online ordering system)<br>https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RT2036-1AP04<br>Cax online generator |               |   |                               |                   |  |  |
| http://support.automa<br>Service&Support (N                             | or<br>tion.siemens.com/WW/CAXorder,<br>lanuals, Certificates, Characteri<br>rv.siemens.com/cs/ww/en/ps/3RT  | istics, FAQs, |   | <u>36-1AP04</u>               |                   |  |  |
| Image database (pro   | oduct images, 2D dimension dra<br>n.siemens.com/bilddb/cax_de.asp   | awings, 3D n  |   | diagrams, EPLAN mag           | cros,)            |  |  |

Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RT2036-1AP04/char

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RT2036-1AP04&objecttype=14&gridview=view1





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