## SIEMENS

## Data sheet

## 3RH2131-1BA40



Contactor relay, 3 NO + 1 NC, 12 V DC, Size S00, screw terminal

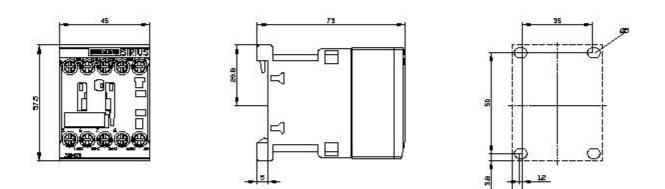
| product brand name         SIRUS           product bye designation         Auxiliary contactor           product type designation         3RH2           Central technical data         size of contactor           size of contactor         S00           product stansion auxiliary switch         Yes           insulation voltage with degree of pollution 3 at AC rated value         680 V           degree of pollution         3           surge voltage resistance rated value         6 kV           shock resistance at rectangular impulse         6 kV           e at DC         10g / 5 ms, 5g / 10 ms           mechanical service life (switching cycles)         30 000 000           of contactor with added electronically optimized aviliary switch block typical         10 000 000           of the contactor with added electronically optimized aviliary switch block typical         10 000 000           witical         10 000 000         2000 m           installation altitude at height above sea level maximum         2 000 m         25 + 60 °C           e ambient temperature during operation         -25 + 60 °C         -           e at DC         10 0000 1/h         -           of the control supply voltage         DC         Control circuit/ Control           type of voltage of the control supply vol  |  |                        |
|--|--|------------------------|
| product type designation     3RH2       General technical data     size of contactor       size of contactor     S00       product extension auxiliary switch     Yes       insulation voltage with degree of pollution 3 at AC rated value     680 V       degree of pollution     3       surge voltage resistance at rectangular impulse     6 kV       • at DC     10g / 5 ms, 5g / 10 ms       shock resistance at rectangular impulse     10g / 5 ms, 8g / 10 ms       • at DC     15g / 5 ms, 8g / 10 ms       mechanical service life (switching cycles)     30 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added sectonically optimized auxiliary switch block typical     10 000 000       • of the contactor with added sectonically optimized auxiliary switch block typical     10 000 000       • of the contactor with added sectonically optimized auxiliary switch block typical     10 000 000       • of the contactor with added sectonically optimized auxiliary switch block typical     10 000 000       • of the contactor with added sectonically optimized auxiliary switch block typical     10 000 000       installation altitude at height above sea level maximum     2 000 m       • anblent temperature during storage     -55 +80 °   | product brand name                                       | SIRIUS                 |
| General technical data     S00       product extension auxiliary switch     Yes       insulation voltage with degree of pollution 3 at AC rated value     680 V       degree of pollution     3       surge voltage resistance rated value     6 kV       shock resistance at rectangular impulse     6 kV       • at DC     10g / 5 ms, 5g / 10 ms       shock resistance with sine pulse     10g / 5 ms, 5g / 10 ms       • at DC     15g / 5 ms, 8g / 10 ms       mechanical service life (switching cycles)     3 0000 000       • of the contactor with added electronically optimized auxiliary switch block typical     30 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added survive sea level maximum     2 000 m       reference code acc. to IEC 81346-2     K       Substance Prohibitance (Date)     01.10.2009 00:00:00       Ambient conditions     2 000 m       installation altitude at height above sea level maximum     2 000 m       • ambient temperature during storage     -55 +60 °C       Main circuit     10 0000 1/h       • at AC     10 0000 1/h   | product designation                                      | Auxiliary contactor    |
| size of contactor     S00       product extension auxiliary switch     Yes       insulation voltage with degree of pollution 3 at AC rated value     690 V       degree of pollution     3       surge voltage resistance rated value     6 kV       shock resistance at rectangular impulse     6 kV       • at DC     10g / 5 ms, 5g / 10 ms       mechanical service life (switching cycles)     10g / 5 ms, 8g / 10 ms       • of contactor typical     30 000 000       • 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 acc. to IEC 81346-2     K       Substance Prohibitiance (Date)     01.10.2009 00:00:00       Ambient conditions     2000 m       installation altitude at height above sea level maximum     2 000 m       • ambient temperature during operation     -25 +60 °C       • ambient temperature during storage     -55 +80 °C       Main circuit     10 0000 1/h       • at DC   | product type designation                                 | 3RH2                   |
| product extension auxiliary switch     Yes       insulation voltage with degree of pollution 3 at AC rated value     680 V       degree of pollution     3       surge voltage resistance rated value     6 kV       shock resistance at rectangular impulse     6 kV       • at DC     10g / 5 ms, 5g / 10 ms       shock resistance with sine pulse     15g / 5 ms, 8g / 10 ms       • of contactor life (switching cycles)     30 000 000       • of contactor typical     30 000 000       • 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       • at DC     01.10.2009 00:00:00       Ambient conditions     2 000 m       installation altitude at height above sea level maximum     2 000 m       • ambient temperature during operation     -25 +60 °C       • ambient temperature during storage     -55 +60 °C       • at AC     10 000 1/h       • at DC     10 000 1/h       <   | General technical data                                   |                        |
| insulation voltage with degree of pollution 3 at AC rated value       690 V         degree of pollution       3         surge voltage resistance rated value       6 KV         shock resistance at rectangular impulse <ul> <li>at DC</li> <li>10g / 5 ms, 5g / 10 ms</li> <li>shock resistance with sine pulse</li> <li>at DC</li> <li>15g / 5 ms, 8g / 10 ms</li> <li>eat DC</li> <li>of contactor typical</li> <li>of the contactor with added electronically optimized auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block typical</li> <li>reference code acc. to IEC 81346-2</li> <li>K</li> <li>Substance Prohibitance (Date)</li> <li>01.0.2009 00.00:00</li> <li>Ambient conditions</li> <li>ambient temperature during operation</li> <li>-25 +60 °C</li> <li>ambient temperature during storage</li> <li>-55 +60 °C</li> <li>ambient temperature during storage</li> <li>-55 +60 °C</li> <li>ambient temperature during storage</li> <li>-55 +60 °C</li> <li>at AC</li> <li>10 000 1/h</li> <li>control supply voltage at DC</li> <li>it AC</li> <li>t AC</li> <lit ac<="" li=""> <li>t AC</li> <lit ac<="" td=""><td>size of contactor</td><td>S00</td></lit></lit></ul>   | size of contactor  | S00                    |
| value       3         degree of pollution       3         surge voltage resistance rated value       6 kV         shock resistance at rectangular impulse       6 kV         • at DC       10g / 5 ms, 5g / 10 ms         shock resistance with sine pulse       15g / 5 ms, 8g / 10 ms         • at DC       15g / 5 ms, 8g / 10 ms         mechanical service life (switching cycles)       000 000         • of contactor vpical       30 000 000         • of the contactor with added electronically optimized       30 000 000         • of the contactor with added auxiliary switch block       10 000 000         typical       10 000 000         ypical       10 000 000         Ambient conditions       10 000 000         Installation altitude at height above sea level maximum       2 000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +80 °C         Main circuit       10 000 1/h         • at AC       10 000 1/h         • at DC       10 000 1/h         • at AC       10 000 1/h         • at DC       12 V         operating range factor control supply voltage at DC       12 V         operating range factor control supply voltage rated   | product extension auxiliary switch                       | Yes                    |
| surge voltage resistance rated value       6 kV         shock resistance at rectangular impulse       10g / 5 ms, 5g / 10 ms         • at DC       10g / 5 ms, 5g / 10 ms         shock resistance with sine pulse       15g / 5 ms, 8g / 10 ms         • of DC       15g / 5 ms, 8g / 10 ms         mechanical service life (switching cycles)       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5000 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 acc. to IEC 81346-2       K         Substance Prohibitance (Date)       01.10.2009 00:00:00         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +60 °C         • at AC       10 000 1/h         • at Ac value   |  | 690 V                  |
| shock resistance at rectangular impulse       10g / 5 ms, 5g / 10 ms         shock resistance with sine pulse       10g / 5 ms, 5g / 10 ms         • at DC       15g / 5 ms, 8g / 10 ms         mechanical service life (switching cycles)       0 for contactor typical         • of the contactor with added electronically optimized auxiliary switch block typical       30 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • arbient conditions       0 11.0.2009 00:00:00         installation altitude at height above sea level maximum       2.000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +80 °C         • at AC       10 000 1/h         • at AC       10 000 1/h         • at C       10 000 1/h <t< td=""><td>degree of pollution</td><td>3</td></t<>  | degree of pollution                                      | 3                      |
| • at DC       10g / 5 ms, 5g / 10 ms         shock resistance with sine pulse       15g / 5 ms, 8g / 10 ms         • at DC       15g / 5 ms, 8g / 10 ms         mechanical service life (switching cycles)       30 000 000         • of contactor typical       30 000 000         • 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 acc. to IEC 81346-2       K         Substance Prohibitance (Date)       01.02.009 00:00:00         Ambient conditions       2 000 m         • ambient temperature during operation       -25 +60 °C         • at AC       10 0000 1/h         • rated value       12 V         operating range factor control supply voltage rated value       12 V <td>surge voltage resistance rated value</td> <td>6 kV</td>  | surge voltage resistance rated value                     | 6 kV                   |
| shock resistance with sine pulse     15g / 5 ms, 8g / 10 ms       e at DC     15g / 5 ms, 8g / 10 ms       mechanical service life (switching cycles)     30 000 000       • of contactor typical     30 000 000       • of the contactor with added electronically optimized auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       • of the contactor with added auxiliary switch block typical     10 000 000       Installation altitude at height above sea level maximum     2 000 m       • ambient temperature during operation     -25 +60 °C       • ambient temperature during storage     -55 +80 °C       Main circuit     10 0000 1/h       • at DC     10 0000 1/h       Control circuit/ Control     Up operating range factor control supply voltage       • rated value     12 V       • parating range factor control supply voltage rated value of magnet coil at DC       • initial value     0.8  | shock resistance at rectangular impulse                  |                        |
| • at DC       15g / 5 ms, 8g / 10 ms         mechanical service life (switching cycles)       30 000 000         • of contactor typical       30 000 000         • of the contactor with added electronically optimized auxiliary switch block typical       5000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block typical       10 000 000         • of the contactor with added auxiliary switch block       10 000 000         • of the contactor with added auxiliary switch block       10 000 000         • ambient conditions       2 000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +80 °C         Main circuit       10 000 1/h         • at AC       10 000 1/h         • at DC       10 000 1/h         • at DC       10 000 1/h         • at DC       12 V         • porating range factor control supply voltage rated value       12 V         • poperating range factor control supply  | ● at DC  | 10g / 5 ms, 5g / 10 ms |
| mechanical service life (switching cycles)     of contactor typical     30 000 000       • of the contactor with added electronically optimized<br>auxiliary switch block typical     30 000 000       • of the contactor with added auxiliary switch block<br>typical     10 000 000       reference code acc. to IEC 81346-2     K       Substance Prohibitance (Date)     01.10.2009 00:00:00       Ambient conditions     2 000 m       • ambient temperature during operation     -25 +60 °C       • ambient temperature during storage     -55 +80 °C       Main circuit     10 000 1/h       • at AC     10 000 1/h       • at AC <t< td=""><td>shock resistance with sine pulse</td><td></td></t<>   | shock resistance with sine pulse                         |                        |
| <ul> <li>of contactor typical</li> <li>of the contactor with added electronically optimized<br/>auxiliary switch block typical</li> <li>of the contactor with added auxiliary switch block<br/>typical</li> <li>reference code acc. to IEC 81346-2</li> <li>K</li> <li>Substance Prohibitance (Date)</li> <li>01.10.2009 00:00:00</li> <li>Ambient conditions</li> <li>installation altitude at height above sea level maximum</li> <li>2 000 m</li> <li>ambient temperature during operation</li> <li>-25 +60 °C</li> <li>ambient temperature during storage</li> <li>-55 +80 °C</li> <li>Main circuit</li> <li>no-load switching frequency</li> <li>at AC</li> <li>10 000 1/h</li> <li>at DC</li> <li>10 000 1/h</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated<br/>value of magnet coil at DC</li> <li>onitial value</li> <li>0.8</li> </ul>   |  | 15g / 5 ms, 8g / 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>K</li> <li>Substance Prohibitance (Date)</li> <li>01.10.2009 00:00:00</li> <li>Ambient conditions</li> <li>ambient temperature during operation</li> <li>-25 +60 °C</li> <li>ambient temperature during storage</li> <li>-55 +80 °C</li> <li>Main circuit</li> <li>no-load switching frequency</li> <li>at AC</li> <li>10 000 1/h</li> <li>at DC</li> <li>10 000 1/h</li> <li>control supply voltage at DC</li> <li>rated value</li> <li>operating range factor control supply voltage rated value of magnet coil at DC</li> <li>initial value</li> <li>0.8</li> </ul>   | mechanical service life (switching cycles)               |                        |
| auxiliary switch block typical<br>• of the contactor with added auxiliary switch block<br>typical<br>reference code acc. to IEC 81346-2<br>K<br>Substance Prohibitance (Date)<br>Ambient conditions<br>installation altitude at height above sea level maximum<br>• ambient temperature during operation<br>• ambient temperature during operation<br>• ambient temperature during storage<br>• ambient temperature during storage<br>• arbient temp | <ul> <li>of contactor typical</li> </ul>                 | 30 000 000             |
| typical       K         reference code acc. to IEC 81346-2       K         Substance Prohibitance (Date)       01.10.2009 00:00:00         Ambient conditions       2 000 m         installation altitude at height above sea level maximum       2 000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +80 °C         Main circuit       no-load switching frequency         • at AC       10 000 1/h         • at DC       10 000 1/h         • at DC       10 000 1/h         control circuit/ Control       type of voltage of the control supply voltage         Control supply voltage at DC       0C         • rated value       12 V         operating range factor control supply voltage rated value of magnet coil at DC       0.8   |  | 5 000 000              |
| Substance Prohibitance (Date)       01.10.2009 00:00:00         Ambient conditions       installation altitude at height above sea level maximum       2 000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +80 °C         Main circuit       no-load switching frequency         • at AC       10 000 1/h         • at DC       10 000 1/h         Control circuit/ Control       10 000 1/h         type of voltage of the control supply voltage       DC         control supply voltage at DC       12 V         • rated value       12 V         operating range factor control supply voltage rated value of magnet coil at DC       0.8   |  | 10 000 000             |
| Ambient conditions         installation altitude at height above sea level maximum       2 000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +80 °C         Main circuit       -55 +80 °C         no-load switching frequency       • at AC         • at DC       10 000 1/h         • at DC       10 000 1/h         Control circuit/ Control       10 000 1/h         type of voltage of the control supply voltage       DC         • rated value       12 V         operating range factor control supply voltage rated value of magnet coil at DC       0.8  | reference code acc. to IEC 81346-2                       | К                      |
| installation altitude at height above sea level maximum       2 000 m         • ambient temperature during operation       -25 +60 °C         • ambient temperature during storage       -55 +80 °C         Main circuit       -55 +80 °C         Main circuit       -0000 1/h         • at AC       10 000 1/h         • at DC       10 000 1/h         Control circuit/ Control       10 000 1/h         type of voltage of the control supply voltage       DC         control supply voltage at DC       -         • rated value       12 V         operating range factor control supply voltage rated value       0.8  | Substance Prohibitance (Date)                            | 01.10.2009 00:00:00    |
| e ambient temperature during operation     e ambient temperature during storage     -25 +60 °C     ambient temperature during storage     -55 +80 °C      Main circuit      no-load switching frequency     e at AC         10 000 1/h     e at DC         10 000 1/h      Control circuit/ Control      type of voltage of the control supply voltage     DC     control supply voltage at DC     e rated value     12 V      operating range factor control supply voltage rated     value of magnet coil at DC     e initial value     0.8  | Ambient conditions                                       |                        |
| <ul> <li>ambient temperature during storage</li> <li>-55 +80 °C</li> <li>Main circuit</li> <li>no-load switching frequency         <ul> <li>at AC</li> <li>10 000 1/h</li> <li>at DC</li> <li>10 000 1/h</li> </ul> </li> <li>Control circuit/ Control</li> <li>type of voltage of the control supply voltage</li> <li>Control supply voltage at DC</li> <li>rated value</li> <li>12 V</li> <li>operating range factor control supply voltage rated value</li> <li>initial value</li> <li>0.8</li> </ul>   | installation altitude at height above sea level maximum  | 2 000 m                |
| • ambient temperature during storage         -55 +80 °C           Main circuit         -55 +80 °C           no-load switching frequency         -           • at AC         10 000 1/h           • at DC         10 000 1/h           Control circuit/ Control         10 000 1/h           type of voltage of the control supply voltage         DC           control supply voltage at DC         -           • rated value         12 V           operating range factor control supply voltage rated value of magnet coil at DC         0.8  | <ul> <li>ambient temperature during operation</li> </ul> | -25 +60 °C             |
| no-load switching frequency       10 000 1/h         • at AC       10 000 1/h         • at DC       10 000 1/h         Control circuit/ Control       DC         type of voltage of the control supply voltage       DC         control supply voltage at DC       12 V         • rated value       12 V         operating range factor control supply voltage rated value       0.8   |  | -55 +80 °C             |
| • at AC10 000 1/h• at DC10 000 1/hControl circuit/ ControlDCtype of voltage of the control supply voltageDCcontrol supply voltage at DC12 V• rated value12 Voperating range factor control supply voltage rated<br>value of magnet coil at DC0.8   | Main circuit   |                        |
| • at AC10 000 1/h• at DC10 000 1/hControl circuit/ ControlDCtype of voltage of the control supply voltageDCcontrol supply voltage at DC12 V• rated value12 Voperating range factor control supply voltage rated<br>value of magnet coil at DC0.8   | no-load switching frequency                              |                        |
| Control circuit/ Control       type of voltage of the control supply voltage     DC       control supply voltage at DC     12 V       • rated value     12 V       operating range factor control supply voltage rated value of magnet coil at DC     0.8  | • at AC  | 10 000 1/h             |
| type of voltage of the control supply voltage     DC       control supply voltage at DC     12 V       • rated value     12 V       operating range factor control supply voltage rated value     0.8  | ● at DC  | 10 000 1/h             |
| control supply voltage at DC       12 V         • rated value       12 V         operating range factor control supply voltage rated       0.8   | Control circuit/ Control                                 |                        |
| • rated value     12 V       operating range factor control supply voltage rated     12 V       • initial value     0.8  | type of voltage of the control supply voltage            | DC                     |
| operating range factor control supply voltage rated       value of magnet coil at DC       • initial value     0.8   | control supply voltage at DC                             |                        |
| value of magnet coil at DC       • initial value       0.8   | rated value  | 12 V                   |
|  |  |                        |
| • full-scale value 1.1   | initial value  | 0.8                    |
|  | • full-scale value                                       | 1.1                    |

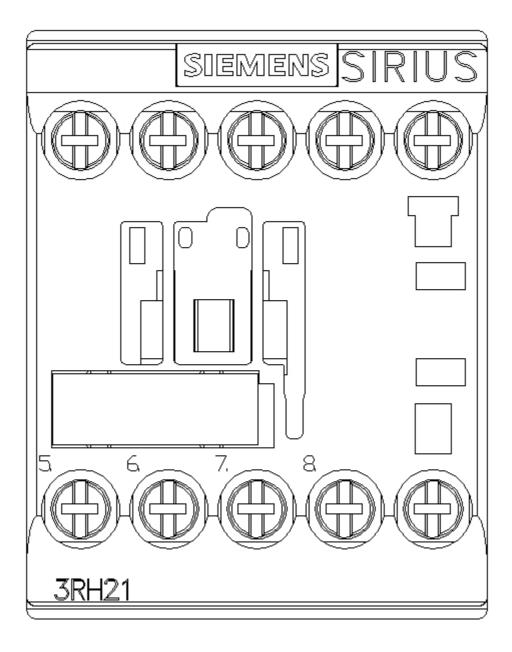
| closing power of magnet coil at DC                          | 4 W       |
|---|-----------|
| holding power of magnet coil at DC                          | 4 W       |
| closing delay   |           |
| • at DC   | 30 100 ms |
| opening delay   |           |
| • at DC   | 7 13 ms   |
| arcing time   | 10 15 ms  |
| Auxiliary circuit   |           |
| number of NC contacts for auxiliary contacts                | 1         |
| <ul> <li>instantaneous contact</li> </ul>                   | 1         |
| number of NO contacts for auxiliary contacts                | 3         |
| <ul> <li>instantaneous contact</li> </ul>                   | 3         |
| identification number and letter for switching<br>elements  | 31 E      |
| operational current at AC-12 maximum                        | 10 A      |
| operational current at AC-15                                |           |
| <ul> <li>at 230 V rated value</li> </ul>                    | 10 A      |
| <ul> <li>at 400 V rated value</li> </ul>                    | 3 A       |
| • at 500 V rated value                                      | 2 A       |
| at 690 V rated value  | 1 A       |
| operational current at 1 current path at DC-12              |           |
| at 24 V rated value   | 10 A      |
| <ul> <li>at 110 V rated value</li> </ul>                    | 3 A       |
| <ul> <li>at 220 V rated value</li> </ul>                    | 1 A       |
| <ul> <li>at 440 V rated value</li> </ul>                    | 0.3 A     |
| • at 600 V rated value                                      | 0.15 A    |
| operational current with 2 current paths in series at DC-12 |           |
| <ul> <li>at 24 V rated value</li> </ul>                     | 10 A      |
| <ul> <li>at 60 V rated value</li> </ul>                     | 10 A      |
| • at 110 V rated value                                      | 4 A       |
| <ul> <li>at 220 V rated value</li> </ul>                    | 2 A       |
| • at 440 V rated value                                      | 1.3 A     |
| • at 600 V rated value                                      | 0.65 A    |
| operational current with 3 current paths in series at DC-12 |           |
| <ul> <li>at 24 V rated value</li> </ul>                     | 10 A      |
| <ul> <li>at 60 V rated value</li> </ul>                     | 10 A      |
| <ul> <li>at 110 V rated value</li> </ul>                    | 10 A      |
| <ul> <li>at 220 V rated value</li> </ul>                    | 3.6 A     |
| <ul> <li>at 440 V rated value</li> </ul>                    | 2.5 A     |
| • at 600 V rated value                                      | 1.8 A     |
| operating frequency at DC-12 maximum                        | 1 000 1/h |
| operational current at 1 current path at DC-13              |           |
| at 24 V rated value   | 10 A      |
| • at 110 V rated value                                      | 1 A       |
| at 220 V rated value  | 0.3 A     |
| • at 440 V rated value                                      | 0.14 A    |
| at 600 V rated value  | 0.1 A     |
| operational current with 2 current paths in series at DC-13 |           |
| at 24 V rated value   | 10 A      |
| • at 60 V rated value                                       | 3.5 A     |
| • at 110 V rated value                                      | 1.3 A     |
| at 220 V rated value  | 0.9 A     |
| • at 440 V rated value                                      | 0.2 A     |
| • at 600 V rated value                                      | 0.1 A     |
| operational current with 3 current paths in series at DC-13 |           |
|   |           |

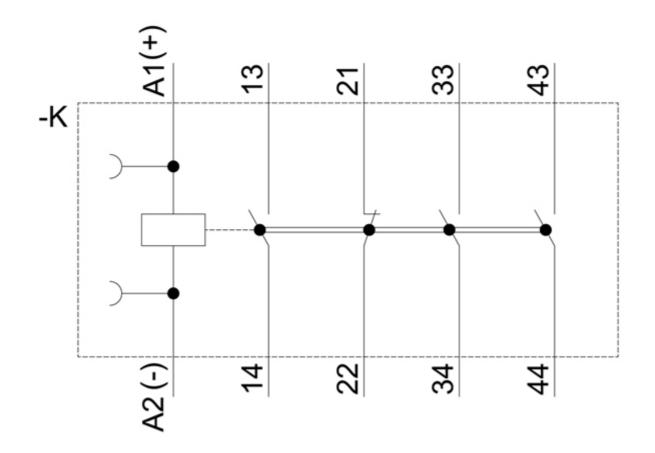
| <ul> <li>at 24 V rated value</li> </ul>   | 10 A  |
|---|---|
| <ul> <li>at 60 V rated value</li> </ul>   | 4.7 A   |
| <ul> <li>at 110 V rated value</li> </ul>  | 3 A   |
| <ul> <li>at 220 V rated value</li> </ul>  | 1.2 A   |
| <ul> <li>at 440 V rated value</li> </ul>  | 0.5 A   |
| at 600 V rated value  | 0.26 A  |
| operating frequency at DC-13 maximum  | 1 000 1/h   |
| design of the miniature circuit breaker for short-circuit   | C characteristic: 6 A; 0.4 kA   |
| protection of the auxiliary circuit up to 230 V   |   |
| contact reliability of auxiliary contacts   | 1 faulty switching per 100 million (17 V, 1 mA)                       |
| UL/CSA ratings  |   |
| contact rating of auxiliary contacts according to UL  | A600 / Q600   |
| Short-circuit protection  |   |
| design of the fuse link for short-circuit protection of the   | fuse gL/gG: 10 A  |
| auxiliary switch required   | 3-3   |
| 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          |
| height  | 57.5 mm   |
| width   | 45 mm   |
| depth   | 73 mm   |
| required spacing  |   |
| <ul> <li>with side-by-side mounting</li> </ul>  |   |
| — forwards  | 10 mm   |
| — upwards   | 10 mm   |
| — downwards   | 10 mm   |
| — at the side   | 0 mm  |
| <ul> <li>for grounded parts</li> </ul>  |   |
| — forwards  | 10 mm   |
| — upwards   | 10 mm   |
| — at the side   | 6 mm  |
| — downwards   | 10 mm   |
| • for live parts  |   |
| — forwards  | 10 mm   |
| — upwards   | 10 mm   |
| — downwards   | 10 mm   |
| — at the side   | 6 mm  |
| Connections/ Terminals  |   |
| type of electrical connection for auxiliary and control circuit                                     | screw-type terminals  |
| type of connectable conductor cross-sections  |   |
| for auxiliary contacts  |   |
| — solid or stranded   | 2x (0,5 1,5 mm²), 2x (0,75 2,5 mm²), 2x 4 mm²                         |
| <ul> <li>— finely stranded with core end processing</li> </ul>                                      | 2x (0,5 1,5 mm <sup>2</sup> ), 2x (0,75 2,5 mm <sup>2</sup> )         |
| at AWG cables for auxiliary contacts  | 2x (20 16), 2x (18 14), 2x 12   |
| Safety related data   |   |
|   | 1.000.000: W/#b 0.2 x lo  |
| B10 value with high demand rate acc. to SN 31920  | 1 000 000; With 0.3 x le  |
| <ul> <li>proportion of dangerous failures</li> <li>with low demand rate acc. to SN 31920</li> </ul> | 40 %  |
|   | 40 %<br>73 %  |
| with high demand rate acc. to SN 31920     failure rate [EIT] with low demand rate acc. to SN 21020 |   |
| failure rate [FIT] with low demand rate acc. to SN 31920  | 100 FIT   |
| product function positively driven operation acc. to IEC 60947-5-1                                  | Yes   |
| T1 value for proof test interval or service life acc. to<br>IEC 61508                               | 20 y  |
| protection class IP on the front acc. to IEC 60529  | IP20  |
| touch protection on the front acc. to IEC 60529   | finger-safe, for vertical contact from the front                      |
| Certificates/ approvals   |   |
|   |   |

| General Product App  | proval                 |   |   |                     | EMC                 |  |  |  |
|--|------------------------|---|---|---------------------|---------------------|--|--|--|
| SP.  |                        | (U)<br>u  | KC  | EHC                 |                     |  |  |  |
| Declaration of Confo   | ormity                 | Test Certificates   |   | Marine / Shipping   |                     |  |  |  |
| <u>Miscellaneous</u>   | CE<br>EG-Konf.         | <u>Type Test</u><br><u>Certificates/Test</u><br><u>Report</u>                                       | <u>Special Test</u><br><u>Certificate</u> | ABS                 | BUREAU<br>VERITAS   |  |  |  |
| Marine / Shipping  |                        |   |   |                     | other               |  |  |  |
| Lloyd's<br>Register<br>urs   | PRS                    | RINA  | RMRS                                      | EMISLEDIAD          | <u>Confirmation</u> |  |  |  |
| other  |                        |   |   |                     |                     |  |  |  |
| VDE  |                        |   |   |                     |                     |  |  |  |
| Further information  | un la adacentar (Catal |   |   |                     |                     |  |  |  |
| 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=3RH2131-1BA40<br>Cax online generator<br>http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2131-1BA40 |                        |   |   |                     |                     |  |  |  |
| https://support.industry   | .siemens.com/cs/ww     | Characteristics, FAQs,<br>v/en/ps/3RH2131-1BA40<br>nension drawings, 3D me                          |   | diagrame EDI AN     | cros )              |  |  |  |
| http://www.automation  | .siemens.com/bilddb    | /cax_de.aspx?mlfb=3RH2  | 131-1BA40⟨=en                             | ulayianis, EPLAN Ma | GIUS,J              |  |  |  |
| https://support.industry   | .siemens.com/cs/ww     | I <sup>2</sup> t, Let-through current<br><u>v/en/ps/3RH2131-1BA40/c</u><br>ndurance, switching freq |   |                     |                     |  |  |  |

Further characteristics (e.g. electrical endurance, switching frequency) http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2131-1BA40&objecttype=14&gridview=view1







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