## **SIEMENS**

Data sheet 3RH2122-2GG20



Contactor relay, 2 NO + 2 NC, 110 V AC, 50 / 60 Hz, with full-wave rectifier, Size S00, Spring-type terminal

| product brand name  | SIRIUS                     |
|---|----------------------------|
| product designation   | Auxiliary contactor        |
| product type designation  | 3RH2                       |
| General technical data  |                            |
| 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   |                            |
| • at AC   | 7,3g / 5 ms, 4,7g / 10 ms  |
| shock resistance with sine pulse  |                            |
| • at AC   | 11,4g / 5 ms, 7,3g / 10 ms |
| mechanical service life (operating cycles)  |                            |
| <ul> <li>of contactor typical</li> </ul>  | 30 000 000                 |
| <ul> <li>of the contactor with added electronically optimized<br/>auxiliary switch block typical</li> </ul> | 5 000 000                  |
| <ul> <li>of the contactor with added auxiliary switch block<br/>typical</li> </ul>                          | 10 000 000                 |
| reference code according to IEC 81346-2   | K                          |
| Substance Prohibitance (Date)   | 10/01/2009                 |
| Ambient conditions  |                            |
| installation altitude at height above sea level maximum   | 2 000 m                    |
| ambient temperature   |                            |
| <ul> <li>during operation</li> </ul>  | -25 +60 °C                 |
| <ul> <li>during storage</li> </ul>  | -55 +80 °C                 |
| relative humidity minimum   | 10 %                       |
| relative humidity at 55 °C according to IEC 60068-2-30 maximum  | 95 %                       |
| Main circuit  |                            |
| no-load switching frequency   |                            |
| • at AC   | 10 000 1/h                 |
| • at DC   | 10 000 1/h                 |
| Control circuit/ Control  |                            |
| type of voltage of the control supply voltage   | AC                         |
| control supply voltage at AC  |                            |
| at 50 Hz rated value  | 110 V                      |
| <ul> <li>at 60 Hz rated value</li> </ul>  | 110 V                      |
| control supply voltage frequency  |                            |
| • 1 rated value   | 50 Hz                      |
| • 2 rated value   | 60 Hz                      |

| Section   Sect  |   |           |
|---|---|-----------|
| * at 60 Hz * at 60 Hz design of the surge suppressor apparent pick-up power of magnet coll at AC inductive power factor with closing power of the coll apparent holiding power of magnet coll at AC inductive power factor with the holding power of the coll coll apparent holding power of magnet coll at AC inductive power factor with the holding power of the coll colling delay * at AC apparing delay * at AC arcing time * at AC                                       | operating range factor control supply voltage rated   |           |
| • at 80 Hz   40 mg   10 mg  | _   | 0.8 1.1   |
| design of the surge suppressor apparent pile, tup power of megnet coil at AC inductive power factor with closing power of the coil apparent holding power of megnet coil at AC inductive power factor with the holding power of the coil closing delay at AC 35.71 VA 38 65 ms 38 65   |   |           |
| apparent pick-up power of magnet coil at AC   |   |           |
| inductive power factor with closing power of the coil apparent holding power of maper coil at AC 5.71 VA inductive power factor with the holding power of the coil closing delay  |   |           |
| apparent holding power of magnet coll at AC   0.9   |   |           |
| Inductive power factor with the holding power of the coil   |   |           |
| coil closing delay  |   |           |
| • at AC 90 ms opening delay  • at AC 38 65 ms  recring time 10 15 ms 10  |   |           |
| e al AC   38 65 ms   10 15 ms   Auxiliary circuit   10 15 ms   Auxiliary circuit   2   10 15 ms   Auxiliary circuit   2   10 15 ms   Auxiliary circuit   2   10 15 ms   2   10   | closing delay   |           |
| acring time  Auxiliary circuit  number of NC contacts for auxiliary contacts  instantaneous contact  instantaneous                                      | • at AC   | 30 100 ms |
| Auxiliary circuit   |   |           |
| Auxiliary circuit   |   |           |
| number of NC contacts for auxiliary contacts   2  |   | 10 15 ms  |
| inistantaneous contact   2  | Auxiliary circuit                                     |           |
| number of NO contacts for auxiliary contacts   2  | number of NC contacts for auxiliary contacts          |           |
| instantaneous contact   |   |           |
| Identification number and letter for switching elaments   10 A  |   |           |
| Selements   |   |           |
| operational current at AC-12 maximum operational current at AC-15  • at 230 V rated value • at 400 V rated value • at 400 V rated value • at 650 V rated value • at 110 V rated value • at 600 V rated value • at 110 V rated value • at 110 V rated value • at 600 V rated value •                                      |   | 22 E      |
| e at 230 V rated value  |   | 10 A      |
| ** at 230 V rated value   | •   |           |
| * at 400 V rated value  | •   | 10 A      |
| • at 500 V rated value • at 690 V rated value 1 A operational current at 1 current path at DC-12 • at 24 V rated value • at 220 V rated value • at 440 V rated value • at 600 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 360 V rated value • at 600 V rated value • at 100 V rated value • at 200 V rated value • at 440 V rated value • at 200 V rated value • at 600 V rated value • at 200 V rated value • at 400 V rated v                                      |   |           |
| e at 24 V rated value   |   |           |
|   | at 690 V rated value                                  | 1 A       |
|   | operational current at 1 current path at DC-12        |           |
| <ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operational current with 2 current paths in series at DC-12</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 24 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 110 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 100 V rated value</li> <li>at 100 V rated value</li> <li>at 100 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 24 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 60 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li></ul>                                   | <ul> <li>at 24 V rated value</li> </ul>               | 10 A      |
|   | <ul> <li>at 110 V rated value</li> </ul>              | 3 A       |
| • at 600 V rated value operational current with 2 current paths in series at DC-12 • at 24 V rated value • at 60 V rated value • at 220 V rated value • at 440 V rated value • at 600 V rated value • at 440 V rated value • at 600 V rated value • at 220 V rated value • at 240 V rated value • at 240 V rated value • at 220 V rated value • at 240 V rated value   | <ul> <li>at 220 V rated value</li> </ul>              | 1 A       |
| operational current with 2 current paths in series at DC-12  • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 440 V rated value • at 600 V rated value • operational current with 3 current paths in series at DC-12 • at 24 V rated value • at 60 V rated value • at 60 V rated value • at 10 A • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 440 V rated value • at 440 V rated value • at 600 V rated value • at 110 V rated value • at 220 V rated value • at 440 V rated value • at 440 V rated value • at 240 V rated value • at 250 V rated value   | <ul> <li>at 440 V rated value</li> </ul>              | 0.3 A     |
| DC-12  • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 24 V rated value • at 60 V rated value • at 60 V rated value • at 60 V rated value • at 110 V rated value • at 110 V rated value • at 220 V rated value • at 220 V rated value • at 600 V rated value • at 220 V rated value • at 440 V rated value • at 440 V rated value • at 440 V rated value • at 450 V rated value • at 460 V rated value • at 400 V rated value • at 600 V rated value • at 220 V rated value • at 400 V rated value   |   | 0.15 A    |
| <ul> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 3 A</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>operational current with 3 current paths in series at DC-12</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 60 V rated value</li> <li>at 600 V rated value</li> <li>at 700 V rated value</li> <li>at 700</li></ul>                             |   |           |
| <ul> <li>at 60 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> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 60 V rated value</li> <li>at 10 A</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 600 V rated value</li></ul>                                  |   | 10 A      |
| <ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>operational current with 3 current paths in series at DC-12</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 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 440 V rated value</li> <li>at 60 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 70 M</li> <li>at 24 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value<th></th><th></th></li></ul>              |   |           |
| <ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>one at 600 V rated value</li> <li>operational current with 3 current paths in series at DC-12</li> <li>at 24 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 700 V rated value&lt;</li></ul>                         |   |           |
| <ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>0.65 A</li> </ul> Operational current with 3 current paths in series at DC-12 <ul> <li>at 24 V rated value</li> <li>at 10 A</li> <li>at 110 V rated value</li> <li>at 20 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 220 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 24 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 70 A</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 70 A</li> <li>at 71 A</li> &lt;</ul>                                     |   |           |
| • at 600 V rated value  operational current with 3 current paths in series at DC-12  • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 440 V rated value • at 600 V rated value • at 25 A • at 600 V rated value • at 200 V rated value • at 200 V rated value • at 25 A • at 600 V rated value • at 25 A • at 600 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value • at 20 V rated value • at 600 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 20 V rated value • at 220 V rated value • at 24 V rated value • at 24 V rated value • at 25 V rated value • at 26 V rated value • at 27 V rated value • at 28 V rated value • at 29 V rated value • at 20 V rated value   |   |           |
| operational current with 3 current paths in series at DC-12  • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 440 V rated value • at 600 V rated value • at 600 V rated value • at 220 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 20 V rated value • at 24 V rated value • at 25 V rated value • at 20 V rated value • at 20 V rated value • at 20 V rated value • at 40 V rated value • at 600 V rated value • at 600 V rated value • at 600 V rated value • at 20 V rated value • at 3.5 A • at 110 V rated value • at 20 V rated value • at 440 V rated value   |   |           |
| DC-12   |   |           |
| <ul> <li>at 60 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> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 220 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> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 20 V rated value</li> <li>at 20 V rated value</li> <li>at 21 V rated value</li> <li>at 22 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 24 V rated value</li> <li>at 25 V rated value</li> <li>at 25 V rated value</li> <li>at 25 V rated value</li> <li>at 26 V rated value</li> <li>at 27 V rated value</li> <li>at 27 V rated value</li> <li>at 27 V rated value<!--</th--><th></th><th></th></li></ul> |   |           |
| <ul> <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> <li>at 600 V rated value</li> <li>at 22 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 110 V rated value</li> <li>at 110 V rated value</li> <li>at 220 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> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 24 V rated value</li> <li>at 25 A</li> <li>at 110 V rated value</li> <li>at 13 A</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul>  | <ul> <li>at 24 V rated value</li> </ul>               |           |
| <ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>1.8 A</li> <li>operating frequency at DC-12 maximum</li> <li>operational current at 1 current path at DC-13</li> <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> <li>operational current with 2 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 240 V rated value</li> <li>at 240 V rated value</li> <li>at 250 V rated value</li> <li>at 240 V rated value</li> <li>at 250 V rated value</li></ul>                                 |   |           |
| <ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>1.8 A</li> <li>operating frequency at DC-12 maximum</li> <li>operational current at 1 current path at DC-13</li> <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> <li>at 600 V rated value</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 20 V rated value</li> <li>at 24 V rated value</li> <li>at 20 V rated value</li> <li>at 3.5 A</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 240 V rated value</li> <li>at 240 V rated value</li> <li>at 240 V rated value</li> <li>at 250 V rated value</li> <li>at 240 V rated value</li> <li>at 250 V rated value</li> <li>at 250 V rated value<!--</th--><th></th><th></th></li></ul> |   |           |
| <ul> <li>at 600 V rated value</li> <li>operating frequency at DC-12 maximum</li> <li>operational current at 1 current path at DC-13</li> <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> <li>at 600 V rated value</li> <li>at 600 V rated value</li> <li>at 60 V rated value</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 10 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 240 V rated value</li> </ul>   |   |           |
| operating frequency at DC-12 maximum operational current at 1 current path at DC-13  • at 24 V rated value • at 110 V rated value • at 220 V rated value • at 440 V rated value • at 600 V rated value • at 24 V rated value  operational current with 2 current paths in series at DC-13  • at 24 V rated value • at 60 V rated value • at 20 V rated value • at 20 V rated value • at 440 V rated value   |   |           |
| operational current at 1 current path at DC-13  • at 24 V rated value • at 110 V rated value • at 220 V rated value • at 440 V rated value • at 600 V rated value  • at 24 V rated value • at 60 V rated value • at 60 V rated value • at 24 V rated value • at 60 V rated value • at 24 V rated value • at 20 V rated value • at 440 V rated value  |   |           |
| <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> <li>operational current with 2 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul>   |   | 1 000 1/h |
| <ul> <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> <li>operational current with 2 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul>  |   | 10 A      |
| <ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operational current with 2 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 10 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 240 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>0.2 A</li> </ul>   |   |           |
| <ul> <li>at 440 V rated value</li> <li>at 600 V rated value</li> <li>operational current with 2 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> </ul>   |   |           |
| <ul> <li>at 600 V rated value</li> <li>operational current with 2 current paths in series at DC-13</li> <li>at 24 V rated value</li> <li>at 60 V rated value</li> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>at 440 V rated value</li> <li>0.2 A</li> </ul>  |   |           |
| operational current with 2 current paths in series at DC-13  • at 24 V rated value • at 60 V rated value • at 110 V rated value • at 220 V rated value • at 440 V rated value  • at 440 V rated value  • at 440 V rated value  • at 220 A   |   |           |
| <ul> <li>at 60 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>0.2 A</li> </ul>  | operational current with 2 current paths in series at |           |
| <ul> <li>at 110 V rated value</li> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>0.2 A</li> </ul>   |   | 10 A      |
| <ul> <li>at 220 V rated value</li> <li>at 440 V rated value</li> <li>0.9 A</li> <li>0.2 A</li> </ul>  | • at 60 V rated value                                 | 3.5 A     |
| • at 440 V rated value 0.2 A  | <ul> <li>at 110 V rated value</li> </ul>              | 1.3 A     |
|   | • at 220 V rated value                                | 0.9 A     |
| • at 600 V rated value 0.1 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   |
| at 220 V rated value  | 1.2 A   |
| <ul> <li>at 440 V rated value</li> </ul>  | 0.5 A   |
| <ul> <li>at 600 V rated value</li> </ul>  | 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 auxiliary switch required | fuse gL/gG: 10 A  |
| Installation/ mounting/ dimensions  |   |
| mounting position   | +/-180° rotation possible on vertical mounting surface; can be tilted |
|   | forward and backward by +/- 22.5° on vertical mounting surface        |
| fastening method  | screw and snap-on mounting onto 35 mm DIN rail                        |
| height  | 70 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  |
| for grounded parts  |   |
| — forwards  | 10 mm   |
| — upwards   | 10 mm   |
| — at the side   | 6 mm  |
| — downwards   | 10 mm   |
| • for live parts  | 40  |
| — 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                       | spring-loaded terminals   |
| type of connectable conductor cross-sections  |   |
| for auxiliary contacts  | 0 (0.5 4 3)   |
| — solid or stranded   | 2x (0,5 4 mm²)  |
| — finely stranded with core end processing  | 2x (0.5 2.5 mm²)  |
| — finely stranded without core end processing   | 2x (0.5 2.5 mm²)  |
| at AWG cables for auxiliary contacts  | 2x (20 12)  |
| Safety related data   |   |
| product function positively driven operation according to IEC 60947-5-1               | Yes   |
| B10 value with high demand rate according to SN 31920                                 | 1 000 000; With 0.3 x le  |
| proportion of dangerous failures  |   |
| with low demand rate according to SN 31920  | 40 %  |
| with high demand rate according to SN 31920   | 73 %  |
| failure rate [FIT] with low demand rate according to SN 31920                         | 100 FIT   |
| T1 value for proof test interval or service life according to IEC 61508               | 20 a  |
| protection class IP on the front according to IEC 60529                               | IP20  |
| touch protection on the front according to IEC 60529                                  | finger-safe, for vertical contact from the front                      |
| Certificates/ approvals   |   |





Confirmation



<u>KC</u>



Functional
Safety/Safety of
Machinery

**Declaration of Conformity** 

**Test Certificates** 



Type Examination Certificate





Type Test Certificates/Test Report

Special Test Certificate

## Marine / Shipping













Marine / Shipping

other

Railway

**Dangerous Good** 



Confirmation



Vibration and Shock

<u>Transport Information</u>

## Further information

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RH2122-2GG20

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RH2122-2GG20

 ${\bf Service \& Support~(Manuals,~Certificates,~Characteristics,~FAQs,...)}$ 

 $\underline{https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2GG20}$ 

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

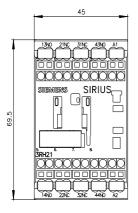
http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RH2122-2GG20&lang=en

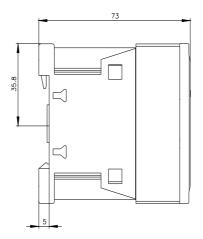
Characteristic: Tripping characteristics, I²t, Let-through current

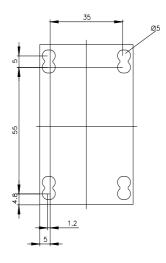
https://support.industry.siemens.com/cs/ww/en/ps/3RH2122-2GG20/char

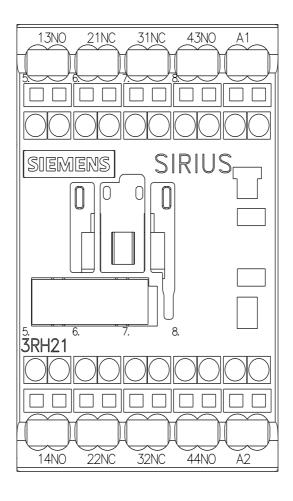
Further characteristics (e.g. electrical endurance, switching frequency)

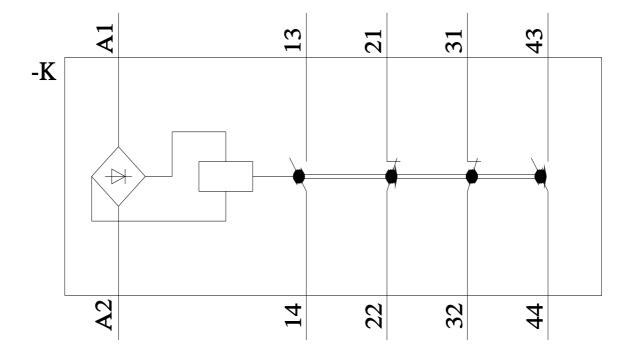
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RH2122-2GG20&objecttype=14&gridview=view1











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