## SIEMENS

## Data sheet

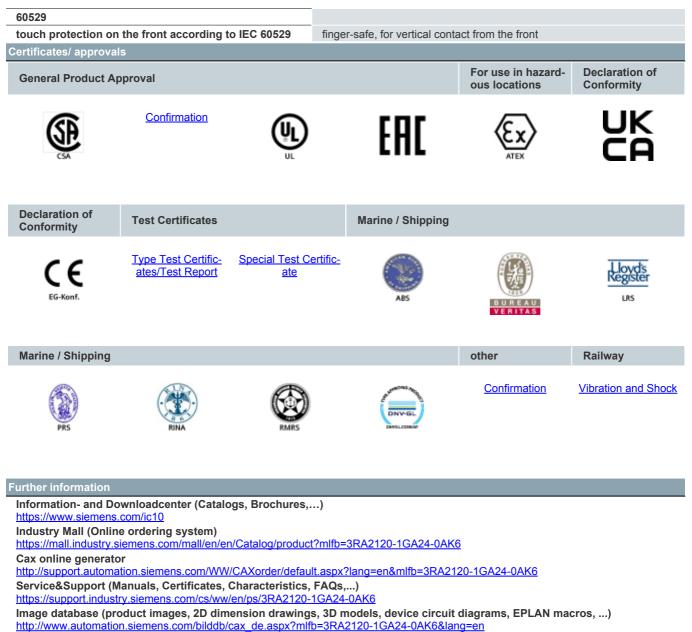
## 3RA2120-1GA24-0AK6



FUSELESS LOAD FEEDER DIRECT START, AC 400V, SZ. S0, 4.5...6.3A, AC 110/120V 50/60HZ SCREW TERMINAL FOR RAIL MOUNTING, TYPE OF ASSIGNMENT 2,IQ = 150KA (ALSO FULFILLS TYPE OF ASSIGNMENT 1) 1NO+1NC (CONTACTOR)

| product brand name   | SIRIUS                      |
|--|-----------------------------|
| product designation  | non-fused load feeders 3RA2 |
| design of the product  | direct starter              |
| manufacturer's article number  |                             |
| <ul> <li>of the supplied contactor</li> </ul>  | <u>3RT2024-1AK60</u>        |
| <ul> <li>of the supplied circuit-breakers</li> </ul>                                   | <u>3RV2021-1GA10</u>        |
| <ul> <li>of the supplied link module</li> </ul>  | <u>3RA2921-1AA00</u>        |
| General technical data   |                             |
| size of the circuit-breaker  | SO                          |
| size of load feeder  | SO                          |
| 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 according to IEC 60068-2-27   | 6g / 11 ms                  |
| mechanical service life (switching cycles) of contactor typical                        | 10 000 000                  |
| type of assignment   | 2                           |
| Substance Prohibitance (Date)  | 10/01/2009                  |
| Ambient conditions   |                             |
| ambient temperature  |                             |
| <ul> <li>during operation</li> </ul>   | -20 +60 °C                  |
| <ul> <li>during storage</li> </ul>   | -50 +80 °C                  |
| <ul> <li>during transport</li> </ul>   | -50 +80 °C                  |
| Main circuit   |                             |
| number of poles for main current circuit   | 3                           |
| design of the switching contact  | electromechanical           |
| adjustable current response value current of the<br>current-dependent overload release | 4.5 6.3 A                   |
| operating voltage  |                             |
| rated value  | 690 V                       |
| <ul> <li>at AC-3 rated value maximum</li> </ul>  | 690 V                       |
| operating frequency rated value  | 50 60 Hz                    |
| operational current at AC-3 at 400 V rated value                                       | 5 A                         |
| operating power at AC-3  |                             |
| • at 400 V rated value   | 2 200 W                     |
| • at 500 V rated value   | 3 000 W                     |
| • at 690 V rated value   | 4 000 W                     |
| Control circuit/ Control   |                             |

| control supply voltage at AC         110 V           • at 60 Hz rated value         120 V           paparent holding power of magnet coll at AC         8.5 VA           Protective and monitoring functions         110 V           design of the overload release         thermal (binestalle).           response voltage current (FLA) for 3-phase AC motor         • at 400 V rated value           • at 400 V rated value         4.8 A           • at 400 V rated value         0.5 Np           • or a raige phase AC motor         • at 101'20 V rated value           • at 400 V rated value         0.5 Np           • or a raige phase AC motor         • at 400 V rated value           • at 300 V rated value         0.5 Np           • or a raige phase AC motor         • at 4040 V rated value           • at 300 V rated value         0.5 Np           • or a raige phase AC motor         • at 4040 V rated value           • at 4040 V rated value         10 Np           • at 202/230 V rated value         10 Np           • at 4040 V rated value         10 Np           • at 600 V racevalue         10 Nm           • at 600 V racevalue         10 Nm           • at 600 V racevalue         10 000 A           • at 600 V racevalue         10 000 A           • at 60   | a sufficient successful to the test of tes |   |
|---|--|---|
| • at 00 Hz rated value         120 V           apparent holding power of magnet coll at AC         85 VA           Protective and monitoring functions         CLASS 10           trip class         CLASS 10           design of the overload release         thermal (bimetallic)           response value current of instantaneous sholt-circuit trip         81.9 A           ULCSA runnes         ULCSA runnes           ULCSA runnes         4.8 A           • at 600 V rated value         6.3 A           • at 600 V rated value         0.5 hp           • or at physic phase AC motor         0.5 hp           • or at physic phase AC motor         0.5 hp           • or at 200200 V rated value         0.5 hp           • or at 200200 V rated value         1 hp           • at 200400 V rated value         1 hp           • at 2004200 V rated value         1 hp           • at 20042  | control supply voltage at AC   | 440.14  |
| apparent hoticing power of magnet coil at AC         8.5 VA           Productions and monitoring functions         CLASS 10           thermal (binnetallic)         thermal (binnetallic)           response values current of instantaneous short-circuit trip<br>unit         8.19 A           values current of instantaneous short-circuit trip<br>unit         4.8 A           • at 400 V rated value         6.3 A           vielded mechanical performance (hp)         0.25 hp           • of single-phase AC motor         0.25 hp           - at 110/120 V rated value         0.5 hp           • of single-phase AC motor         1.5 hp           - at 220239 V rated value         1.5 hp           - at 220239 V rated value         1.5 hp           - at 40400 V rated value         3.6 hp           • of 574000 V rated value         5 hp           Product function short circuit protection         Yes           reduiting notifies protection         Yes           magnetic         100 000 A           • at 600 V according to IEC 6047-4-1 rated value         100 000 A           • at 600 V according to IEC 6047-4-1 rated value         100 000 A           • at 800 V according to IEC 6047-4-1 rated value         100 000 A           • at 800 V according to IEC 6047-4-1 rated value         100 mm           <  |  |   |
| Probability and monitoring functions           trip class         CLASS 10           design of the overload release         Uternal (timetallic)           instructions         81.9 A           ULCSA ratings         63.0           ULCSA ratings         63.0           Vielded mechanical performance [hp]         63.0           • of solid release value         0.5 hp           Short-Circuit protection         Yes           product function short circuit protection         Yes           redesign of the short-circuit protection         Yes           installation mounting contol 35 mm standard mounting rel         50.00 A           installing of mennions  |  |   |
| Trip class     CLASS 10       design of the overload rolease     themai (lometalic)       design of the overload rolease     themai (lometalic)       ULCCSA ratings     B1.8 A       ULCCSA ratings     4.8 A       i at 40 V rated value     6.3 A       of single-phase AC motor     6.3 A   |  | 8.5 VA  |
| design of the overload rolease         enemal (binetallic)           response value current of instantaneous short-circuit trip<br>unit         enemal (binetallic)           UCSA ratings         Full-load current (FLA) for 3-phase AC motor<br>• at 480 V rated value         4.8 A<br>• at 600 V rated value           • of a single-phase AC motor<br>• at 110/120 V rated value         6.3 A           • of a single-phase AC motor<br>• at 110/120 V rated value         0.5 hp           • of a single-phase AC motor<br>• at 200/28 V rated value         1.5 hp           - at 200/28 V rated value         1.5 hp           - at 4040480 V rated value         5 hp           Short-circuit protection         Ves           design of the short-circuit trip         magnetic           conditional short circuit urrent (tq)         tates overload value           • at 400 V according to EC 6047-4.1 rated value         4 000 A           • at 400 v according to EC 6047-4.1 rated value         153 000 A           • at 800 v according to EC 6047-4.1 rated value         100 000 A           Instation/ mounting dimensions         vertical           mounting position         seriew and snap-on mounting onto 35 mm standard mounting rail           height         100 mm           • for wards         0 mm           • for grounded parts         0 mm           • for wards   |  | 01.400.40   |
| response value current of instantaneous short-circuit trip<br>init         81.9 A <b>1UI-C3A current (FLA) for 3-phase AC motor</b> 4.8 A           • et 4500 V rated value         6.3 A           • juiled mechanical performance [tp]         6.3 A           • of rais night-phase AC motor         0.2 S hp  | · · ·  |   |
| unit         UCSA ratings           full-load current (FLA) for 3-phase AC motor         4.8 A           • at 800 V rated value         6.3 A           yielded mechanical performance [tip]         • for single-phase AC motor           - at 200 V rated value         0.25 hp           - at 200 V rated value         0.5 hp           - at 200230 V rated value         0.5 hp           - at 200230 V rated value         1.5 hp           - at 200230 V rated value         3 hp           - at 355600 V rated value         5 hp           Short-circuit protection         Yes           design of the short-circuit trip         magnetic           conditional short-circuit current (la)         13 000 A           - at 400 V according to IEC 60947-4-1 rated value         4 000 A           - at 400 v according to IEC 60947-4-1 rated value         13 000 A           - at 400 v according to IEC 60947-4-1 rated value         13 000 A           - at 400 v according to IEC 60947-4-1 rated value         13 000 A           - at 400 v according to IEC 60947-4-1 rated value         13 000 A           - at 400 v according to IEC 60947-4-1 rated value         13 000 A           - at 400 v according to IEC 60947-4-1 rated value         5 mm           feasening method         screw and snap-on mounting onto 35 mm standard mou  |  |   |
| UCSA ratings           full-add current (FLA) for 3-phase AC motor           • at 800 V rated value         6.3 A           • at 800 V rated value         6.3 A           • for single-phase AC motor         0.25 hp           • - at 102/0200 V rated value         0.5 hp           • for 3-phase AC motor         1 hp           at 200/200 V rated value         0.5 hp           • for 3-phase AC motor         1 hp           at 200/200 V rated value         1 hp           at 200/200 V rated value         1 hp           at 375/600 V rated value         5 hp           Product function short-circuit protection         Yes           design of the short-circuit arrent (lq)         4000 A           • at 600 V according to IEC 60947-4-1 rated value         100 000 A           Installation/ mounting/ dimension         vertical           mounting position         vertical           festening method         103 nm           width         45 mm           - oxnowards         10 mm           - ackwards         0 mm           - ackwards         0 mm           - backwards         0 mm           - backwards         0 mm           - backwards         0 mm   |  | 81.9 A  |
| full-load current (FLA) for 3-phase AC motor       4.8 A         • at 800 V rated value       6.3 A         yielded mechanical performance (hp)       6.5 A         • for single-phase AC motor       0.25 hp         - at 100/120 V rated value       0.5 hp         • for 3-phase AC motor       1 hp         - at 200208 V rated value       0.5 hp         - at 200208 V rated value       1.5 hp         - at 400480 V rated value       3 hp         - at 400490 V rated value       5 hp         Short-circuit protection       Yes         design of the short-circuit protection       Yes         design of the short-circuit protection       Yes         tat800 V according to IEC 60947-4-1 rated value       4000 A         • at 800 V according to IEC 60947-4-1 rated value       100 000 A         tatalator/mounting/ dimensions       vertical         mounting position       vertical         fastalatoriang method       100 000 A         height       45 mm         depth       97.1 mm         required spacing       • for grounded parts         - forwards       10 mm         - at the side       9 mm         - ackwards       0 mm         - at the side       9 mm </td <td></td> <td></td>   |  |   |
| • at 480 V rated value       4.8 A         • at 600 V rated value       6.3 A         • for single-phase AC motor       0.5 hp         • at 230 V rated value       0.5 hp         • at 230 V rated value       0.5 hp         • at 200208 V rated value       1 hp         • at 200208 V rated value       1 hp         • at 200208 V rated value       1 hp         • at 200208 V rated value       3 hp         • at 357560 V rated value       5 hp <b>bort-circuit protection</b> Yes         magnetic       conditional short-ficruit urgent (a)         • at 600 V according to EC 60947-4-1 rated value       4 000 A         • at 600 V according to EC 60947-4-1 rated value       1 300 0 A         • at 600 V according to EC 60947-4-1 rated value       1 300 0 A         • at 600 V according to EC 60947-4-1 rated value       1 300 0 A         • at 600 V according to EC 60947-4-1 rated value       1 300 0 A         • at 600 V according to EC 60947-4-1 rated value       1 300 0 A         • at 600 V according to EC 60947-4-1 rated value       1 300 0 A         • at 600 V according to EC 60947-4-1 rated value       5 mm         • for grounded parts       0 mm         - for wards       0 mm         - dowards       0 mm   |  |   |
| • at 600 V rated value         6.3 A           yielded mechanical performance (hg)         •           • for single-phase AC motor         0.25 hp           • at 200 V rated value         0.5 hp           • for 3-phase AC motor         1 hp           • at 220/230 V rated value         1 hp           • at 220/230 V rated value         3 hp           • at 220/230 V rated value         3 hp           • at 60/480 V rated value         3 hp           • at 60/480 V rated value         3 hp           • at 60/480 V rated value         5 hp           Short-circuit protection         magnetic           conditional short-circuit current (hg)         4000 A           • at 600 V according to IEC 60047-4-1 rated value         153 000 A           • at 600 V according to IEC 60047-4-1 rated value         100 000 A           i at 600 V according to IEC 60047-4-1 rated value         100 000 A           i at 600 V according to IEC 60047-4-1 rated value         100 000 A           i at 600 V according to IEC 60047-4-1 rated value         100 000 A           i at 600 V according to IEC 60047-4-1 rated value         100 000 A           i at 600 V according to IEC 60047-4-1 rated value         100 000 A           i at 600 V according to IEC 60047-4-1 rated value         100 000 A   |  | 4.8 A   |
| <ul> <li>for single-phase AC motor         <ul> <li>- at 110/120 V rated value</li> <li>0.5 hp</li> <li>for 3-phase AC motor</li> <li>- at 220 V rated value</li> <li>0.5 hp</li> </ul> </li> <li>for 3-phase AC motor</li> <li>- at 220/280 V rated value</li> <li>1 hp</li> <ul> <li>- at 220/280 V rated value</li> <li>- at 460/480 V rated value</li> <li>- at 460/480 V rated value</li> <li>- at 450/480 V rated value</li> <li>- at 400 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- forwards</li> <li>- 0 more conditioner conditioner</li></ul></ul>  | <ul> <li>at 600 V rated value</li> </ul>   | 6.3 A   |
| <ul> <li>for single-phase AC motor         <ul> <li>- at 110/120 V rated value</li> <li>0.5 hp</li> <li>for 3-phase AC motor</li> <li>- at 220 V rated value</li> <li>0.5 hp</li> </ul> </li> <li>for 3-phase AC motor</li> <li>- at 220/280 V rated value</li> <li>1 hp</li> <ul> <li>- at 220/280 V rated value</li> <li>- at 460/480 V rated value</li> <li>- at 460/480 V rated value</li> <li>- at 450/480 V rated value</li> <li>- at 400 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- at 600 V according to EC 60947-4-1 rated value</li> <li>- forwards</li> <li>- 0 more conditioner conditioner</li></ul></ul>  | vielded mechanical performance [hp]  |   |
|   |  |   |
| <ul> <li>for 3-phase AC motor</li> <li>at 200/200 V rated value</li> <li>the</li> <li>at 200/200 V rated value</li> <li>the</li> <li>the</li> <li>at 400/480 V rated value</li> <li>the</li> <li>the</li> <li>the 400/480 V rated value</li> <li>the</li> <li>the 400/480 V rated value</li> <li>the</li> <li>the 400/480 V rated value</li> <li>the</li> <li>the short-circuit trip</li> <li>magnetic</li> <li>conditional short-circuit current (iq)</li> <li>the short-circuit current (iq)</li> <li>the 600 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value</li> <li>the 300 V according to IEC 60947-4-1 rated value<td></td><td>0.25 hp</td></li></ul> |  | 0.25 hp   |
| • for 3-phase AC motor         - at 200/208 V rated value         1 hp           - at 220/230 V rated value         3 hp         - at 450/480 V rated value         3 hp           - at 450/480 V rated value         3 hp         - at 575/600 V rated value         5 hp           Short-circuit protection           Yes           design of the short-circuit trip         magnetic           conditional short-circuit current (q)         4 000 A         4 000 A           • at 600 V according to IEC 60947-4-1 rated value         100 000 A         153 000 A           • at 500 V according to IEC 60947-4-1 rated value         100 000 A         153 000 A           • at 500 V according to IEC 60947-4-1 rated value         100 000 A         153 000 A           Installation' mounting relife 60947-4-1 rated value         100 000 A         153 000 A           Installation' mounting relife 60947-4-1 rated value         100 000 A         153 000 A           Installation' mounting relife 60947-4-1 rated value         100 000 A         153 000 A           Installation' mounting relife 60947-4-1 rated value         100 000 A         153 000 A           Installation' mounting relife 60947-4-1 rated value         97.1 mm         197.1 mm           required spacing         org rounded parts         0 mm         0 mm   | — at 230 V rated value   |   |
|   | <ul> <li>for 3-phase AC motor</li> </ul>   |   |
|   | — at 200/208 V rated value   | 1 hp  |
|   | — at 220/230 V rated value   |   |
|   | — at 460/480 V rated value   |   |
| product function short circuit protection         Yes           design of the short-circuit trip         magnetic           conditional short-circuit current (lq)         at 690 V according to IEC 60947-4-1 rated value         4 000 A           at 400 V according to IEC 60947-4-1 rated value         153 000 A         100 000 A           Installation/ mounting/ dimensions         vertical         screw and snap-on mounting onto 35 mm standard mounting rail           height         193.1 mm         45 mm         45 mm           width         45 mm         45 mm         45 mm           depth         97.1 mm         193.1 mm         193.1 mm           width         45 mm         40 mm         45 mm           - forwards         10 mm         0 mm         30 mm           - at the side         9 mm         10 mm         0 mm         30 mm           - downwards         10 mm         0 mm         30 mm         9 mm         10 mm   | — at 575/600 V rated value   |   |
| design of the short-circuit trip         magnetic           conditional short-circuit current (lq)         4 000 V according to IEC 60947-4-1 rated value         4 000 A           • at 600 V according to IEC 60947-4-1 rated value         153 000 A         100 000 A           installation/mounting/ dimensions         100 000 A         153 000 A           mounting position         vertical         screw and snap-on mounting onto 35 mm standard mounting rail           height         193.1 mm         193.1 mm           width         45 mm         400 mm           depth         97.1 mm         7.1 mm           required spacing         • for grounded parts         0 mm           - forwards         0 mm         30 mm           - at the side         9 mm         10 mm           - forwards         10 mm         0 mm           - downwards         10 mm         - forwards           - downwards         10 mm         9 mm           - downwards         10 mm         0 mm           - at the side         9 mm         20 mm           - downwards         10 mm         10 mm           - downwards         9 mm         20 mm           - at the side         9 mm         20 mm           - at the side  | Short-circuit protection   |   |
| design of the short-circuit trip         magnetic           conditional short-circuit current (Iq)         4 000 V according to IEC 60947-4-1 rated value         4 000 A           • at 600 V according to IEC 60947-4-1 rated value         153 000 A         100 000 A           installation/mounting/climensions         100 000 A         153 000 A           mounting position         vertical         screw and snap-on mounting onto 35 mm standard mounting rail           height         93.1 mm         97.1 mm           required spacing         • for grounded parts         0 mm           - forwards         0 mm         30 mm           - at the side         9 mm         - downwards           - downwards         10 mm         0 mm           - downwards         10 mm         - backwards           - at the side         9 mm         - downwards           - upwards         30 mm         - at the side           - upwards         30 mm         - at the side           - solad wards         0 mm         - at the side           - upwards         30 mm         - at the side           - upwards         10 mm         - to mare contacts stranded           - upwards         10 mm         - to mare contacts stranded           - upwards   |  | Yes   |
| conditional short-circuit current (lq)       4 000 A         • at 690 V according to IEC 60947-4-1 rated value       153 000 A         • at 500 V according to IEC 60947-4-1 rated value       100 000 A         • at 500 V according to IEC 60947-4-1 rated value       100 000 A         Installation/ mounting/ dimensions       vertical         mounting position       vertical         fastening method       screw and snap-on mounting onto 35 mm standard mounting rail         height       193.1 mm         width       45 mm         depth       97.1 mm         required spacing       0 mm         • for grounded parts       0 mm         - forwards       0 mm         - ackwards       0 mm         - downwards       10 mm         - downwards       0 mm         - downwards       0 mm         - downwards       10 mm         - downwards       9 mm         - downwards       10 mm         - downwards       10 mm         - downwards       9 mm         - downwards       10 m  |  | magnetic  |
| • at 690 V according to IEC 60947-4-1 rated value     4 000 A       • at 400 V according to IEC 60947-4-1 rated value     100 000 A       Installation/ mounting/ dimensions     100 000 A       Installation/ mounting/ dimensions     vertical       screw and snap-on mounting onto 35 mm standard mounting rail     193.1 mm       height     193.1 mm       width     45 mm       depth     97.1 mm       required spacing     0 mm       • for grounded parts     0 mm       - forwards     0 mm       - advards     30 mm       - downwards     10 mm       - forwards     0 mm       - downwards     0 mm       - downwards     10 mm       • for live parts     10 mm       - forwards     10 mm       - backwards     0 mm       - downwards     10 mm       • for live parts     10 mm       - downwards     10 mm       - downwards<  |  |   |
| • at 400 V according to IEC 60947-4-1 rated value       153 000 A         • at 500 V according to IEC 60947-4-1 rated value       100 000 A         Installation/mounting/ dimensions       vertical         mounting position       vertical         fastening method       screw and snap-on mounting onto 35 mm standard mounting rail         height       193.1 mm         width       45 mm         depth       97.1 mm         required spacing       -         - forwards       10 mm         - packwards       0 mm         - upwards       30 mm         - downwards       10 mm         - forwards       0 mm         - downwards       10 mm         - forwards       0 mm         - downwards       10 mm         - downwards       0 mm         - downwards       10 mm         - downwards       0 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm         - downwards       10 mm      <   |  | 4 000 A   |
| • at 500 V according to IEC 60947-4-1 rated value       100 000 A         Installation/ mounting/ dimensions       • vertical         fastening method       screw and snap-on mounting onto 35 mm standard mounting rail         height       193.1 mm         width       45 mm         depth       97.1 mm         required spacing       • for grounded parts         - forwards       10 mm         - backwards       0 mm         - at the side       9 mm         - downwards       10 mm         - forwards       0 mm         - at the side       9 mm         - forwards       10 mm         - forwards       10 mm         - downwards       10 mm         - forwards       10 mm         - forwards       10 mm         - downwards       10 mm         - at the side       9 mm         - downwards       10 mm         - at the side       9 mm         - downwards       10 mm         - at the side       9 mm  | -  | 153 000 A   |
| Installation/ mounting / dimensions         vertical           mounting position         screw and snap-on mounting onto 35 mm standard mounting rail           height         193.1 mm           width         45 mm           depth         97.1 mm           required spacing         •           - forwards         10 mm           - backwards         0 mm           - backwards         30 mm           - at the side         9 mm           - downwards         10 mm           - downwards         0 mm           - downwards         10 mm           - backwards         0 mm           - downwards         10 mm           - at the side         9   |  | 100 000 A   |
| mounting position         vertical           fastening method         screw and snap-on mounting onto 35 mm standard mounting rail           height         193.1 mm           width         45 mm           depth         97.1 mm           required spacing         •           • for grounded parts         0 mm           — forwards         0 mm           — backwards         0 mm           — upwards         30 mm           — at the side         9 mm           — oforwards         10 mm           — oforwards         10 mm           — oforwards         0 mm           — oforwards         10 mm           — downwards         10 mm           — upwards         30 mm           — oforwards         10 mm           — upwards         30 mm           — downwards         10 mm           — at the side         9 mm           Connections/ Terminals         t/pre of electrical connection for main current circuit           type of electrical connection for main contacts  | -  |   |
| height       193.1 mm         width       45 mm         depth       97.1 mm         required spacing       • for grounded parts         - forwards       10 mm         - backwards       0 mm         - upwards       30 mm         - at the side       9 mm         - downwards       10 mm         - forwards       0 mm         - downwards       10 mm         - forwards       0 mm         - downwards       10 mm         - forwards       0 mm         - downwards       10 mm         - backwards       0 mm         - upwards       30 mm         - at the side       9 mm         Connections/ Terminals       screw-type terminals         type of electrical connection for main current circuit       screw-type terminals         type of electrical connection for main current circuit       screw-type terminals         type of electrical connection for main current circuit       screw-type terminals         type of electrical connection for main current circuit       screw-type terminals         type of electrical connection for main current circuit       screw-type terminals         type of electrical connection for main current circuit       screw-type terminals <td></td> <td></td>  |  |   |
| width       45 mm         depth       97.1 mm         required spacing       • for grounded parts         - forwards       10 mm         - backwards       0 mm         - upwards       30 mm         - at the side       9 mm         - downwards       10 mm         - forwards       10 mm         - downwards       10 mm         - forwards       10 mm         - forwards       10 mm         - forwards       10 mm         - downwards       10 mm         - backwards       0 mm         - backwards       0 mm         - downwards       10 mm         - downwards       9 mm         - downwards       10 mm         - at the side       9 mm         Connections/ Terminals       10 mm         type of electrical connection for main current circuit       screw-type terminals         type of connectable conductor cross-sections       1 10 mm², 2x (2.5 6 mm²)         • at AWG cables for main contacts       2x (16 12), 2x (14 8)         connectable conductor cross-section for main contacts       1 6 mm²         Safety rolated data       1 6 mm²         B10 value with high demand rate acc   | mounting position  | vertical  |
| depth       97.1 mm         required spacing       • for grounded parts         - forwards       10 mm         - backwards       0 mm         - upwards       30 mm         - at the side       9 mm         - downwards       10 mm         - forwards       10 mm         - downwards       10 mm         - forwards       0 mm         - downwards       10 mm         - backwards       0 mm         - upwards       30 mm         - downwards       10 mm         - downwards       0 mm         - downwards       0 mm         - at the side       9 mm         Connections/ Terminals       screw-type terminals         type of electrical connection for main current circuit       screw-type terminals         type of connectable conductor cross-sections       1 10 mm², 2x (2.5 6 mm²)         • at AWG cables for main contacts       2x (16 12), 2x (14 8)         connectable conductor cross-section for main contacts       1 6 mm²         finely stranded with core end processing       1 6 mm²         Safety related data       1000 000         proportion of dangerous failures with high demand rate according to SN 31920       1 000 000  |  |   |
| required spacing         • for grounded parts         - forwards       10 mm         - backwards       0 mm         - backwards       0 mm         - upwards       30 mm         - at the side       9 mm         - downwards       10 mm         • for live parts       10 mm         - forwards       10 mm         - backwards       0 mm         - backwards       0 mm         - backwards       0 mm         - downwards       10 mm         - downwards       0 mm         - at the side       9 mm         Connections/ Terminals       10 mm         type of electrical connection for main current circuit       screw-type terminals         type of connectable conductor cross-sections       1 10 mm², 2x (2.5 6 mm²)         • at AWG cables for main contacts       2x (16 12), 2x (14 8)         connectable conductor cross-section for main contacts       1 6 mm²         finely stranded with core end processing       1 6 mm²         Safety related data       1000 000         Proportion of dangerous failures with high demand rate according to SN 31920       1000 000   | fastening method   | screw and snap-on mounting onto 35 mm standard mounting rail  |
| • for grounded parts  | fastening method<br>height   | screw and snap-on mounting onto 35 mm standard mounting rail 193.1 mm   |
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|   | fastening method<br>height<br>width<br>depth<br>required spacing   | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm   |
| - at the side9 mm- downwards10 mm• for live parts10 mm- forwards10 mm- backwards0 mm- backwards0 mm- upwards30 mm- downwards10 mm- at the side9 mmConnections/ Terminalstype of electrical connection for main current circuitscrew-type terminalstype of connectable conductor cross-sections1 10 mm², 2x (2.5 6 mm²)• for main contacts stranded1 10 mm², 2x (2.5 6 mm²)• at AWG cables for main contacts2x (16 12), 2x (14 8)connectable conductor cross-section for main contacts1 6 mm²B10 value with high demand rate according to SN 319201 000 000proportion of dangerous failures with high demand rate according to SN 3192073 %  | fastening method         height         width         depth         required spacing         • for grounded parts  | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm  |
| - downwards     10 mm       • for live parts     10 mm       - forwards     10 mm       - backwards     0 mm       - upwards     30 mm       - downwards     10 mm       - downwards     9 mm       - downwards     10 mm       - at the side     9 mm       Connections/ Terminals     screw-type terminals       type of electrical connection for main current circuit     screw-type terminals       type of connectable conductor cross-sections     1 10 mm², 2x (2.5 6 mm²)       • at AWG cables for main contacts     2x (16 12), 2x (14 8)       connectable conductor cross-section for main contacts     1 6 mm²       finely stranded with core end processing     1 6 mm²       B10 value with high demand rate according to SN 31920     1 000 000       proportion of dangerous failures with high demand rate according to SN 31920     1 000 000  | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards   | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm  |
| <ul> <li>for live parts         <ul> <li>for wards</li> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>at the side</li> </ul> </li> <li>Connections/ Terminals</li> <li>type of electrical connection for main current circuit</li> <li>screw-type terminals</li> </ul> <li>type of connectable conductor cross-sections         <ul> <li>for main contacts stranded</li> <li>at AWG cables for main contacts</li> <li>2x (16 12), 2x (14 8)</li> </ul> </li> <li>connectable conductor cross-section for main contacts</li> <li>at AWG cables for main contacts</li> <li>2x (16 12), 2x (14 8)</li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> <li>Safety related data</li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures with high demand rate according to SN 31920</li> <li>for SN 31920</li>   | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards   | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm   |
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|   | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side   | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm  |
| upwards30 mm downwards10 mm at the side9 mmConnections/ Terminalstype of electrical connection for main current circuitscrew-type terminalstype of connectable conductor cross-sections• for main contacts stranded1 10 mm², 2x (2.5 6 mm²)• at AWG cables for main contacts2x (16 12), 2x (14 8)connectable conductor cross-section for main contacts1 6 mm²finely stranded with core end processing1 6 mm²Safety related dataB10 value with high demand rate according to SN 319201 000 000proportion of dangerous failures with high demand rate<br>according to SN 3192073 %  | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards   | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm  |
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| — at the side9 mmConnections/ Terminalstype of electrical connection for main current circuitscrew-type terminalstype of connectable conductor cross-sections1 10 mm², 2x (2.5 6 mm²)• for main contacts stranded1 10 mm², 2x (2.5 6 mm²)• at AWG cables for main contacts2x (16 12), 2x (14 8)connectable conductor cross-section for main contacts1 6 mm²finely stranded with core end processing1 6 mm²B10 value with high demand rate according to SN 319201 000 000proportion of dangerous failures with high demand rate<br>according to SN 3192073 %   | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — forwards  | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm<br>10 mm   |
| Connections/ Terminals         type of electrical connection for main current circuit       screw-type terminals         type of connectable conductor cross-sections       1 10 mm², 2x (2.5 6 mm²)         • at AWG cables for main contacts       2x (16 12), 2x (14 8)         connectable conductor cross-section for main contacts       1 6 mm²         finely stranded with core end processing       1 6 mm²         Safety related data       1 000 000         proportion of dangerous failures with high demand rate according to SN 31920       1 000 000         proportion of SN 31920       73 %  | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         • for live parts         — backwards  | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm<br>10 mm<br>10 mm<br>0 mm  |
| type of electrical connection for main current circuit       screw-type terminals         type of connectable conductor cross-sections <ul> <li>for main contacts stranded</li> <li>at AWG cables for main contacts</li> <li>connectable conductor cross-section for main contacts</li> <li>connectable conductor cross-section for main contacts</li> <li>finely stranded with core end processing</li> </ul> <li>Safety related data         <ul> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures with high demand rate according to SN 31920</li> </ul> </li>  | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — upwards         • for live parts         — upwards         — upwards         — upwards  | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm<br>10 mm<br>10 mm<br>30 mm<br>30 mm<br>9 mm  |
| type of connectable conductor cross-sections       1 10 mm², 2x (2.5 6 mm²)         • at AWG cables for main contacts       2x (16 12), 2x (14 8)         connectable conductor cross-section for main contacts       1 6 mm²         finely stranded with core end processing       1 6 mm²         Safety related data       1 000 000         proportion of dangerous failures with high demand rate according to SN 31920       1 000 000         proportion of SN 31920       73 %   | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — downwards         — backwards         — at the side         — downwards         — forwards         — at the side         — at the side  | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm<br>10 mm<br>10 mm<br>10 mm<br>10 mm<br>10 mm<br>10 mm  |
| <ul> <li>for main contacts stranded</li> <li>at AWG cables for main contacts</li> <li>at AWG cables for main contacts</li> <li>connectable conductor cross-section for main contacts finely stranded with core end processing</li> <li>Safety related data</li> <li>B10 value with high demand rate according to SN 31920</li> <li>proportion of dangerous failures with high demand rate according to SN 31920</li> <li>for main contacts</li> <li>for main contacts</li></ul>   | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — downwards         — backwards         — at the side         — downwards         — forwards         — at the side         — at the side  | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm<br>10 mm<br>10 mm<br>10 mm<br>10 mm<br>10 mm<br>10 mm  |
| • at AWG cables for main contacts         2x (16 12), 2x (14 8)           connectable conductor cross-section for main contacts finely stranded with core end processing         1 6 mm²           Safety related data         1 000 000           Proportion of dangerous failures with high demand rate according to SN 31920         1 000 000           73 %         73 %   | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — downwards         • for live parts         — forwards         — backwards         — at the side         — downwards         — at the side         Connections/ Terminals  | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm<br>10 mm<br>10 mm<br>10 mm<br>9 mm<br>10 mm<br>9 mm<br>10 mm<br>9 mm<br>10 mm<br>9 mm<br>10 mm<br>9 mm   |
| connectable conductor cross-section for main contacts<br>finely stranded with core end processing1 6 mm²Safety related data1 000 000B10 value with high demand rate according to SN 319201 000 000proportion of dangerous failures with high demand rate<br>according to SN 3192073 %   | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — obackwards         — at the side         — downwards         • for live parts         — forwards         — downwards         — backwards         — upwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit  | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm<br>10 mm<br>10 mm<br>10 mm<br>9 mm<br>10 mm<br>9 mm<br>10 mm<br>9 mm<br>10 mm<br>9 mm<br>10 mm<br>9 mm   |
| finely stranded with core end processing         Safety related data         B10 value with high demand rate according to SN 31920         proportion of dangerous failures with high demand rate according to SN 31920         73 %  | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — of orwards         — at the side         — downwards         — at the side         — upwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections   | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm<br>10 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm<br>10 mm<br>9 mm<br>10 mm<br>9 mm<br>10 mm<br>9 mm<br>10 mm   |
| B10 value with high demand rate according to SN 31920       1 000 000         proportion of dangerous failures with high demand rate according to SN 31920       73 %   | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — upwards         — oforwards         — downwards         — at the side         — upwards         — at the side         — upwards         — backwards         — upwards         — downwards         — other side         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections         • for main contacts stranded  | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm<br>10 mm<br>10 mm<br>0 mm<br>30 mm<br>10 mm<br>9 mm<br>10 mm<br>10 mm<br>10 mm<br>2 mm<br>30 mm<br>10 mm<br>10 mm<br>10 mm<br>2 mm<br>30 mm<br>10 mm<br>2 mm<br>30 mm<br>10 mm<br>2 mm<br>30 mm |
| proportion of dangerous failures with high demand rate according to SN 31920 73 %   | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — upwards         — forwards         — downwards         — backwards         — upwards         — downwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections         • for main contacts stranded         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         finely stranded with core end processing   | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm<br>10 mm<br>10 mm<br>10 mm<br>0 mm<br>30 mm<br>10 mm<br>10 mm<br>30 mm<br>10 mm<br>2 mm<br>1 mm<br>2 mm<br>2 x (2.5 6 mm <sup>2</sup> )<br>2 x (16 12), 2 x (14 8)  |
| according to SN 31920   | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — upwards         — forwards         — downwards         — backwards         — upwards         — downwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections         • for main contacts stranded         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         finely stranded with core end processing   | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm<br>10 mm<br>10 mm<br>10 mm<br>0 mm<br>30 mm<br>10 mm<br>10 mm<br>30 mm<br>10 mm<br>2 mm<br>1 mm<br>2 mm<br>2 x (2.5 6 mm <sup>2</sup> )<br>2 x (16 12), 2 x (14 8)  |
| protection class IP on the front according to IEC IP20  | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — upwards         — backwards         — upwards         — backwards         — upwards         — downwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections         • for main contacts stranded         • at AWG cables for main contacts         connectable conductor cross-section for main contacts         finely stranded with core end processing         Safety related data  | screw and snap-on mounting onto 35 mm standard mounting rail         193.1 mm         45 mm         97.1 mm         10 mm         0 mm         30 mm         9 mm         10 mm         0 mm         30 mm         9 mm         10 mm         9 mm         10 mm         9 mm         10 mm         9 mm         10 mm         9 mm         screw-type terminals         1 10 mm², 2x (2.5 6 mm²)         2x (16 12), 2x (14 8)         1 6 mm²   |
|   | fastening method         height         width         depth         required spacing         • for grounded parts         — forwards         — backwards         — upwards         — at the side         — downwards         • for live parts         — forwards         — backwards         — of orwards         — of orwards         — ownwards         — backwards         — upwards         — downwards         — at the side         Connections/ Terminals         type of electrical connection for main current circuit         type of connectable conductor cross-sections         • for main contacts stranded         • at AWG cables for main contacts         connectable conductor cross-section for main contacts finely stranded with core end processing         Safety related data         B10 value with high demand rate according to SN 31920         proportion of dangerous failures with high demand rate  | screw and snap-on mounting onto 35 mm standard mounting rail<br>193.1 mm<br>45 mm<br>97.1 mm<br>10 mm<br>0 mm<br>30 mm<br>9 mm<br>10 mm<br>10 mm<br>10 mm<br>0 mm<br>30 mm<br>10 mm<br>9 mm<br>10 mm<br>30 mm<br>10 mm<br>9 mm<br>10 mm<br>10 mm<br>9 mm<br>10 mm <sup>2</sup> , 2x (2.5 6 mm <sup>2</sup> )<br>2x (16 12), 2x (14 8)<br>1 6 mm <sup>2</sup>  |

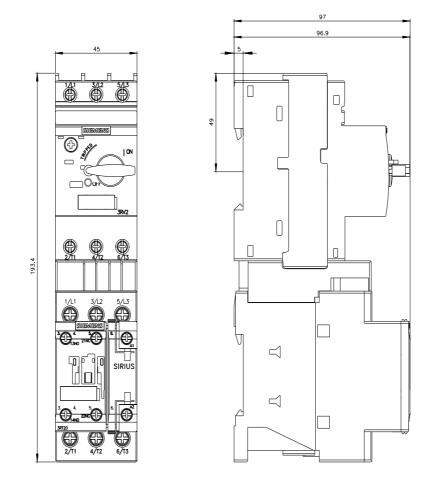


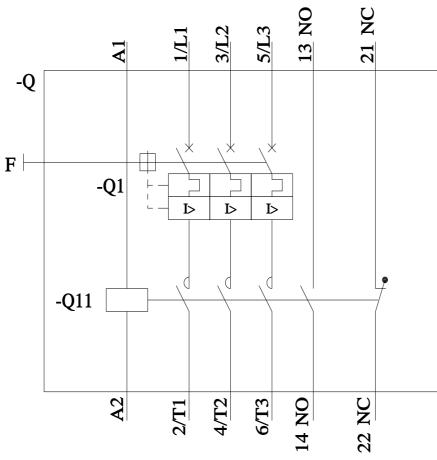
Characteristic: Tripping characteristics, I<sup>2</sup>t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RA2120-1GA24-0AK6/char

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

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RA2120-1GA24-0AK6&objecttype=14&gridview=view1





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