# **SIEMENS**

## Data sheet

## 3RT2028-2AF00



CONTACTOR, AC-3, 18.5KW/400V, 1NO+1NC, AC 110V 50HZ, 3-POLE, SZ S0 SPRING-LOADED TERMINAL

| product brand name   |    | SIRIUS         |  |
|--|----|----------------|--|
| Product designation  |    | 3RT2 contactor |  |
| General technical data:  |    |                |  |
| Insulation voltage   |    |                |  |
| Rated value  | V  | 690            |  |
| Degree of pollution  |    | 3              |  |
| Surge voltage resistance Rated value   | kV | 6              |  |
| Mechanical service life (switching cycles)   |    |                |  |
| <ul> <li>of the contactor typical</li> </ul>   |    | 10 000 000     |  |
| <ul> <li>of the contactor with added electronics-<br/>compatible auxiliary switch block typical</li> </ul> |    | 5 000 000      |  |
| <ul> <li>of the contactor with added auxiliary switch<br/>block typical</li> </ul>                         |    | 10 000 000     |  |
| Thermal short-time current restricted to 10 s  | А  | 304            |  |
| Protection class IP  |    |                |  |
| • on the front   |    | IP20           |  |
| • of the terminal  |    | IP20           |  |
| Equipment marking  | _  |                |  |
| • acc. to DIN EN 61346-2   |    | Q              |  |
| • acc. to DIN EN 81346-2   |    | Q              |  |
| Aain circuit:  |    |                |  |
| Number of poles for main current circuit   |    | 3              |  |
| Number of NC contacts for main contacts  |    | 0              |  |
| Number of NO contacts for main contacts  |    | 3              |  |
| Operating voltage  |    |                |  |

| <ul> <li>at AC-3 Rated value maximum</li> </ul>           | V | 690  |
|---|---|------|
| Operating current   |   |      |
| • at AC-1   |   |      |
| — at 400 V at ambient temperature 40 °C                   | А | 50   |
| Rated value   |   |      |
| — up to 690 V at ambient temperature 40 $^\circ C$        | А | 50   |
| Rated value   |   |      |
| — up to 690 V at ambient temperature 60 °C<br>Rated value | A | 42   |
| • at AC-2 at 400 V Rated value                            | А | 38   |
| ● at AC-3   |   |      |
| — at 400 V Rated value                                    | А | 38   |
| — at 500 V Rated value                                    | А | 32   |
| — at 690 V Rated value                                    | А | 21   |
| • at AC-4 at 400 V Rated value                            | А | 22   |
| Operating current with 1 current path                     |   |      |
| ● at DC-1   |   |      |
| — at 24 V Rated value                                     | А | 35   |
| — at 110 V Rated value                                    | А | 4.5  |
| — at 220 V Rated value                                    | А | 1    |
| — at 440 V Rated value                                    | А | 0.4  |
| — at 600 V Rated value                                    | А | 0.25 |
| ● at DC-3 at DC-5   |   |      |
| — at 24 V Rated value                                     | А | 20   |
| — at 110 V Rated value                                    | А | 2.5  |
| — at 220 V Rated value                                    | А | 1    |
| — at 440 V Rated value                                    | А | 0.09 |
| — at 600 V Rated value                                    | А | 0.06 |
| Operating current with 2 current paths in series          |   |      |
| ● at DC-1   |   |      |
| — at 24 V Rated value                                     | А | 35   |
| — at 110 V Rated value                                    | А | 35   |
| — at 220 V Rated value                                    | А | 5    |
| — at 440 V Rated value                                    | А | 1    |
| — at 600 V Rated value                                    | А | 0.8  |
| • at DC-3 at DC-5   |   |      |
| — at 110 V Rated value                                    | А | 15   |
| — at 220 V Rated value                                    | А | 3    |
| — at 24 V Rated value                                     | А | 35   |
| — at 440 V Rated value                                    | А | 0.27 |
| — at 600 V Rated value                                    | А | 0.16 |
| Operating current with 3 current paths in series          |   |      |

|   | • at DC-1                       |     |         |
|---|---------------------------------|-----|---------|
|   | — at 24 V Rated value           | А   | 35      |
| at 440 V Rated valueA2.9- at 600 V Rated valueA1.4• at DC-3 at DC-5 at 110 V Rated valueA35- at 220 V Rated valueA0- at 24 V Rated valueA0.6- at 440 V Rated valueKW18.5- at 400 V Rated valueKW18.5• at AC-1 at 400 V Rated valueKW11Operating power• at AC-1 at 400 V Rated valueKW15.5- at 230 V at 60 °C Rated valueKW15.5- at 230 V at 60 °C Rated valueKW15.5- at 230 V Rated valueKW15.5- at 400 V Rated valueKW14.5- at 400 V Rated valueKW15.5- at 400 V Rated valueKW15.5- at 690 V Rated valueKW18.5- Derating power fr ≥ 20000 operating cycles at AC-4 at 690 V Rated valueKW10.3- Derating frequency at 690 V Rated valueKW10.3- Derating range factor control supply voltage ratedV110- at 50 Hz Rated valueV110- at 50 Hz Rated valueV110- at 50 Hz Rated value   | — at 110 V Rated value          | А   | 35      |
| Link of V Rated valueA1.4• at DC-3 at DC-5 at 110 V Rated valueA- at 220 V Rated valueA- at 24 V Rated valueA- at 24 V Rated valueA- at 44 O V Rated valueKW28- at AC-1 at 230 V Rated valueKW- at 690 V Rated valueKW <td>— at 220 V Rated value</td> <td>А</td> <td>35</td>   | — at 220 V Rated value          | А   | 35      |
| • at DC-3 at DC-5 at 110 V Rated valueA35- at 220 V Rated valueA10- at 24 V Rated valueA35- at 440 V Rated valueA0.6- at 400 V Rated valueA0.6Operating power at 600 V Rated valueKW18.5- at 600 V Rated valueKW11Operating power at 230 V Rated valueKW11Operating power at 230 V Rated valueKW15.5- at 230 V Rated valueKW16- at 230 V Rated valueKW16- at 230 V Rated valueKW48- at 690 V Rated valueKW48- at 690 V Rated valueKW11- at 690 V Rated valueKW18.5- at 690 V Rated valueKW18.5- at 400 V Rated valueKW10.3Operating power for 2 200000 operating cycles at AC-4 at 690 V Rated valueKW10.3Operating frequency at 690 V Rated valueKW10.3Operating frequency at 690 V Rated valueKW10.3Operating frequency at 690 V Rated valueKW10.0Operating frequency at 690  | — at 440 V Rated value          | А   | 2.9     |
| - at 110 V Rated valueA35- at 220 V Rated valueA10- at 24 V Rated valueA35- at 440 V Rated valueA0.6- at 600 V Rated valueA0.6- at 600 V Rated valueKW28- at 600 V Rated valueKW18.5- at AC-1 at 400 V Rated valueKW11Operating power at AC-1 at 400 V Rated valueKW15.5- at AC-1 at 400 V Rated valueKW15.5- at 230 V Rated valueKW15.5- at 230 V Rated valueKW16- at 230 V Rated valueKW48- at 690 V Rated valueKW48- at 690 V Rated valueKW11- at 690 V Rated valueKW18.5- at 690 V Rated valueKW10.3Operating power for > 20000 operating cycles at AC-4KW10.3- at 690 V Rated valueKW10.3Operating frequency at 690 V Rated valueKW10.3- at 690 V Rated valueKW10.3 at 690 V Rated valueKW10.3   | — at 600 V Rated value          | А   | 1.4     |
| - at 220 V Rated valueA10- at 224 V Rated valueA35- at 440 V Rated valueA0.6- at 600 V Rated valueA0.6Operating power• at AC-1 at 400 V Rated valueKW18.5• at AC-1 at 400 V Rated valueKW11Operating power• at AC-1 at 230 V at 60 °C Rated valueKW15.5- at 230 V at 60 °C Rated valueKW16- at 600 V Rated valueKW16- at 600 V Rated valueKW18.5- at 600 V Rated valueKW10.3Operating power for 200000 operating cycles at AC-3 at 600 V Rated valueKW10.3Operating frequency-AC- at 600 V Rated valueKW6- at 600 V Rated valueKW6- at 600 V Rated valueKW10.3Operating frequency-AC- at 600 V Rated valueKW10.3Operating frequency-AC- at 600 V Rated valueV110Control supply voltage with ACV110Operating range factor control supply voltage ratedV110   | ● at DC-3 at DC-5               |     |         |
|   | — at 110 V Rated value          | А   | 35      |
| at 440 V Rated valueA0.6- at 600 V Rated valueA0.6Operating power   | — at 220 V Rated value          | А   | 10      |
|   | — at 24 V Rated value           | А   | 35      |
| Operating power     KW     28       • at AC-1 at 400 V Rated value     KW     18.5       • at AC-2 at 400 V Rated value     KW     11       Operating power     KW     11       • at AC-1     - at 230 V at 60 °C Rated value     KW     15.5       - at 230 V Rated value     KW     16       - at 230 V Rated value     KW     16       - at 400 V at 60 °C Rated value     KW     27.5       - at 690 V Rated value     KW     48       • at AC-3     -     -       - at 690 V Rated value     KW     18.5       • at AC-3     -     -       - at 690 V Rated value     KW     11       - at 690 V Rated value     KW     18.5       - at 690 V Rated value     KW     10.3       Operating frequency     1/h     750       • at 690 V Rated value     V     110 <t< td=""><td>— at 440 V Rated value</td><td>А</td><td>0.6</td></t<> | — at 440 V Rated value          | А   | 0.6     |
| • at AC-1 at 400 V Rated valueKW28• at AC-2 at 400 V Rated valueKW18.5• at AC-4 at 400 V Rated valueKW11Operating power• at AC-1  | — at 600 V Rated value          | А   | 0.6     |
| at AC-2 at 400 V Rated valueKW18.5• at AC-4 at 400 V Rated valueKW11Operating power<br>• at AC-1<br>- at 230 V at 60 °C Rated valueKW15.5- at 230 V Rated valueKW16- at 400 V at 60 °C Rated valueKW27.5- at 690 V at 60 °C Rated valueKW47.5- at 690 V Rated valueKW48• at AC-3 at 230 V Rated valueKW11- at 400 V Rated valueKW18.5- at 690 V Rated valueKW11- at 690 V Rated valueKW18.5- at 690 V Rated valueKW18.5- at 690 V Rated valueKW18.5- at 690 V Rated valueKW10.5- at 690 V Rated valueKW10.3Operating power for ≥ 200000 operating cycles at<br>AC-4 at 690 V Rated valueKW10.3Operating frequency<br>• at AC-3 maximum1/h750Control supply voltage with AC<br>• at 50 Hz Rated valueV110Operating range factor control supply voltage rated<br>value of the magnet coll with ACV110   | Operating power                 | -   |         |
| • at AC-4 at 400 V Rated valueKW11Operating power-• at AC-1 at 230 V at 60 °C Rated valueKW15.5- at 230 V Rated valueKW16- at 400 V at 60 °C Rated valueKW27.5- at 690 V at 60 °C Rated valueKW47.5- at 690 V Rated valueKW48• at AC-3 at 230 V Rated valueKW11- at 400 V Rated valueKW18.5- at 690 V Rated valueKW18.5- at 690 V Rated valueKW10.3Operating power for ≥ 200000 operating cycles at AC-4-• at 400 V Rated valueKW10.3Operating frequency• at AC-3 maximum1/h750Control supply voltage of the control supply voltageACControl supply voltage with AC-• at 50 Hz Rated valueV110Operating range factor control supply voltage rated valueV• at 50 Hz Rated value-• at 50 Hz Rated value-• at 50 Hz Rated value- <td< td=""><td>• at AC-1 at 400 V Rated value</td><td>kW</td><td>28</td></td<>   | • at AC-1 at 400 V Rated value  | kW  | 28      |
| Operating power       • at AC-1         - at 230 V at 60 °C Rated value       KW       15.5         - at 230 V Rated value       KW       16         - at 400 V at 60 °C Rated value       KW       27.5         - at 690 V Rated value       KW       47.5         - at 690 V Rated value       KW       48         • at AC-3       -       -         - at 690 V Rated value       KW       11         - at 400 V Rated value       KW       18.5         - at 690 V Rated value       KW       18.5         Operating power for ≥ 200000 operating cycles at AC-4       -         • at 400 V Rated value       KW       18.5         Operating frequency       -       -         • at 400 V Rated value       KW       10.3         Operating frequency       -       -         • at AC-3 maximum       1/h       750         Control supply voltage with AC       -       -         • at 50 Hz Rated value       V       110         Operating range factor control supply voltage rated                | • at AC-2 at 400 V Rated value  | kW  | 18.5    |
| • at AC-1KW15.5- at 230 V at 60 °C Rated valueKW16- at 230 V Rated valueKW16- at 400 V at 60 °C Rated valueKW27.5- at 690 V at 60 °C Rated valueKW47.5- at 690 V Rated valueKW48• at AC-3 at 230 V Rated valueKW11- at 400 V Rated valueKW18.5- at 690 V Rated valueKW10.3Operating power for ≥ 20000 operating cycles at AC-4-• at 400 V Rated valueKW6• at 690 V Rated valueKW10.3Operating frequency<br>• at AC-3 maximum1/h750Control circuit/ Control:Type of voltage of the control supply voltageACControl supply voltage with AC<br>• at 50 Hz Rated valueV110Operating range factor control supply voltage rated<br>value of the magnet coil with ACI  | • at AC-4 at 400 V Rated value  | kW  | 11      |
|   | Operating power                 | _   |         |
|   | ● at AC-1                       |     |         |
|   | — at 230 V at 60 °C Rated value | kW  | 15.5    |
| at 690 V at 60 °C Rated valuekW47.5 at 690 V Rated valuekW48• at AC-3 at 230 V Rated valuekW11 at 400 V Rated valuekW18.5 at 690 V Rated valuekW18.5 at 690 V Rated valuekW18.5 at 690 V Rated valuekW10.3Operating power for ≥ 200000 operating cycles at AC-4kW6• at 400 V Rated valuekW6• at 690 V Rated valuekW10.3Operating frequency<br>• at AC-3 maximum1/h750Control circuit/ Control:  | — at 230 V Rated value          | kW  | 16      |
| at 690 V Rated valuekW48• at AC-3 at 230 V Rated valuekW at 400 V Rated valuekW at 690 V Rated valuekW  | — at 400 V at 60 °C Rated value | kW  | 27.5    |
| • at AC-3KW- at 230 V Rated valueKW- at 400 V Rated valueKW- at 690 V Rated valueKW- at 690 V Rated valueKW• at 400 V Rated valueKW• at 690 V Rated valueKW• at 690 V Rated valueKW• at AC-3 maximum1/h7 per of voltage of the control supply voltageACControl circuit/ Control:V• at 50 Hz Rated valueV• at 50 Hz Rated valueV110Operating range factor control supply voltage rated value of the magnet coil with ACI   | — at 690 V at 60 °C Rated value | kW  | 47.5    |
| - at 230 V Rated valuekW11- at 400 V Rated valuekW18.5- at 690 V Rated valuekW18.5Operating power for ≥ 200000 operating cycles at<br>AC-4KW6• at 400 V Rated valuekW6• at 400 V Rated valuekW10.3Operating frequency<br>• at AC-3 maximum1/h750• at 50 Hz Rated valueVACControl circuit/ Control:V110Operating range factor control supply voltage rated<br>value of the magnet coll with ACV110   | — at 690 V Rated value          | kW  | 48      |
| at 400 V Rated valuekW18.5 at 690 V Rated valuekW18.5Operating power for ≥ 200000 operating cycles at<br>AC-4KW6• at 400 V Rated valuekW6• at 400 V Rated valuekW10.3Operating frequency<br>• at AC-3 maximum1/h750Control circuit/ Control:KUACControl supply voltage of the control supply voltageAC• at 50 Hz Rated valueV110Operating range factor control supply voltage rated<br>value of the magnet coil with ACV  | ● at AC-3                       |     |         |
| at 690 V Rated valuekW18.5Operating power for ≥ 200000 operating cycles at<br>AC-4kW6• at 400 V Rated valuekW6• at 690 V Rated valuekW10.3Operating frequency<br>• at AC-3 maximum1/h750Control circuit/ Control:ImplementACControl supply voltage of the control supply voltageACControl supply voltage with AC<br>• at 50 Hz Rated valueV110Operating range factor control supply voltage rated<br>value of the magnet coll with ACV110   | — at 230 V Rated value          | kW  | 11      |
| Operating power for > 200000 operating cycles at<br>AC-4KW6• at 400 V Rated valuekW6• at 690 V Rated valuekW10.3Operating frequency<br>• at AC-3 maximum1/h750Control circuit/ Control:VACControl supply voltage with AC<br>• at 50 Hz Rated valueVACOperating range factor control supply voltage rated<br>value of the magnet coil with ACV110  | — at 400 V Rated value          | kW  | 18.5    |
| AC-4Image: Control supply voltage rated valueKW6• at 400 V Rated valuekW10.3Operating frequency<br>• at AC-3 maximum1/h750Control circuit/ Control:Image: Control supply voltageACControl supply voltage with AC<br>• at 50 Hz Rated valueV110Operating range factor control supply voltage rated<br>value of the magnet coil with ACV110   | — at 690 V Rated value          | kW  | 18.5    |
| • at 690 V Rated valuekW10.3Operating frequency<br>• at AC-3 maximum1/h750Control circuit/ Control:XControl circuit/ Control:ACControl supply voltage of the control supply voltageACControl supply voltage with AC<br>• at 50 Hz Rated valueV110Operating range factor control supply voltage rated<br>value of the magnet coil with ACV110  |                                 |     |         |
| Operating frequency<br>• at AC-3 maximum1/h750Control circuit/ Control:1/h750Control supply voltage of the control supply voltage<br>• at 50 Hz Rated valueACControl supply voltage with AC<br>• at 50 Hz Rated valueV110Operating range factor control supply voltage rated<br>value of the magnet coil with ACV110  | • at 400 V Rated value          | kW  | 6       |
| • at AC-3 maximum1/h750Control circuit/ Control:ACType of voltage of the control supply voltageACControl supply voltage with AC<br>• at 50 Hz Rated valueV110Operating range factor control supply voltage rated<br>value of the magnet coil with ACV110  | • at 690 V Rated value          | kW  | 10.3    |
| Control circuit/ Control:       AC         Type of voltage of the control supply voltage       AC         Control supply voltage with AC       110         • at 50 Hz Rated value       V       110         Operating range factor control supply voltage rated value of the magnet coil with AC       Image: Control supply voltage rated value  | Operating frequency             | -   |         |
| Type of voltage of the control supply voltage       AC         Control supply voltage with AC       110         • at 50 Hz Rated value       V       110         Operating range factor control supply voltage rated value of the magnet coil with AC       Image: Control supply voltage rated value   | • at AC-3 maximum               | 1/h | 750     |
| Control supply voltage with AC     V     110       • at 50 Hz Rated value     V     110       Operating range factor control supply voltage rated value of the magnet coil with AC     V     110  |                                 |     |         |
| • at 50 Hz Rated value V 110 Operating range factor control supply voltage rated value of the magnet coil with AC   |                                 |     | AC      |
| Operating range factor control supply voltage rated<br>value of the magnet coil with AC   |                                 |     |         |
| value of the magnet coil with AC  |                                 | V   | 110     |
| • at 50 Hz 0.8 1.1  |                                 |     |         |
|   | ● at 50 Hz                      |     | 0.8 1.1 |

| Number of NC contacts  | -            |   |
|--|--------------|---|
| <ul> <li>for auxiliary contacts</li> </ul>                             |              |   |
| — instantaneous contact  |              | 1   |
| Number of NO contacts  | -            |   |
| for auxiliary contacts   |              |   |
| — instantaneous contact  |              | 1   |
| Product expansion Auxiliary switch                                     | -            | Yes   |
| Operating current at AC-15   |              |   |
| • at 230 V Rated value   | А            | 10  |
| • at 400 V Rated value   | А            | 3   |
| at 690 V Rated value   | А            | 1   |
| Operating current  | -            |   |
| at DC-12 at 125 V Rated value  | А            | 2   |
| at DC-12 at 220 V Rated value  | A            | 1   |
| at DC-12 at 600 V Rated value  | A            | 0.15  |
| at DC-12 at 000 v Rated value     at DC-13 at 125 V Rated value        | A            | 0.9   |
| at DC-13 at 220 V Rated value  | A            | 0.3   |
| at DC-13 at 600 V Rated value  | A            | 0.1   |
| Operating current  |              |   |
| • at DC-12   |              |   |
| — at 60 V Rated value  | А            | 6   |
| — at 110 V Rated value   | A            | 3   |
| • at DC-13   | ~            | Ŭ   |
| — at 24 V Rated value  | А            | 10  |
| — at 60 V Rated value  | A            | 2   |
|  | A            | 1   |
| - at 110 V Rated value   | A            |   |
| Contact reliability of the auxiliary contacts                          |              | 1 faulty switching per 100 million (17 V, 1 mA) |
| JL/CSA ratings:  |              |   |
| Full-load current (FLA) for three-phase AC motor                       |              |   |
| • at 480 V Rated value   | А            | 34  |
| • at 600 V Rated value   | А            | 27  |
| yielded mechanical performance [hp]                                    | _            |   |
| <ul> <li>for single-phase AC motor at 110/120 V Rated value</li> </ul> | metric<br>hp | 3   |
| <ul> <li>for single-phase AC motor at 230 V Rated value</li> </ul>     | metric<br>hp | 5   |
| <ul> <li>for three-phase AC motor at 200/208 V Rated value</li> </ul>  | metric<br>hp | 10  |
| <ul> <li>for three-phase AC motor at 220/230 V Rated value</li> </ul>  | metric<br>hp | 10  |
| <ul> <li>for three-phase AC motor at 460/480 V Rated value</li> </ul>  | metric<br>hp | 25  |

| <ul> <li>for three-phase AC motor at 575/600 V Rated value</li> </ul>             | metric<br>hp | 25   |
|---|--------------|--|
| Contact rating of the auxiliary contacts acc. to UL                               |              | A600 / Q600  |
| Short-circuit:  |              |  |
| Design of the fuse link   |              |  |
| <ul> <li>for short-circuit protection of the main circuit</li> </ul>              |              |  |
| — with type of assignment 1 required  |              | gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE:<br>100 A                                     |
| — with type of assignment 2 required  |              | gL/gG LV HRC 3NA, DIAZED 5SB, NEOZED 5SE:<br>35 A                                      |
| <ul> <li>for short-circuit protection of the auxiliary switch required</li> </ul> |              | 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   |
| Mounting type   |              | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| <ul> <li>Side-by-side mounting</li> </ul>   |              | Yes  |
| Height  | mm           | 102  |
| Width   | mm           | 45   |
| Depth   | mm           | 97   |
| Required spacing  | -            |  |
| <ul> <li>with side-by-side mounting</li> </ul>                                    |              |  |
| — forwards  | mm           | 0  |
| — Backwards   | mm           | 0  |
| — upwards   | mm           | 0  |
| — downwards   | mm           | 0  |
| — at the side   | mm           | 0  |
| <ul> <li>for grounded parts</li> </ul>  |              |  |
| — forwards  | mm           | 0  |
| — Backwards   | mm           | 0  |
| — upwards   | mm           | 0  |
| — at the side   | mm           | 6  |
| — downwards   | mm           | 0  |
| • for live parts  |              |  |
| — forwards  | mm           | 0  |
| — Backwards   | mm           | 0  |
| — upwards   | mm           | 0  |
| – downwards   | mm           | 0  |
| — at the side   | mm           | 6  |
| Connections/ Terminals:   |              |  |

| Type of electrical connection                                       |     |                         |
|---|-----|-------------------------|
| <ul> <li>for main current circuit</li> </ul>                        |     | spring-loaded terminals |
| <ul> <li>for auxiliary and control current circuit</li> </ul>       |     | spring-loaded terminals |
| Type of connectable conductor cross-section                         | -   |                         |
| <ul> <li>for main contacts</li> </ul>                               |     |                         |
| — single or multi-stranded  |     | 2x (1 10 mm²)           |
| — finely stranded with core end processing                          |     | 2x (1 6 mm²)            |
| <ul> <li>finely stranded without core end<br/>processing</li> </ul> |     | 2x (1 6 mm²)            |
| <ul> <li>for AWG conductors for main contacts</li> </ul>            |     | 2x (18 8)               |
| <ul> <li>for auxiliary contacts</li> </ul>                          |     |                         |
| — single or multi-stranded  |     | 2x (0,5 2,5 mm²)        |
| — finely stranded with core end processing                          |     | 2x (0.5 1.5 mm²)        |
| <ul> <li>finely stranded without core end<br/>processing</li> </ul> |     | 2x (0.5 2.5 mm²)        |
| <ul> <li>for AWG conductors for auxiliary contacts</li> </ul>       |     | 2x (20 14)              |
| Apparent pick-up power of the magnet coil with AC                   | -   |                         |
| ● at 50 Hz  | V·A | 77                      |
| Safety related data:  |     |                         |
| B10 value with high demand rate acc. to SN 31920                    |     | 1 000 000               |
| Proportion of dangerous failures                                    |     |                         |
| • with low demand rate acc. to SN 31920                             | %   | 40                      |
| <ul> <li>with high demand rate acc. to SN 31920</li> </ul>          | %   | 73                      |
| Failure rate [FIT] with low demand rate acc. to SN 31920            | FIT | 100                     |
| Product function Mirror contact acc. to IEC 60947-4-1               | -   | Yes                     |
| T1 value for proof test interval or service life acc. to IEC 61508  | У   | 20                      |
| Protection against electrical shock                                 |     | finger-safe             |
| /lechanical data:   |     |                         |
| Size of contactor   |     | SO                      |
| Ambient conditions:   |     |                         |
| Installation altitude at height above sea level                     | m   | 2 000                   |
| maximum   |     |                         |
| Ambient temperature   |     | a                       |
| during operation  | °C  | -25 +60                 |
| during storage  | °C  | -55 +80                 |
| Certificates/ approvals:  |     |                         |
|   |     |                         |

| General Product                    | t Approval                  |  |              | EMC               | Functional<br>Safety/Safety<br>of Machinery |
|------------------------------------|-----------------------------|--|--------------|-------------------|---|
|                                    | (SA)<br>CSA                 | EHC  |              | С-ТІСК            | Type Examination                            |
| Declaration of<br>Conformity       | Test Certificate            | S  | Shipping App | proval            |   |
| EG-Konf.                           | Special Test<br>Certificate | <u>Type Test</u><br><u>Certificates/Test</u><br><u>Report</u>  | ABS          | BUREAU<br>VERITAS | ĴÅ<br>DNV<br>DNV                            |
| Shipping Approv                    | /al                         |  |              |                   | other                                       |
|                                    | I I an arka                 | A REAL PROVIDENCE OF THE PROVI | 2 INT        |                   | Confirmation                                |
| GL                                 |                             | PRS  | RINA         | RMRS              |   |
| GL<br>GL<br>Other<br>Environmental |                             | PRS  | RINA         | RMRS              |   |

### urther information

Information- and Downloadcenter (Catalogs, Brochures,...) http://www.siemens.com/industrial-controls/catalogs

#### Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

### Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT20282AF00

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RT20282AF00/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax\_de.aspx?mlfb=3RT20282AF00&lang=en





