## **SIEMENS**

Data sheet 3RV2811-1CD10



CIRCUIT-BREAKER SZ S00, FOR TRANSFORMER PROTECTION, WITH APPROBATION CIRCUIT-BREAKER UL 489. CSA C22.2 NO.5-02. A-RELEASE 2.5 A, N-RELEASE 52 A, SCREW CONNECTION, STANDARD SW. CAPACITY

| product brand name  | SIRIUS               |
|---------------------|----------------------|
| Product designation | 3RV2 circuit breaker |

| General technical data:                                    |    |                 |
|--|----|-----------------|
| Active power loss total typical                            | W  | 6               |
| Insulation voltage   |    |                 |
| <ul> <li>with degree of pollution 3 Rated value</li> </ul> | V  | 690             |
| Shock resistance   |    |                 |
| • acc. to IEC 60068-2-27                                   |    | 25g / 11 ms     |
| Surge voltage resistance Rated value                       | kV | 6               |
| Mechanical service life (switching cycles)                 |    |                 |
| <ul> <li>of the main contacts typical</li> </ul>           |    | 100 000         |
| <ul> <li>of the auxiliary contacts typical</li> </ul>      |    | 100 000         |
| Electrical endurance (switching cycles)                    |    |                 |
| • typical  |    | 100 000         |
| Temperature compensation                                   | °C | -20 <b>+</b> 60 |
| Protection class IP  |    |                 |
| • on the front   |    | IP20            |
| • of the terminal  |    | IP20            |
| Equipment marking  |    |                 |
| • acc. to DIN EN 81346-2                                   |    | Q               |

| Main circuit:   |   |         |
|---|---|---------|
| Number of poles for main current circuit  |   | 3       |
| Adjustable response value current of the current-<br>dependent overload release | Α | 2.5 2.5 |
| Operating voltage   |   |         |

| Rated value   | V   | 690     |
|---|-----|---------|
| • at AC-3 Rated value maximum                         | V   | 690     |
| Operating frequency Rated value                       | Hz  | 50 60   |
| Operating power                                       |     |         |
| • at AC-3   |     |         |
| — at 230 V Rated value                                | W   | 370     |
| — at 400 V Rated value                                | W   | 750     |
| — at 500 V Rated value                                | W   | 1 100   |
| — at 690 V Rated value                                | W   | 1 500   |
| Operating frequency                                   |     |         |
| • at AC-3 maximum                                     | 1/h | 15      |
| Auxiliary circuit:                                    |     |         |
| Number of NC contacts                                 |     |         |
| • for auxiliary contacts                              |     | 0       |
| Number of NO contacts                                 | _   |         |
| • for auxiliary contacts                              |     | 0       |
| Number of CO contacts                                 | -   |         |
| <ul> <li>for auxiliary contacts</li> </ul>            |     | 0       |
| Product expansion Auxiliary switch                    | _   | Yes     |
| Protective and monitoring functions:                  |     |         |
| Design of the overload circuit breaker                |     | thermal |
| Operational short-circuit current breaking capacity   |     |         |
| (Ics) with AC   |     | 400     |
| ● at 240 V Rated value                                | kA  | 100     |
| ● at 400 V Rated value                                | kA  | 100     |
| at 500 V Rated value                                  | kA  | 100     |
| • at 690 V Rated value                                | kA  | 10      |
| Maximum short-circuit current breaking capacity (Icu) |     |         |
| <ul><li>with AC at 240 V Rated value</li></ul>        | kA  | 100     |
| <ul> <li>with AC at 400 V Rated value</li> </ul>      | kA  | 100     |

| Short-circuit:  |            |  |
|---|------------|--|
| Product function Short circuit protection   | Yes        |  |
| Design of the short-circuit trip  | magnetic   |  |
| Design of the fuse link for IT network for short-circuit protection of the main circuit |            |  |
| ● at 400 V  | gL/gG 25 A |  |
| ● at 500 V  | gL/gG 25 A |  |
| ● at 690 V  | gL/gG 20 A |  |

| Installation/ mounting/ dimensions:          |    |  |
|--|----|--|
| mounting position                            |    | any  |
| Mounting type                                |    | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 |
| Height                                       | mm | 144  |
| 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 | 50   |
| — downwards                                  | mm | 50   |
| — at the side                                | mm | 0  |
| • for grounded parts                         |    |  |
| — forwards                                   | mm | 0  |
| — Backwards                                  | mm | 0  |
| — upwards                                    | mm | 50   |
| — at the side                                | mm | 30   |
| — downwards                                  | mm | 50   |
| • for live parts                             |    |  |
| — forwards                                   | mm | 0  |
| — Backwards                                  | mm | 0  |
| — upwards                                    | mm | 50   |
| — downwards                                  | mm | 50   |
| — at the side                                | mm | 30   |
|  |    |  |

| Connections/ Terminals:  |  |                      |
|--|--|----------------------|
| Type of electrical connection  |  |                      |
| for main current circuit   |  | screw-type terminals |
| Arrangement of electrical connectors for main current circuit          |  | Top and bottom       |
| Product function  removable terminal for auxiliary and control circuit |  | No                   |

| Type of connectable conductor cross-section                        |     |                           |
|--|-----|---------------------------|
| • for main contacts  |     |                           |
| <ul><li>— single or multi-stranded</li></ul>                       |     | 1 10 mm², max. 2x 10 mm²  |
| <ul> <li>finely stranded with core end processing</li> </ul>       |     | 1 16 mm², max. 6 + 16 mm² |
| <ul> <li>for AWG conductors for main contacts</li> </ul>           |     | 2x 14                     |
| Tightening torque  |     |                           |
| <ul> <li>for main contacts with screw-type terminals</li> </ul>    | N·m | 2.5 3                     |
| Design of screwdriver shaft  |     | Diameter 5 to 6 mm        |
| Design of the thread of the connection screw                       |     |                           |
| • for main contacts  |     | M4                        |
| Safety related data:   |     |                           |
| B10 value with high demand rate acc. to SN 31920                   |     | 50 000                    |
| Proportion of dangerous failures                                   |     |                           |
| <ul> <li>with low demand rate acc. to SN 31920</li> </ul>          | %   | 40                        |
| <ul> <li>with high demand rate acc. to SN 31920</li> </ul>         | %   | 40                        |
| Failure rate [FIT] with low demand rate acc. to SN 31920           | FIT | 50                        |
| T1 value for proof test interval or service life acc. to IEC 61508 | у   | 10                        |
| Protection against electrical shock                                |     | finger-safe               |
| Mechanical data:   |     |                           |
| Size of the circuit-breaker  |     | S00                       |
| Ambient conditions:  |     |                           |
| Installation altitude at height above sea level maximum            | m   | 2 000                     |
| Ambient temperature  |     |                           |
| <ul><li>during operation</li></ul>                                 | °C  | -20 <b>+</b> 60           |
| during storage   | °C  | -50 <b>+</b> 80           |
| during transport   | °C  | -50 <b>+</b> 80           |
| Relative humidity during operation                                 | %   | 10 95                     |
| Display:   |     |                           |
| Display version  |     |                           |
| • for switching status   |     | Handle                    |
| Certificates/ approvals:   |     |                           |
|  |     |                           |

#### **General Product Approval**

# Declaration of Conformity

#### **Test Certificates**









Special Test Certificate Type Test
Certificates/Test
Report

### **Shipping Approval**













Shipping Approval

other

pprovide the second

Environmental Confirmations

Confirmation



other

#### Further 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=3RV28111CD10

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RV28111CD10/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=3RV28111CD10&lang=en





