## **SIEMENS**

Product data sheet 3RV2111-0AA10



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, W. OVERLOAD RELAY FUNCTION A-RELEASE 0.11...0.16A, N-RELEASE2.1A SCREW CONNECTION, STANDARD SW. CAPACITY

| General technical data:  |    |                      |
|--|----|----------------------|
| Product brand name   |    | SIRIUS               |
| product designation  |    | 3RV2 circuit breaker |
| Size of the circuit-breaker  |    | S00                  |
| Trip class   |    | CLASS 10             |
| Protection class IP / on the front   |    | IP20                 |
| Degree of pollution  |    | 3                    |
| Installation altitude / at a height over sea level / maximum                                     | m  | 2,000                |
| Ambient temperature  |    |                      |
| during storage   | °C | -50 80               |
| during operating   | °C | -20 60               |
| during transport   | °C | -50 80               |
| Resistance against shock   |    | 25g / 11 ms          |
| Impulse voltage resistance / rated value   | kV | 6                    |
| Insulation voltage / rated value   | V  | 690                  |
| Active power loss / total / typical  | W  | 5.5                  |
| Item designation   |    |                      |
| <ul> <li>according to DIN 40719 extendable after IEC 204-2 / according<br/>to IEC 750</li> </ul> |    | F                    |
| according to DIN EN 61346-2  |    | F                    |

| Mechanical operating cycles as operating time        |   |                 |
|--|---|-----------------|
| of the main contacts / typical                       |   | 100,000         |
| of the auxiliary contacts / typical                  |   | 100,000         |
|  |   |                 |
| Design of the auxiliary switch                       |   | laterally       |
| Type of the driving mechanism / motor drive          |   | No              |
| Design of the operating mechanism                    |   | selector switch |
| Product function                                     |   |                 |
| overload protection                                  |   | Yes             |
| phase disturbance recognition                        |   | Yes             |
| Product component                                    |   |                 |
| auxiliary switch                                     |   | Yes             |
| undervoltage release mechanism                       |   | No              |
| trip indicator                                       |   | No              |
| Product extension / optional / motor drive           |   | No              |
| Main circuit:  |   |                 |
| Number of poles / for main current circuit           |   | 3               |
| Operating voltage / at AC-3 / rated value / maximum  | V | 690             |
| Operating current / at AC-3 / at 400 V / rated value | A | 0.16            |
| Service power / at AC-3                              |   |                 |
| • at 400 V / rated value                             | W | 40              |
| at 500 V / rated value                               | W | 60              |

| Number of poles / for main current circuit                              |     | 3              |
|---|-----|----------------|
| Operating voltage / at AC-3 / rated value / maximum                     | V   | 690            |
| Operating current / at AC-3 / at 400 V / rated value                    | Α   | 0.16           |
| Service power / at AC-3   |     |                |
| • at 400 V / rated value  | W   | 40             |
| • at 500 V / rated value  | W   | 60             |
| • at 690 V / rated value  | W   | 60             |
| Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum | 1/h | 15             |
| Arrangement of electrical connectors / for main current circuit         |     | Top and bottom |
| Adjustable response current   |     |                |
| • of the non-delayed short-circuit release                              | Α   | 2.1 2.1        |
| of the current-dependent overload release                               | Α   | 0.11 0.16      |
| Service power / at AC-3 / at 230 V / rated value                        | W   | 20             |
| Continuous current / rated value  | А   | 0.16           |

| Auxiliary circuit:   |     |
|--|-----|
| Product extension / auxiliary switch                                     | Yes |
| Number of NC contacts / for auxiliary contacts / instantaneous switching | 1   |
| Number of NO contacts / for auxiliary contacts / instantaneous switching | 1   |
| Number of change-over switches / for auxiliary contacts                  | 0   |
| Operating current / of the auxiliary contacts                            |     |
| • at AC-15   |     |

| • at 24 V  | Α | 1.5 |
|------------|---|-----|
| • at 230 V | Α | 1.5 |
| • at DC-13 |   |     |
| • maximum  | Α | 1.5 |
| • at 24 V  | Α | 1   |

| Inputs/ Outputs:         |   |
|--------------------------|---|
| Number of digital inputs | 0 |

| Short-circuit:  |   |                              |
|---|---|------------------------------|
| Breaking capacity limit short-circuit current (Icu)                                       |   |                              |
| • at 400 V / rated value  | Α | 100,000                      |
| • at 500 V / rated value  | Α | 100,000                      |
| • at 690 V / rated value  | Α | 100,000                      |
| Design of the fuse link / for short-circuit protection of the auxiliary switch / required |   | fuse gL/gG: 6 A, quick: 10 A |
| Design of the overcurrent release and short-circuit release                               |   | thermomagnetic               |

| Installation/mounting/dimensions:                 |    |  |
|---|----|--|
| Built in orientation                              |    | any  |
| Type of mounting                                  |    | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 |
| Width   | mm | 65   |
| Height  | mm | 97   |
| Depth   | mm | 91   |
| Distance, to be maintained, to the ranks assembly |    |  |
| • forwards  | mm | 0  |
| • backwards                                       | mm | 0  |
| • upwards   | mm | 50   |
| • downwards                                       | mm | 50   |
| • sidewards                                       | mm | 0  |
| Distance, to be maintained, to earthed part       |    |  |
| • forwards  | mm | 0  |
| • backwards                                       | mm | 0  |
| • upwards   | mm | 50   |
| • sidewards                                       | mm | 30   |
| • downwards                                       | mm | 50   |
| Distance, to be maintained, conductive elements   |    |  |
| • forwards  | mm | 0  |
| • backwards                                       | mm | 0  |
| • upwards   | mm | 50   |
| • downwards                                       | mm | 50   |

| • sidewards | mm | 30 |
|-------------|----|----|
|             |    |    |

| Connections:   |                                     |
|--|-------------------------------------|
| Product function   |                                     |
| • removable terminal for main circuit                                    | No                                  |
| <ul> <li>removable terminal for auxiliary and control circuit</li> </ul> | No                                  |
| Design of the electrical connection                                      |                                     |
| for main current circuit   | screw-type terminals                |
| for auxiliary and control current circuit                                | screw-type terminals                |
| Type of the connectable conductor cross-section                          |                                     |
| • for main contacts  |                                     |
| • solid  | 2x (0.75 2.5 mm²), 2x (1 4 mm²)     |
| • stranded   | 2x (0.75 2.5 mm²), 2x 4 mm²         |
| • finely stranded  |                                     |
| <ul> <li>with conductor end processing</li> </ul>                        | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| • for AWG conductors / for main contacts                                 | 2x (18 14), 2x 12                   |
| • for auxiliary contacts   |                                     |
| • solid  | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| • finely stranded  |                                     |
| <ul> <li>with conductor end processing</li> </ul>                        | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| for AWG conductors / for auxiliary contacts                              | 2x (20 16), 2x (18 14)              |

| Certifica | ates/ap | provals: |
|-----------|---------|----------|
|           |         |          |

• für Staubexplosionsschutz für Zone 21/22 no

• for gas explosion protection for zone 1/2

General Product Approval Test Certificates





ROSTEST



no

Manufacturer

## **Shipping Approval**





GL









other

Manufacturer other



| UL/CSA ratings  |             |
|---|-------------|
| Contact rating designation / for auxiliary contacts / according to UL | C600 / R300 |

| Safety:  |     |             |  |
|--|-----|-------------|--|
| B10 value / with high demand rate                  |     |             |  |
| according to SN 31920                              |     | 50,000      |  |
| T1 value / for proof test interval or service life |     |             |  |
| according to IEC 61508                             | а   | 10          |  |
| Failure rate (FIT value) / with low demand rate    |     |             |  |
| according to SN 31920                              | FIT | 50          |  |
| Proportion of dangerous failures                   |     |             |  |
| • with low demand rate / according to SN 31920     | %   | 40          |  |
| with high demand rate / according to SN 31920      | %   | 40          |  |
| Protection against electrical shock                |     | finger-safe |  |

## Further information:

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

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

http://www.siemens.com/industrial-controls/mall

## **CAx-Online-Generator**

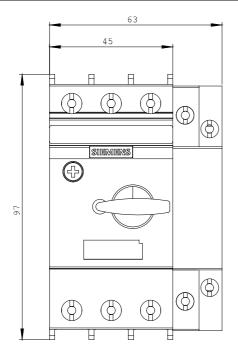
http://www.siemens.com/cax

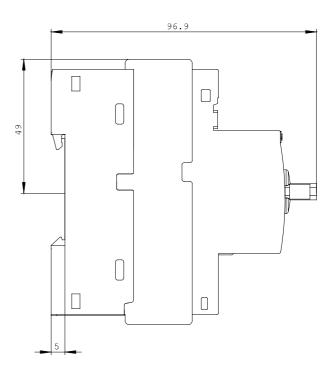
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

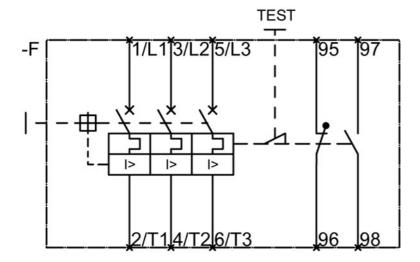
http://support.automation.siemens.com/WW/view/en/3RV2111-0AA10/all

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax\_en.aspx?mlfb=3RV2111-0AA10}$ 







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