

**3RV2011-1DA10** CIRCUIT-BREAKER SCREW CONNECTION 3.2A

Technical / CAx data

Technical Data  CAx data



CIRCUIT-BREAKER SZ S00, FOR MOTOR PROTECTION, CLASS 10, A-REL.2.2...3.2A, N-RELEASE 42A, 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 6.9                |
| Item designation   |                      |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | 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              |
| Type of the driving mechanism / motor drive                                | No                   |
| Design of the operating mechanism  | selector switch      |
| Product function   |                      |
| • overload protection  | Yes                  |

|  |     |
|--|-----|
| <ul style="list-style-type: none"> <li>• phase disturbance recognition</li> </ul>  | Yes |
| <b>Product component</b>   |     |
| <ul style="list-style-type: none"> <li>• auxiliary switch</li> <li>• undervoltage release mechanism</li> <li>• trip indicator</li> </ul> | No  |
| <b>Product extension / optional / motor drive</b>  | No  |

#### Main circuit:

|   |     |                |
|---|-----|----------------|
| <b>Number of poles / for main current circuit</b>   |     | 3              |
| <b>Operating voltage / at AC-3 / rated value / maximum</b>  | V   | 690            |
| <b>Operating current / at AC-3 / at 400 V / rated value</b>   | A   | 2.7            |
| <b>Service power / at AC-3</b>  |     |                |
| <ul style="list-style-type: none"> <li>• at 400 V / rated value</li> <li>• at 500 V / rated value</li> <li>• at 690 V / rated value</li> </ul>    | W   | 1,100          |
|   | W   | 1,500          |
|   | W   | 2,200          |
| <b>Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum</b>  | 1/h | 15             |
| <b>Arrangement of electrical connectors / for main current circuit</b>  |     | Top and bottom |
| <b>Adjustable response current</b>  |     |                |
| <ul style="list-style-type: none"> <li>• of the non-delayed short-circuit release</li> <li>• of the current-dependent overload release</li> </ul> | A   | 42...42        |
|   | A   | 2.2...3.2      |
| <b>Service power / at AC-3 / at 230 V / rated value</b>   | W   | 550            |
| <b>Continuous current / rated value</b>   | A   | 3.2            |

#### Auxiliary circuit:

|   |     |
|---|-----|
| <b>Product extension / auxiliary switch</b>                                     | Yes |
| <b>Number of NC contacts / for auxiliary contacts / instantaneous switching</b> | 0   |
| <b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b> | 0   |
| <b>Number of change-over switches / for auxiliary contacts</b>                  | 0   |

#### Inputs/ Outputs:

|                                 |   |
|---------------------------------|---|
| <b>Number of digital inputs</b> | 0 |
|---------------------------------|---|

#### Short-circuit:

|  |   |                |
|--|---|----------------|
| <b>Breaking capacity limit short-circuit current (I<sub>cu</sub>)</b>  |   |                |
| <ul style="list-style-type: none"> <li>• at 400 V / rated value</li> <li>• at 500 V / rated value</li> <li>• at 690 V / rated value</li> </ul> | A | 100,000        |
|  | A | 100,000        |
|  | A | 10,000         |
| <b>Design of the overcurrent release and short-circuit release</b>   |   | thermomagnetic |

#### Installation/mounting/dimensions:

|   |    |  |
|---|----|--|
| <b>Built in orientation</b>   |    | any  |
| <b>Type of mounting</b>   |    | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 |
| <b>Width</b>  | mm | 45   |
| <b>Height</b>   | mm | 97   |
| <b>Depth</b>  | mm | 91   |
| <b>Distance, to be maintained, to the ranks assembly</b>  |    |  |
| <ul style="list-style-type: none"> <li>• forwards</li> <li>• backwards</li> <li>• upwards</li> <li>• downwards</li> <li>• sideways</li> </ul> | mm | 0  |
|   | mm | 0  |
|   | mm | 50   |
|   | mm | 50   |
|   | mm | 0  |
| <b>Distance, to be maintained, to earthed part</b>  |    |  |
| <ul style="list-style-type: none"> <li>• forwards</li> </ul>  | mm | 0  |
|   | mm | 0  |

|   |       |
|---|-------|
| <ul style="list-style-type: none"> <li>backwards</li> <li>upwards</li> <li>sideways</li> <li>downwards</li> </ul>                   | mm 50 |
|   | mm 30 |
|   | mm 50 |
| <b>Distance, to be maintained, conductive elements</b>  |       |
| <ul style="list-style-type: none"> <li>forwards</li> <li>backwards</li> <li>upwards</li> <li>downwards</li> <li>sideways</li> </ul> | mm 0  |
|   | mm 0  |
|   | mm 50 |
|   | mm 50 |
|   | mm 30 |

|  |  |
|--|--|
| <b>Connections:</b>  |  |
| <b>Product function</b>  |  |
| <ul style="list-style-type: none"> <li>removable terminal for main circuit</li> <li>removable terminal for auxiliary and control circuit</li> </ul>  | No<br>No   |
| <b>Design of the electrical connection</b>   |  |
| <ul style="list-style-type: none"> <li>for main current circuit</li> </ul>   | screw-type terminals   |
| <b>Type of the connectable conductor cross-section</b>   |  |
| <ul style="list-style-type: none"> <li>for main contacts</li> <li>solid</li> <li>finely stranded</li> <li>with conductor end processing</li> <li>for AWG conductors / for main contacts</li> </ul> | 2x (0.75 ... 2.5 mm <sup>2</sup> ), 2x 4 mm <sup>2</sup><br><br>2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> )<br>2x (18 ... 14), 2x 12 |

|   |               |
|---|---------------|
| <b>Certificates/approvals:</b>  |               |
| <b>Verification of suitability</b>  | CE / UL / CSA |
| <ul style="list-style-type: none"> <li>für Staubexplosionsschutz für Zone 21/22</li> <li>for gas explosion protection for zone 1/2</li> </ul> | no<br>no      |

|   |   |
|---|---|
| <b>General Product Approval</b>   | <b>For use in hazardous locations</b>           |
| <input checked="" type="checkbox"/> CCC <input checked="" type="checkbox"/> CSA <input checked="" type="checkbox"/> GOST <input checked="" type="checkbox"/> UL | <input checked="" type="checkbox"/> ATEX-EC-Typ |

|                          |                          |                                    |
|--------------------------|--------------------------|------------------------------------|
| <b>Test Certificates</b> |                          |                                    |
| other                    | Special Test Certificate | Type Test Certificates/Test Report |

|  |   |  |  |  |   |
|--|---|--|--|--|---|
| <b>Shipping Approval</b>                           |   |  |  |  |   |
| <input checked="" type="checkbox"/> ABS (Americas) | <input checked="" type="checkbox"/> GL / Germanis | <input checked="" type="checkbox"/> LRS / Lloyds | <input checked="" type="checkbox"/> PRS / Polski R | <input checked="" type="checkbox"/> RINA / Registr | <input checked="" type="checkbox"/> RMRS / Russia |

|  |                                 |
|--|---------------------------------|
| <b>other</b>                                     |                                 |
| <input checked="" type="checkbox"/> Household ar | Declaration of Conformity other |

|   |  |
|---|--|
| <b>UL/CSA ratings</b>   |  |
| <b>yielded mechanical performance (hp)</b>  |  |
| <ul style="list-style-type: none"> <li>for single-phase squirrel cage motors</li> <li>at 110/120 V / rated value</li> <li>at 230 V / rated value</li> <li>for three-phase squirrel cage motors</li> <li>at 200/208 V / rated value</li> <li>at 220/230 V / rated value</li> <li>at 460/480 V / rated value</li> <li>at 575/600 V / rated value</li> </ul> | hp 0.1<br>hp 0.25<br><br>hp 0.5<br>hp 0.75<br>hp 1.5<br>hp 2 |
| <b>Operating current (FLA) / for three-phase squirrel cage motors</b>   | A 3  |

- at 480 V / rated value
- at 600 V / rated value

A 2.7

**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

a 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
- with high demand rate / according to SN 31920

% 40

% 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**

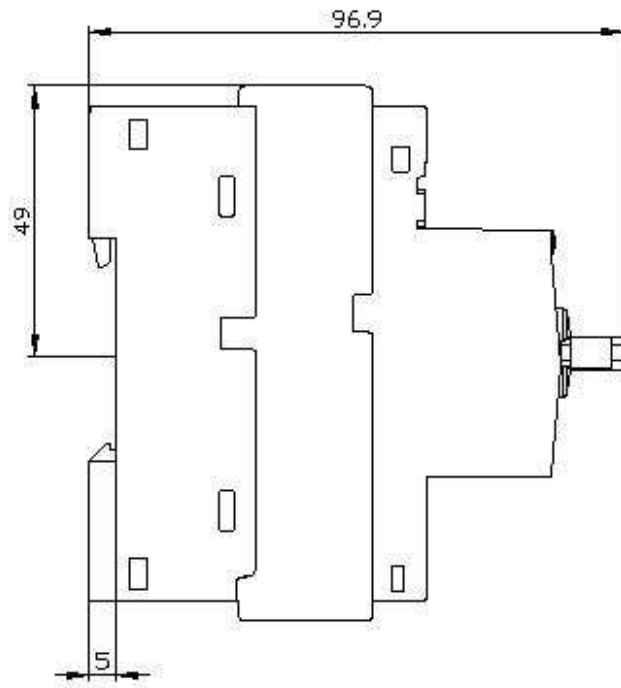
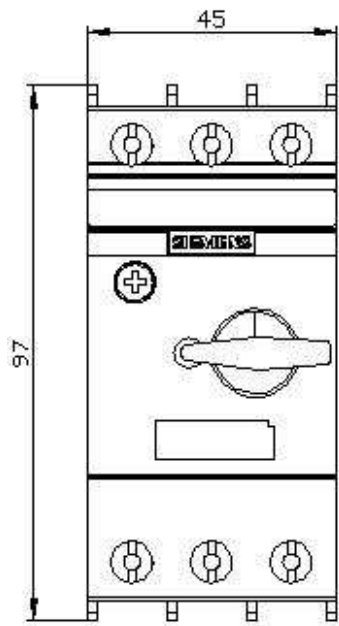
<http://www.siemens.com/cax>

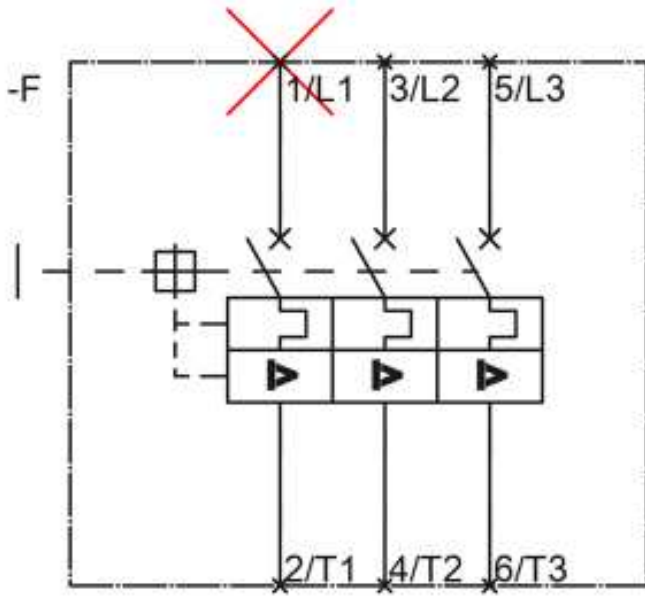
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3RV2011-1DA10/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mfb=3RV2011-1DA10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mfb=3RV2011-1DA10)





last change:

Mar 27, 2012