



CIRCUIT BREAKER SZ S00,  
FOR MOTOR PROTECTION, CLASS 10,  
A-REL. 1.4...2A, N-REL. 26A,  
SCREW CONNECTION,  
STANDARD SWITCHING CAPACITY MULTI UNIT  
PACKAGE PACKAGE = 12 UNITS

### General technical data:

|                                                        |    |                      |
|--------------------------------------------------------|----|----------------------|
| product brand name                                     |    | SIRIUS               |
| product designation                                    |    | 3RV2 circuit breaker |
| Size of the circuit-breaker                            |    | S00                  |
| Number of poles / for main current circuit             |    | 3                    |
| Product function                                       |    |                      |
| • removable terminal for auxiliary and control circuit |    | No                   |
| • overload protection                                  |    | Yes                  |
| • phase disturbance recognition                        |    | Yes                  |
| • short-circuit to earth recognition                   |    | No                   |
| Product component                                      |    |                      |
| • auxiliary switch                                     |    | No                   |
| • undervoltage release mechanism                       |    | No                   |
| • trip indicator                                       |    | No                   |
| Product extension                                      |    |                      |
| • auxiliary switch                                     |    | Yes                  |
| • optional / motor drive                               |    | No                   |
| Impulse voltage resistance / rated value               | kV | 6                    |
| Protection class IP / on the front                     |    | IP20                 |
| Protection against electrical shock                    |    | finger-safe          |

|                                                                     |    |             |
|---------------------------------------------------------------------|----|-------------|
| <b>Installation altitude / at a height over sea level / maximum</b> | m  | 2,000       |
| <b>Resistance against shock</b>                                     |    | 25g / 11 ms |
| <b>Ambient temperature</b>                                          |    |             |
| • during transport                                                  | °C | -50 ... +80 |
| • during storage                                                    | °C | -50 ... +80 |
| • during operating                                                  | °C | -20 ... +60 |
| <b>Active power loss / total / typical</b>                          | W  | 6           |

#### Main circuit:

|                                                                                       |     |         |
|---------------------------------------------------------------------------------------|-----|---------|
| <b>Service power / at AC-3</b>                                                        |     |         |
| • at 400 V / rated value                                                              | W   | 750     |
| • at 500 V / rated value                                                              | W   | 750     |
| • at 690 V / rated value                                                              | W   | 1,100   |
| <b>Operational current / at AC-3 / at 400 V / rated value</b>                         | A   | 2       |
| <b>Mechanical operating cycles as operating time / of the main contacts / typical</b> |     | 100,000 |
| <b>Frequency of operation / at AC-3 / according to IEC 60947-6-2</b>                  | 1/h | 15      |

#### Auxiliary circuit:

|                                                                                            |  |         |
|--------------------------------------------------------------------------------------------|--|---------|
| <b>Number of change-over switches / for auxiliary contacts</b>                             |  | 0       |
| <b>Mechanical operating cycles as operating time / of the auxiliary contacts / typical</b> |  | 100,000 |

#### Protection function:

|                                                                                |   |           |
|--------------------------------------------------------------------------------|---|-----------|
| <b>Trip class</b>                                                              |   | CLASS 10  |
| <b>Adjustable response current / of the current-dependent overload release</b> | A | 1.4 ... 2 |
| <b>Breaking capacity limit short-circuit current (I<sub>cu</sub>)</b>          |   |           |
| • at 400 V / rated value                                                       | A | 100,000   |
| • at 500 V / rated value                                                       | A | 100,000   |
| • at 690 V / rated value                                                       | A | 10,000    |

#### Safety:

|                                                                                    |     |        |
|------------------------------------------------------------------------------------|-----|--------|
| <b>Proportion of dangerous failures</b>                                            |     |        |
| • with high demand rate / according to SN 31920                                    | %   | 40     |
| • with low demand rate / according to SN 31920                                     | %   | 40     |
| <b>Failure rate (FIT value) / with low demand rate / according to SN 31920</b>     | FIT | 50     |
| <b>B10 value / with high demand rate / according to SN 31920</b>                   |     | 50,000 |
| <b>T1 value / for proof test interval or service life / according to IEC 61508</b> | a   | 10     |

#### Installation/mounting/dimensions:

|                   |    |                                                                                        |
|-------------------|----|----------------------------------------------------------------------------------------|
| Type of mounting  |    | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 |
| mounting position |    | any                                                                                    |
| Depth             | mm | 96                                                                                     |
| Height            | mm | 97                                                                                     |
| Width             | mm | 45                                                                                     |

#### Connections:

|                                                                                                                                                                                                              |  |                                                                                                                                                                    |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Arrangement of electrical connectors / for main current circuit                                                                                                                                              |  | Top and bottom                                                                                                                                                     |
| Design of the electrical connection                                                                                                                                                                          |  | screw-type terminals                                                                                                                                               |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>                                                                                                                                 |  |                                                                                                                                                                    |
| Type of the connectable conductor cross-section                                                                                                                                                              |  |                                                                                                                                                                    |
| <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><br>2x (18 ... 14), 2x 12 |

#### UL/CSA ratings:

|                                                                                                                                                                                                                                                         |                        |                            |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|----------------------------|
| yielded mechanical performance (hp)                                                                                                                                                                                                                     |                        |                            |
| <ul style="list-style-type: none"> <li>• for single-phase squirrel cage motors</li> <li>• at 230 V / rated value</li> <li>• for three-phase squirrel cage motors</li> <li>• at 460/480 V / rated value</li> <li>• at 575/600 V / rated value</li> </ul> | hp<br><br>hp<br><br>hp | 0.125<br><br>0.75<br><br>1 |
| Operating current (FLA) / for three-phase squirrel cage motors                                                                                                                                                                                          |                        |                            |
| <ul style="list-style-type: none"> <li>• at 480 V / rated value</li> <li>• at 600 V / rated value</li> </ul>                                                                                                                                            | A<br><br>A             | 1.6<br><br>1.7             |

#### Certificates/approvals:

| General Product Approval                                                                   | For use in hazardous locations                                                            | Declaration of Conformity                                                                   | Test Certificates                                                                               |                                                                                                    |
|--------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| <br>CSA | <br>UL | <br>ATEX | <br>EG-Konf. | <a href="#">Special Test Certificate</a><br><br><a href="#">Type Test Certificates/Test Report</a> |
| Shipping Approval                                                                          | other                                                                                     |                                                                                             |                                                                                                 |                                                                                                    |
| <br>DNV | <a href="#">other</a>                                                                     |                                                                                             |                                                                                                 |                                                                                                    |

#### Further information:

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

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

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**Industry Mall (Online ordering system)**

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

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**Cax online generator:**

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

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

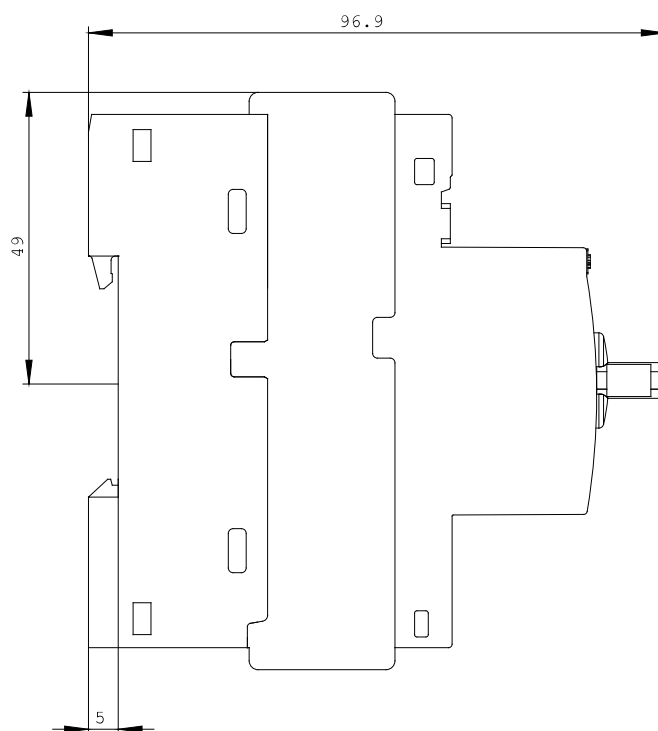
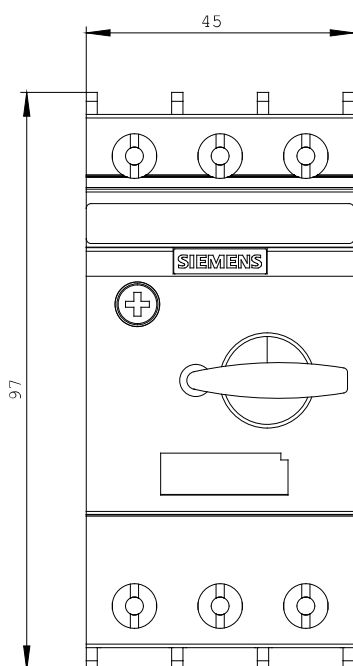
<http://support.automation.siemens.com/WW/view/en/3RV2011-1BA10-ZW97/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV2011-1BA10-ZW97](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1BA10-ZW97)

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**last change:**

Feb 14, 2013