



CIRCUIT-BREAKER SZ S00,  
FOR MOTOR PROTECTION, CLASS 10,  
A-REL. 1.4...2A, N-RELEASE 26A,  
SCREW CONNECTION, STANDARD SW. CAPACITY

| 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>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>Operating voltage / rated value</b>  | V   | 690     |
| <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>Operating 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 / with AC-3 / maximum</b>                                   | 1/h | 15      |

#### Auxiliary circuit:

|  |  |         |
|--|--|---------|
| <b>Number of changeover contacts / 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 |

#### 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:

|                          |    |  |
|--------------------------|----|--|
| <b>Mounting type</b>     |    | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 60715 |
| <b>mounting position</b> |    | any  |
| <b>Depth</b>             | mm | 96   |
| <b>Height</b>            | mm | 97   |

|              |    |    |
|--------------|----|----|
| <b>Width</b> | mm | 45 |
|--------------|----|----|

| <b>Connections:</b>   |  |  |
|---|--|--|
| <b>Arrangement of electrical connectors / for main current circuit</b>  |  | Top and bottom   |
| <b>Design of the electrical connection</b>  |  | screw-type terminals   |
| <ul style="list-style-type: none"> <li>• for main current circuit</li> </ul>  |  |  |
| <b>Type of the connectable conductor cross-section</b>  |  |  |
| <ul style="list-style-type: none"> <li>• for main contacts <ul style="list-style-type: none"> <li>• finely stranded <ul style="list-style-type: none"> <li>• with conductor end processing</li> </ul> </li> </ul> </li> <li>• for AWG conductors / for main contacts</li> </ul> |  | 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>UL/CSA ratings:</b>  |                |                    |
|---|----------------|--------------------|
| <b>yielded mechanical performance (hp)</b>  |                |                    |
| <ul style="list-style-type: none"> <li>• for single-phase squirrel cage motors <ul style="list-style-type: none"> <li>• at 230 V / rated value</li> </ul> </li> <li>• for three-phase squirrel cage motors <ul style="list-style-type: none"> <li>• at 460/480 V / rated value</li> <li>• at 575/600 V / rated value</li> </ul> </li> </ul> | hp<br>hp<br>hp | 0.125<br>0.75<br>1 |
| <b>Full-load current (FLA) / for 3-phase motor</b>  |                |                    |
| <ul style="list-style-type: none"> <li>• at 480 V / rated value</li> <li>• at 600 V / rated value</li> </ul>  | A<br>A         | 1.6<br>1.7         |

| <b>Certificates/approvals:</b>  |   |   |   |   |   |
|---|---|---|---|---|---|
| <b>General Product Approval</b>   |   |   | <b>Declaration of Conformity</b>  | <b>Test Certificates</b>  |   |
|  |  |  |  | <a href="#">Special Test Certificate</a>  | <a href="#">Type Test Certificates/Test Report</a>                                    |
| CCC   | EAC   | UL  | EG-Konf.  |   |   |
| <b>Shipping Approval</b>  |   |   |   |   |   |
|  |  |  |  |  |  |
| ABS   | BUREAU VERITAS  | DNV   | GL  | LRS   | PRS   |
| <b>Shipping Approval</b>  |   |   | <b>other</b>  |   |   |
|  |  | <a href="#">Confirmation</a>  |  | <a href="#">other</a>   | <a href="#">Environmental Confirmations</a>   |
| RINA  | RMRS  |   | VDE   |   |   |

**Further information:**

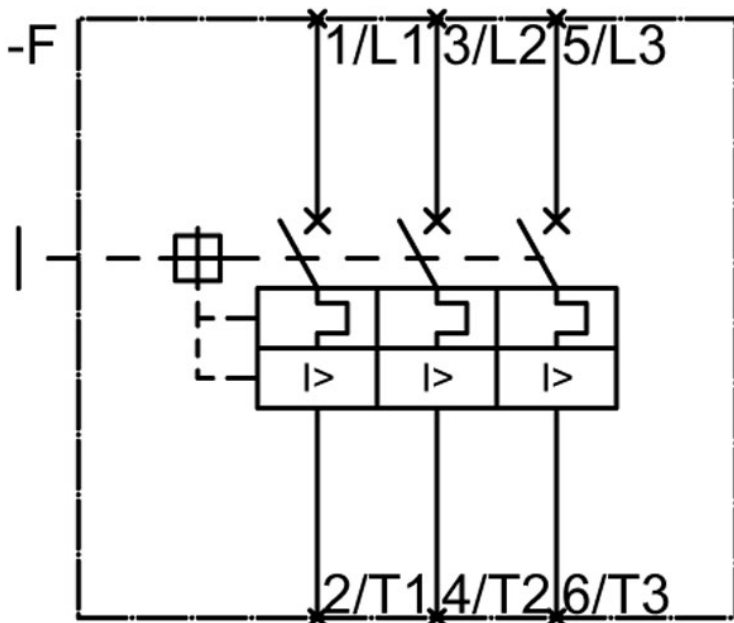
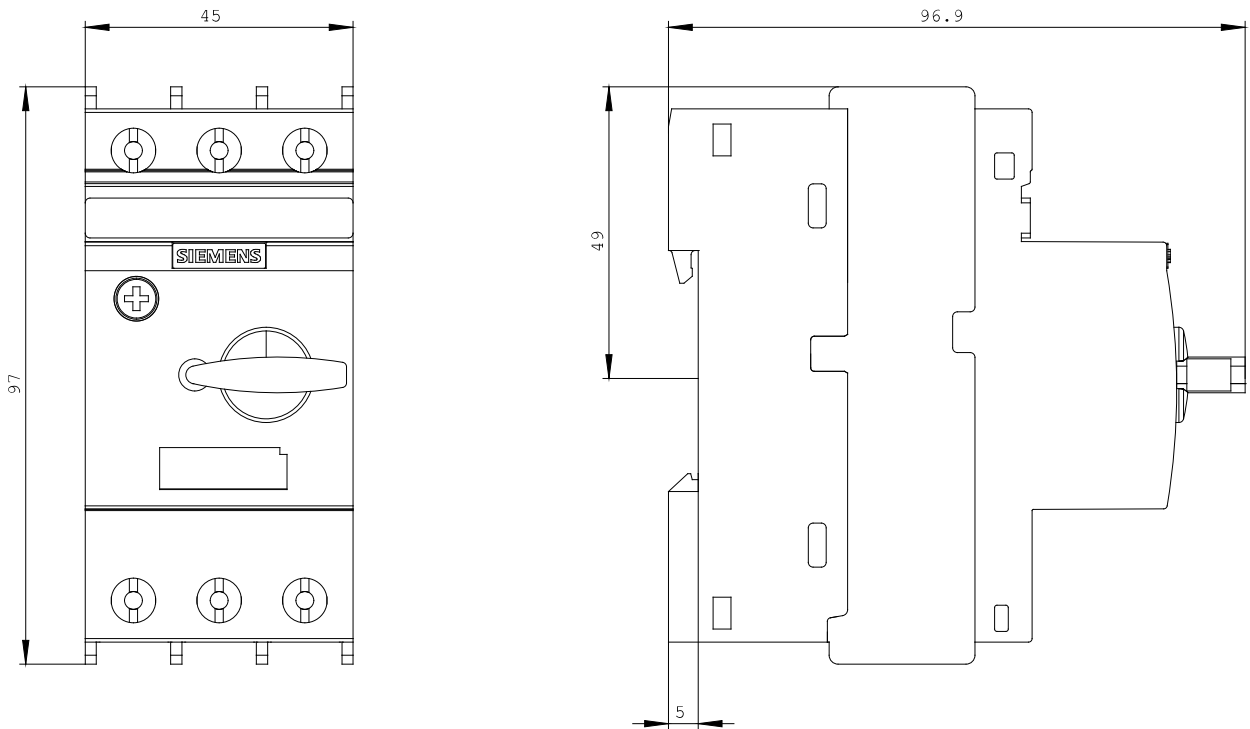
**Information- and Downloadcenter (Catalogs, Brochures,...)**  
<http://www.siemens.com/industrial-controls/catalogs>

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/3RV2011-1BA10/all>

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)  
[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV2011-1BA10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2011-1BA10)



last change:

Apr 5, 2014