



CIRCUIT-BREAKER SZ S00,  
FOR TRANSFORMER PROT. A-RELEASE1.1...1.6 A,  
N-RELEASE 33A SPRING-L. 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                                                             |  |                      |
| • short circuit protection                                                   |  | Yes                  |
| • overload protection                                                        |  | Yes                  |
| • phase disturbance recognition                                              |  | Yes                  |
| • plant protection                                                           |  | No                   |
| • motor protection                                                           |  | No                   |
| • motor protection with relais overload functionality                        |  | No                   |
| • starter protection                                                         |  | No                   |
| • transformer protection                                                     |  | Yes                  |
| • disconnecter functionality                                                 |  | Yes                  |
| • main control switches with supply disconnect function and EM-STOP switches |  | No                   |
| Design of the operating mechanism                                            |  | selector switch      |
| Product component                                                            |  |                      |
| • auxiliary switch                                                           |  | No                   |
| • undervoltage release mechanism                                             |  | No                   |

|                                                                      |    |             |
|----------------------------------------------------------------------|----|-------------|
| • trip indicator                                                     |    | No          |
| <b>Product extension</b>                                             |    |             |
| • auxiliary switch                                                   |    | Yes         |
| • optional / motor drive                                             |    | No          |
| <b>Insulation voltage / with degree of pollution 3 / rated value</b> | V  | 690         |
| <b>Impulse voltage resistance / rated value</b>                      | kV | 6           |
| <b>Protection class IP</b>                                           |    |             |
| • of the terminal                                                    |    | IP20        |
| • on the front                                                       |    | IP20        |
| <b>Protection against electrical shock</b>                           |    | finger-safe |
| <b>Installation altitude / at a height over sea level / maximum</b>  | m  | 2,000       |
| <b>Relative humidity</b>                                             |    |             |
| • during operating phase                                             | %  | 10 ... 95   |
| <b>Ambient temperature</b>                                           |    |             |
| • during transport                                                   | °C | -50 ... +80 |
| • during storage                                                     | °C | -50 ... +80 |
| • during operating                                                   | °C | -20 ... +60 |
| <b>Shock resistance / according to IEC 60068-2-27</b>                |    | 25g / 11 ms |
| <b>Active power loss / total / typical</b>                           | W  | 6           |

#### Main circuit:

|                                                             |    |           |
|-------------------------------------------------------------|----|-----------|
| <b>Operating voltage / rated value</b>                      | V  | 690       |
| <b>Voltage type / for main circuit</b>                      |    | AC/DC     |
| <b>Operating frequency</b>                                  |    |           |
| • rated value                                               | Hz | 50 ... 60 |
| <b>Operating current / at AC-3 / at 400 V / rated value</b> | A  | 1.6       |

#### Protective and monitoring functions:

|                                                                                |    |             |
|--------------------------------------------------------------------------------|----|-------------|
| <b>Varification of suitability / ATEX</b>                                      |    | No          |
| <b>Design of the overload circuit breaker</b>                                  |    | thermal     |
| <b>Adjustable response current / of the current-dependent overload release</b> | A  | 1.1 ... 1.6 |
| <b>Trip class</b>                                                              |    | CLASS 10    |
| <b>Design of the short-circuit trip</b>                                        |    | magnetic    |
| <b>Operational short-circuit current breaking capacity (Ics) / with AC</b>     |    |             |
| • 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 | 100         |
| <b>Breaking capacity maximum short-circuit current (Icu)</b>                   |    |             |

|                                                                                                  |    |            |
|--------------------------------------------------------------------------------------------------|----|------------|
| • at 240 V / for AC / rated value                                                                | kA | 100        |
| • at 400 V / for AC / rated value                                                                | kA | 100        |
| • at 500 V / for AC / rated value                                                                | kA | 100        |
| • at 690 V / for AC / rated value                                                                | kA | 100        |
| <b>Design of fuse insert / for IT network / for short-circuit protection of the main circuit</b> |    |            |
| • at 500 V                                                                                       |    | gL/gG 20 A |
| • at 690 V                                                                                       |    | gL/gG 16 A |
| <b>Breaking capacity short-circuit current (I<sub>cn</sub>)</b>                                  |    |            |
| • with 1 current path / at 150 V / for DC / rated value                                          | kA | 10         |
| • with 2 current paths in series / at 300 V / for DC / rated value                               | kA | 10         |
| • with 3 current paths in series / at 450 V / for DC / rated value                               | kA | 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 | 106                                                                                    |
| <b>Width</b>             | mm | 45                                                                                     |

#### Connections/ terminals:

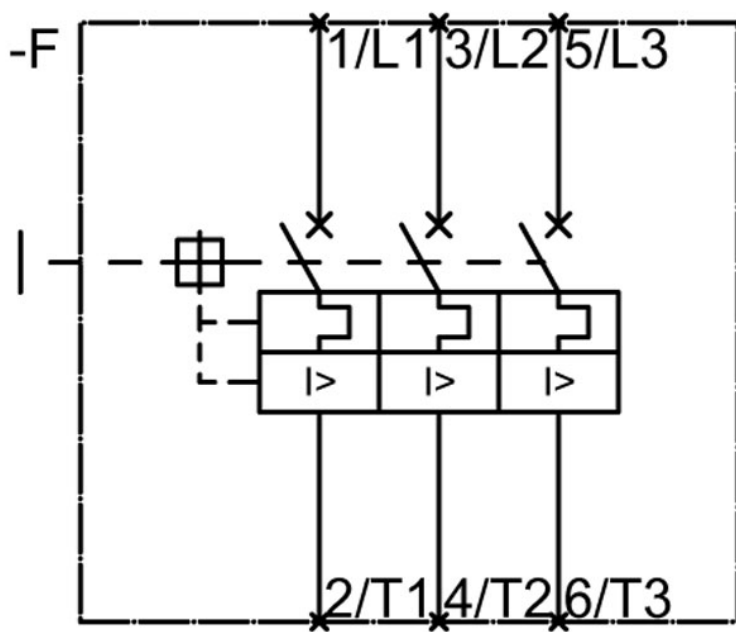
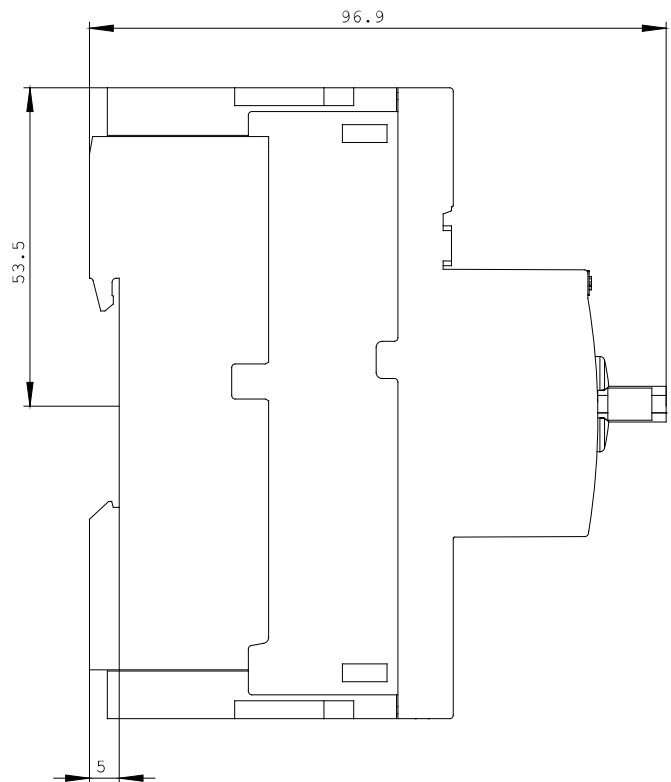
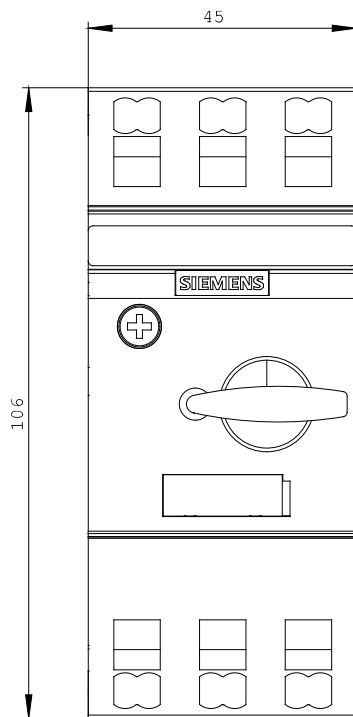
|                                                                        |  |                         |
|------------------------------------------------------------------------|--|-------------------------|
| <b>Arrangement of electrical connectors / for main current circuit</b> |  | Top and bottom          |
| <b>Design of the electrical connection / for main current circuit</b>  |  | spring-loaded terminals |
| <b>Type of the connectable conductor cross-section</b>                 |  |                         |
| • for main contacts                                                    |  |                         |
| • solid or multi-stranded                                              |  | 2x (0,5 ... 4 mm²)      |
| • finely stranded                                                      |  |                         |
| • without conductor final cutting                                      |  | 2x (0.5 ... 2.5 mm²)    |
| • with conductor end processing                                        |  | 2x (0.5 ... 2.5 mm²)    |
| • for AWG conductors / for main contacts                               |  | 2x (20 ... 12)          |

#### UL/CSA ratings:

|                                                                |   |     |
|----------------------------------------------------------------|---|-----|
| <b>Operating voltage / according to UL 60947 / rated value</b> | V | 600 |
| <b>Full-load current (FLA) / for 3-phase motor</b>             |   |     |
| • at 480 V / rated value                                       | A | 1.6 |
| • at 600 V / rated value                                       | A | 1.6 |

#### Certificates/ approvals:

| General Product Approval                                                                                                                                                                                                                                                |                                                                                                     | Declaration of Conformity                                                                     | Test Certificates                                                                        |                                                                                            |                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|
| <br>CCC                                                                                                                                                                                |                    | <br>EG-Konf. | <a href="#">Special Test Certificate</a>                                                 | <a href="#">Type Test Certificates/Test Report</a>                                         |                                                                                            |
| Shipping Approval                                                                                                                                                                                                                                                       |                                                                                                     |                                                                                               |                                                                                          |                                                                                            |                                                                                            |
| <br>ABS                                                                                                                                                                                | <br>BUREAU VERITAS | <br>DNV      | <br>GL  | <br>LRS | <br>PRS |
| Shipping Approval                                                                                                                                                                                                                                                       |                                                                                                     | other                                                                                         |                                                                                          |                                                                                            |                                                                                            |
| <br>RINA                                                                                                                                                                               | <br>RMRS           | <a href="#">Confirmation</a>                                                                  | <br>VDE | <a href="#">other</a>                                                                      | <a href="#">Environmental Confirmations</a>                                                |
| Further information:                                                                                                                                                                                                                                                    |                                                                                                     |                                                                                               |                                                                                          |                                                                                            |                                                                                            |
| <b>Information- and Downloadcenter (Catalogs, Brochures,...)</b><br><a href="http://www.siemens.com/industrial-controls/catalogs">http://www.siemens.com/industrial-controls/catalogs</a>                                                                               |                                                                                                     |                                                                                               |                                                                                          |                                                                                            |                                                                                            |
| <b>Industry Mall (Online ordering system)</b><br><a href="http://www.siemens.com/industrymall">http://www.siemens.com/industrymall</a>                                                                                                                                  |                                                                                                     |                                                                                               |                                                                                          |                                                                                            |                                                                                            |
| <b>Cax online generator</b><br><a href="http://www.siemens.com/cax">http://www.siemens.com/cax</a>                                                                                                                                                                      |                                                                                                     |                                                                                               |                                                                                          |                                                                                            |                                                                                            |
| <b>Service&amp;Support (Manuals, Certificates, Characteristics, FAQs,...)</b><br><a href="http://support.automation.siemens.com/WW/view/en/3RV2411-1AA20/all">http://support.automation.siemens.com/WW/view/en/3RV2411-1AA20/all</a>                                    |                                                                                                     |                                                                                               |                                                                                          |                                                                                            |                                                                                            |
| <b>Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)</b><br><a href="http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2411-1AA20">http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2411-1AA20</a> |                                                                                                     |                                                                                               |                                                                                          |                                                                                            |                                                                                            |



last change:

Aug 4, 2014