



CIRCUIT-BREAKER SZ S0,  
FOR STARTER COMBINATION,  
RATED CURRENT 32A, N-RELEASE 400A,  
SCREW CONNECTION, STANDARD SW. CAPACITY

### General technical data:

|                                                        |    |                      |
|--------------------------------------------------------|----|----------------------|
| product brand name                                     |    | SIRIUS               |
| product designation                                    |    | 3RV2 circuit breaker |
| Size of the circuit-breaker                            |    | S0                   |
| Number of poles / for main current circuit             |    | 3                    |
| Product function                                       |    |                      |
| • removable terminal for auxiliary and control circuit |    | No                   |
| • overload protection                                  |    | No                   |
| • phase disturbance recognition                        |    | No                   |
| • 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  | 12.2        |

|                                                                                       |     |         |
|---------------------------------------------------------------------------------------|-----|---------|
| <b>Main circuit:</b>                                                                  |     |         |
| <b>Operating voltage / rated value</b>                                                | V   | 690     |
| <b>Service power / at AC-3</b>                                                        |     |         |
| • at 400 V / rated value                                                              | W   | 15,000  |
| • at 500 V / rated value                                                              | W   | 18,500  |
| • at 690 V / rated value                                                              | W   | 30,000  |
| <b>Operational current / at AC-3 / at 400 V / rated value</b>                         | A   | 32      |
| <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      |

|                                                                                            |  |         |
|--------------------------------------------------------------------------------------------|--|---------|
| <b>Auxiliary circuit:</b>                                                                  |  |         |
| <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 |

|                                                            |   |        |
|------------------------------------------------------------|---|--------|
| <b>Protection function:</b>                                |   |        |
| <b>Breaking capacity limit short-circuit current (Icu)</b> |   |        |
| • at 400 V / rated value                                   | A | 55,000 |
| • at 500 V / rated value                                   | A | 10,000 |
| • at 690 V / rated value                                   | A | 4,000  |

|                                                                                    |     |        |
|------------------------------------------------------------------------------------|-----|--------|
| <b>Safety:</b>                                                                     |     |        |
| <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     |

|                                          |  |                                                                                        |
|------------------------------------------|--|----------------------------------------------------------------------------------------|
| <b>Installation/mounting/dimensions:</b> |  |                                                                                        |
| <b>Type of mounting</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  |

#### Connections:

|                                                                                                                                                                                              |  |                                                                                                                                                                                                       |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Arrangement of electrical connectors / for main current circuit</b>                                                                                                                       |  | Top and bottom                                                                                                                                                                                        |
| <b>Design of the electrical connection</b><br>• for main current circuit                                                                                                                     |  | screw-type terminals                                                                                                                                                                                  |
| <b>Type of the connectable conductor cross-section</b><br>• for main contacts<br>• solid<br>• finely stranded<br>• with conductor end processing<br>• for AWG conductors / for main contacts |  | 2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 10 mm <sup>2</sup> )<br><br>2x (1 ... 2.5 mm <sup>2</sup> ), 2x (2.5 ... 6 mm <sup>2</sup> ), 1x 10 mm <sup>2</sup><br><br>2x (16 ... 12), 2x (14 ... 8) |

#### UL/CSA ratings:

|                                                                                                                                                                                                                                                                                             |                                |                               |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------|
| <b>yielded mechanical performance (hp)</b><br>• for single-phase squirrel cage motors<br>• at 110/120 V / rated value<br>• at 230 V / rated value<br>• for three-phase squirrel cage motors<br>• at 200/208 V / rated value<br>• at 220/230 V / rated value<br>• at 460/480 V / rated value | hp<br>hp<br><br>hp<br>hp<br>hp | 2<br>5<br><br>7.5<br>10<br>20 |
| <b>Operating current (FLA) / for three-phase squirrel cage motors</b><br>• at 480 V / rated value                                                                                                                                                                                           | A                              | 27                            |

#### Certificates/approvals:

| General Product Approval | Declaration of Conformity | Test Certificates |
|--------------------------|---------------------------|-------------------|
|--------------------------|---------------------------|-------------------|



[Special Test Certificate](#)

[Type Test Certificates/Test Report](#)

#### Shipping Approval



#### Shipping Approval

other



[other](#)

#### 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:**

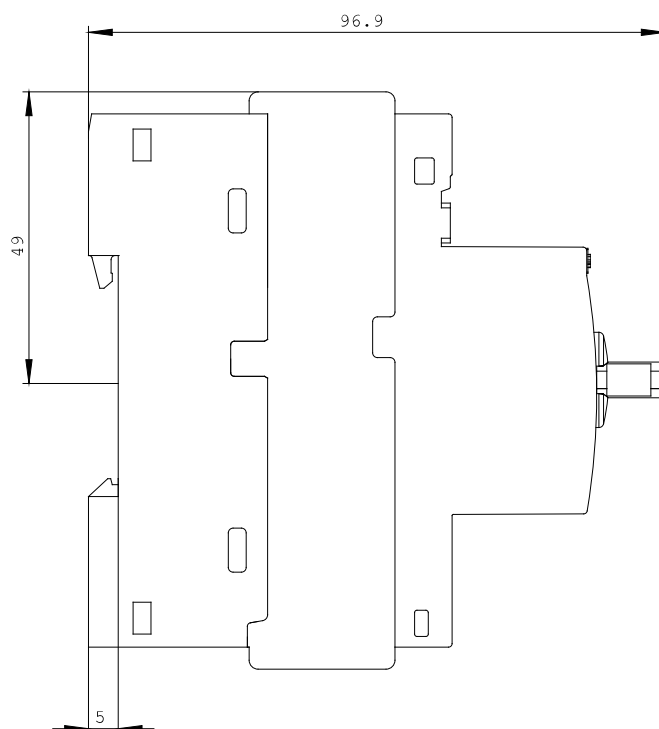
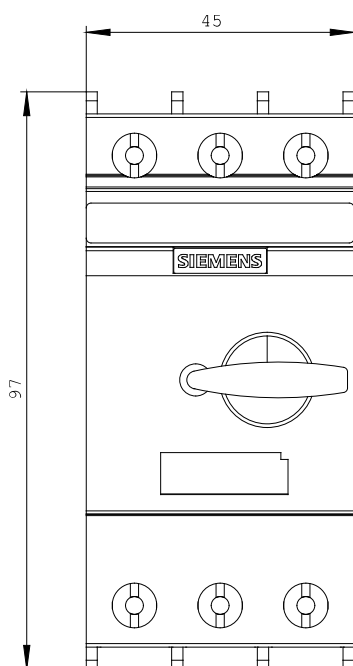
<http://www.siemens.com/cax>

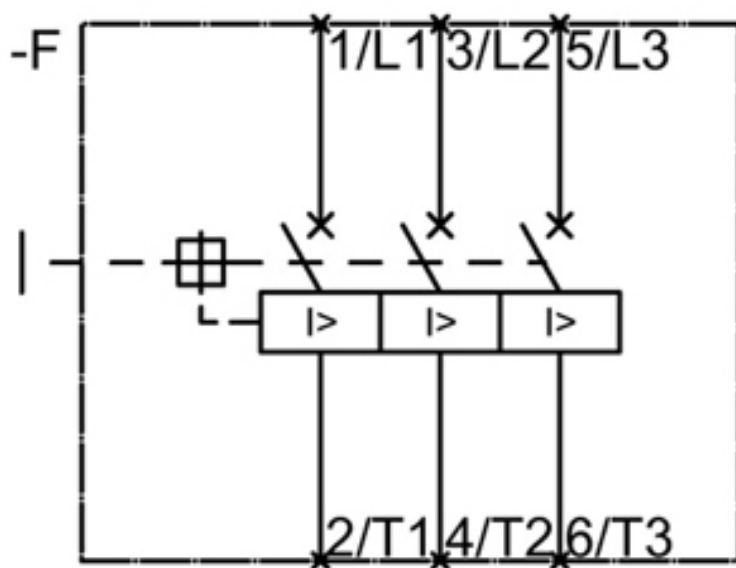
**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**

<http://support.automation.siemens.com/WW/view/en/3RV2321-4EC10/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV2321-4EC10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV2321-4EC10)





last change:

Feb 14, 2013