



CIRCUIT-BREAKER SIZE S0,  
FOR MOTOR PROTECTION, CLASS 10,  
A-REL. 7...10A, N-REL. 130A,  
SCREW TERMINAL,  
STANDARD SWITCHING CAPACITY

#### General technical data:

|  |   |                 |
|--|---|-----------------|
| <b>product brand name</b>                              |   | SIRIUS          |
| <b>product designation</b>                             |   | circuit breaker |
| <b>Size of the circuit-breaker</b>                     |   | S0              |
| <b>Number of poles / for main current circuit</b>      |   | 3               |
| <b>Product function</b>                                |   |                 |
| • removable terminal for auxiliary and control circuit |   | No              |
| • overload protection                                  |   | Yes             |
| • phase disturbance recognition                        |   | Yes             |
| • short-circuit to earth recognition                   |   | No              |
| <b>Product component</b>                               |   |                 |
| • auxiliary switch                                     |   | No              |
| • undervoltage release mechanism                       |   | No              |
| • trip indicator                                       |   | No              |
| <b>Product extension</b>                               |   |                 |
| • auxiliary switch                                     |   | Yes             |
| • optional / motor drive                               |   | No              |
| <b>Impulse voltage resistance / rated value</b>        | V | 6,000           |
| <b>Protection class IP / on the front</b>              |   | IP20            |
| <b>Protection against electrical shock</b>             |   | 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 ... +70 |
| <b>Active power loss / total / typical</b>                          | W  | 7           |

#### Main circuit:

|   |     |         |
|---|-----|---------|
| <b>Operating voltage / rated value</b>  | V   | 690     |
| <b>type of voltage</b>  |     | AC/DC   |
| <b>Service power / at AC-3 / at 400 V / rated value</b>                               | kW  | 4       |
| <b>Operating current / at AC-3 / at 400 V / rated value</b>                           | A   | 10      |
| <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 |
|--|--|---|

#### Protection function:

|  |    |          |
|--|----|----------|
| <b>Trip class</b>  |    | CLASS 10 |
| <b>Adjustable response current / of the current-dependent overload release</b> | A  | 7 ... 10 |
| <b>Breaking capacity limit short-circuit current (I<sub>cu</sub>)</b>          |    |          |
| • at 400 V / rated value   | kA | 100      |
| • at 500 V / rated value   | kA | 42       |
| • at 690 V / rated value   | kA | 6        |

#### Installation/mounting/dimensions:

|                          |    |  |
|--------------------------|----|--|
| <b>Type of mounting</b>  |    | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| <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> |  | front side           |
| <b>Design of the electrical connection</b>                             |  |                      |
| • for main current circuit   |  | screw-type terminals |
| • for auxiliary and control current circuit                            |  | screw-type terminals |
| <b>Type of the connectable conductor cross-section</b>                 |  |                      |

- for main contacts
  - solid
  - finely stranded
    - with conductor end processing
  - stranded
- for AWG conductors / for main contacts

2x (1 ... 2.5 mm<sup>2</sup>), 2x (2.5 ... 6 mm<sup>2</sup>)

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2x (14 ... 10)

## Certificates/approvals:

### General Product Approval

For use in hazardous locations



CCC



CSA



GOST



KETI



UL



ATEX

### Declaration of Conformity

### Test Certificates

### Shipping Approval



EG-Konf.

[Special Test Certificate](#)



ABS



LRS



RMRS

### other

[Confirmation](#)

[Declaration of Conformity](#)

[other](#)

[Environmental Confirmations](#)

## 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:

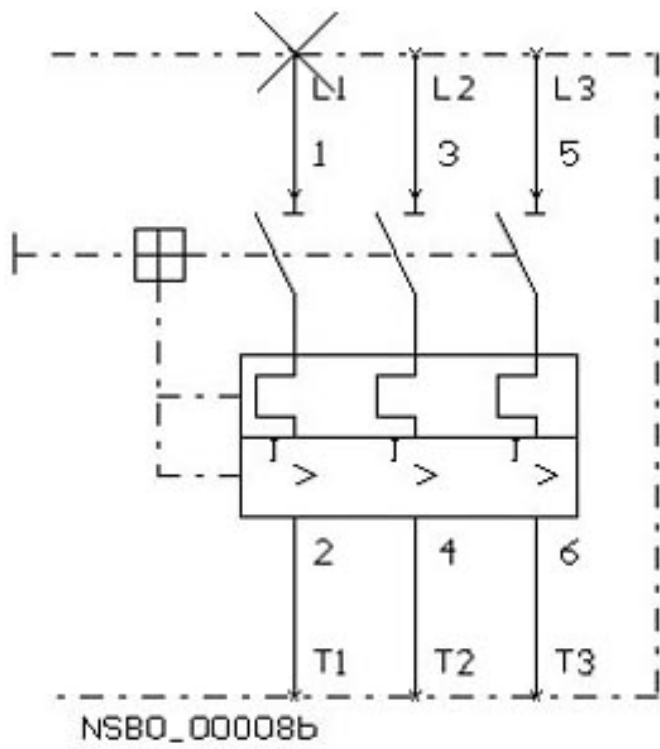
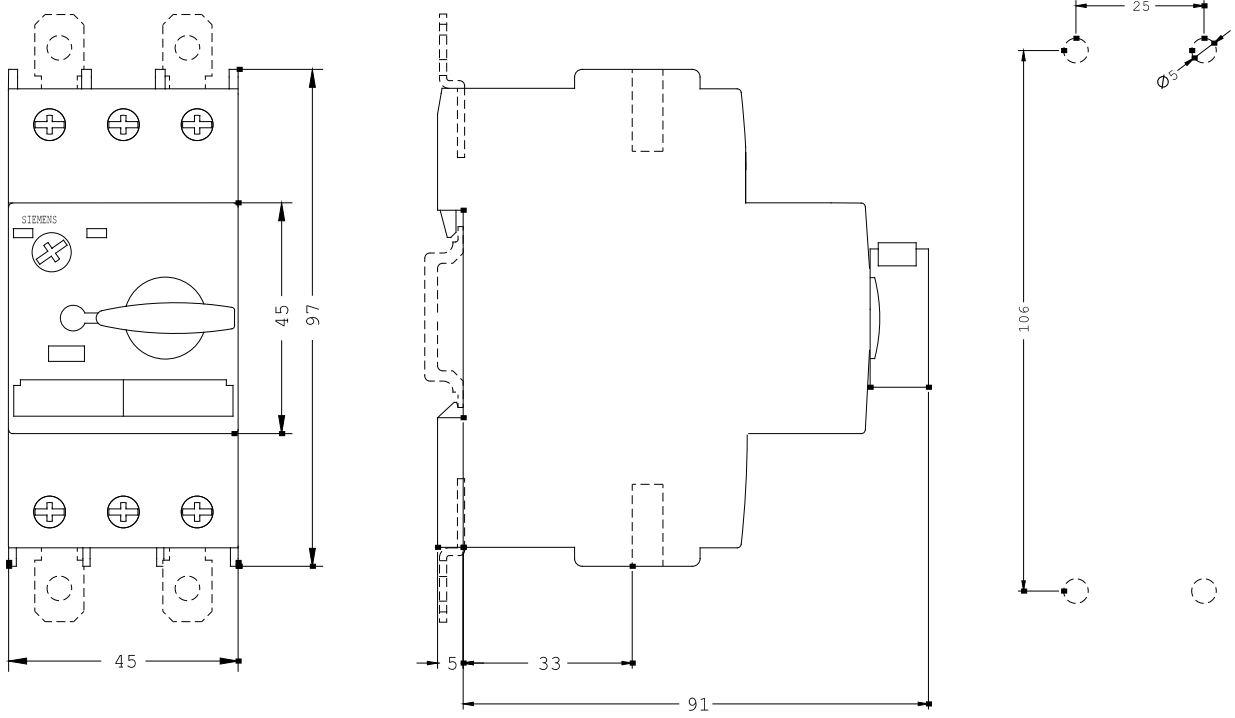
<http://www.siemens.com/cax>

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

<http://support.automation.siemens.com/WW/view/en/3RV1021-1JA10/all>

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

[http://www.automation.siemens.com/bilddb/cax\\_en.aspx?mlfb=3RV1021-1JA10](http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV1021-1JA10)



last change:

Oct 29, 2012