



CIRCUIT-BREAKER, SIZE S00,  
FOR MOTOR PROTECTION, CLASS 10,  
A REL.0.28...0.40A, N REL.5.2A,  
SCREW CONNECTION,  
STANDARD BREAKING CAPACITY,  
W. TRANSV. AUX. SWITCH 1NO/1NC

### General technical data:

|  |    |                 |
|--|----|-----------------|
| Product brand name   |    | SIRIUS          |
| product designation  |    | circuit breaker |
| Size of the circuit-breaker  |    | S00             |
| Trip class   |    | CLASS 10        |
| Degree of pollution  |    | 3               |
| Installation altitude / at a height over sea level / maximum               | m  | 2,000           |
| Protection class IP / on the front   |    | IP20            |
| Ambient temperature  |    |                 |
| • during storage   | °C | -50 ... +80     |
| • during operating   | °C | -20 ... +70     |
| • during transport   | °C | 80 ... -50      |
| Resistance against shock   |    | 25g / 11 ms     |
| Insulation voltage / rated value   | V  | 690             |
| Impulse voltage resistance / rated value                                   | V  | 6,000           |
| Active power loss / total / typical  | W  | 5               |
| Item designation   |    |                 |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 |    | Q               |
| • according to DIN EN 61346-2  |    | Q               |

|   |  |            |
|---|--|------------|
| <b>Mechanical operating cycles as operating time / of the main contacts / typical</b> |  | 100,000    |
| <b>Design of the auxiliary switch</b>   |  | transverse |
| <b>Type of the driving mechanism / motor drive</b>                                    |  | No         |
| <b>Design of the operating mechanism</b>  |  | rocker     |
| <b>Product function</b>   |  |            |
| • overload protection   |  | Yes        |
| • phase disturbance recognition   |  | Yes        |
| <b>Product component</b>  |  |            |
| • auxiliary switch  |  | Yes        |
| • undervoltage release mechanism  |  | No         |
| • trip indicator  |  | Yes        |
| <b>Product extension / optional / motor drive</b>                                     |  | No         |

| Main circuit:  |     |              |
|--|-----|--------------|
| <b>Number of poles / for main current circuit</b>                              |     | 3            |
| <b>type of voltage</b>   |     | AC/DC        |
| <b>Operating voltage / at AC-3 / rated value / maximum</b>                     | V   | 690          |
| <b>Operating current / at AC-3 / at 400 V / rated value</b>                    | A   | 0.4          |
| <b>Service power / at AC-3</b>   |     |              |
| • at 400 V / rated value   | kW  | 0.09         |
| <b>Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum</b> | 1/h | 15           |
| <b>Arrangement of electrical connectors / for main current circuit</b>         |     | front side   |
| <b>Adjustable response current</b>   |     |              |
| • of the non-delayed short-circuit release                                     | A   | 5.2 ... 5.2  |
| <b>Adjustable response current</b>   |     |              |
| • of the current-dependent overload release                                    | A   | 0.28 ... 0.4 |
| <b>Continuous current / rated value</b>  | A   | 0.4          |
| <b>Product extension / auxiliary switch</b>                                    |     | Yes          |

| Auxiliary circuit:  |   |     |
|---|---|-----|
| <b>Number of NC contacts / for auxiliary contacts / instantaneous switching</b> |   | 1   |
| <b>Number of NO contacts / for auxiliary contacts / instantaneous switching</b> |   | 1   |
| <b>Number of change-over switches / for auxiliary contacts</b>                  |   | 0   |
| <b>Operating current / of the auxiliary contacts</b>                            |   |     |
| • at AC-15  |   |     |
| • at 24 V   | A | 2   |
| • at 230 V  | A | 0.5 |
| • at DC-13  |   |     |

- at 24 V
- at 60 V

|   |      |
|---|------|
| A | 1    |
| A | 0.15 |

#### Inputs/ Outputs:

##### Number of digital inputs

0

#### Short-circuit:

##### Breaking capacity limit short-circuit current (I<sub>cu</sub>)

- at 400 V / rated value
- at 500 V / rated value
- at 690 V / rated value

|    |     |
|----|-----|
| kA | 100 |
| kA | 100 |
| kA | 100 |

##### Design of the electrical connection / for auxiliary and control current circuit

screw-type terminals

##### Design of the overcurrent release and short-circuit release

thermomagnetic

#### Installation/mounting/dimensions:

##### Built in orientation

any

##### Type of mounting

screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022

##### Width

mm 45

##### Height

mm 90

##### Depth

mm 81

##### Distance, to be maintained, to the ranks assembly

- backwards
- sideways

|    |   |
|----|---|
| mm | 0 |
| mm | 0 |

##### Product function / removable terminal for auxiliary and control circuit

No

#### Connections:

##### Design of the electrical connection

- for main current circuit

screw-type terminals

##### Type of the connectable conductor cross-section

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

|   |
|---|
| 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| 2x (18 ... 14)  |
| 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| 2x (0.5 ... 1.5 mm <sup>2</sup> ), 2x (0.75 ... 2.5 mm <sup>2</sup> ) |
| 2x (18 ... 14)  |

|  |                 |             |
|--|-----------------|-------------|
| <b>Conductor cross section that can be connected / for main contacts</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded</li> <li>• stranded wire</li> <li>• with conductor end processing</li> </ul> | mm <sup>2</sup> | 0.5 ... 2.5 |
|  | mm <sup>2</sup> | 0.5 ... 2.5 |
|  | mm <sup>2</sup> | 0.5 ... 2.5 |
| <b>AWG number / as coded connectable conductor cross-section</b> <ul style="list-style-type: none"> <li>• for main contacts</li> </ul>   |                 | 18 ... 14   |
| <b>Conductor cross-section that can be connected / for auxiliary contact</b> <ul style="list-style-type: none"> <li>• solid</li> <li>• stranded wire</li> <li>• with conductor end processing</li> </ul>                 | mm <sup>2</sup> | 0.5 ... 2.5 |
|  | mm <sup>2</sup> | 0.5 ... 2.5 |
|  | mm <sup>2</sup> | 0.5 ... 2.5 |
| <b>AWG number / as coded connectable conductor cross-section</b> <ul style="list-style-type: none"> <li>• for auxiliary contact</li> </ul>   |                 | 18 ... 14   |

#### Certificates/approvals:

##### General Product Approval

For use in  
hazardous  
locations



CQC



CSA

[KETI](#)

[ROSTEST](#)



UL

[DEKRA EXAM,](#)  
[DMT](#)

##### Test Certificates

[Manufacturer](#)

##### Shipping Approval



ABS



BUREAU  
VERITAS



DNV



GL



LRS



PRS

##### Shipping Approval

other



RINA



RMRS

[Manufacturer](#)

[other](#)

#### Safety:

Protection against electrical shock

finger-safe

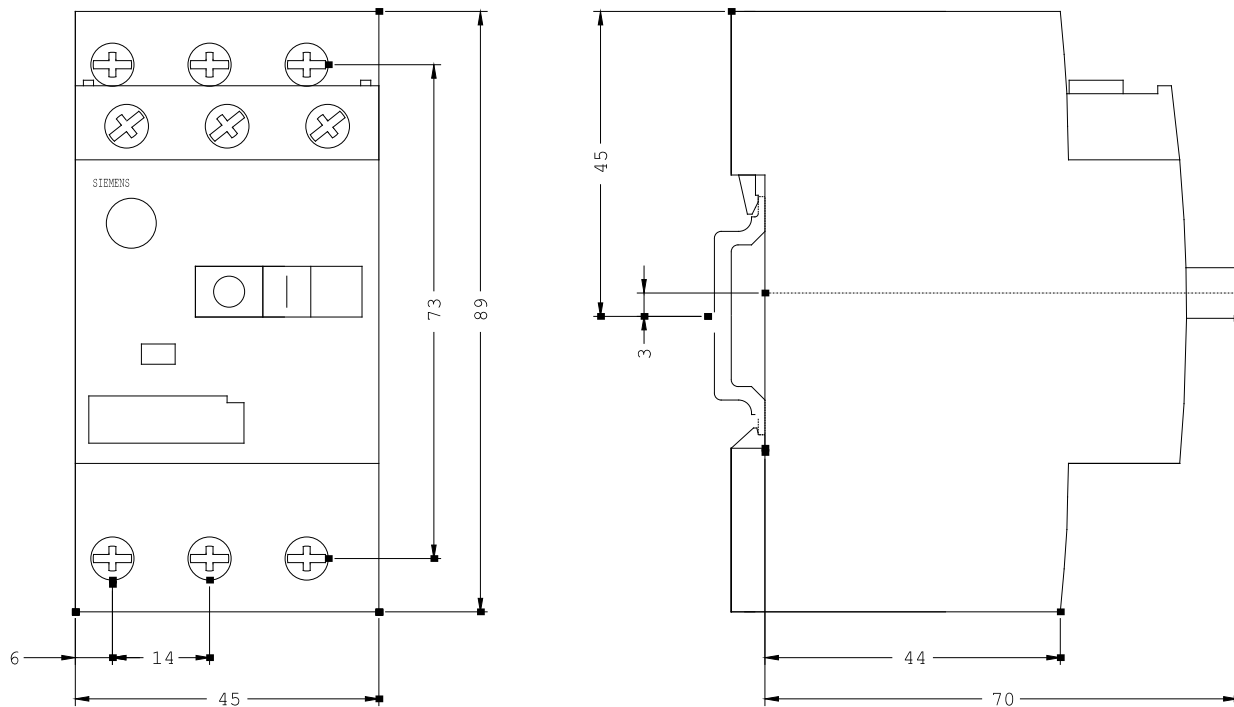
#### Further information:

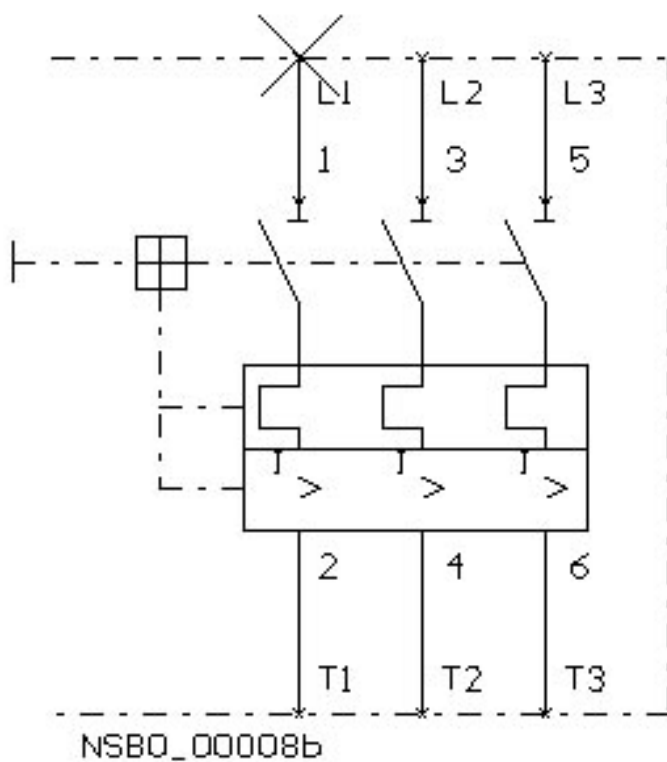
Information- and Downloadcenter (Catalogs, Brochures,...)

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

Industry Mall (Online ordering system)

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





last change:

Dec 24, 2011