



CIRCUIT-BREAKER SIZE S00,
FOR MOTOR PROTECTION, CLASS 10,
A-REL. 7...10A, N-REL. 130A,
SCREW TERMINAL,
STANDARD SWITCHING CAPACITY

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 | 7 |
| Item designation | | |
| • according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | | Q |
| • according to DIN EN 61346-2 | | Q |

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

| | | |
|--|-----|-------------|
| Main circuit: | | |
| Number of poles / for main current circuit | | 3 |
| type of voltage | | AC/DC |
| Operating voltage / at AC-3 / rated value / maximum | V | 690 |
| Operating current / at AC-3 / at 400 V / rated value | A | 10 |
| Service power / at AC-3 | | |
| • at 400 V / rated value | kW | 4 |
| Frequency of operation / at AC-3 / according to IEC 60947-6-2 / maximum | 1/h | 15 |
| Arrangement of electrical connectors / for main current circuit | | front side |
| Adjustable response current | | |
| • of the non-delayed short-circuit release | A | 130 ... 130 |
| Adjustable response current | | |
| • of the current-dependent overload release | A | 7 ... 10 |
| Continuous current / rated value | A | 10 |
| Product extension / auxiliary switch | | Yes |

| | | |
|---|--|---|
| Auxiliary circuit: | | |
| Number of NC contacts / for auxiliary contacts / instantaneous switching | | 0 |
| Number of NO contacts / for auxiliary contacts / instantaneous switching | | 0 |
| Number of change-over switches / for auxiliary contacts | | 0 |

| | | |
|---------------------------------|--|---|
| Inputs/ Outputs: | | |
| Number of digital inputs | | 0 |












| | | |
|--|----|----|
| Short-circuit: | | |
| Breaking capacity limit short-circuit current (Icu) | | |
| • at 400 V / rated value | kA | 50 |

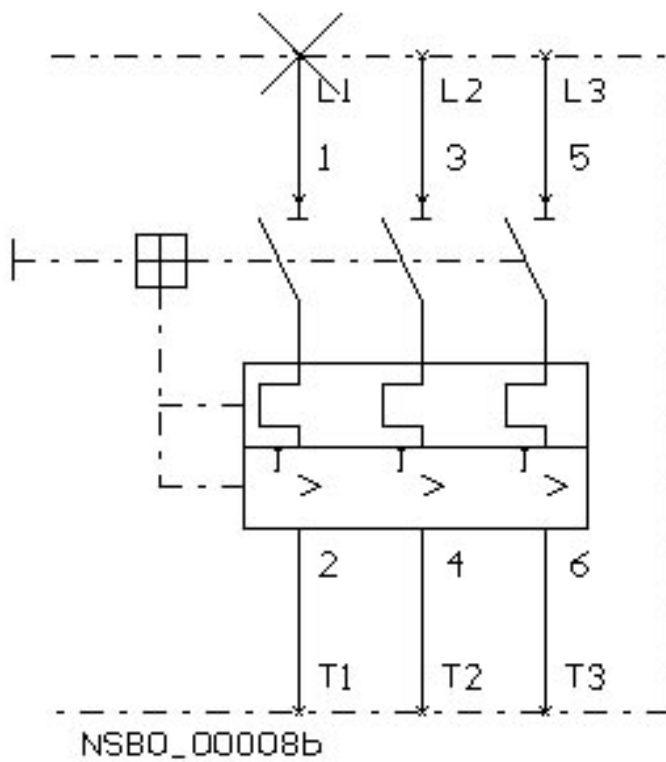
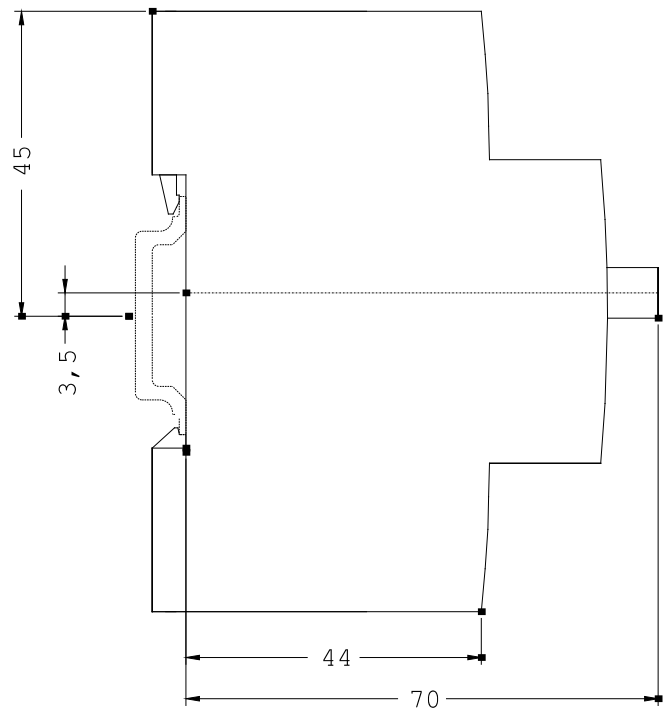
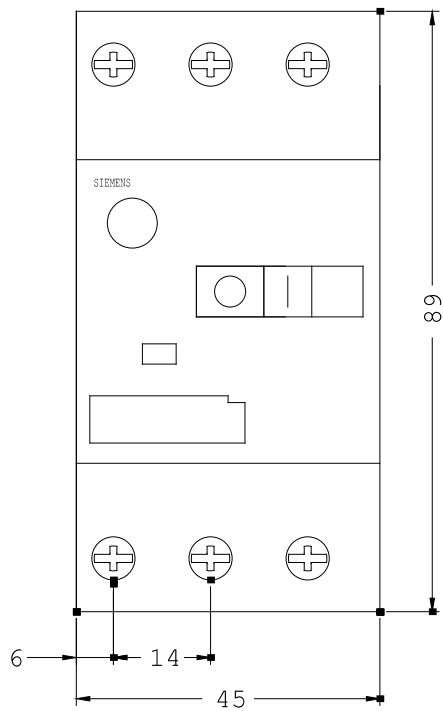
| | | |
|--|----|----------------------|
| • at 500 V / rated value | kA | 3 |
| • at 690 V / rated value | kA | 2 |
| Design of the electrical connection / for auxiliary and control current circuit | | screw-type terminals |
| Design of the overcurrent release and short-circuit release | | thermomagnetic |

| 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 | mm | 0 |
| • sideways | mm | 0 |
| Product function / removable terminal for auxiliary and control circuit | | No |

| Connections: | | |
|--|-----------------|---|
| Design of the electrical connection | | screw-type terminals |
| • for main current circuit | | |
| Type of the connectable conductor cross-section | | |
| • for main contacts | | |
| • solid | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| • stranded | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| • finely stranded | | |
| • with conductor end processing | | 2x (0.5 ... 1.5 mm ²), 2x (0.75 ... 2.5 mm ²) |
| • for AWG conductors / for main contacts | | 2x (18 ... 14) |
| Conductor cross section that can be connected / for main contacts | | |
| • solid | mm ² | 0.5 ... 2.5 |
| • stranded | mm ² | 0.5 ... 2.5 |
| • stranded wire | | |
| • with conductor end processing | mm ² | 0.5 ... 2.5 |
| AWG number / as coded connectable conductor cross-section | | |
| • for main contacts | | 18 ... 14 |

| Certificates/approvals: | | |
|-------------------------|--|--|
|-------------------------|--|--|

| | | | | | |
|---|---|---|---|---|---|
| General Product Approval | | | | | For use in hazardous locations |
|  |  | KETI | ROSTEST |  | DEKRA EXAM, DMT |
| CQC | CSA | | | UL | |
| Test Certificates | | | | | |
| Manufacturer | | | | | |
| Shipping Approval | | | | | |
|  |  |  |  |  |  |
| ABS | BUREAU VERITAS | DNV | GL | LRS | PRS |
| Shipping Approval | | other | | | |
|  |  | Manufacturer | other | | |
| RINA | RMRS | | | | |
| 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 | | | | | |
| CAx-Online-Generator | | | | | |
| http://www.siemens.com/cax | | | | | |
| Service&Support (Manuals, Certificates, Characteristics, FAQs,...) | | | | | |
| http://support.automation.siemens.com/WW/view/en/3RV1011-1JA10/all | | | | | |
| Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) | | | | | |
| http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV1011-1JA10 | | | | | |



last change:

Dec 24, 2011