# SIEMENS

CIRCUIT-BREAKER SIZE S0,
FOR MOTOR PROTECTION, CLASS 10,
A-REL. 20...25A, N-REL. 325A,
SCREW TERMINAL,
STANDARD SWITCHING CAPACITY

| General technical data: | | |
|---|---|---|
| **product brand name** | | SIRIUS |
| **product designation** | | 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 | | Yes |
| • phase disturbance recognition | | Yes |
| • 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** | V | 6,000 |
| **Protection class IP / on the front** | | IP20 |
| **Protection against electrical shock** | | finger-safe |

| Installation altitude / at a height over sea level / maximum | m | 2,000 |
|---|---|---|
| Resistance against shock | | 25g / 11 ms |
| Ambient temperature | | |
| • during transport | °C | -50 … +80 |
| • during storage | °C | -50 … +80 |
| • during operating | °C | -20 … +70 |
| Active power loss / total / typical | W | 8 |

## Main circuit:

| | | |
|---|---|---|
| Operating voltage / rated value | V | 690 |
| type of voltage | | AC/DC |
| Service power / at AC-3 / at 400 V / rated value | kW | 11 |
| Operating current / at AC-3 / at 400 V / rated value | A | 25 |
| Mechanical operating cycles as operating time / of the main contacts / typical | | 100,000 |
| Frequency of operation / at AC-3 / according to IEC 60947-6-2 | 1/h | 15 |

## Auxiliary circuit:

| | | |
|---|---|---|
| Number of changeover contacts / for auxiliary contacts | | 0 |

## Protection function:

| | | |
|---|---|---|
| Trip class | | CLASS 10 |
| Adjustable response current / of the current-dependent overload release | A | 20 … 25 |
| Breaking capacity limit short-circuit current (lcu) | | |
| • at 400 V / rated value | kA | 50 |
| • at 500 V / rated value | kA | 10 |
| • at 690 V / rated value | kA | 4 |

## Installation/mounting/dimensions:

| | | |
|---|---|---|
| Type of mounting | | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| mounting position | | any |
| Depth | mm | 96 |
| Height | mm | 97 |
| Width | mm | 45 |

## Connections:

| | | |
|---|---|---|
| Arrangement of electrical connectors / for main current circuit | | front side |
| Design of the electrical connection | | |
| • for main current circuit | | screw-type terminals |
| • for auxiliary and control current circuit | | screw-type terminals |
| Type of the connectable conductor cross-section | | |

10/30/2013

| | |
|---|---|
| • for main contacts | |
|   • solid | 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²) |
|   • finely stranded | |
|     • with conductor end processing | 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²) |
|   • stranded | 2x (1 ... 2.5 mm²), 2x (2.5 ... 6 mm²) |
| • for AWG conductors / for main contacts | 2x (14 ... 10) |

## Certificates/approvals:

| General Product Approval | | | | | Test Certificates |
|---|---|---|---|---|---|
| CSA | EAC | GOST | KETI | UL | Special Test Certificate |

**Shipping Approval**

| | | | | | |
|---|---|---|---|---|---|
| ABS | BUREAU VERITAS | DNV | GL | 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
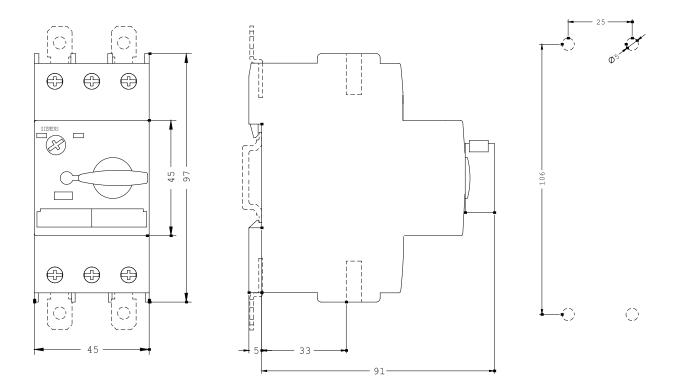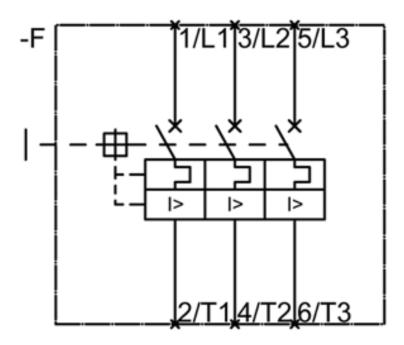
**Cax online generator:**
http://www.siemens.com/cax

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
http://support.automation.siemens.com/WW/view/en/3RV1021-4DA10/all

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV1021-4DA10

Dimensions: 45, 97, 45, 106, 25, Ø5, 5, 33, 91

SIEMENS

-F

1/L1 3/L2 5/L3

I

I> I> I>

2/T1 4/T2 6/T3

**last change:**                                    Oct 28, 2013