# SIEMENS

**Product data sheet**                                          **3RV1421-0GA10**

CIRCUIT-BREAKER,
0.45...0.63A N-RELEASE   13 A, SIZE S0,
TRANSFORMER PROTECTION, CL. 10,
SCREW CONNECTION STANDARD BREAKING
CAPACITY

| General technical data: | | |
|---|---|---|
| Product brand name | | SIRIUS |
| Product designation | | circuit breaker |
| Size of the circuit-breaker | | S0 |
| Trip class | | CLASS 10 |
| Degree of pollution | | 3 |
| Altitude of installation site / at a height over sea level / maximum | m | 2,000 |
| Protection class IP / frontal/front side | | IP20 |
| Ambient temperature | | |
| • during storage | °C | -50 … 80 |
| • during the operating phase | °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 | kV | 6 |
| Real loss power / 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 |
| Mechanical switching cycle as operating period / of the main contacts / typical | | 100,000 |
| Type of the driving mechanism / Motor drive | | No |
| design of the operating mechanism | | selector switch |
| 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 3 AC / rated value / maximum** | V | 690 |
| **Operating current / at AC-3 / at 400 V / rated value** | A | 0.63 |
| **Switching frequency / 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 | 13 … 13 |
| **Adjustable response current** | | |
| • of the current-dependent overload release | A | 0.45 … 0.63 |
| **Continuous current / rated value** | A | 0.63 |
| **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 contact** | | 0 |

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

| **Short-circuit:** | | |
|---|---|---|
| **Breaking capacity limit short-circuit current (Icu)** | | |
| • at 400 V / rated value | kA | 100 |
| • at 500 V / rated value | kA | 100 |
| • at 690 V / rated value | kA | 100 |
| **Design of the overcurrent release and short-circuit release** | | thermomagnetic |

| **Installation/mounting/dimensions:** | | |
|---|---|---|
| **built in orientation** | | any |
| **Type of fixing/fixation** | | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| **Width** | mm | 45 |
| **Height** | mm | 97 |
| **Depth** | mm | 96 |
| **distance, to be maintained, to the ranks assembly** | | |

---

| | | |
|---|---|---|
| • backwards | mm | 0 |
| • sidewards | 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 | | |
| • unifilar | | 2x (1 ... 2.5 mm2), 2x (2.5 ... 6 mm2) |
| • stranded wire | | 2x (1 ... 2,5 mm2), 2x (2,5 ... 6 mm2) |
| • stranded wire | | |
| • with conductor end processing | | 2x (1 ... 2.5 mm2), 2x (2.5 ... 6 mm2) |
| • at AWG-conductors / for main contacts | | 2x (14 ... 10) |
| **Conductor cross section that can be connected / for main contacts** | | |
| • unifilar | mm² | 1 … 6 |
| • stranded wire | mm² | 1 … 6 |
| • stranded wire | | |
| • with conductor end processing | mm² | 1 … 6 |
| **AWG number / as coded connectable conductor cross-section** | | |
| • for main contacts | | 14 … 10 |

## Safety:

| | | |
|---|---|---|
| **Protection against electrical shock** | | finger-safe |

## Further information:

**Information- and Downloadcenter (Catalogs, Brochures,…)**
http://www.siemens.com/industrial-controls/catalogs

**Global Industry Mall (Online ordering system)**
http://www.siemens.com/industrial-controls/mall

**Service&Support (Manuals, Certificates, Characteristics, FAQs,...)**
http://support.automation.siemens.com/WW/view/en/3RV1421-0GA10/all

**Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...)**
http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RV1421-0GA10

SIEMENS

45

97

45

5 | 33

91

25

Ø 5

106

---
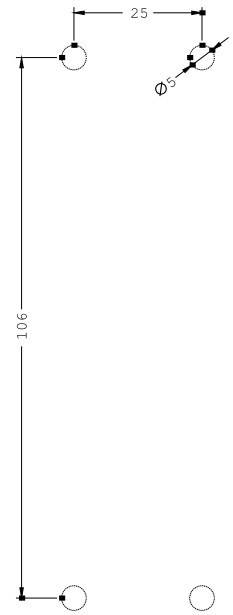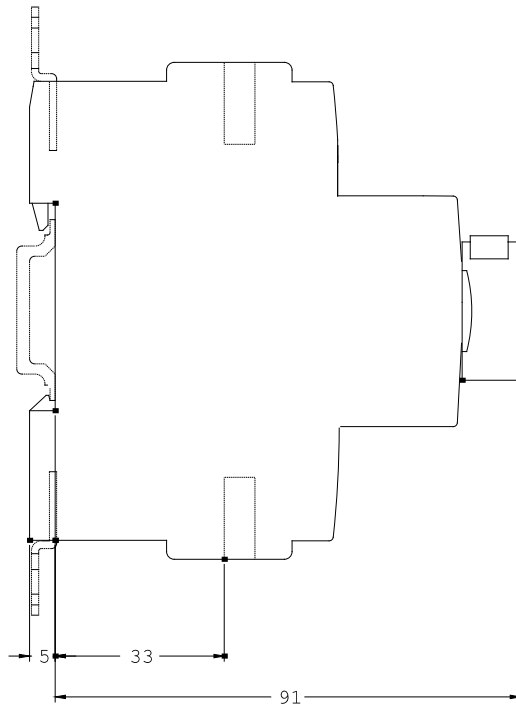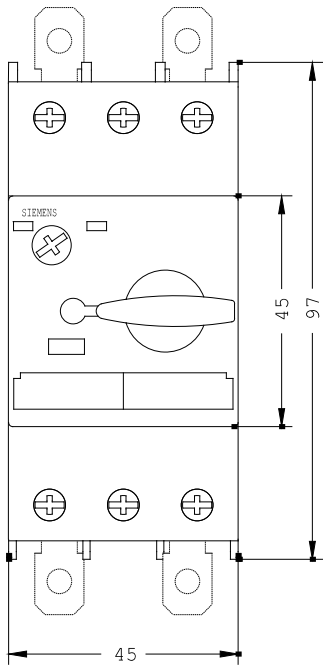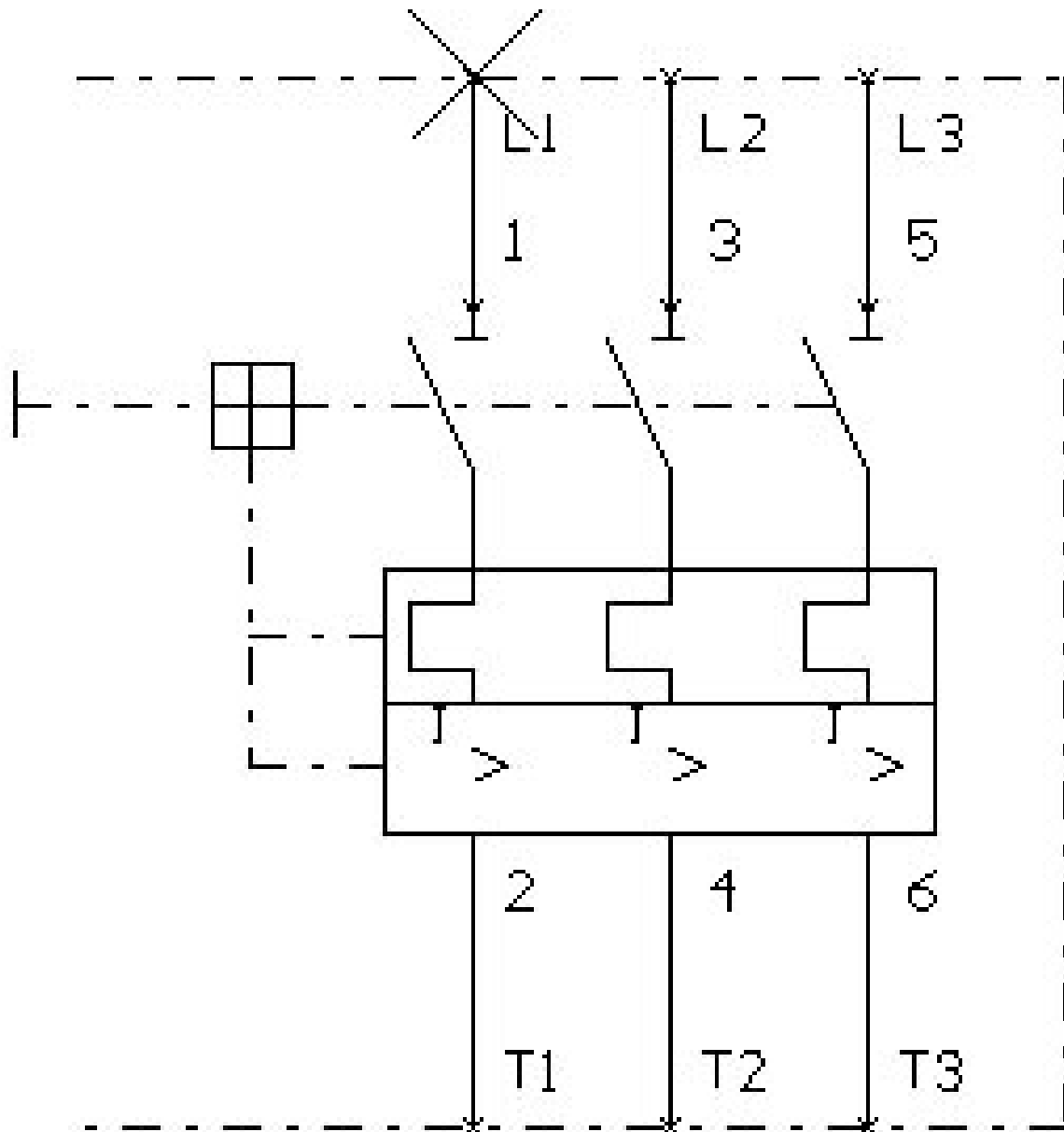
NSBO_00008b

**last change:**                                    Jun 14, 2010