



CIRCUIT-BREAKER SIZE S0,
FOR MOTOR PROTECTION, CLASS 10,
A-REL. 1.4...2A, N-REL. 26A,
SCREW TERMINAL,
STANDARD SWITCHING 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 | 6 |
| 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 | 2 |
| Service power / at AC-3 | | |
| • at 400 V / rated value | kW | 0.75 |
| 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 | 26 ... 26 |
| Adjustable response current | | |
| • of the current-dependent overload release | A | 1.4 ... 2 |
| Continuous current / rated value | A | 2 |
| 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 (I_{cu}) | | |
| • at 400 V / rated value | kA | 100 |

| | | |
|--|----|----------------|
| <ul style="list-style-type: none"> • at 500 V / rated value • at 690 V / rated value | kA | 100 |
| | kA | 8 |
| 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 | | |
| <ul style="list-style-type: none"> • backwards | mm | 0 |
| <ul style="list-style-type: none"> • sideways | mm | 0 |
| Product function / removable terminal for auxiliary and control circuit | | No |

Connections:

| | | |
|---|-----------------|--|
| Design of the electrical connection | | |
| <ul style="list-style-type: none"> • for main current circuit | | screw-type terminals |
| Type of the connectable conductor cross-section | | |
| <ul style="list-style-type: none"> • for main contacts | | |
| <ul style="list-style-type: none"> • unifilar | | 2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²) |
| <ul style="list-style-type: none"> • stranded wire | | 2x (1 ... 2,5 mm ²), 2x (2,5 ... 6 mm ²) |
| <ul style="list-style-type: none"> • stranded wire | | |
| <ul style="list-style-type: none"> • with conductor end processing | | 2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²) |
| <ul style="list-style-type: none"> • at AWG-conductors / for main contacts | | 2x (14 ... 10) |
| Conductor cross section that can be connected / for main contacts | | |
| <ul style="list-style-type: none"> • unifilar | mm ² | 1 ... 6 |
| <ul style="list-style-type: none"> • stranded wire | mm ² | 1 ... 6 |
| <ul style="list-style-type: none"> • stranded wire | | |
| <ul style="list-style-type: none"> • with conductor end processing | mm ² | 1 ... 6 |
| AWG number / as coded connectable conductor cross-section | | |
| <ul style="list-style-type: none"> • for main contacts | | 14 ... 10 |

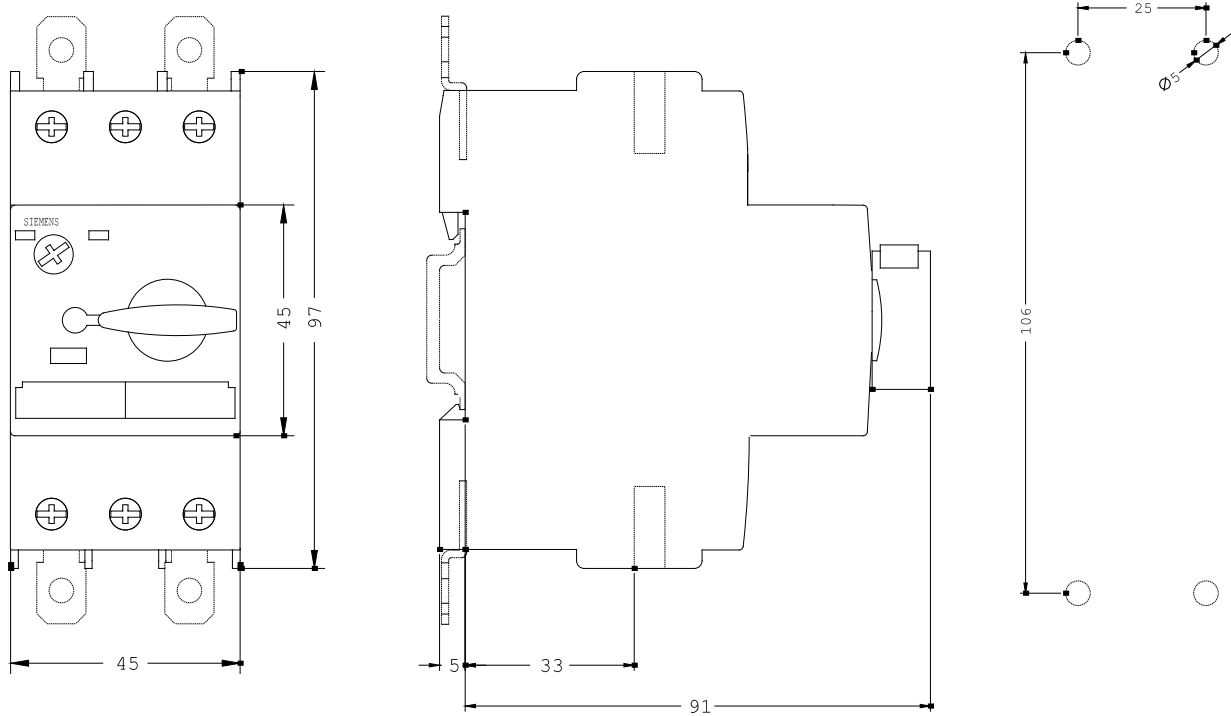
Safety:

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

Further information:

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

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





NSBO_00008b

last change:

Jun 14, 2010