## SIEMENS

Reference: 3RT1517-1BG40
CONTACTOR, AC-3 5.5KW/400 V, AC-1 22
A, DC 125 V, 4-POLE, 2 NO + 2 NC, SIZE S00, SCREW CONNECTION

Buy it at Electric Automation Network


| product brand name | SIRIUS |
| :---: | :---: |
| Product designation | power contactor |
| General technical data: |  |
| Size of contactor | S00 |
| Insulation voltage |  |
| rated value | 690 V |
| Degree of pollution | 3 |
| Protection class IP |  |
| on the front | IP20 |
| Mechanical service life (switching cycles) |  |
| of contactor typical | 30000000 |
| of the contactor with atd> | 5000000 |
| of the contactor with atd> | 10000000 |
| Ambient conditions: |  |
| Installation altitude at height above sea level maximum | 2000 m |
| Ambient temperature |  |
| during operation | $-25 \ldots+60{ }^{\circ} \mathrm{C}$ |
| during storage | $-55 \ldots+80{ }^{\circ} \mathrm{C}$ |
| Main circuit: |  |
| Number of NO contacts for main contacts | 2 |
| Number of NC contacts for main contacts | 2 |


| Operating current |  |
| :---: | :---: |
| at AC-1 |  |
| - up to 690 V at ambient temperature $40^{\circ} \mathrm{C}$ rated value | 22 A |
| - up to 690 V at ambient temperature $60^{\circ} \mathrm{C}$ rated value | 20 A |
| at AC-2 at AC-3 at 400 V |  |
| - per NO contact rated value | 12 A |
| - per NC contact rated value | 12 A |
| Connectable conductor cross-section in main circuit at AC-1 |  |
| at $60{ }^{\circ} \mathrm{C}$ minimum permissible | $2.5 \mathrm{~mm}^{2}$ |
| at $40{ }^{\circ} \mathrm{C}$ minimum permissible | $2.5 \mathrm{~mm}^{2}$ |
| Operating current |  |
| at 1 current path at DC-1 |  |
| - at 24 V rated value | 20 A |
| - at 110 V rated value | 2.1 A |
| - at 220 V rated value | 0.8 A |
| - at 440 V rated value | 0.6 A |
| with 2 current paths in series at DC-1 |  |
| - at 24 V rated value | 20 A |
| - at 110 V rated value | 12 A |
| - at 220 V rated value | 1.6 A |
| - at 440 V rated value | 0.8 A |
| Operating current |  |
| at 1 current path at DC-3 at DC-5 |  |
| - at 24 V per NC contact rated value | 20 A |
| - at 24 V per NO contact rated value | 20 A |
| - at 110 V per NC contact rated value | 0.075 A |
| - at 110 V per NO contact rated value | 0.15 A |
| - at 220 V per NC contact rated value | 0.375 A |
| - at 220 V per NO contact rated value | 0.75 A |
| with 2 current paths in series at DC-3 at DC-5 |  |
| - at 110 V per NC contact rated value | 0.175 A |
| - at 110 V per NO contact rated value | 0.35 A |
| - at 24 V per NC contact rated value | 20 A |
| - at 24 V per NO contact rated value | 20 A |
| Operating power |  |
| at AC-1 |  |


| - at 230 V rated value | 7.5 kW |
| :---: | :---: |
| - at 400 V rated value | 13 kW |
| at AC-2 at AC-3 |  |
| - at 230 V per NC contact rated value | 3 kW |
| - at 230 V per NO contact rated value | 3 kW |
| - at 400 V per NC contact rated value | 5.5 kW |
| - at 400 V per NO contact rated value | 5.5 kW |
| Power loss [W] at AC-3 at 400 V for rated value of the operating current per conductor | 0.7 W |
| Operating frequency |  |
| at AC-1 maximum | 1000 1/h |
| Control circuit/ Control: |  |
| Type of voltage of the control supply voltage | DC |
| Control supply voltage at DC |  |
| rated value | 125 V |
| Operating range factor control supply voltage rated value of magnet coil at DC | 0.85 ... 1.1 |
| Closing power of magnet coil at DC | 3.3 W |
| Holding power of magnet coil at DC | 3.3 W |
| Closing delay |  |
| at AC | $8 \ldots 35 \mathrm{~ms}$ |
| at DC | $25 \ldots 100 \mathrm{~ms}$ |
| Opening delay |  |
| at AC | $4 \ldots 30 \mathrm{~ms}$ |
| at DC | $7 \ldots 10 \mathrm{~ms}$ |
| Arcing time | $10 \ldots 15 \mathrm{~ms}$ |
| Control version of the switch operating mechanism | conventional |
| Residual current of the electronics for control with signal <0> |  |
| at DC at 24 V maximum permissible | 0.01 A |
| Auxiliary circuit: |  |
| Number of NC contacts |  |
| for auxiliary contacts |  |
| - instantaneous contact | 0 |
| Number of NO contacts |  |
| for auxiliary contacts |  |
| - instantaneous contact | 0 |
| Operating current at AC-12 maximum | 10 A |
| Operating current at AC-15 |  |


| at 230 V rated value | 6 A |
| :---: | :---: |
| at 400 V rated value | 3 A |
| Operating current at DC-12 |  |
| at 60 V rated value | 6 A |
| at 110 V rated value | 3 A |
| at 220 V rated value | 1 A |
| Operating current at DC-13 |  |
| at 24 V rated value | 10 A |
| at 60 V rated value | 2 A |
| at 110 V rated value | 1 A |
| at 220 V rated value | 0.3 A |
| Contact reliability of auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA ) |
| Short-circuit protection |  |
| Design of the fuse link |  |
| for short-circuit protection of the main circuit |  |
| - with type of coordination 1 required | fuse gL/gG: 35 A |
| - with type of assignment 2 required | fuse gL/gG: 20 A |
| for short-circuit protection of the auxiliary switch required | fuse gL/gG: 10 A |
| Installation/ mounting/ dimensions: |  |
| Mounting position | with vertical mounting surface $+/-180^{\circ}$ rotatable, with vertical mounting surface $+/-30^{\circ}$ tiltable to the front and back |
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail according to DIN EN 50022 |
| Side-by-side mounting | Yes |
| Height | 57.5 mm |
| Witd> | 45 mm |
| Depth | 72 mm |
| Required spacing |  |
| for grounded parts |  |
| - at the side | 6 mm |
| Connections/Terminals: |  |
| Type of electrical connection |  |
| for main current circuit | screw-type terminals |
| for auxiliary and control current circuit | screw-type terminals |
| Type of connectable conductor cross-sections |  |
| for main contacts |  |
| - solid | $\begin{aligned} & \text { 2x }\left(0.5 \ldots 1.5 \mathrm{~mm}^{2}\right), 2 x\left(0.75 \ldots 2.5 \mathrm{~mm}^{2}\right), \max .2 x(0.75 \\ & \left.\ldots 4 \mathrm{~mm}^{2}\right) \end{aligned}$ |


| - single or multi-stranded | $\begin{aligned} & 2 x\left(0,5 \ldots 1,5 \mathrm{~mm}^{2}\right), 2 x\left(0,75 \ldots 2,5 \mathrm{~mm}^{2}\right), \text { max. } 2 x(0,75 \\ & \left.\ldots 4 \mathrm{~mm}^{2}\right) \end{aligned}$ |
| :---: | :---: |
| - finely stranded with core end processing | $2 \times\left(0.5 \ldots 1.5 \mathrm{~mm}^{2}\right), 2 \times\left(0.75 \ldots 2.5 \mathrm{~mm}^{2}\right)$ |
| at AWG conductors for main contacts | $2 \times(20 \ldots 16), 2 \times(18 \ldots 14), 1 \times 12$ |
| Type of connectable conductor cross-sections |  |
| for auxiliary contacts |  |
| - solid | $\begin{aligned} & 2 x\left(0.5 \ldots 1.5 \mathrm{~mm}^{2}\right), 2 x\left(0.75 \ldots 2.5 \mathrm{~mm}^{2}\right) \text {, max. } 2 x(0.75 \\ & \left.\ldots 4 \mathrm{~mm}^{2}\right) \end{aligned}$ |
| - single or multi-stranded | $\begin{aligned} & 2 \times\left(0,5 \ldots 1,5 \mathrm{~mm}^{2}\right), 2 \times\left(0,75 \ldots 2,5 \mathrm{~mm}^{2}\right) \text {, max. } 2 \times(0,75 \\ & \left.\ldots 4 \mathrm{~mm}^{2}\right) \end{aligned}$ |
| - finely stranded with core end processing | $2 \times\left(0.5 \ldots 1.5 \mathrm{~mm}^{2}\right), 2 \times\left(0.75 \ldots 2.5 \mathrm{~mm}^{2}\right)$ |
| at AWG conductors for auxiliary contacts | $2 \times(20 \ldots 16), 2 x(18 \ldots 14), 1 \times 12$ |
| Safety related data: |  |
| Failure rate [FIT] |  |
| with low demand rate acc. to SN 31920 | 100 FIT |

