SIEMENS

Data sheet 3RT1035-1BB40



CONTACTOR, AC-3 18.5 KW/400 V, DC 24 V, 3-POLE, SIZE S2, SCREW CONNECTION

Figure similar

| product brand name | SIRIUS |
|---------------------|-----------------|
| Product designation | power contactor |

| General technical data: | |
|--|------------|
| Insulation voltage | |
| Rated value | 690 V |
| Degree of pollution | 3 |
| Surge voltage resistance Rated value | 6 kV |
| Mechanical service life (switching cycles) | |
| of the contactor typical | 10 000 000 |
| of the contactor with added electronics- compatible auxiliary switch block typical | 5 000 000 |
| of the contactor with added auxiliary switch block typical | 10 000 000 |
| Thermal short-time current restricted to 10 s | 400 A |
| Protection class IP | |
| • on the front | IP00 |
| • of the terminal | IP00 |
| Equipment marking | |
| • acc. to DIN EN 61346-2 | Q |
| • acc. to DIN EN 81346-2 | Q |
| NA-in-sinsula | |

| • at AC-1 | |
|--|---------|
| — at 400 V at ambient temperature 40 °C | 60 A |
| Rated value | |
| — up to 690 V at ambient temperature 40 $^{\circ}\text{C}$ | 60 A |
| Rated value | |
| — up to 690 V at ambient temperature 60 °C | 55 A |
| Rated value | |
| • at AC-3 | |
| — at 400 V Rated value | 40 A |
| — at 690 V Rated value | 24 A |
| at AC-4 at 400 V Rated value | 35 A |
| Operating current with 1 current path | |
| • at DC-1 | |
| — at 24 V Rated value | 55 A |
| — at 110 V Rated value | 4.5 A |
| • at DC-3 at DC-5 | |
| — at 24 V Rated value | 35 A |
| — at 110 V Rated value | 2.5 A |
| Operating current with 2 current paths in series | |
| • at DC-1 | |
| — at 24 V Rated value | 55 A |
| — at 110 V Rated value | 25 A |
| • at DC-3 at DC-5 | |
| — at 110 V Rated value | 25 A |
| — at 24 V Rated value | 55 A |
| Operating current with 3 current paths in series | |
| • at DC-1 | |
| — at 24 V Rated value | 55 A |
| — at 110 V Rated value | 55 A |
| • at DC-3 at DC-5 | |
| — at 110 V Rated value | 55 A |
| — at 24 V Rated value | 55 A |
| Operating power | |
| • at AC-1 | |
| — at 230 V at 60 °C Rated value | 22 kW |
| — at 690 V at 60 °C Rated value | 66 kW |
| Operating power for ≥ 200000 operating cycles at AC-4 | |
| • at 400 V Rated value | 9.5 kW |
| • at 690 V Rated value | 11.4 kW |
| Active power loss at AC-3 at 400 V for rated value of | 2.6 W |
| the operating current per conductor | |
| | |

| Operating frequency | |
|-----------------------------|-----------|
| • at AC-1 maximum | 1 200 1/h |
| • at AC-2 maximum | 600 1/h |
| • at AC-3 maximum | 1 000 1/h |
| • at AC-4 maximum | 300 1/h |
| No-load switching frequency | |
| • for DC | 1 500 1/h |
| | |

| Control circuit/ Control: | |
|---|---------|
| Type of voltage of the control supply voltage | DC |
| Control supply voltage for DC | |
| Rated value | 24 V |
| Operating range factor control supply voltage rated value of the magnet coil for DC | 0.8 1.1 |
| Closing power of the magnet coil for DC | 13.3 W |
| Holding power of the magnet coil for DC | 13.3 W |

| 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-15 | |
| ● at 230 V Rated value | 6 A |
| ● at 400 V Rated value | 3 A |
| Contact reliability of the auxiliary contacts | 1 faulty switching per 100 million (17 V, 1 mA) |

| UL/CSA ratings: | |
|---|-------------|
| Contact rating of the auxiliary contacts acc. to UL | A600 / Q600 |

| Short-circuit: | |
|--|-------------------|
| Design of the fuse link | |
| • for short-circuit protection of the main circuit | |
| — with type of assignment 1 required | fuse gL/gG: 125 A |
| — with type of assignment 2 required | fuse gL/gG: 63 A |
| • for short-circuit protection of the auxiliary switch | fuse gL/gG: 10 A |
| required | |

| Installation/ mounting/ dimensions: | |
|-------------------------------------|--|
| Mounting type | screw and snap-on mounting onto 35 mm standard mounting rail |
| | according to DIN EN 50022 |
| Side-by-side mounting | Yes |
| Height | 112 mm |
| Width | 55 mm |

| Depth | 130 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-section | |
| • for main contacts | |
| — solid | 2x (0.75 16 mm²) |
| — stranded | 2x (0.75 25 mm²) |
| single or multi-stranded | 2x (0,75 16 mm²) |
| finely stranded with core end processing | 2x (0.75 16 mm²) |
| finely stranded without core end | 2x (0.75 16 mm²) |
| processing | |
| for AWG conductors for main contacts | 2x (18 2) |
| for auxiliary contacts | |
| — solid | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²), max. 2x (0.75 4 mm²) |
| finely stranded with core end processing | 2x (0.5 1.5 mm²), 2x (0.75 2.5 mm²) |
| • for AWG conductors for auxiliary contacts | 2x (20 16), 2x (18 14), 1x 12 |
| Mechanical data: | |
| Size of contactor | S2 |
| Ambient conditions: | |
| Installation altitude at height above sea level | 2 000 m |
| maximum | |
| Ambient temperature | |
| during operation | -25 +60 °C |
| during storage | -55 +80 °C |
| Certificates/ approvals: | |

General Product Approval Functional Declaration of Safety/Safety Of Machinery Functional One Conformity Certificates







Type Examination



Type Test
Certificates/Test
Report

Test Certificates

Shipping Approval

Special Test Certificate other







GL



LRS

Shipping Approval

other





Environmental Confirmations

Confirmation

other

Further informatior

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

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

Industry Mall (Online ordering system)

http://www.siemens.com/industrymall

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RT10351BB40

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RT10351BB40

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RT10351BB40&lang=en



