SIEMENS

Data sheet 3RW3047-1BB04



SIRIUS soft starter S3 106 A, 55 kW/400 V, 40 °C 200-480 V AC, 24 V AC/DC Screw terminals

| General technical data | | |
|--|----|--------------------------|
| product brand name | | SIRIUS |
| product feature | | |
| integrated bypass contact system | | Yes |
| • thyristors | | Yes |
| product function | | |
| intrinsic device protection | | No |
| motor overload protection | | No |
| evaluation of thermistor motor protection | | No |
| external reset | | No |
| adjustable current limitation | | No |
| inside-delta circuit | | No |
| product component motor brake output | | No |
| insulation voltage rated value | V | 600 |
| degree of pollution | | 3, acc. to IEC 60947-4-2 |
| reference code according to EN 61346-2 | | Q |
| reference code according to DIN 40719 extended according to IEC 204-2 according to IEC 750 | | G |
| Power Electronics | | |
| product designation | | Soft starter |
| operational current | | |
| at 40 °C rated value | Α | 106 |
| at 50 °C rated value | Α | 98 |
| at 60 °C rated value | Α | 90 |
| yielded mechanical performance for 3-phase motors | | |
| • at 230 V | | |
| at standard circuit at 40 °C rated value | kW | 30 |
| • at 400 V | | |
| — at standard circuit at 40 °C rated value | kW | 55 |
| yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value | hp | 30 |
| operating frequency rated value | Hz | 50 60 |
| relative negative tolerance of the operating frequency | % | -10 |
| relative positive tolerance of the operating frequency | % | 10 |
| operating voltage at standard circuit rated value | V | 200 480 |
| relative negative tolerance of the operating voltage at standard circuit | % | -15 |
| relative positive tolerance of the operating voltage at standard circuit | % | 10 |
| minimum load [%] | % | 10 |
| continuous operating current [% of le] at 40 °C | % | 115 |
| power loss [W] at operational current at 40 °C during | W | 21 |

| operation typical | | |
|--|-----|---|
| Control circuit/ Control | | |
| type of voltage of the control supply voltage | | AC/DC |
| control supply voltage frequency 1 rated value | Hz | 50 |
| control supply voltage frequency 2 rated value | Hz | 60 |
| relative negative tolerance of the control supply | % | -10 |
| voltage frequency | 70 | |
| relative positive tolerance of the control supply | % | 10 |
| voltage frequency | | |
| control supply voltage 1 at AC | | |
| at 50 Hz rated value | V | 24 |
| at 60 Hz rated value | V | 24 |
| relative negative tolerance of the control supply | % | -15 |
| voltage at AC at 50 Hz | | |
| relative positive tolerance of the control supply | % | 10 |
| voltage at AC at 50 Hz | 0.4 | |
| relative negative tolerance of the control supply voltage at AC at 60 Hz | % | -15 |
| relative positive tolerance of the control supply | % | 10 |
| voltage at AC at 60 Hz | 70 | 10 |
| control supply voltage 1 at DC rated value | V | 24 |
| relative negative tolerance of the control supply | % | -15 |
| voltage at DC | 70 | |
| relative positive tolerance of the control supply | % | 10 |
| voltage at DC | | |
| display version for fault signal | | red |
| Mechanical data | | |
| size of engine control device | | S3 |
| width | mm | 70 |
| height | mm | 170 |
| depth | mm | 190 |
| fastening method | | screw and snap-on mounting |
| mounting position | | With vertical mounting surface +/-10° rotatable, with |
| | | vertical mounting surface +/- 10° tiltable to the front and |
| | | back |
| required spacing with side-by-side mounting | | |
| • upwards | mm | 60 |
| at the side | mm | 30 |
| • downwards | mm | 40 |
| wire length maximum | m | 300 |
| number of poles for main current circuit | | 3 |
| Connections/ Terminals | | |
| type of electrical connection | | |
| for main current circuit | | screw-type terminals |
| for auxiliary and control circuit | | screw-type terminals |
| number of NC contacts for auxiliary contacts | | 0 |
| number of NO contacts for auxiliary contacts | | 1 |
| number of CO contacts for auxiliary contacts | | 0 |
| type of connectable conductor cross-sections for main contacts for box terminal using the front clamping point | | |
| • solid | | 2x (2.5 16 mm²) |
| finely stranded with core end processing | | 2.5 35 mm² |
| • stranded | | 4 70 mm ² |
| type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point | | |
| • solid | | 2x (2.5 16 mm²) |
| | | |
| finely stranded with core end processing stranded | | 2.5 50 mm ² |
| stranded type of connectable conductor error continue for | | 10 70 mm² |
| type of connectable conductor cross-sections for main contacts for box terminal using both clamping points | | |
| • solid | | 2x (2.5 16 mm²) |
| finely stranded with core end processing | | 2x (2.5 35 mm²) |
| • stranded | | 2x (10 50 mm²) |
| | | |

| type of connectable conductor cross-sections at AWG cables for main contacts for box terminal | | |
|---|----|---|
| using the back clamping point | | 10 2/0 |
| using the front clamping point | | 10 2/0 |
| using both clamping points | | 2x (10 1/0) |
| type of connectable conductor cross-sections for DIN cable lug for main contacts | | |
| finely stranded | | 2 x (10 50 mm²) |
| stranded | | 2x (10 70 mm²) |
| type of connectable conductor cross-sections for auxiliary contacts | | ` , |
| • solid | | 2x (0.5 2.5 mm²) |
| finely stranded with core end processing | | 2x (0.5 1.5 mm²) |
| type of connectable conductor cross-sections at AWG cables | | |
| for main contacts | | 2x (7 1/0) |
| for auxiliary contacts | | 2x (20 14) |
| Ambient conditions | | |
| installation altitude at height above sea level | m | 5 000 |
| environmental category | | |
| during transport according to IEC 60721 | | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m) |
| during storage according to IEC 60721 | | 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4 |
| during operation according to IEC 60721 | | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 |
| ambient temperature | | |
| during operation | °C | -25 +60 |
| during storage | °C | -40 +80 |
| derating temperature | °C | 40 |
| protection class IP on the front according to IEC 60529 | | IP20 |
| touch protection on the front according to IEC 60529 | | finger-safe, for vertical contact from the front |
| Certificates/ approvals | | |

General Product Approval

EMC



EG-Konf.



Confirmation







| Declaration of Conformity | Test Certificates | | other | | Railway |
|---------------------------|------------------------------------|--------------------------|--------------|----------------------|---------------------|
| C€ | Type Test Certificates/Test Report | Special Test Certificate | Confirmation | <u>Miscellaneous</u> | Vibration and Shock |

| UL/CSA ratings | | | |
|--|----|-------------|--|
| yielded mechanical performance [hp] for 3-phase AC motor | | | |
| • at 220/230 V | | | |
| at standard circuit at 50 °C rated value | hp | 30 | |
| • at 460/480 V | | | |
| — at standard circuit at 50 °C rated value | hp | 75 | |
| contact rating of auxiliary contacts according to UL | | B300 / R300 | |
| Further information | | | |

Further information

Simulation Tool for Soft Starters (STS)
https://support.industry.siemens.com/cs/ww/en/view/101494917

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

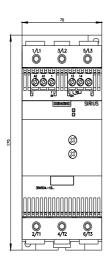
https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW3047-1BB04

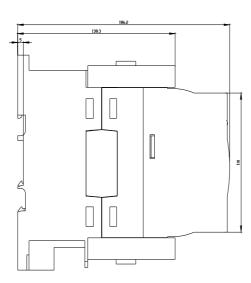
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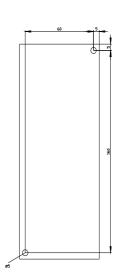
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW3047-1BB04

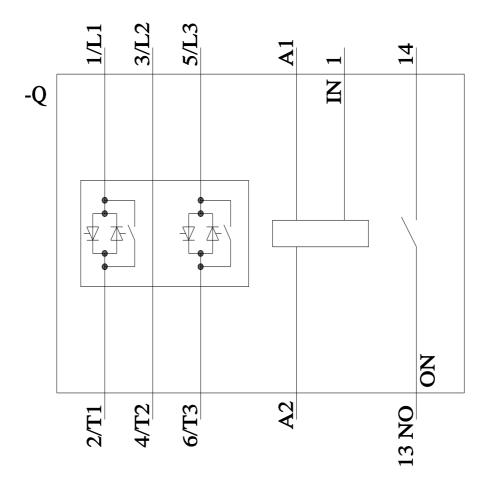
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW3047-1BB04

 $Image\ database\ (product\ images,\ 2D\ dimension\ drawings,\ 3D\ models,\ device\ circuit\ diagrams,\ EPLAN\ macros,\ ...)$ http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3047-1BB04&lang=en









last modified: 1/16/2022 🖸