SIEMENS

Data sheet

3RW3017-2BB14



SIRIUS soft starter S00 12.5 A, 5.5 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 110-230 V AC/DC spring-type 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 | А | 12.5 |
| • at 50 °C rated value | А | 12 |
| • at 60 °C rated value | А | 11 |
| yielded mechanical performance for 3-phase motors | | |
| • at 230 V | | |
| — at standard circuit at 40 °C rated value | kW | 3 |
| • at 400 V | | |
| - at standard circuit at 40 °C rated value | kW | 5.5 |
| yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value | hp | 3 |
| 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 operation typical | W | 2 | | |
|---|----|--|--|--|
| 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 voltage frequency | % | -10 | | |
| relative positive tolerance of the control supply voltage frequency | % | 10 | | |
| control supply voltage 1 at AC at 50 Hz | V | 110 230 | | |
| control supply voltage 1 at AC at 60 Hz | V | 110 230 | | |
| relative negative tolerance of the control supply voltage at AC at 50 Hz | % | -15 | | |
| relative positive tolerance of the control supply voltage at AC at 50 Hz | % | 10 | | |
| relative negative tolerance of the control supply voltage at AC at 60 Hz | % | -15 | | |
| relative positive tolerance of the control supply voltage at AC at 60 Hz | % | 10 | | |
| control supply voltage 1 at DC | V | 110 230 | | |
| relative negative tolerance of the control supply voltage at DC | % | -20 | | |
| relative positive tolerance of the control supply voltage at DC | % | 20 | | |
| display version for fault signal | | red | | |
| Mechanical data | | | | |
| size of engine control device | | S00 | | |
| width | mm | 45 | | |
| height | mm | 120 | | |
| depth | mm | 150 | | |
| 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 | 15 | | |
| 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 | | spring-loaded terminals | | |
| for auxiliary and control circuit | | spring-loaded 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 (1 2.5 mm²), 2x (2.5 6 mm²) | | |
| finely stranded with core end processing | | 2x (1 2.5 mm²), 2x (2.5 6 mm²) | | |
| type of connectable conductor cross-sections for AWG cables for main contacts for box terminal | | | | |
| using the front clamping point | | 2x (16 10) | | |
| type of connectable conductor cross-sections for main contacts | | | | |
| • solid | | 1 4 mm ² | | |
| finely stranded with core end processing | | 1 2.5 mm² | | |
| type of connectable conductor cross-sections for auxiliary contacts | | | | |
| • solid | | 2x (0.25 2.5 mm ²) | | |
| finely stranded with core end processing | | 2x (0.25 1.5 mm²) | | |
| type of connectable conductor cross-sections for AWG cables | | | | |
| for main contacts | | 16 12 | | |
| | | | | |

| for auxiliary contacts | | 2x (24 14) | | | | |
|---|--|--|---------------|--|-----|--|
| Ambient conditions | | | | | | |
| installation altitude at height above sea level | | m | 5 000 | | | |
| environmental category | | | | | | |
| during transport according to IEC 60721 | | | 2K2, 2C1, 2S1 | I, 2M2 (max. fall height 0.3 | sm) | |
| during storage according to IEC 60721 | | | | casional condensation), 1C2 (no salt mist), 1S2 ot get inside the devices), 1M4 | | |
| during operation according to IEC 60721 | | | | ormation of ice, no condensation), 3C3 (no salt mist), d must not get into the devices), 3M6 | | |
| ambient temperature | | | | | | |
| during operation | | °C | -25 +60 | +60 | | |
| during storage | | °C | -40 +80 | .0 +80 | | |
| derating temperature | | °C | 40 | 0 | | |
| protection class IP on the front according to IEC 60529 | | | IP20 | IP20 | | |
| touch protection on the front according to IEC 6052 | | finger-safe, for vertical contact from the front | | | | |
| Certificates/ approvals | | | | | | |
| General Product Approval | | | | | EMC | |
| | | | Ű, | FHT | RCM | |
| Declaration of Conformity Tes | t Certificat | es othe | er | | | |
| | K Type Test Certific- ates/Test Report Miscellaneous Confirmation | | | | | |
| UL/CSA ratings | | | | | | |
| yielded mechanical performance [hp] for 3-phase A | C motor | | | | | |
| • at 220/230 V | | | | | | |
| — at standard circuit at 50 °C rated value | | hp | 3 | | | |
| • at 460/480 V | | | | | | |
| | — at standard circuit at 50 °C rated value | | 7.5 | | | |

B300 / R300

contact rating of auxiliary contacts according to UL







