SIEMENS

Data sheet

3RW4027-1TB04



SIRIUS soft starter S0 32 A, 15 kW/400 V, 40 $^\circ\text{C}$ 200-480 V AC, 24 V AC/DC Screw terminals Thermistor motor protection

| General technical data | | |
|---|----|--------------------------|
| product brand name | | SIRIUS |
| product designation | - | Soft starter |
| product feature | | |
| integrated bypass contact system | | Yes |
| thyristors | | Yes |
| product function | | |
| intrinsic device protection | | Yes |
| motor overload protection | | Yes |
| evaluation of thermistor motor protection | | Yes |
| external reset | | Yes |
| adjustable current limitation | | Yes |
| 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 |
| blocking voltage of the thyristor maximum | V | 1 600 |
| 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 | | |
| operational current | | |
| • at 40 °C rated value | А | 32 |
| • at 50 °C rated value | А | 29 |
| • at 60 °C rated value | А | 26 |
| yielded mechanical performance for 3-phase motors | | |
| • at 230 V | | |
| — at standard circuit at 40 °C rated value | kW | 7.5 |
| • at 400 V | | |
| — at standard circuit at 40 °C rated value | kW | 15 |
| yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value | hp | 7.5 |
| 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 |
| | | |

| adjustable motor current for motor overload protection minimum rated value | А | 17 |
|---|----|--|
| continuous operating current [% of le] at 40 °C | % | 115 |
| power loss [W] at operational current at 40 °C during operation typical | W | 13 |
| 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 rated value | V | 24 |
| • at 60 Hz rated value | V | 24 |
| 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 rated value | V | 24 |
| 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 | | S0 |
| width | mm | 45 |
| height | mm | 125 |
| depth | mm | 155 |
| fastening method | | screw and snap-on mounting |
| mounting position | | With additional fan: With vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting |
| required spacing with side-by-side mounting | | surface +/-10° rotatable, with vertical mounting surface +/- 10° t |
| upwards | mm | 60 |
| • at the side | | 15 |
| • downwards | mm | 40 |
| | m | 300 |
| wire length maximum | | 3 |
| number of poles for main current circuit Connections/ Terminals | | |
| | | |
| type of electrical connection | | |
| for main current circuit for auxiliany and control 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 | | 2 |
| number of CO contacts for auxiliary contacts type of connectable conductor cross-sections for main | | 1 |
| contacts for box terminal using the front clamping point | | |
| • solid | | 2x (1 2.5 mm ²), 2x (2.5 6 mm ²), max. 1x 10 mm ² |
| 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 | | 1x 8, 2x (16 10) |
| 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 for AWG | | |
| cables | | |

| for auxiliary cont | acts | | 21 | | | | |
|---|--|--|----------------------------------|--|---------------------|---------------------|---------------------------|
| | acts finely stranded with | core end | | x (20 14) x (20 16) | | | |
| processing | acts intery stranded with | core enu | 27 | x (20 10) | | | |
| Ambient conditions | | | | | | | |
| installation altitude at | height above sea level | l r | m 5 | 000 | | | |
| environmental catego | | | | | | | |
| - | according to IEC 60721 | | 2 | K2. 2C1. 2S1. | , 2M2 (max. fall h | eiaht 0.3 n | 1) |
| ÷ . | ccording to IEC 60721 | | | | | - | no salt mist), 1S2 |
| 0 0 | 0 | | | | get inside the de | | |
| during operation | according to IEC 60721 | | | | | | , 3C3 (no salt mist), |
| | | | 33 | S2 (sand mus | t not get into the | devices), 3 | SIMI6 |
| ambient temperature | | | _ | | | | |
| during operation | | | | 25 +60 | | | |
| during storage | | | | 0 +80 | | | |
| derating temperature | the frent coordina to | | C 40 | | | | |
| - | the front according to | | | 20 | | | |
| | ne front according to IE | C 60529 | TIR | nger-sate, tor | vertical contact fi | om the fro | nt |
| Environmental footprin | | | | 24 | _ | _ | _ |
| Global Warming Potent | | | 5 | 21 | | | |
| | tial [CO2 eq] during manu | | 0 | 24 | | | |
| | al [CO2 eq] during sales | | | .207 | | | |
| | tial [CO2 eq] during operation | | 5 | 17 | | | |
| • | tial [CO2 eq] after end of | lite | (g -0 | .229 | | | |
| JL/CSA ratings | | | | _ | _ | _ | _ |
| | erformance [hp] for 3-p | hase AC motor | | | | | |
| • at 220/230 V | | | | - | | | |
| | circuit at 50 °C rated val | iue r | ip 7. | .5 | | | |
| • at 460/480 V | aircuit at E0 °C rated val | hua h | | 0 | | | |
| — at standard | circuit at 50 °C rated val | iue r | ip 20 | J | | | |
| contact rating of auxi | liam contacto coordin | a to III | D | 200 / 0200 | | | |
| - | liary contacts according | g to UL | B | 300 / R300 | _ | _ | |
| Approvals Certificates | - | g to UL | B | 300 / R300 | 5407 | _ | _ |
| - | - | g to UL | B | 300 / R300 | EMV | | |
| Approvals Certificates | roval | g to UL | B | 300 / R300 | EMV | | КС |
| Approvals Certificates | - | g to UL | E | 300 / R300 | EMV | | KC |
| Approvals Certificates | roval | g to UL | E | 300 / R300 | EMV | ` | KC |
| Approvals Certificates | roval | | B | 300 / R300 | EMV RCM | > | KC |
| Approvals Certificates | roval | g to UL | B E | 300 / R300 | EMV RCM | \$ | KC |
| Approvals Certificates General Product App | roval <u>Confirmation</u> | | E | 300 / R300 | RCM | ` | KC |
| Approvals Certificates | roval <u>Confirmation</u> | g to UL | Ē | 300 / R300 | EMV ECM RCM | ping | KC |
| Approvals Certificates General Product App | roval <u>Confirmation</u> | | E | 300 / R300 | RCM | ping | KC |
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