

SIRIUS soft starter S00 6.5 A, 3 kW/400 V, 40 °C 200-480 V AC, 24 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 | A | 6.5 |
| • at 50 °C rated value | A | 6 |
| • at 60 °C rated value | A | 5.5 |
| yielded mechanical performance for 3-phase motors | | |
| • at 230 V | | |
| — at standard circuit at 40 °C rated value | kW | 1.5 |
| • at 400 V | | |
| — at standard circuit at 40 °C rated value | kW | 3 |
| yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value | hp | 1 |
| 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 I _e] at 40 °C | % | 115 |
| power loss [W] at operational current at 40 °C during operation typical | W | 0.5 |
| 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 | | 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 mm ²), 2x (2.5 ... 6 mm ²) |
| • finely stranded with core end processing | | 2x (1 ... 2.5 mm ²), 2x (2.5 ... 6 mm ²) |
| 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 mm ² |
| 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 mm ²) |
| 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, 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 |
|--------------------------|-----|



Confirmation



| | | |
|---------------------------|-------------------|-------|
| Declaration of Conformity | Test Certificates | other |
|---------------------------|-------------------|-------|



EG-Konf.

Type Test Certificates/Test Report

Confirmation Miscellaneous

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 | 1 |
| • at 460/480 V | | |
| — at standard circuit at 50 °C rated value | hp | 3 |
| contact rating of auxiliary contacts according to UL | | B300 / R300 |

