## SIEMENS

Data sheet


SIRIUS soft starter S2 $72 \mathrm{~A}, 37 \mathrm{~kW} / 400 \mathrm{~V}, 40^{\circ} \mathrm{C}$ 200-480 V AC, 24 V AC/DC Screw terminals

| General technical data |  |  |
| :---: | :---: | :---: |
| product brand name |  | SIRIUS |
| product feature <br> - integrated bypass contact system <br> - thyristors |  | Yes <br> Yes |
| product function <br> - intrinsic device protection <br> - motor overload protection <br> - evaluation of thermistor motor protection <br> - external reset <br> - adjustable current limitation <br> - inside-delta circuit |  | No <br> No <br> No <br> No <br> No <br> 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 <br> - at $40^{\circ} \mathrm{C}$ rated value <br> - at $50^{\circ} \mathrm{C}$ rated value <br> - at $60^{\circ} \mathrm{C}$ rated value | A <br> A <br> A | $\begin{aligned} & 72 \\ & 62 \\ & 60 \end{aligned}$ |
| yielded mechanical performance for 3-phase motors <br> - at 230 V <br> — at standard circuit at $40^{\circ} \mathrm{C}$ rated value <br> - at 400 V <br> — at standard circuit at $40^{\circ} \mathrm{C}$ rated value | kW kW | $\begin{aligned} & 22 \\ & 37 \end{aligned}$ |
| yielded mechanical performance [hp] for 3-phase AC motor at $200 / 208 \mathrm{~V}$ at standard circuit at $50^{\circ} \mathrm{C}$ rated value | hp | 20 |
| 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 $40^{\circ} \mathrm{C}$ | \% | 115 |


| power loss [W] at operational current at $40^{\circ} \mathrm{C}$ during operation typical | W | 15 |
| :---: | :---: | :---: |
| 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 $A C$ at 50 Hz | \% | -10 |
| relative positive tolerance of the control supply voltage at $A C$ at 50 Hz | \% | 10 |
| relative negative tolerance of the control supply voltage at $A C$ at 60 Hz | \% | -10 |
| relative positive tolerance of the control supply voltage at $A C$ at 60 Hz | \% | 10 |
| control supply voltage 1 at DC rated value | V | 24 |
| relative negative tolerance of the control supply voltage at DC | \% | -10 |
| relative positive tolerance of the control supply voltage at DC | \% | 10 |
| display version for fault signal |  | red |
| Mechanical data |  |  |
| size of engine control device |  | S2 |
| width | mm | 55 |
| height | mm | 160 |
| depth | mm | 170 |
| fastening method |  | screw and snap-on mounting |
| mounting position |  | With vertical mounting surface $+/-10^{\circ}$ rotatable, with vertical mounting surface $+/-10^{\circ}$ tiltable to the front and back |
| required spacing with side-by-side mounting <br> - upwards <br> - at the side <br> - downwards | mm <br> mm <br> mm | $\begin{aligned} & 60 \\ & 30 \\ & 40 \end{aligned}$ |
| wire length maximum | m | 300 |
| number of poles for main current circuit |  | 3 |
| Connections/ Terminals |  |  |
| type of electrical connection <br> - for main current circuit <br> - for auxiliary and control circuit |  | screw-type terminals 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 <br> - solid <br> - finely stranded with core end processing <br> - stranded |  | $\begin{aligned} & 2 \times\left(1.5 \ldots 16 \mathrm{~mm}^{2}\right) \\ & 1.5 \ldots 25 \mathrm{~mm}^{2} \\ & 1.5 \ldots 35 \mathrm{~mm}^{2} \end{aligned}$ |
| type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point <br> - solid <br> - finely stranded with core end processing <br> - stranded |  | $\begin{aligned} & 2 \times\left(1.5 \ldots 16 \mathrm{~mm}^{2}\right) \\ & 1.5 \ldots 25 \mathrm{~mm}^{2} \\ & 1.5 \ldots 35 \mathrm{~mm}^{2} \end{aligned}$ |
| type of connectable conductor cross-sections for main contacts for box terminal using both clamping points <br> - solid <br> - finely stranded with core end processing <br> - stranded |  | $\begin{aligned} & 2 x\left(1.5 \ldots 16 \mathrm{~mm}^{2}\right) \\ & 2 x\left(1.5 \ldots 16 \mathrm{~mm}^{2}\right) \\ & 2 x\left(1.5 \ldots 25 \mathrm{~mm}^{2}\right) \end{aligned}$ |

type of connectable conductor cross-sections for AWG cables for main contacts for box terminal


## Railway

Confirmation Vibration and Shock

## UL/CSA ratings

## yielded mechanical performance [hp] for 3-phase AC motor

- at 220/230 V
- at standard circuit at $50^{\circ} \mathrm{C}$ rated value
- at 460/480 V
— at standard circuit at $50^{\circ} \mathrm{C}$ rated value
contact rating of auxiliary contacts according to UL

|  |  |
| :--- | :--- |
| hp | 20 |
| hp | 40 |
|  | $B 300 / R 300$ |

## Further information

Siemens has decided to exit the Russian market (see here).
https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business
Siemens is working on the renewal of the current EAC certificates.
Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).
Simulation Tool for Soft Starters (STS)
https://support.industry.siemens.com/cs/ww/en/view/101494917

Information on the packaging
https://support.industry.siemens.com/cs/ww/en/view/109813875
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=3RW3038-1BB04
Cax online generator
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en\&mlfb=3RW3038-1BB04
Service\&Support (Manuals, Certificates, Characteristics, FAQs,...)
https://support.industry.siemens.com/cs/ww/en/ps/3RW3038-1BB04
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3038-1BB04\&lang=en



