SIEMENS

Data sheet

3RW3036-2BB14



SIRIUS soft starter S2 45 A, 22 kW/400 V, 40 °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 | | G |
| according to IEC 204-2 according to IEC 750 Power Electronics | | |
| product designation | | Soft starter |
| operational current | | Soft statter |
| at 40 °C rated value | А | 45 |
| at 50 °C rated value | A | 42 |
| at 60 °C rated value | A | 39 |
| yielded mechanical performance for 3-phase motors | ~ | 59 |
| • at 230 V | | |
| - at standard circuit at 40 °C rated value | kW | 11 |
| • at 400 V | | |
| at standard circuit at 40 °C rated value | kW | 22 |
| yielded mechanical performance [hp] for 3-phase AC | hp | 10 |
| motor at 200/208 V at standard circuit at 50 °C rated value | | |
| 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 | 6 |

| 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 | | |
| 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 | % | -10 |
| 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 | % | -10 |
| 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 | % | -10 |
| voltage at DC relative tolerance of the control supply | % | 10 |
| voltage at DC | | and |
| display version for fault signal | | red |
| Mechanical data | | |
| size of engine control device | 200 | S2 |
| width | mm | 55 160 |
| height depth | mm mm | 170 |
| 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 | | orrow two terminals |
| for main current circuit for auxiliary and control circuit | | screw-type terminals spring-loaded terminals |
| • for auxiliary and control circuit number of NC contacts for auxiliary contacts | | o |
| 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 | | $2x(1 - 16 mm^2)$ |
| solid finally stranded with core and processing | | 2x (1.5 16 mm²) 1.5 25 mm² |
| finely stranded with core end processing stranded | | 1.5 25 mm ² |
| type of connectable conductor cross-sections for main contacts for box terminal using the back | | |
| clamping point | | $2 \times (1.5 - 1.6 \text{ mm}^2)$ |
| solid finely stranded with core end processing | | 2x (1.5 16 mm²) 1.5 25 mm² |
| Intervision and ed with core end processing stranded | | 1.5 35 mm ² |
| type of connectable conductor cross-sections for main contacts for box terminal using both clamping | | |
| points | | |
| • solid | | 2x (1.5 16 mm²) |
| finely stranded with core end processing | | 2x (1.5 16 mm ²) |
| • stranded | | 2x (1.5 25 mm²) |
| type of connectable conductor cross-sections at AWG | | |

| cables for main co | ntacts for box terminal | | | | | |
|--------------------------------------|---|-------------------------------|------------|---|---|---------------------|
| using the back | k clamping point | | | 16 2 | | |
| using the from | | | | 18 2 | | |
| using both cla | | | | 2x (16 2) | | |
| 0 | e conductor cross-sec | tions for | | (| | |
| • solid | | | | 2x (0.25 2. | 5 mm²) | |
| finely stranded | d with core end processi | ng | | 2x (0.25 1. | | |
| | e conductor cross-sec | - | | , | , | |
| for auxiliary co | ontacts | | | 2x (24 14) | | |
| Ambient conditions | | | | | | |
| installation altitude | e at height above sea le | evel i | m | 5 000 | | |
| environmental cate | egory | | | | | |
| during transport | ort according to IEC 6072 | 21 | | 2K2, 2C1, 2S | 1, 2M2 (max. fall heigh | it 0.3 m) |
| during storage | during storage according to IEC 60721 | | | 1K6 (only occasional condensation), 1C2 (no salt m 1S2 (sand must not get inside the devices), 1M4 | | |
| during operati | on according to IEC 607 | 21 | | | ation of ice, no conden and must not get into th | |
| ambient temperatu | Ire | | | | | |
| during operati | on | 0 | С | -25 +60 | | |
| during storage | 9 | 0 | С | -40 +80 | | |
| derating temperatu | ire | 0 | С | 40 | | |
| protection class IP 60529 | on the front according | to IEC | | IP20 | | |
| touch protection o | n the front according to | DIEC 60529 | | finger-safe, for vertical contact from the front | | |
| Certificates/ approva | als | | | | | |
| General Product A | | | | | | EMC |
| 0 | Confirmation | | | \sim | | ^ |
| (SP) | | | | (ĥ | FHT | RCM |
| Declaration of | | | | | | |
| Conformity | Test Certificates | | othe | ſ | | Railway |
| CE EG-Konf. | Type Test Certific- ates/Test Report | Special Test Certific- ate | <u>Mis</u> | scellaneous | Confirmation | <u>Confirmation</u> |
| | | | | | | |
| Railway | | | | | | |
| 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 | 15 | | | |
| • at 460/480 V | | | | | |
| — at standard circuit at 50 °C rated value | hp | 30 | | | |
| contact rating of auxiliary contacts according to UL | | B300 / R300 | | | |
| Further information | | | | | |
| 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=3RW3036-2BB14

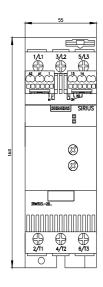
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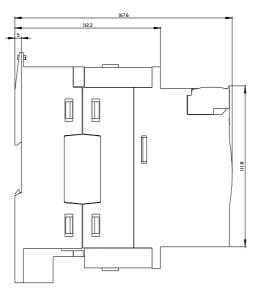
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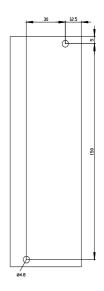
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

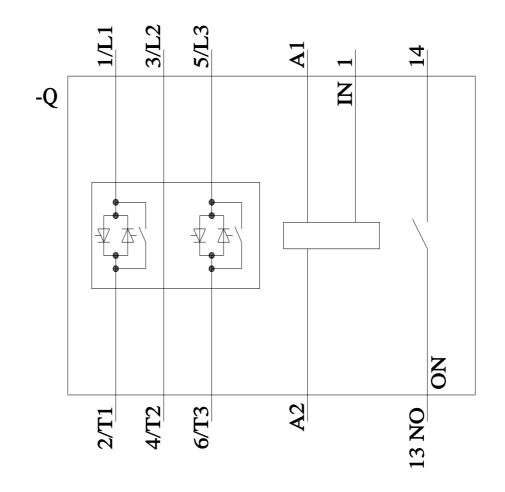
https://support.industry.siemens.com/cs/ww/en/ps/3RW3036-2BB14

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW3036-2BB14&lang=en









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