SIEMENS

Data sheet

3RW4456-6BC34



SIRIUS soft starter Values at 460 V, 50 °C standard: 693 A, 600 hp Inside-delta: 1200 A, 1050 hp 200-460 V AC, 115 V AC Screw terminals !!! Phased-out product !!! Successor is SIRIUS 3RW5, Preferred successor type is >>3RW5554-6HA14<<

| product brand name | | SIRIUS |
|--|----|--------------------------|
| 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 | | Yes |
| product component motor brake output | | Yes |
| insulation voltage rated value | V | 690 |
| degree of pollution | • | 3, acc. to IEC 60947-4-2 |
| reference code acc. to DIN EN 61346-2 | | Q |
| reference code acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | | G |
| Power Electronics | | |
| product designation | | Soft starter |
| operational current | | |
| • at 40 °C rated value | А | 780 |
| • at 50 °C rated value | А | 693 |
| • at 60 °C rated value | А | 615 |
| operational current for 3-phase motors at inside-delta circuit | | |
| at 40 °C rated value | А | 1 351 |
| • at 50 °C rated value | А | 1 200 |
| • at 60 °C rated value | А | 1 065 |
| yielded mechanical performance for 3-phase motors | | |
| • at 230 V | | |
| - at standard circuit at 40 °C rated value | W | 250 000 |
| — at inside-delta circuit at 40 °C rated value | W | 450 000 |
| • at 400 V | | |
| - at standard circuit at 40 °C rated value | W | 450 000 |
| — at inside-delta circuit at 40 °C rated value | W | 800 000 |
| yielded mechanical performance [hp] for 3-phase AC motor at 200/208 V at standard circuit at 50 °C rated value | hp | 200 |

| 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 | 200 460 |
| relative negative tolerance of the operating voltage at standard circuit | % | -15 |
| relative positive tolerance of the operating voltage at standard circuit | % | 10 |
| operating voltage at inside-delta circuit rated value | V | 200 460 |
| relative negative tolerance of the operating voltage at inside-delta circuit | % | -15 |
| relative positive tolerance of the operating voltage at inside-delta circuit | % | 10 |
| minimum load [%] | % | 8 |
| adjustable motor current for motor overload protection minimum rated value | A | 156 |
| continuous operating current [% of le] at 40 °C | % | 115 |
| power loss [W] at operational current at 40 °C during operation typical | W | 214 |
| Control circuit/ Control | | |
| type of voltage of the control supply voltage | | AC |
| 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 | 115 |
| • at 60 Hz rated value | V | 115 |
| 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 |
| display version for fault signal | | Display |
| Mechanical data | | |
| width | mm | 510 |
| height | mm | 640 |
| depth | mm | 290 |
| fastening method | | screw fixing |
| mounting position | | with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back |
| required spacing with side-by-side mounting | | |
| • upwards | mm | 100 |
| at the side | mm | 5 |
| downwards | mm | 75 |
| wire length maximum | m | 500 |
| number of poles for main current circuit | | 3 |
| Connections/ Terminals | | |
| type of electrical connection | | |
| for main current circuit | | busbar connection |
| for auxiliary and control circuit | | screw-type terminals |
| number of NC contacts for auxiliary contacts | | 0 |
| number of NO contacts for auxiliary contacts | | 3 |
| number of CO contacts for auxiliary contacts | | 1 |
| type of connectable conductor cross-sections for DIN | | |
| cable lug for main contacts | | |

| | | 50 0/0 | | |
|---|----------------------|-----------------------------------|---|------------------------------|
| finely stranded | | 50 240 mm ² | | |
| • stranded | | 70 240 mm² | | |
| type of connectable conductor cross-sections for auxiliary contacts | | | | |
| solid | | 2x (0.5 2.5 r | nm²) | |
| finely stranded with core end processing | | 2x (0.5 2.5 r 2x (0.5 1.5 r | | |
| type of connectable conductor cross-sections at AWG | | 27 (0.0 1.01 | | |
| cables | | | | |
| for main contacts | | 2/0 500 kcm | nil | |
| for auxiliary contacts | | 2x (20 14) | | |
| for auxiliary contacts finely stranded with core end | | 2x (20 16) | | |
| processing | | | | |
| mbient conditions | | | | |
| installation altitude at height above sea level | m | 5 000 | | |
| environmental category | | | | |
| during transport acc. to IEC 60721 | | 2K2, 2C1, 2S1 | , 2M2 (max. fall heigh | nt 0.3 m) |
| during storage acc. to IEC 60721 | | | sional condensation) | |
| | | | st not get inside the d | , |
| during operation acc. to IEC 60721 | | | tion of ice, no conden nd must not get into th | |
| ambient temperature | | (3d) | ia mast not get into ti | |
| during operation | °C | 60 | | |
| during storage | °C | -25 +80 | | |
| derating temperature | °C | 40 | | |
| protection class IP on the front acc. to IEC 60529 | - | IP00 | | |
| Certificates/ approvals | | | | |
| | | | | Declaration of |
| General Product Approval | | EAC | | Conformity CE EG-Konf. |
| General Product Approval | | EAC | | Conformity |
| General Product Approval Image: Constraint of the second | | EAC | EMC ECM other | Conformity |
| | | ERC Hovds Register Us | RCM | Conformity |
| Image: Second Secon | | EFFC Hoveds Register LRS | CCM | Conformity |
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| Image: Second Secon | | EAC Register us | CCM | Conformity |
| Image: Second system Image: Second system Image: Second system Special Test Certificates ate Marine / Shipping Special Test Certificates ate Image: Second system Special Test Certificates Image: Second system Specin Test Certificates Image: Second syste | | EFFC Kegsster urs | CCM | Conformity |
| Image: Second system Image: Second system <th< td=""><td>hp</td><td>EFFC LINS</td><td>CCM</td><td>Conformity</td></th<> | hp | EFFC LINS | CCM | Conformity |
| Image: Windows Constraints Image: Windows Constraints Image: Windows Constraints Test Certificates Marine / Shipping Special Test Certificates Image: Windows Constraints Special Test Certificates Image: Win | hp | | CCM | Conformity |
| Image: Window Constraints Image: Window Constraints Image: Window Constraints Special Test Certificates Marine / Shipping Special Test Certificates Image: Window Constraints Special Test Certes Image: Window Constraintes </td <td>hp</td> <td></td> <td>CCM</td> <td>Conformity</td> | hp | | CCM | Conformity |
| Image: Note of the sector o | | 450 | CCM | Conformity |
| Image: Note of the sector o | hp | 450 250 | CCM | Conformity |
| Image: Special Test Certificates Marine / Shipping Special Test Certificates Image: Special Test Certificates ate Image: Special Test Certificates ate Image: Special Test Certificates b Image: Special Test Certificates ate Image: Special Test Certificates at 200/208 V Image: Special Test Certificates Image: Attended test Certificates Image: Special Test Certificates Image: Attended test Certificates I | hp | 450 250 | CCM | Conformity |
| Image: Arrow of the constraint of t | hp hp | 450 250 500 | CCM | Conformity |
| Image: Arrive of the constraint of | hp hp hp | 450 250 500 600 | CCM | Conformity |
| Image: Constraint of the system Image: Constraint of the system Test Certificates Marine / Shipping Special Test Certificates Image: Constraint of the system Special Test Certificates Image: Constant of the system | hp hp hp | 450 250 500 600 1 050 | CCM | Conformity |
| Image: Constraint of auxiliary contacts according to UC | hp hp hp | 450 250 500 600 1 050 | CCM | Conformity |
| Image: Control of the second secon | hp hp hp hp | 450 250 500 600 1 050 | CCM | Conformity |
| Image: Arrow of the second | hp hp hp hp | 450 250 500 600 1 050 | CCM | Conformity |
| Image: Construction of the sector of the | hp hp hp hp | 450 250 500 600 1 050 | CCM | Conformity |

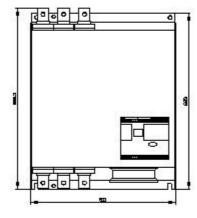
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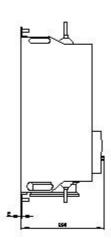
Cax online generator

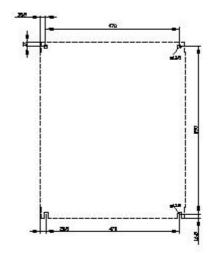
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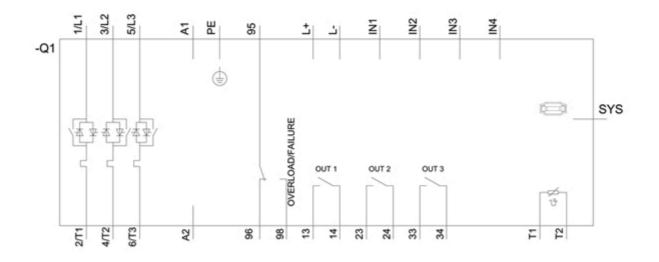
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last modified:

1/18/2021 🖸