SIEMENS

Data sheet 3RW44 36-2BC44



SIRIUS SOFT STARTER, VALUES WITH 400 V, 40 DEG., STANDARD: 162A, 90KW, INSIDE-DELTA CIRCUIT 3: 281A, 160KW, 200-460 V AC, 230 V AC, CAGE CLAMP TERMINALS

| product brandname | SIRIUS | |
|---|--------|--|
| Product equipment Integrated bypass contact system | Yes | |
| Product feature 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 | |
| Equipment marking acc. to DIN EN 61346-2 | Q | |
| Equipment marking acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | G | |

Product designation

Soft starter

| Operating current | | |
|--|----|---------|
| • at 40 °C rated value | Α | 162 |
| • at 50 °C rated value | Α | 145 |
| • at 60 °C rated value | Α | 125 |
| Operating current for three-phase motors at inside- delta circuit | | |
| • at 40 °C rated value | Α | 281 |
| • at 50 °C rated value | Α | 251 |
| ● at 60 °C rated value | Α | 217 |
| Mechanical power output for three-phase motors | | |
| ● at 230 V | | |
| — at standard circuit at 40 °C rated value | W | 45 000 |
| — at inside-delta circuit at 40 °C rated value | W | 90 000 |
| • at 400 V | | |
| — at standard circuit at 40 °C rated value | W | 90 000 |
| — at inside-delta circuit at 40 °C rated value | W | 160 000 |
| Yielded mechanical performance [hp] for three-phase | hp | 40 |
| AC 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 | % | -10 |
| frequency | | |
| 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 [% of IM] | % | 8 |
| Adjustable motor current for motor overload protection minimum rated value | Α | 32 |
| Continuous operating current [% of le] at 40 °C | % | 115 |
| Power loss [W] at operating current at 40 °C during operation typical | W | 95 |
| · · · | | |
| Control electronics | | |
| 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 | % | -10 |
|--|----|--|
| voltage frequency | | |
| Relative positive tolerance of the control supply | % | 10 |
| voltage frequency | | |
| Control supply voltage 1 at AC | | |
| ● at 50 Hz rated value | V | 230 |
| ● at 60 Hz rated value | V | 230 |
| 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 | 170 |
| Height | mm | 200 |
| Depth | mm | 270 |
| Mounting type | | 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 |
| Installation altitude at height above sea level | m | 5 000 |
| 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 current circuit | | spring-loaded 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 main contacts for box terminal using the front clamping point | | |
| finely stranded with core end processing | | 16 70 mm² |
| • finely stranded without core end processing | | 16 70 mm² |
| • stranded | | 16 70 mm² |
| Type of connectable conductor cross-sections for main contacts for box terminal using the back clamping point | | |

| finely stranded with core end processing | | 16 70 mm² |
|---|----|----------------------------|
| finely stranded without core end processing | | 16 70 mm² |
| • stranded | | 16 70 mm² |
| Type of connectable conductor cross-sections for | _ | |
| main contacts for box terminal using both clamping | | |
| points | | |
| finely stranded with core end processing | | max. 1x 50 mm², 1x 70 mm² |
| finely stranded without core end processing | | max. 1x 50 mm², 1x 70 mm² |
| • stranded | | max. 2x 70 mm ² |
| Type of connectable conductor cross-sections at | | |
| AWG conductors for main contacts for box terminal | | |
| using the back clamping point | | 6 2/0 |
| using the front clamping point | | 6 2/0 |
| using both clamping points | | max. 2x 1/0 |
| Type of connectable conductor cross-sections for | - | |
| DIN cable lug for main contacts | | |
| • finely stranded | | 16 95 mm² |
| • stranded | | 25 120 mm² |
| Type of connectable conductor cross-sections for | | |
| auxiliary contacts | | |
| • solid | | 2x (0.25 1.5 mm²) |
| finely stranded with core end processing | | 2x (0.25 1.5 mm²) |
| Type of connectable conductor cross-sections at | | |
| AWG conductors | | |
| • for main contacts | | 4 250 kcmil |
| • for auxiliary contacts | | 2x (24 16) |
| Ambient conditions | | |
| Ambient temperature | | |
| during operation | °C | 60 |

| Ambient conditions | | | |
|------------------------------------|----|---------|--|
| Ambient temperature | | | |
| during operation | °C | 60 | |
| during storage | °C | -25 +80 | |
| Derating temperature | °C | 40 | |
| Protection class IP | | IP00 | |

Certificates/approvals

General Product Approval

EMC

Declaration of Conformity













Test Certificates

Shipping Approval

Typprüfbescheinigu ng/Werkszeugnis

spezielle Prüfbescheinigunge n

OF SHIP





GL



Shipping other Approval



Umweltbestätigung

Bestätigungen

| UL/CSA ratings | | |
|--|----|-------------|
| Yielded mechanical performance [hp] for three-phase | | |
| AC motor | | |
| ● at 200/208 V | | |
| — at inside-delta circuit at 50 °C rated value | hp | 75 |
| ● at 220/230 V | | |
| at standard circuit at 50 °C rated value | hp | 50 |
| — at inside-delta circuit at 50 °C rated value | hp | 100 |
| ● at 460/480 V | | |
| at standard circuit at 50 °C rated value | hp | 100 |
| — at inside-delta circuit at 50 °C rated value | hp | 200 |
| 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- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/industrial-controls/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW4436-2BC44

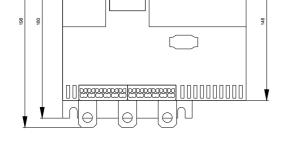
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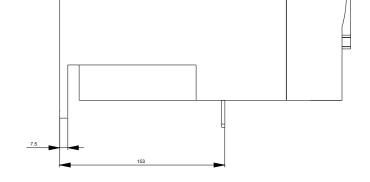
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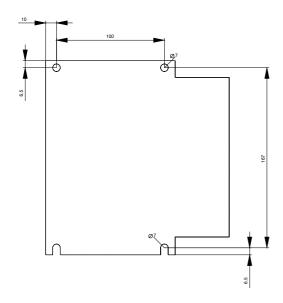
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

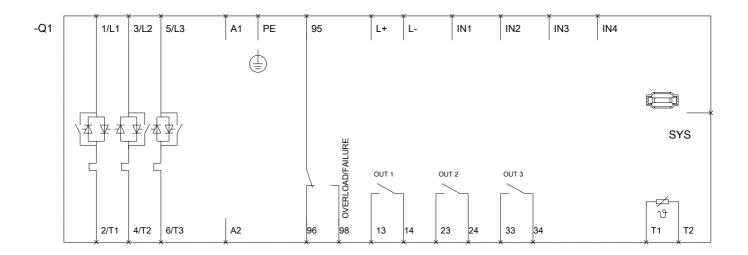
https://support.industry.siemens.com/cs/ww/en/ps/3RW4436-2BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4436-2BC44&lang=en









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