SIEMENS

Data sheet 3RW44 36-6BC44



SIRIUS soft starter Values at 400 V, 40 °C Standard: 162 A, 90 kW Inside-delta: 281 A, 160 kW 200-460 V AC, 230 V AC Screw terminals

| 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 |
| Reference identifier acc. to DIN EN 61346-2 | Q |
| Reference indentifier acc. to DIN 40719 extended according to IEC 204-2 acc. to IEC 750 | G |

Power Electronics

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 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 | 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 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 | 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 |
| 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 | 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 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 mm² |
| 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 (0.5 2.5 mm²) |
| • finely stranded with core end processing | 2x (0.5 1.5 mm²) |
| Type of connectable conductor cross-sections at AWG conductors | |
| • for main contacts | 4 250 kcmil |
| for auxiliary contacts | 2x (20 14) |
| for auxiliary contacts finely stranded with core end processing | 2x (20 16) |

| Ambient conditions | | | |
|--|----|---|--|
| Installation altitude at height above sea level | m | 5 000 | |
| Environmental category | | | |
| during transport acc. to IEC 60721 | | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 | |
| • during storage acc. to IEC 60721 | | 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 | |
| during operation acc. 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 | 60 | |
| during storage | °C | -25 +80 | |
| Derating temperature | °C | 40 | |
| Protection class IP | | IP00 | |

General Product Approval

EMC

Declaration of Conformity













Test Certificates

Shipping Approval

Special Test Certificate

Type Test Certificates/Test Report









other

Confirmation

| 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 |

Simulation Tool for Soft Starters (STS)
https://support.industry.siemens.com/cs/ww/en/view/101494917

Information- and Downloadcenter (Catalogs, Brochures,...)

Industry Mall (Online ordering system)

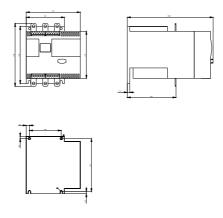
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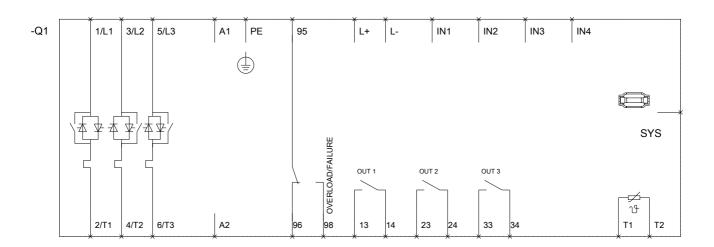
Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4436-6BC44

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4436-6BC44

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4436-6BC44&lang=en





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