SIEMENS

Product data sheet

3RW4424-3BC44



SIRIUS SOFT STARTER, VALUES WITH 400 V, 40 DEG., STANDARD: 47A, 22KW, INSIDE-DELTA CIRCUIT 3: 81A, 45KW, 200-460 V AC, 230 V AC, CAGE CLAMP TERMINALS

| Conora | I deteller |
|--------|------------|
| Genera | I details: |

| General details: | |
|--|---|
| Product brand name | SIRIUS |
| Product equipment | |
| integrated bridging contact system | Yes |
| thyristors | Yes |
| Product function | |
| intrinsic device protection | Yes |
| motor overload protection | Yes |
| evaluation of thermal resistor motor protection | Yes |
| reset external | Yes |
| adjustable current limitation | Yes |
| inside-delta circuit | Yes |
| Product component / outlet for enine brake | Yes |
| Item designation | |
| according to DIN EN 61346-2 | Q |
| according to DIN 40719 extendable after IEC 204-2 / according to IEC 750 | G |
| Power Electronics: | |
| product designation | soft starters for high feature applications |
| | |

Operating current

| • at 40 °C / rated value | А | 47 |
|--|----|---------|
| • at 50 °C / rated value | А | 42 |
| • at 60 °C / rated value | А | 37 |
| • for three-phase servomotors / at 3-phase root switching | | |
| • at 40 °C / rated value | А | 81 |
| • at 50 °C / rated value | А | 73 |
| • at 60 °C / rated value | А | 64 |
| Emitted mechanical power / for three-phase servomotors | _ | |
| • at 230 V / at standard switching / at 40 °C | | |
| rated value | W | 11,000 |
| • at 400 V / at standard switching / at 40 °C | | |
| rated value | W | 22,000 |
| \bullet at 230 V / at 3-phase root switching / at 40 $^{\circ}\text{C}$ | | |
| rated value | W | 22,000 |
| • at 400 V / at 3-phase root switching / at 40 °C | | |
| rated value | W | 45,000 |
| yielded mechanical performance (hp) / for three-phase squirrel cage motors / at 200/208 V / at standard circuit / at 50 °C / rated v | hp | 10 |
| alue | | |
| 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 / with standard circuit / rated value | V | 200 460 |
| Relative negative tolerance / of the operating voltage / with standard circuit | % | -15 |
| Relative positive tolerance / of the operating voltage / with standard circuit | % | 10 |
| Operating voltage / at 3-phase root switching / rated value | V | 200 460 |
| Relative negative tolerance / of the operating voltage / with inside-delta circuit | % | -15 |
| Relative positive tolerance / of the operating voltage / with inside-delta circuit | % | 10 |
| Minimum load in % of I_M | % | 8 |
| Adjustable rated current / of the motor / for motor overload protection / minimum | A | 9 |
| Continuous operating current in % of I_e / at 40°C | % | 115 |
| Active power loss / at operating current / at 40°C / during operating phase / typical | W | 32 |
| Control electronics: | | |
| Type of voltage / of the controlled 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 50 Hz / for AC | V | 230 |
| • at 60 Hz / for AC | V | 230 |
| Relative negative tolerance / of the control supply voltage / at 60 Hz / for AC | % | -15 |
| Relative positive tolerance / of the control supply voltage / at 60 Hz / for AC | % | 10 |
| Type of display / for fault signal | | Display |

| Mechanical design: | | |
|--|----|---|
| Width | mm | 170 |
| Height | mm | 192 |
| Depth | mm | 270 |
| Type of mounting | | screw fixing |
| Built in orientation | | bei senkrechter Montageebene +/-90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar |
| Distance, to be maintained, to the ranks assembly | | |
| • upwards | mm | 100 |
| sidewards | mm | 5 |
| • downwards | mm | 75 |
| Altitude of installation site / at a height over sea level | m | 5,000 |
| Cable length / maximum | m | 500 |
| Number of poles / for main current circuit | | 3 |

Electrical connections

| Design of the electrical connection | |
|--|-------------------------|
| for main current circuit | box terminals |
| 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 change-over switches / for auxiliary contacts | 1 |
| Type of the connectable conductor cross section / for main contacts / for box terminal / when using the front clamping point | |
| • solid | 2.5 16 mm² |
| finely stranded / with conductor end processing | 2.5 35 mm² |
| finely stranded / without conductor end processing | 4 50 mm ² |

| • stranded | | 4 70 mm² |
|---|------|-------------------|
| Type of the connectable conductor cross-section / for main contacts / for box terminal / when using the back clamping point | _ | |
| • solid | | 2,5 16 mm² |
| finely stranded / with conductor end processing | | 2.5 50 mm² |
| without conductor final cutting / without conductor end processing | | 10 50 mm² |
| • stranded | | 10 70 mm² |
| Type of the connectable conductor cross-section / for main contacts / for box terminal / when using both clamping points | | |
| • solid | | 2x (2.5 16 mm²) |
| finely stranded / with conductor end processing | | 2x (2.5 35 mm²) |
| without conductor final cutting / without conductor end processing | | 2x (4 35 mm²) |
| • stranded | | 2x (4 50 mm²) |
| Type of the connectable conductor cross-section / for AWG conductors / for main contacts / for box terminal | | |
| when using the back cl amping point | | 10 2/0 |
| • when using the front c lamping point | | 10 2/0 |
| when using both clampi ng points | | 2x (10 1/0) |
| Type of the connectable conductor cross-section | | |
| for auxiliary contacts | | |
| • solid | | 2x (0.25 1.5 mm²) |
| finely stranded / with conductor end processing | | 2x (0.25 1.5 mm²) |
| for AWG conductors / for auxiliary contacts | | 2x (24 16) |
| Ambient conditions: | | |
| Ambient temperature | | |
| during operating | / °C | 60 |
| during storage | °C | -25 80 |
| Derating temperature | °C | 40 |
| Protection class IP | | IP00 |
| Certificates/approvals: | | |

| General Product Approval | | | Test Certificates | |
|---|------------------------|-----|---------------------|--|
| cqc CSA | ROSTEST | | Manufacturer | |
| Shipping Approval | | | other | |
| BUREAU VERITAS | GL | PRS | <u>Manufacturer</u> | |
| JL/CSA ratings rielded mechanical performance (hp) / f | or three-phase squirre | 1 | | |
| age motors | | | | |
| • at 220/230 V / at standard circuit | | | | |
| • at 50 °C / rated v alue | | hp | 15 | |
| • at 460/480 V / at standard circuit | | | | |
| • at 50 °C / rated v alue | | hp | 25 | |
| • at 200/208 V / at inside-delta circuit / a ed value | t 50 °C / rat | hp | 20 | |
| • at 220/230 V / at inside-delta circuit / a ed value | t 50 °C / rat | hp | 25 | |
| • at 460/480 V / at inside-delta circuit / a ed value | t 50 °C / rat | hp | 50 | |
| Further information: | | | | |

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

Industry Mall (Online ordering system) http://www.siemens.com/industrial-controls/mall

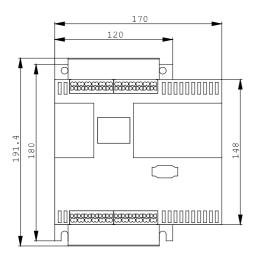
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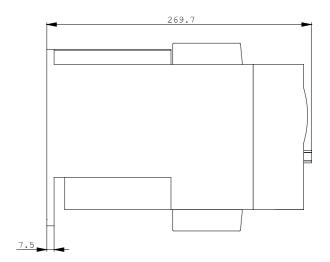
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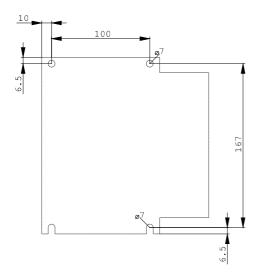
http://www.siemens.com/cax

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW4424-3BC44/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=3RW4424-3BC44







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