SIEMENS

Data sheet 3RW44 22-1BC36



SIRIUS SOFT STARTER, VALUES WITH 575 V, 50 DEG., STANDARD: 26A, 20HP, INSIDE-DELTA CIRCUIT 3: 45A, 40HP, 400-690 V AC, 115 V AC, SCREW TERMINALS

| General technical data: | |
|---|--------|
| 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 |
| Equipment marking acc. to DIN EN 61346-2 | Q |
| Equipment marking acc. to DIN 40719 extended | G |
| according to IEC 204-2 acc. to IEC 750 | |

| Power Electronics: | | |
|--|---|---|
| Product designation | | soft starters for high feature applications |
| Operating current | | |
| • at 40 °C Rated value | Α | 29 |
| • at 50 °C Rated value | Α | 26 |
| • at 60 °C Rated value | Α | 23 |
| Operating current for three-phase motors at 3-phase root switching | | |
| • at 40 °C Rated value | Α | 50 |

| • at 50 °C Rated value | Α | 45 |
|--|-----|---------|
| • at 60 °C Rated value | Α | 40 |
| Mechanical power output for three-phase motors | | |
| ● at 400 V | | |
| — at standard circuit at 40 °C Rated value | W | 15 000 |
| — at 3-phase root switching at 40 °C Rated | W | 22 000 |
| value | | |
| ● at 500 V | | |
| — at standard circuit at 40 °C Rated value | W | 18 500 |
| — at 3-phase root switching at 40 °C Rated | W | 30 000 |
| value | | |
| • at 690 V at standard circuit at 40 °C Rated | W | 30 000 |
| 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 | 400 690 |
| Relative negative tolerance of the operating voltage | % | -15 |
| at standard circuit | 0/ | 40 |
| Relative positive tolerance of the operating voltage at standard circuit | % | 10 |
| Operating voltage at 3-phase root switching Rated | V | 400 600 |
| value | v | 400 000 |
| Relative negative tolerance of the operating voltage | % | -15 |
| at 3-phase root switching | | |
| Relative positive tolerance of the operating voltage at | % | 10 |
| 3-phase root switching | | |
| Minimum load in % of I_M | % | 8 |
| Adjustable motor current for motor overload | Α | 5 |
| protection minimum rated value | 0/ | |
| Continuous operating current in % of I_e at 40 °C | % | 115 |
| Active power loss at operating current at 40 °C during operation typical | W | 8 |
| | | |
| Control electronics: | | 40 |
| Type of voltage of the control supply voltage | 11- | AC 50 |
| 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 | % | 10 |
| voltage frequency | 70 | |
| Control supply voltage 1 with AC | | |
| • at 50 Hz Rated value | V | 115 |
| at our include raido | | |

| ● at 60 Hz Rated value | V | 115 |
|--|---|---------|
| Relative negative tolerance of the control supply voltage with AC at 60 Hz | % | -15 |
| Relative positive tolerance of the control supply voltage with AC at 60 Hz | % | 10 |
| Display version for fault signal | | Display |

| Mechanical data: | | |
|---|----|---|
| Width | mm | 170 |
| Height | mm | 192 |
| Depth | mm | 270 |
| Mounting type | | screw fixing |
| mounting position | | bei senkrechter Montageebene +/-90° drehbar, bei senkrechter Montageebene +/- 22,5° nach vorne und hinten kippbar |
| 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 |
| Cable length maximum | m | 500 |
| Number of poles for main current circuit | | 3 |

| Connections/ Terminals: | |
|---|----------------------|
| Type of electrical connection | |
| • for main current circuit | box terminals |
| 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-section for main contacts for box terminal using the front clamping point | |
| • solid | 2.5 16 mm² |
| finely stranded with core end processing | 2.5 35 mm² |
| finely stranded without core end processing | 4 50 mm² |
| • stranded | 4 70 mm² |
| Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point | |
| • solid | 2,5 16 mm² |
| finely stranded with core end processing | 2.5 50 mm² |
| • finely stranded without core end processing | 10 50 mm² |
| • stranded | 10 70 mm² |

| Type of connectable conductor cross-section for | |
|---|------------------|
| main contacts for box terminal using both clamping | |
| points | |
| • solid | 2x (2.5 16 mm²) |
| finely stranded with core end processing | 2x (2.5 35 mm²) |
| finely stranded without core end processing | 2x (4 35 mm²) |
| • stranded | 2x (4 50 mm²) |
| Type of connectable conductor cross-section for | |
| AWG conductors for main contacts for box terminal | |
| using the back clamping point | 10 2/0 |
| using the front clamping point | 10 2/0 |
| using both clamping points | 2x (10 1/0) |
| Type of connectable conductor cross-section 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-section for AWG conductors | |
| for auxiliary contacts | 2x (20 14) |
| for auxiliary contacts finely stranded with core | 2x (20 16) |
| end processing | |
| Ambient conditions: | |
| Ambient temperature | |

| 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 Certificates











Special Test Certificate

| lest | |
|----------|------|
| Certific | ates |

Shipping Approval

Type Test
Certificates/Test
Report











Shipping Approval other



Environmental Confirmations

UL/CSA ratings: yielded mechanical performance [hp] for three-phase AC motor • at 460/480 V - at standard circuit at 50 °C Rated value metric 15 hp — at 3-phase root switching at 50 °C Rated metric 30 value hp • at 575/600 V metric 20 - at standard circuit at 50 °C Rated value hp 40 — at 3-phase root switching at 50 °C Rated metric hp value Contact rating of the auxiliary contacts acc. to UL B300 / R300

Further information

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

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

Industry Mall (Online ordering system)

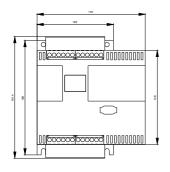
http://www.siemens.com/industrymall

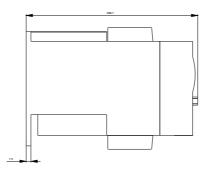
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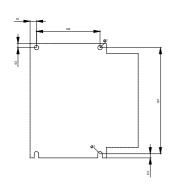
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW44221BC36

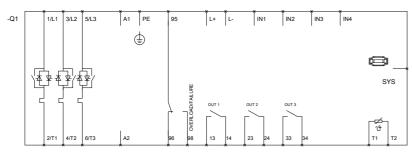
Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/3RW44221BC36/all









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