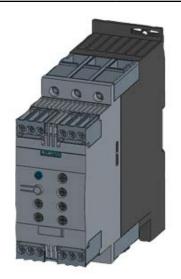
SIEMENS

Data sheet 3RW40 38-1BB15



SIRIUS SOFT STARTER, S2, 72A, 45KW/500V, 40 DEGR., AC 400-600V, AC/DC 110-230V, 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 | No |
| External reset | Yes |
| Adjustable current limitation | Yes |
| • inside-delta circuit | No |
| Product component Motor brake output | No |
| 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 standard applications |
| Operating current | | |
| • at 40 °C Rated value | Α | 72 |
| ● at 50 °C Rated value | Α | 62 |
| ● at 60 °C Rated value | Α | 60 |
| Mechanical power output for three-phase motors | | |
| ● at 400 V | | |

| — at standard circuit at 40 °C Rated value | W | 37 000 |
|--|----|---------|
| ● at 500 V | | |
| — at standard circuit at 40 °C Rated value | W | 45 000 |
| 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 | 400 600 |
| Relative negative tolerance of the operating voltage at standard circuit | % | -15 |
| Relative positive tolerance of the operating voltage at standard circuit | % | 10 |
| Minimum load in % of I_M | % | 20 |
| Adjustable motor current for motor overload protection minimum rated value | Α | 35 |
| Continuous operating current in % of I_e at 40 °C | % | 115 |
| Active power loss at operating current at 40 °C during operation typical | W | 15 |

| Control electronics: | | |
|--|----|---------|
| Type of voltage of the control supply voltage | | AC/DC |
| 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 with AC at 50 Hz | V | 110 230 |
| Control supply voltage 1 with AC at 60 Hz | V | 110 230 |
| 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 |
| Control supply voltage 1 for DC | V | 110 230 |
| Relative negative tolerance of the control supply voltage for DC | % | -15 |
| Relative positive tolerance of the control supply voltage for DC | % | 10 |
| Display version for fault signal | | red |

| Mechanical data: | | |
|-------------------------------|----|----------------------------|
| Size of engine control device | | S2 |
| Width | mm | 55 |
| Height | mm | 160 |
| Depth | mm | 170 |
| Mounting type | | screw and snap-on mounting |

| mounting position | | With additional fan: With vertical mounting surface +/- 90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back Without additional fan: With vertical mounting surface +/-10° rotatable, with vertical mounting surface +/- 10° t |
|---|----|--|
| Required spacing with side-by-side mounting | | |
| • upwards | mm | 60 |
| • at the side | mm | 30 |
| • downwards | mm | 40 |
| Installation altitude at height above sea level | m | 5 000 |
| Cable length maximum | m | 300 |
| Number of poles for main current circuit | | 3 |
| Connections/ Terminals: | | |
| Type of electrical connection | | |

| Connections/ Terminals: | |
|---|----------------------|
| Type of electrical connection | |
| for main current circuit | screw-type 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 | 2 |
| 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 | 2x (1.5 16 mm²) |
| finely stranded with core end processing | 0.75 25 mm² |
| • stranded | 0.75 35 mm² |
| Type of connectable conductor cross-section for main contacts for box terminal using the back clamping point | |
| • solid | 2x (1.5 16 mm²) |
| finely stranded with core end processing | 1.5 25 mm² |
| • stranded | 1.5 35 mm² |
| Type of connectable conductor cross-section for main contacts for box terminal using both clamping points | |
| • solid | 2x (1.5 16 mm²) |
| finely stranded with core end processing | 2x (1.5 16 mm²) |
| • stranded | 2x (1.5 25 mm²) |
| Type of connectable conductor cross-section for AWG conductors for main contacts for box terminal | |
| using the back clamping point | 16 2 |
| using the front clamping point | 18 2 |
| using both clamping points | 2x (16 2) |
| 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 end processing | 2x (20 16) |

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

Certificates/ approvals:

| General Product Approval | EMC | For use in |
|--------------------------|-----|------------|
| | | hazardous |
| | | locations |













Test Certificates

Shipping Approval

Type Test
Certificates/Test
Report

Special Test Certificate





GL





other

Environmental Declaration of Confirmations Conformity

| JL/CSA ratings: | | |
|---|--------|----|
| yielded mechanical performance [hp] for three-phase | | |
| AC motor | | |
| ● at 460/480 V | | |
| — at standard circuit at 50 °C Rated value | metric | 40 |
| | hp | |
| ● at 575/600 V | | |

| — at standard circuit at 50 °C Rated value | metric hp | 60 |
|---|--------------|-------------|
| Contact rating of the auxiliary contacts acc. to UL | | B300 / R300 |

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

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

Industry Mall (Online ordering system)

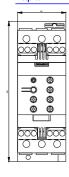
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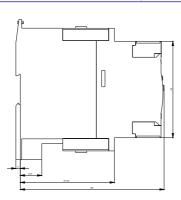
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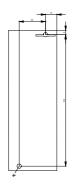
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW40381BB15

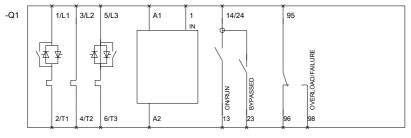
Service&Support (Manuals, Certificates, Characteristics, FAQs,...) http://support.automation.siemens.com/WW/view/en/3RW40381BB15/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/index.aspx?attID9=3RW40381BB15&lang=en









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