SIEMENS

Data sheet

3RW40 55-6BB34



SIRIUS SOFT STARTER, S6, 117 A, 75 HP/460 V, 50 DEG., 200-460 V AC, 115 V AC, SCREW TERMINALS

| General technical data | | | |
|---|--------------|--|--|
| 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 | 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 according to IEC 204-2 acc. to IEC 750 | G | | |
| Power Electronics | | | |
| Product designation | Soft starter | | |

| Operating current | | |
|---|----|---------|
| • at 40 °C rated value | А | 134 |
| ● at 50 °C rated value | А | 117 |
| ● at 60 °C rated value | А | 100 |
| Mechanical power output for three-phase motors | | |
| ● at 230 V | | |
| — at standard circuit at 40 °C rated value | W | 37 000 |
| ● at 400 V | | |
| — at standard circuit at 40 °C rated value | W | 75 000 |
| Yielded mechanical performance [hp] for three-phase | hp | 30 |
| 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 |
| Minimum load [% of IM] | % | 20 |
| Adjustable motor current for motor overload protection minimum rated value | A | 59 |
| Continuous operating current [% of le] at 40 °C | % | 115 |
| Power loss [W] at operating current at 40 °C during operation typical | W | 60 |
| 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 | 115 |
| • at 60 Hz rated value | V | 115 |
| 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 | | red |
| Mechanical data | | |

| | _ | |
|---|----|---|
| Size of engine control device | | S6 |
| Width | mm | 120 |
| Height | mm | 198 |
| Depth | mm | 250 |
| Mounting type | | screw fixing |
| 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 | 100 |
| ● at the side | mm | 5 |
| downwards | mm | 75 |
| Wire length maximum | m | 300 |
| 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 | _ | 2 |
| 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 | | 10 70 0 |
| finely stranded with core end processing | | 16 70 mm ² |
| 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 | | |
| | | 16 70 mm² |
| finely stranded with core end processing finely stranded without core and processing | | 16 70 mm ² |
| finely stranded without core end processing stranded | | 16 70 mm ² |
| • stranded | | |
| 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 (0.5 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 | | |
| during storage acc. to IEC 60721 during operation acc. to IEC 60721 | | 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), |
| | | 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), |
| • during operation acc. to IEC 60721 | °C | 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), |
| • during operation acc. to IEC 60721 Ambient temperature | °C °C | 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 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 Ambient temperature during operation | | 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 -25 +60 |
| during operation acc. to IEC 60721 Ambient temperature during operation during storage | °C | 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 3K6 (no formation of ice, no condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6 -25 +60 -40 +80 |

| General Produ | ict Approval | | EMC | For use in hazardous locations | Declaration of Conformity |
|---------------|--------------|-------|--------|--------------------------------|------------------------------|
| | CSA | | C-Tick | ATEX ATEX | EG-Konf. |
| Test | Shipping App | roval | other | | |

| Certificates | | | | |
|--------------|----|---------------------|--------------|--|
| Special Test | | | Confirmation | |
| Certificate | GL | Lloyd's Register | | |
| | | | | |
| | GL | LRS | | |

| UL/CSA ratings | | | |
|--|----|-------------|--|
| Yielded mechanical performance [hp] for three-phase | | | |
| AC motor | | | |
| ● at 220/230 V | | | |
| — at standard circuit at 50 °C rated value | hp | 40 | |
| ● at 460/480 V | | | |
| — at standard circuit at 50 °C rated value | hp | 75 | |
| Contact rating of auxiliary contacts according to UL | | B300 / R300 | |

-urther 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)

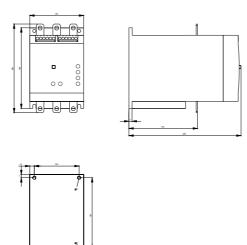
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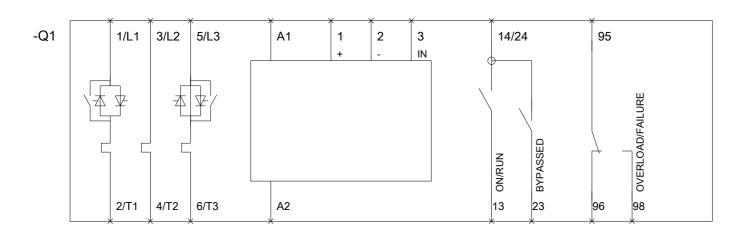
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http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW4055-6BB34

Service&Support (Manuals, Certificates, Characteristics, FAQs,...) https://support.industry.siemens.com/cs/ww/en/ps/3RW4055-6BB34

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...) http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW4055-6BB34&lang=en





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