## SIEMENS

## Data sheet

## 3RW5556-2HA04



SIRIUS soft starter 200-480 V 1100 A, 24 V AC/DC Spring-type terminals

Figure similar

| product brand name  | SIRIUS   |
|---|--|
| product category  | Hybrid switching devices   |
| product designation   | Soft starter   |
| product type designation  | 3RW55  |
| manufacturer's article number   |  |
| <ul> <li>of high feature HMI module usable</li> </ul>   | <u>3RW5980-0HF00</u>   |
| <ul> <li>of communication module PROFINET standard<br/>usable</li> </ul>                          | <u>3RW5980-0CS00</u>   |
| <ul> <li>of communication module PROFINET high-feature<br/>usable</li> </ul>                      | <u>3RW5950-0CH00</u>   |
| <ul> <li>of communication module PROFIBUS usable</li> </ul>                                       | <u>3RW5980-0CP00</u>   |
| <ul> <li>of communication module Modbus TCP usable</li> </ul>                                     | <u>3RW5980-0CT00</u>   |
| <ul> <li>of communication module Modbus RTU usable</li> </ul>                                     | <u>3RW5980-0CR00</u>   |
| <ul> <li>of communication module Ethernet/IP</li> </ul>   | <u>3RW5980-0CE00</u>   |
| <ul> <li>of circuit breaker usable at 400 V</li> </ul>  | 3VA2716-7AB05-0AA0: Type of coordination 1, Iq = 65 kA, CLASS 10 |
| <ul> <li>of circuit breaker usable at 500 V</li> </ul>  | 3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10 |
| <ul> <li>of the gG fuse usable up to 690 V</li> </ul>   | 3x3NA3365-6; Type of coordination 1, Iq = 65 kA                  |
| <ul> <li>of full range R fuse link for semiconductor protection<br/>usable up to 690 V</li> </ul> | <u>3NB3354-1KK26; Type of coordination 2. Iq = 65 kA</u>         |
| <ul> <li>of back-up R fuse link for semiconductor protection<br/>usable up to 690 V</li> </ul>    | 3x3NE3340-8; Type of coordination 2, Iq = 65 kA                  |
| General technical data  |  |
| starting voltage [%]  | 20 100 %   |
| stopping voltage [%]  | 50 50 %  |
| start-up ramp time of soft starter  | 0 360 s  |
| ramp-down time of soft starter  | 0 360 s  |
| start torque [%]  | 10 100 %   |
| stopping torque [%]   | 10 100 %   |
| torque limitation [%]   | 20 200 %   |
| current limiting value [%] adjustable   | 125 800 %  |
| breakaway voltage [%] adjustable  | 40 100 %   |
| breakaway time adjustable   | 0 2 s  |
| number of parameter sets  | 3  |
| accuracy class acc. to IEC 61557-12   | 5 %  |
| certificate of suitability  |  |
| CE marking  | Yes  |
| UL approval   | Yes  |
| CSA approval  | Yes  |

| product component  |  |
|--|--|
| <ul> <li>HMI-High Feature</li> </ul>                           | Yes  |
| <ul> <li>is supported HMI-High Feature</li> </ul>              | Yes  |
| product feature integrated bypass contact system               | Yes  |
| number of controlled phases                                    | 3  |
| trip class   | CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2   |
| current unbalance limiting value [%]                           | 10 60 %  |
| ground-fault monitoring limiting value [%]                     | 10 95 %  |
| buffering time in the event of power failure                   |  |
| <ul> <li>for main current circuit</li> </ul>                   | 100 ms   |
| for control circuit  | 100 ms   |
| idle time adjustable   | 0 255 s  |
| insulation voltage rated value                                 | 480 V  |
| degree of pollution  | 3, acc. to IEC 60947-4-2   |
| impulse voltage rated value                                    | 6 kV   |
| blocking voltage of the thyristor maximum                      | 1 400 V  |
| service factor   | 1.15   |
| surge voltage resistance rated value                           | 6 kV   |
| maximum permissible voltage for safe isolation                 |  |
| <ul> <li>between main and auxiliary circuit</li> </ul>         | 480 V; does not apply for thermistor connection  |
| shock resistance   | 15 g / 11 ms, from 6 g / 11 ms with potential contact lifting  |
| vibration resistance   | 15 mm up to 6 Hz; 2 g up to 500 Hz   |
| recovery time after overload trip adjustable                   | 60 1 800 s   |
| utilization category acc. to IEC 60947-4-2                     | AC 53a   |
| reference code acc. to IEC 81346-2                             | Q  |
| Substance Prohibitance (Date)                                  | 11.02.2019 00:00:00  |
| product function   |  |
| <ul> <li>ramp-up (soft starting)</li> </ul>                    | Yes  |
| <ul> <li>ramp-down (soft stop)</li> </ul>                      | Yes  |
| <ul> <li>breakaway pulse</li> </ul>                            | Yes  |
| <ul> <li>adjustable current limitation</li> </ul>              | Yes  |
| <ul> <li>creep speed in both directions of rotation</li> </ul> | Yes  |
| <ul> <li>pump ramp down</li> </ul>                             | Yes  |
| • DC braking   | Yes  |
| <ul> <li>motor heating</li> </ul>                              | Yes  |
| <ul> <li>slave pointer function</li> </ul>                     | Yes  |
| <ul> <li>trace function</li> </ul>                             | Yes  |
| <ul> <li>intrinsic device protection</li> </ul>                | Yes  |
| <ul> <li>motor overload protection</li> </ul>                  | Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit. |
| <ul> <li>evaluation of thermistor motor protection</li> </ul>  | Yes; Type A PTC or Klixon / Thermoclick  |
| • inside-delta circuit   | Yes  |
| auto-RESET   | Yes  |
| manual RESET   | Yes  |
| remote reset   | Yes  |
| <ul> <li>communication function</li> </ul>                     | Yes  |
| <ul> <li>operating measured value display</li> </ul>           | Yes  |
| event list   | Yes  |
| error logbook  | Yes  |
| <ul> <li>via software parameterizable</li> </ul>               | Yes  |
| <ul> <li>via software configurable</li> </ul>                  | Yes  |
| screw terminal   | No   |
| <ul> <li>spring-type terminal</li> </ul>                       | Yes  |
| • PROFlenergy  | Yes; in connection with the PROFINET Standard and PROFINET High-<br>Feature communication modules  |
| firmware update  | Yes  |
| <ul> <li>removable terminal for control circuit</li> </ul>     | Yes  |

|   | Ver  |
|---|--|
| voltage ramp  | Yes  |
| torque control  | Yes  |
| combined braking  | Yes  |
| <ul> <li>analog output</li> </ul>   | Yes; 4 20 mA (default) / 0 10 V                                    |
| <ul> <li>programmable control inputs/outputs</li> </ul>                         | Yes  |
| <ul> <li>condition monitoring</li> </ul>  | Yes  |
| <ul> <li>automatic parameterisation</li> </ul>                                  | Yes  |
| <ul> <li>application wizards</li> </ul>   | Yes  |
| <ul> <li>alternative run-down</li> </ul>  | Yes  |
| <ul> <li>emergency operation mode</li> </ul>                                    | Yes  |
| <ul> <li>reversing operation</li> </ul>   | Yes  |
| <ul> <li>soft starting at heavy starting conditions</li> </ul>                  | Yes  |
| Power Electronics   |  |
| operational current   |  |
| <ul> <li>at 40 °C rated value</li> </ul>  | 1 100 A  |
| <ul> <li>at 40 °C rated value minimum</li> </ul>                                | 220 A  |
| <ul> <li>at 50 °C rated value</li> </ul>  | 979 A  |
| • at 60 °C rated value  | 890 A  |
| operational current at inside-delta circuit                                     |  |
| • at 40 °C rated value  | 1 905 A  |
| ● at 50 °C rated value  | 1 695 A  |
| ● at 60 °C rated value  | 1 541 A  |
| operating voltage   |  |
| rated value   | 200 480 V  |
| <ul> <li>at inside-delta circuit rated value</li> </ul>                         | 200 480 V  |
| relative negative tolerance of the operating voltage                            | -15 %  |
| relative positive tolerance of the operating voltage                            | 10 %   |
| relative negative tolerance of the operating voltage at<br>inside-delta circuit | -15 %  |
| relative positive tolerance of the operating voltage at inside-delta circuit    | 10 %   |
| operating power for 3-phase motors  |  |
| <ul> <li>at 230 V at 40 °C rated value</li> </ul>                               | 315 kW   |
| <ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>       | 560 kW   |
| <ul> <li>at 400 V at 40 °C rated value</li> </ul>                               | 560 kW   |
| <ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>       | 1 000 kW   |
| Operating frequency 1 rated value   | 50 Hz  |
| Operating frequency 2 rated value   | 60 Hz  |
| relative negative tolerance of the operating frequency                          | -10 %  |
| relative positive tolerance of the operating frequency                          | 10 %   |
| minimum load [%]  | 10 %; Relative to set le   |
| power loss [W] for rated value of the current at AC                             |  |
| • at 40 °C after startup  | 330 W  |
| <ul> <li>at 50 °C after startup</li> </ul>                                      | 270 W  |
| • at 60 °C after startup  | 223 W  |
| power loss [W] at AC at current limitation 350 %                                |  |
| <ul> <li>at 40 °C during startup</li> </ul>                                     | 18 502 W   |
| <ul> <li>at 50 °C during startup</li> </ul>                                     | 15 568 W   |
| ● at 60 °C during startup   | 13 552 W   |
| type of the motor protection  | Electronic, tripping in the event of thermal overload of the motor |
| Control circuit/ Control  |  |
| type of voltage of the control supply voltage                                   | AC/DC  |
| control supply voltage at AC  |  |
| at 50 Hz rated value  | 24 V   |
| at 60 Hz rated value  | 24 V   |
| relative negative tolerance of the control supply voltage at AC at 50 Hz        | -20 %  |
| relative positive tolerance of the control supply voltage at AC at 50 Hz        | 20 %   |
|   |  |

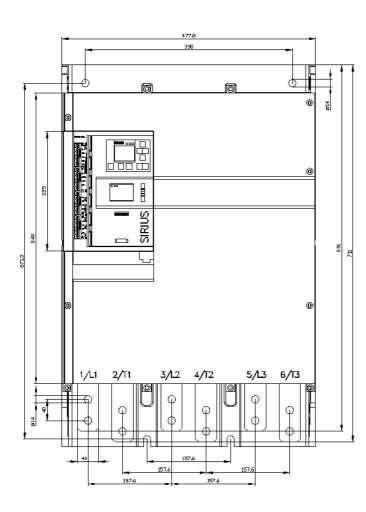
| relative negative tolerance of the control supply voltage at AC at 60 Hz    | -20 %  |
|---|--|
| relative positive tolerance of the control supply voltage at AC at 60 Hz    | 20 %   |
| control supply voltage frequency  | 50 60 Hz   |
| relative negative tolerance of the control supply voltage frequency         | -10 %  |
| relative positive tolerance of the control supply voltage frequency         | 10 %   |
| control supply voltage  |  |
| at DC rated value   | 24 V   |
| relative negative tolerance of the control supply voltage at DC             | -20 %  |
| relative positive tolerance of the control supply voltage at DC             | 20 %   |
| control supply current in standby mode rated value                          | 440 mA   |
| holding current in bypass operation rated value                             | 1 100 mA   |
| locked-rotor current at close of bypass contact<br>maximum                  | 6.7 A  |
| inrush current peak at application of control supply voltage maximum        | 7.5 A  |
| duration of inrush current peak at application of control<br>supply voltage | 20 ms  |
| design of the overvoltage protection  | Varistor   |
| design of short-circuit protection for control circuit                      | 4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of scope of supply |
| Inputs/ Outputs   |  |
| number of digital inputs  | 4  |
| parameterizable   | 4  |
| number of inputs for thermistor connection                                  | 1; Type A PTC or Klixon / Thermoclick  |
| <ul> <li>number of digital outputs</li> </ul>                               | 4  |
| <ul> <li>number of digital outputs parameterizable</li> </ul>               | 3  |
| <ul> <li>number of digital outputs not parameterizable</li> </ul>           | 1  |
| digital output version  | 3 normally-open contacts (NO) / 1 changeover contact (CO)  |
| number of analog outputs  | 1  |
| switching capacity current of the relay outputs                             |  |
| <ul> <li>at AC-15 at 250 V rated value</li> </ul>                           | 3 A  |
| • at DC-13 at 24 V rated value  | 1 A  |
| Installation/ mounting/ dimensions  |  |
| mounting position   | Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)   |
| fastening method  | screw fixing   |
| height  | 764 mm   |
| width   | 478 mm   |
| depth   | 241 mm   |
| required spacing with side-by-side mounting                                 |  |
| • forwards  | 10 mm  |
| backwards   | 0 mm   |
| • upwards   | 100 mm   |
| <ul> <li>downwards</li> <li>at the side</li> </ul>                          | 75 mm<br>5 mm  |
|   |  |
| weight without packaging<br>Connections/ Terminals                          | 61 kg  |
| type of electrical connection   |  |
| for main current circuit  | busbar connection  |
| for control circuit   | spring-loaded terminals  |
| width of connection bar maximum   | 55 mm  |
| wire length for thermistor connection                                       |  |
| • with conductor cross-section = 0.5 mm <sup>2</sup> maximum                | 50 m   |
| <ul> <li>with conductor cross-section = 1.5 mm² maximum</li> </ul>          | 150 m  |
|   |  |

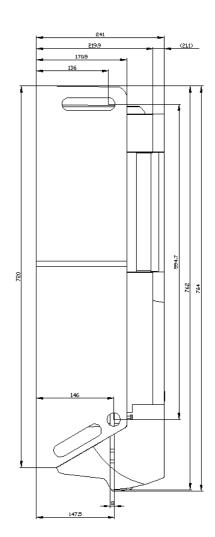
| • with conductor cross-section = 2.5 mm <sup>2</sup> maximum   | 250 m  |
|--|--|
| type of connectable conductor cross-sections   |  |
| <ul> <li>for DIN cable lug for main contacts stranded</li> </ul>   | 2x (50 240 mm²)  |
| <ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>                                    | 2x (70 240 mm²)  |
| type of connectable conductor cross-sections   |  |
| <ul> <li>for control circuit solid</li> </ul>  | 2x (0.25 1.5 mm²)  |
| <ul> <li>for control circuit finely stranded with core end</li> </ul>                                      | 2x (0.25 1.5 mm²)  |
| processing   |  |
| <ul> <li>at AWG cables for control circuit solid</li> </ul>  | 2x (24 16)   |
| <ul> <li>at AWG cables for control circuit finely stranded with</li> </ul>                                 | 2x (24 16)   |
| core end processing  |  |
| wire length  | 000  |
| between soft starter and motor maximum   | 800 m  |
| at the digital inputs at DC maximum  | 1 000 m  |
| tightening torque  | 00 05 N  |
| <ul> <li>for main contacts with screw-type terminals</li> </ul>  | 20 35 N·m  |
| <ul> <li>for auxiliary and control contacts with screw-type<br/>terminals</li> </ul>                       | 0.8 1.2 N·m  |
| tightening torque [lbf·in]   |  |
| <ul> <li>for main contacts with screw-type terminals</li> </ul>  | 177 310 lbf·in   |
|  | 7 10.3 lbf in  |
| <ul> <li>for auxiliary and control contacts with screw-type<br/>terminals</li> </ul>                       |  |
| Ambient conditions   |  |
| installation altitude at height above sea level maximum  | 5 000 m; Derating as of 1000 m, see catalog                            |
| ambient temperature  |  |
| during operation   | -25 +60 °C; Please observe derating at temperatures of 40 °C or        |
|  | above  |
| <ul> <li>during storage and transport</li> </ul>   | -40 +80 °C   |
| environmental category   |  |
| during operation acc. to IEC 60721   | 3K6 (no ice formation, only occasional condensation), 3C3 (no salt     |
| 5 1  | mist), 3S2 (sand must not get into the devices), 3M6                   |
| <ul> <li>during storage acc. to IEC 60721</li> </ul>   | 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must |
|  | not get inside the devices), 1M4                                       |
| during transport acc. to IEC 60721   | 2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)                            |
| EMC emitted interference   | acc. to IEC 60947-4-2: Class A   |
| Communication/ Protocol  |  |
| communication module is supported  |  |
| <ul> <li>PROFINET standard</li> </ul>  | Yes  |
| <ul> <li>PROFINET high-feature</li> </ul>  | Yes  |
| EtherNet/IP  | Yes  |
| Modbus RTU   | Yes  |
| Modbus TCP   | Yes  |
| PROFIBUS   | Yes  |
| UL/CSA ratings   |  |
| manufacturer's article number  |  |
| ● of the fuse  |  |
| <ul> <li>— usable for Standard Faults up to 575/600 V according to UL</li> </ul>                           | Type: Class J / L, max. 3000 A; Iq = 85 kA                             |
| — usable for High Faults up to 575/600 V<br>according to UL  | Type: Class J / L, max. 3000 A; Iq = 100 kA                            |
| <ul> <li>usable for Standard Faults at inside-delta<br/>circuit up to 575/600 V according to UL</li> </ul> | Type: Class J / L, max. 3000 A; Iq = 85 kA                             |
| — usable for High Faults at inside-delta circuit up to 575/600 V according to UL                           | Type: Class J / L, max. 3000 A; Iq = 100 kA                            |
| operating power [hp] for 3-phase motors  |  |
| • at 200/208 V at 50 °C rated value  | 350 hp   |
| • at 220/230 V at 50 °C rated value  | 400 hp   |
| • at 460/480 V at 50 °C rated value  | 850 hp   |
| • at 200/208 V at inside-delta circuit at 50 °C rated  | 600 hp   |
| value  |  |
| <ul> <li>at 220/230 V at inside-delta circuit at 50 °C rated</li> </ul>                                    | 700 hp   |
|  |  |

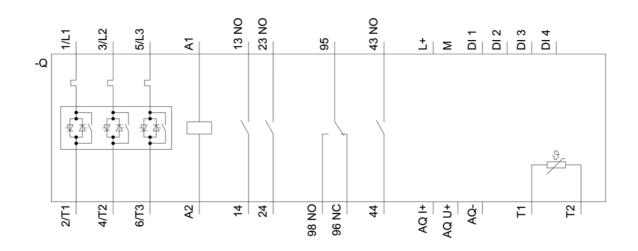
| value   |   |   |  |  |  |  |
|---|---|---|--|--|--|--|
|   | t inside-delta circuit at §   | 50 °C rated   | 1 500 h  | р  |  |  |
| contact rating of auxiliary contacts according to UL                                |   | R300-B300   |  |  |  |  |
| afety related data  | ,   |   | 1000 2   |  |  |  |
| -   | on the front acc. to IE   | C 60529   | IP00   |  |  |  |
| protection class IP on the front acc. to IEC 60529<br>electromagnetic compatibility |   |   | EC 60947-4-2   |  |  |  |
| ATEX  |   |   |  |  |  |  |
| certificate of suitabi  | ility   |   |  |  |  |  |
| • ATEX  |   | Yes   |  |  |  |  |
| • IECEx   |   | Yes   |  |  |  |  |
| <ul> <li>according to A</li> </ul>  | TEX directive 2014/34/  | EU  | BVS 18   | ATEX F 003 X   |  |  |
| type of protection according to ATEX directive<br>2014/34/EU                        |   |   | Ex eb Gb] [Ex db Gb<br>Ex db Mb]   | o] [Ex pxb Gb], II (2)D [  | Ex tb Db] [Ex pxb Db],   |  |
| hardware fault tolerance acc. to IEC 61508 relating to ATEX                         |   | 0   |  |  |  |  |
| PFDavg with low de relating to ATEX   | mand rate acc. to IEC   | 61508   | 0.008  |  |  |  |
| PFHD with high dem<br>to ATEX   | nand rate acc. to EN 6  | 2061 relating   | 0.00000  | 005 1/h  |  |  |
| Safety Integrity Leve<br>to ATEX  | el (SIL) acc. to IEC 61   | 508 relating  | SIL1   |  |  |  |
| T1 value for proof te<br>IEC 61508 relating to                                      | est interval or service<br>o ATEX   | life acc. to  | 3 у  |  |  |  |
| ertificates/ approval   | ls  |   |  |  |  |  |
| General Product Ap  | anroval   |   |  |  |  | For use in hazard-                         |
| and a subscription of the   | oprovai   |   |  |  | EMC  | ous locations                              |
| (SP)  |   | ٩   |  | EAC  |  |  |
| For use in hazard-<br>ous locations   | Declaration of<br>Conformity  | UL UL   | ates I   | <b>ERE</b><br>Marine / Shipping  |  |  |
| For use in hazard-  | CCC   | Test Certifica<br>Type Test Ce<br>ates/Test Re  | ertific-   | ERE<br>Marine / Shipping   | EMC<br>RCM   | ous locations                              |
| For use in hazard-<br>ous locations   | Declaration of<br>Conformity<br>CCC<br>EG-Konf.   | <u>Type Test Ce</u><br>ates/Test Re   | ertific-<br>eport  | ERC<br>Marine / Shipping   | EMC<br>RCM   | ous locations                              |
| For use in hazard-<br>ous locations   | Declaration of<br>Conformity<br>CCC<br>EG-Konf.   | <u>Type Test Ce</u><br><u>ates/Test Re</u><br>ogs, Brochures,.  | ertific-<br>eport  | ABS  | EMC<br>RCM   | ous locations                              |
| For use in hazard-<br>ous locations   | Declaration of<br>Conformity<br>CCC<br>EG-Konf.   | Type Test Ce<br>ates/Test Re<br>ogs, Brochures,.<br>h/Catalog/produc  | )<br>t?mlfb=3R   | AB5  | RCM  | ous locations                              |
| For use in hazard-<br>ous locations   | Declaration of<br>Conformity<br>CCC<br>EG-Konf.<br>wwnloadcenter (Catalo<br>.com/ic10<br>e ordering system)<br>iemens.com/mall/en/er<br>or<br>tion.siemens.com/VV/V<br>lanuals, Certificates, or<br>ry.siemens.com/cs/ww/   | Type Test Ce<br>ates/Test Re<br>ogs, Brochures,<br>h/Catalog/produc<br>//CAXorder/defau<br>Characteristics,<br>/en/ps/3RW5556   | :rtific-<br>:port<br>::)<br>: <u>t?mlfb=3R</u><br>: <b>It</b> .aspx?lar<br>; <b>FAQs</b> ,)<br>-2HA04    | W5556-2HA04<br>mg=en&mlfb=3RW55  | ELECTION OF CONTRACT OF CONTRA | ous locations  ous locations  confirmation |
| For use in hazard-<br>ous locations   | Declaration of<br>Conformity<br>CCC<br>EG-Konf.   | Type Test Ce<br>ates/Test Re<br>ogs, Brochures,<br>o/Catalog/produc<br>//CAXorder/defau<br>Characteristics,<br>/en/ps/3RW5556<br>lension drawing<br>cax_de.aspx?mlf                       | :::ific-<br>:::port<br>:::)<br>:t?mlfb=3R<br>it.aspx?lar<br>; FAQs,)<br>-2HA04<br>[s, 3D moo<br>fb=3RW55 | W55556-2HA04<br>mg=en&mlfb=3RW55   | ELECTION OF CONTRACT OF CONTRA | ous locations                              |
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http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5556-2HA04&objecttype=14&gridview=view1

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3/9/2021 🖸