## SIEMENS

## Data sheet

## 3RW5056-6AB14



SIRIUS soft starter 200-480 V 171 A, 110-250 V AC Screw terminals Analog output

| product brand name  | SIRIUS  |  |  |  |
|---|---|--|--|--|
| product category  | Hybrid switching devices                              |  |  |  |
| product designation   | Soft starter  |  |  |  |
| product type designation  | 3RW50   |  |  |  |
| manufacturer's article number   |   |  |  |  |
| <ul> <li>of standard HMI module usable</li> </ul>   | <u>3RW5980-0HS01</u>                                  |  |  |  |
| <ul> <li>of high feature HMI module usable</li> </ul>   | <u>3RW5980-0HF00</u>                                  |  |  |  |
| <ul> <li>of communication module PROFINET standard usable</li> </ul>                              | <u>3RW5980-0CS00</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>  | 3VA2220-7MN32-0AA0; Type of assignment 1, Iq = 20 kA  |  |  |  |
| <ul> <li>of circuit breaker usable at 500 V</li> </ul>  | 3VA2220-7MN32-0AA0; Type of assignment 1, Iq = 20 kA  |  |  |  |
| <ul> <li>of the gG fuse usable up to 690 V</li> </ul>   | 3NA3244-6; 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>3NE1 230-0; 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>    | <u>3NE3 335; Type of coordination 2, Iq = 65 kA</u>   |  |  |  |
| <ul> <li>of line contactor usable up to 480 V</li> </ul>  | <u>3RT1056</u>  |  |  |  |
| <ul> <li>of line contactor usable up to 690 V</li> </ul>  | <u>3RT1064</u>  |  |  |  |
| General technical data  |   |  |  |  |
| starting voltage [%]  | 30 100 %  |  |  |  |
| stopping voltage [%]  | 50 %; non-adjustable                                  |  |  |  |
| start-up ramp time of soft starter  | 0 20 s  |  |  |  |
| ramp-down time of soft starter  | 0 20 s  |  |  |  |
| current limiting value [%] adjustable   | 130 700 %   |  |  |  |
| certificate of suitability  |   |  |  |  |
| CE marking  | Yes   |  |  |  |
| UL approval   | Yes   |  |  |  |
| CSA approval  | Yes   |  |  |  |
| product component   |   |  |  |  |
| HMI-High Feature  | No  |  |  |  |
| <ul> <li>is supported HMI-Standard</li> </ul>   | Yes   |  |  |  |
| <ul> <li>is supported HMI-High Feature</li> </ul>   | Yes   |  |  |  |
| product feature integrated bypass contact system  | Yes   |  |  |  |
| number of controlled phases   | 2   |  |  |  |
| buffering time in the event of power failure  |   |  |  |  |

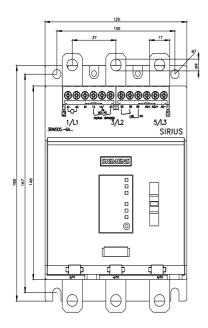
| • for main ourrant circuit                                       | 100 mc   |  |  |  |  |
|--|--|--|--|--|--|
| for main current circuit     for control circuit                 | 100 ms<br>100 ms   |  |  |  |  |
|  |  |  |  |  |  |
| insulation voltage rated value                                   | 600 V  |  |  |  |  |
| degree of pollution  | 3, acc. to IEC 60947-4-2   |  |  |  |  |
| impulse voltage rated value                                      | 6 kV<br>1 400 V  |  |  |  |  |
| blocking voltage of the thyristor maximum                        |  |  |  |  |  |
| service factor   |  |  |  |  |  |
| surge voltage resistance rated value                             | 6 kV   |  |  |  |  |
| maximum permissible voltage for protective separation            | 600.1/   |  |  |  |  |
| between main and auxiliary circuit     shock resistance          | 600 V  |  |  |  |  |
|  | 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting   |  |  |  |  |
| utilization category according to IEC 60947-4-2                  | AC-53a<br>Q  |  |  |  |  |
| reference code according to IEC 81346-2                          | 09/23/2019   |  |  |  |  |
| Substance Prohibitance (Date) SVHC substance name                | Lead - 7439-92-1   |  |  |  |  |
| SVHC Substance name  | Lead monoxide (lead oxide) - 1317-36-8<br>2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5<br>2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol - 79-94-7<br>1,6,7,8,9,14,15,16,17,17,18,18-<br>Dodecachloropentacyclo[12.2.1.16,9.02,13.05,10]octadeca-7,15-diene<br>("Dechlorane Plus"™) covering any of its individual anti- and syn-isomers or<br>any combination thereof<br>Dodecamethylcyclohexasiloxane (D6) - 540-97-6 |  |  |  |  |
| product function   |  |  |  |  |  |
| <ul> <li>ramp-up (soft starting)</li> </ul>                      | Yes  |  |  |  |  |
| • ramp-down (soft stop)  | Yes  |  |  |  |  |
| Soft Torque  | Yes  |  |  |  |  |
| <ul> <li>adjustable current limitation</li> </ul>                | Yes  |  |  |  |  |
| • pump ramp down   | Yes  |  |  |  |  |
| <ul> <li>intrinsic device protection</li> </ul>                  | Yes  |  |  |  |  |
| <ul> <li>motor overload protection</li> </ul>                    | Yes; Electronic motor overload protection  |  |  |  |  |
| <ul> <li>evaluation of thermistor motor protection</li> </ul>    | No   |  |  |  |  |
| auto-RESET   | Yes  |  |  |  |  |
| manual RESET   | Yes  |  |  |  |  |
| remote reset   | Yes; By turning off the control supply voltage   |  |  |  |  |
| <ul> <li>communication function</li> </ul>                       | Yes  |  |  |  |  |
| <ul> <li>operating measured value display</li> </ul>             | Yes; Only in conjunction with special accessories  |  |  |  |  |
| error logbook  | Yes; Only in conjunction with special accessories  |  |  |  |  |
| <ul> <li>via software parameterizable</li> </ul>                 | No   |  |  |  |  |
| <ul> <li>via software configurable</li> </ul>                    | Yes  |  |  |  |  |
| PROFlenergy  | Yes; in connection with the PROFINET Standard communication module   |  |  |  |  |
| voltage ramp   | Yes  |  |  |  |  |
| torque control   | No   |  |  |  |  |
| analog output  | Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)  |  |  |  |  |
| Power Electronics  |  |  |  |  |  |
| operational current  |  |  |  |  |  |
| <ul> <li>at 40 °C rated value</li> </ul>                         | 171 A  |  |  |  |  |
| ● at 50 °C rated value   | 153 A  |  |  |  |  |
| • at 60 °C rated value   | 141 A  |  |  |  |  |
| operating voltage  |  |  |  |  |  |
| rated value  | 200 480 V  |  |  |  |  |
| relative negative tolerance of the operating voltage             | -15 %  |  |  |  |  |
| relative positive tolerance of the operating voltage             | 10 %   |  |  |  |  |
| operating power for 3-phase motors                               |  |  |  |  |  |
| • at 230 V at 40 °C rated value                                  | 45 kW  |  |  |  |  |
| • at 400 V at 40 °C rated value                                  | 90 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 %   |  |  |  |  |
| adjustable motor current   |  |  |  |  |  |
| at rotary coding switch on switch position 1                     | 81 A   |  |  |  |  |
| <ul> <li>at rotary coding switch on switch position 2</li> </ul> | 87 A   |  |  |  |  |

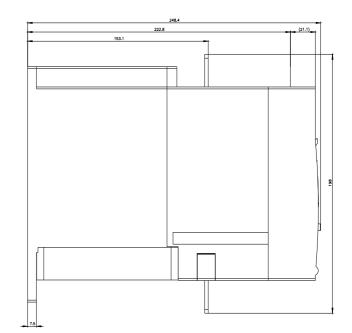
| <ul> <li>at rotary coding switch on switch position 3</li> </ul>   | 93 A  |
|--|---|
| <ul> <li>at rotary coding switch on switch position 4</li> </ul>   | 99 A  |
| <ul> <li>at rotary coding switch on switch position 5</li> </ul>   | 105 A   |
| <ul> <li>at rotary coding switch on switch position 6</li> </ul>   | 111 A   |
| <ul> <li>at rotary coding switch on switch position 7</li> </ul>   | 117 A   |
| <ul> <li>at rotary coding switch on switch position 8</li> </ul>   | 123 A   |
| <ul> <li>at rotary coding switch on switch position 9</li> </ul>   | 129 A   |
| <ul> <li>at rotary coding switch on switch position 10</li> </ul>  | 135 A   |
|  | 141 A   |
| at rotary coding switch on switch position 11  |   |
| at rotary coding switch on switch position 12  | 147 A   |
| <ul> <li>at rotary coding switch on switch position 13</li> </ul>  | 153 A   |
| <ul> <li>at rotary coding switch on switch position 14</li> </ul>  | 159 A   |
| <ul> <li>at rotary coding switch on switch position 15</li> </ul>  | 165 A   |
| <ul> <li>at rotary coding switch on switch position 16</li> </ul>  | 171 A   |
| • minimum  | 81 A  |
| minimum load [%]   | 15 %; Relative to smallest settable le  |
| power loss [W] for rated value of the current at AC  |   |
| • at 40 °C after startup   | 29 W  |
| • at 50 °C after startup   | 23 W  |
| • at 60 °C after startup   | 20 W  |
| power loss [W] at AC at current limitation 350 %   |   |
| • at 40 °C during startup  | 1 751 W   |
| • at 50 °C during startup  | 1 478 W   |
| • at 60 °C during startup  | 1 308 W   |
| type of the motor protection   | Electronic, tripping in the event of thermal overload of the motor  |
| Control circuit/ Control   | Electionic, apping in the event of thermal overload of the motor  |
|  | 40  |
| type of voltage of the control supply voltage  | AC  |
| control supply voltage at AC   | 440 05014   |
| • at 50 Hz   | 110 250 V   |
| • at 60 Hz   | 110 250 V   |
|  |   |
| relative negative tolerance of the control supply voltage at AC at 50 Hz   | -15 %   |
|  | -15 %<br>10 %   |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at  |   |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at   | 10 %  |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at  | 10 %<br>-15 %   |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 60 Hz   | 10 %<br>-15 %<br>10 %   |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 60 Hz<br>control supply voltage frequency<br>relative negative tolerance of the control supply voltage  | 10 %<br>-15 %<br>10 %<br>50 60 Hz   |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 60 Hz<br>control supply voltage frequency<br>relative negative tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage  | 10 %<br>-15 %<br>10 %<br>50 60 Hz<br>-10 %  |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 60 Hz<br>control supply voltage frequency<br>relative negative tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>control supply current in standby mode rated value   | 10 %<br>-15 %<br>10 %<br>50 60 Hz<br>-10 %<br>10 %  |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 60 Hz<br>control supply voltage frequency<br>relative negative tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>control supply current in standby mode rated value<br>holding current in bypass operation rated value  | 10 %<br>-15 %<br>10 %<br>50 60 Hz<br>-10 %<br>10 %<br>30 mA<br>80 mA  |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 60 Hz<br>control supply voltage frequency<br>relative negative tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>control supply current in standby mode rated value   | 10 %<br>-15 %<br>10 %<br>50 60 Hz<br>-10 %<br>10 %<br>30 mA   |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 60 Hz<br>control supply voltage frequency<br>relative negative tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>control supply current in standby mode rated value<br>holding current in bypass operation rated value<br>inrush current by closing the bypass contacts maximum<br>inrush current peak at application of control supply voltage   | 10 %<br>-15 %<br>10 %<br>50 60 Hz<br>-10 %<br>10 %<br>30 mA<br>80 mA<br>2.5 A   |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 60 Hz<br>control supply voltage frequency<br>relative negative tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>control supply current in standby mode rated value<br>holding current in bypass operation rated value<br>inrush current by closing the bypass contacts maximum<br>inrush current peak at application of control supply voltage<br>maximum<br>duration of inrush current peak at application of control supply<br>voltage   | 10 %<br>-15 %<br>10 %<br>50 60 Hz<br>-10 %<br>10 %<br>30 mA<br>80 mA<br>2.5 A<br>12.2 A   |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 60 Hz<br>control supply voltage frequency<br>relative negative tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>control supply current in standby mode rated value<br>holding current in bypass operation rated value<br>inrush current by closing the bypass contacts maximum<br>inrush current peak at application of control supply<br>duration of inrush current peak at application of control supply   | 10 %<br>-15 %<br>10 %<br>50 60 Hz<br>-10 %<br>10 %<br>30 mA<br>80 mA<br>2.5 A<br>12.2 A<br>2.2 ms<br>Varistor<br>4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit<br>breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of  |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 60 Hz<br>control supply voltage frequency<br>relative negative tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>control supply current in standby mode rated value<br>holding current in bypass operation rated value<br>inrush current by closing the bypass contacts maximum<br>inrush current peak at application of control supply voltage<br>maximum<br>duration of inrush current peak at application of control supply<br>voltage<br>design of the overvoltage protection   | 10 %<br>-15 %<br>10 %<br>50 60 Hz<br>-10 %<br>10 %<br>30 mA<br>80 mA<br>2.5 A<br>12.2 A<br>2.2 ms<br>Varistor<br>4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit   |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 60 Hz<br>control supply voltage frequency<br>relative negative tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>control supply current in standby mode rated value<br>holding current in bypass operation rated value<br>inrush current by closing the bypass contacts maximum<br>inrush current peak at application of control supply voltage<br>maximum<br>duration of inrush current peak at application of control supply<br>voltage<br>design of the overvoltage protection<br>design of short-circuit protection for control circuit   | 10 %<br>-15 %<br>10 %<br>50 60 Hz<br>-10 %<br>10 %<br>30 mA<br>80 mA<br>2.5 A<br>12.2 A<br>2.2 ms<br>Varistor<br>4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit<br>breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of  |
| AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs/ Outputs   | 10 %<br>-15 %<br>10 %<br>50 60 Hz<br>-10 %<br>10 %<br>30 mA<br>80 mA<br>2.5 A<br>12.2 A<br>2.2 ms<br>Varistor<br>4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit<br>breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of<br>scope of supply   |
| AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs  | 10 %         -15 %         10 %         50 60 Hz         -10 %         10 %         30 mA         80 mA         2.5 A         12.2 A         2.2 ms         Varistor         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         1   |
| AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs/ Outputs number of digital inputs number of digital outputs • not parameterizable  | 10 %<br>-15 %<br>10 %<br>50 60 Hz<br>-10 %<br>10 %<br>30 mA<br>80 mA<br>2.5 A<br>12.2 A<br>2.2 ms<br>Varistor<br>4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit<br>breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of<br>scope of supply<br>1<br>1<br>3<br>2   |
| AC at 50 Hz relative positive tolerance of the control supply voltage at AC at 50 Hz relative negative tolerance of the control supply voltage at AC at 60 Hz relative positive tolerance of the control supply voltage at AC at 60 Hz control supply voltage frequency relative negative tolerance of the control supply voltage frequency relative positive tolerance of the control supply voltage frequency control supply current in standby mode rated value holding current in bypass operation rated value inrush current by closing the bypass contacts maximum inrush current peak at application of control supply voltage maximum duration of inrush current peak at application of control supply voltage design of the overvoltage protection design of short-circuit protection for control circuit Inputs/ Outputs number of digital outputs • not parameterizable digital output version  | 10 %         -15 %         10 %         50 60 Hz         -10 %         10 %         30 mA         80 mA         2.5 A         12.2 A         2.2 ms         Varistor         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         1         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)           |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 60 Hz<br>control supply voltage frequency<br>relative negative tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>control supply current in standby mode rated value<br>holding current in bypass operation rated value<br>inrush current by closing the bypass contacts maximum<br>inrush current peak at application of control supply voltage<br>maximum<br>duration of inrush current peak at application of control supply<br>voltage<br>design of the overvoltage protection<br>design of short-circuit protection for control circuit<br>Inputs/ Outputs<br>number of digital inputs<br>number of digital outputs<br>• not parameterizable<br>digital output version<br>number of analog outputs  | 10 %<br>-15 %<br>10 %<br>50 60 Hz<br>-10 %<br>10 %<br>30 mA<br>80 mA<br>2.5 A<br>12.2 A<br>2.2 ms<br>Varistor<br>4 A gG fuse (Icu=1 kA), 6 A quick-acting fuse (Icu=1 kA), C1 miniature circuit<br>breaker (Icu= 600 A), C6 miniature circuit breaker (Icu= 300 A); Is not part of<br>scope of supply<br>1<br>1<br>3<br>2   |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 60 Hz<br>control supply voltage frequency<br>relative negative tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>control supply current in standby mode rated value<br>holding current in bypass operation rated value<br>inrush current by closing the bypass contacts maximum<br>inrush current peak at application of control supply voltage<br>maximum<br>duration of inrush current peak at application of control supply<br>voltage<br>design of the overvoltage protection<br>design of short-circuit protection for control circuit<br>Inputs/ Outputs<br>number of digital inputs<br>number of digital outputs<br>• not parameterizable<br>digital output version<br>number of analog outputs<br>switching capacity current of the relay outputs | 10 %         -15 %         10 %         50 60 Hz         -10 %         10 %         30 mA         80 mA         2.5 A         12.2 A         2.2 ms         Varistor         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         1         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)         1 |
| AC at 50 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 50 Hz<br>relative negative tolerance of the control supply voltage at<br>AC at 60 Hz<br>relative positive tolerance of the control supply voltage at<br>AC at 60 Hz<br>control supply voltage frequency<br>relative negative tolerance of the control supply voltage<br>frequency<br>relative positive tolerance of the control supply voltage<br>frequency<br>control supply current in standby mode rated value<br>holding current in bypass operation rated value<br>inrush current by closing the bypass contacts maximum<br>inrush current peak at application of control supply voltage<br>maximum<br>duration of inrush current peak at application of control supply<br>voltage<br>design of the overvoltage protection<br>design of short-circuit protection for control circuit<br>Inputs/ Outputs<br>number of digital inputs<br>number of digital outputs<br>• not parameterizable<br>digital output version<br>number of analog outputs  | 10 %         -15 %         10 %         50 60 Hz         -10 %         10 %         30 mA         80 mA         2.5 A         12.2 A         2.2 ms         Varistor         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         1         3         2         2 normally-open contacts (NO) / 1 changeover contact (CO)           |

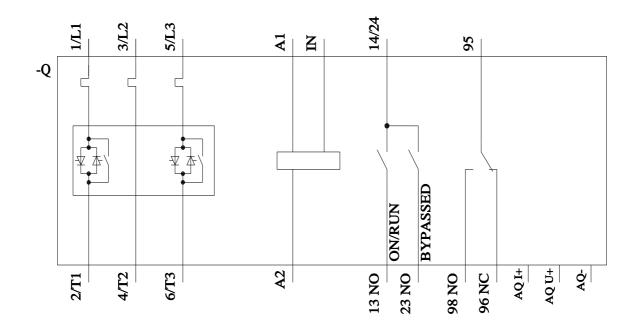
| Installation/ mounting/ dimensions  |   |  |  |  |  |
|---|---|--|--|--|--|
| mounting position   | with vertical mounting surface +/-90° rotatable, with vertical mounting surface $\frac{1}{22.5^{\circ}}$ tiltable to the front and back |  |  |  |  |
| fastening method  | +/- 22.5° tiltable to the front and back<br>screw fixing  |  |  |  |  |
| height  | 198 mm  |  |  |  |  |
| width   | 120 mm  |  |  |  |  |
| depth   | 249 mm  |  |  |  |  |
| required spacing with side-by-side mounting   |   |  |  |  |  |
| forwards  | 10 mm   |  |  |  |  |
| backwards   | 0 mm  |  |  |  |  |
| • upwards   | 100 mm  |  |  |  |  |
| downwards   |   |  |  |  |  |
| • at the side   | 75 mm<br>5 mm   |  |  |  |  |
| weight without packaging  | 5.2 kg  |  |  |  |  |
| Connections/ Terminals  | 0.2 kg  |  |  |  |  |
| type of electrical connection   |   |  |  |  |  |
| for main current circuit  | busbar connection   |  |  |  |  |
| for control circuit   |   |  |  |  |  |
| width of connection bar maximum   | screw-type terminals<br>25 mm   |  |  |  |  |
|   | 23 11111  |  |  |  |  |
| type of connectable conductor cross-sections for main<br>contacts for box terminal  |   |  |  |  |  |
| <ul> <li>using the front clamping point solid</li> </ul>  | 16 120 mm²  |  |  |  |  |
| <ul> <li>using the front clamping point finely stranded with core</li> </ul>  | 16 120 mm²  |  |  |  |  |
| end processing  |   |  |  |  |  |
| <ul> <li>using the front clamping point finely stranded without core<br/>end processing</li> </ul>                          | 10 120 mm²  |  |  |  |  |
| using the front clamping point stranded   | 16 70 mm²   |  |  |  |  |
| using the back clamping point solid   | 16 120 mm <sup>2</sup>  |  |  |  |  |
| <ul> <li>r box terminal using the back clamping point</li> </ul>  | 6 250 kcmil   |  |  |  |  |
| using both clamping points solid  | max. 1x 95 mm², 1x 120 mm²  |  |  |  |  |
| using both clamping points finely stranded with core end  | max. 1x 95 mm², 1x 120 mm²  |  |  |  |  |
| <ul> <li>processing</li> <li>using both clamping points finely stranded without core</li> </ul>                             | max. 1x 95 mm², 1x 120 mm²  |  |  |  |  |
| end processing<br>• using both clamping points stranded   | max. 2x 120 mm²   |  |  |  |  |
| <ul> <li>using both clamping points stranded</li> <li>using the back clamping point finely stranded with core</li> </ul>    | 16 120 mm²  |  |  |  |  |
| <ul> <li>using the back clamping point finely stranded without core</li> </ul>  | 10 120 mm²  |  |  |  |  |
| end processing  |   |  |  |  |  |
| <ul> <li>using the back clamping point stranded</li> </ul>  | 16 120 mm²  |  |  |  |  |
| type of connectable conductor cross-sections  |   |  |  |  |  |
| <ul> <li>for AWG cables for main current circuit solid</li> </ul>   | 4 250 kcmil   |  |  |  |  |
| for DIN cable lug for main contacts stranded  | 16 95 mm <sup>2</sup>   |  |  |  |  |
| for DIN cable lug for main contacts finely stranded   | 25 120 mm²  |  |  |  |  |
| type of connectable conductor cross-sections  |   |  |  |  |  |
| • for control circuit solid   | 1x (0.5 4.0 mm <sup>2</sup> ), 2x (0.5 2.5 mm <sup>2</sup> )  |  |  |  |  |
| • for control circuit finely stranded with core end processing  | 1x (0.5 2.5 mm <sup>2</sup> ), 2x (0.5 1.5 mm <sup>2</sup> )  |  |  |  |  |
| for AWG cables for control circuit solid  | 1x (20 12), 2x (20 14)  |  |  |  |  |
| wire length   |   |  |  |  |  |
| between soft starter and motor maximum  | 800 m   |  |  |  |  |
| at the digital inputs at AC maximum   | 1 000 m   |  |  |  |  |
| tightening torque   | 10 14 Nm  |  |  |  |  |
| <ul> <li>for main contacts with screw-type terminals</li> <li>for auxiliany and control contacts with screw type</li> </ul> | 10 14 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>   | 89 124 lbf·in   |  |  |  |  |
| <ul> <li>for auxiliary and control contacts with screw-type</li> </ul>  | 7 10.3 lbf·in   |  |  |  |  |
| terminals   |   |  |  |  |  |
| Ambient conditions  |   |  |  |  |  |
| installation altitude at height above sea level maximum   | 5 000 m; derating as of 1000 m, see Manual  |  |  |  |  |
| ambient temperature   |   |  |  |  |  |
| during operation  | -25 +60 °C; Please observe derating at temperatures of 40 °C or above   |  |  |  |  |
| during storage and transport  | -40 +80 °C  |  |  |  |  |

| Siemens Eco Profile (SEP)       Siemens EcoTech         EMC emitted interference       acc. to IEC 60947-4-2: Class A         communication/Protocol       -         communication/Protocol       -         communication module is supported       Yes         • PROFINET standard       Yes         • EtherNet/IP       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes <b>ULOSA ratings</b> -         manufacturer's article number       of circuit breaker         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA5225, max. 250 A; lq = 10 kA         • of the fuse       -       usable for Standard Faults up to 575/600 V         - usable for Standard Faults up to 575/600 V       Siemens type: 3VA522, max. 250 A; lq max = 65 kA         • of the fuse       -       usable for High Faults up to 575/600 V         - usable for Standard Faults up to 575/600 V       Type: Class RK5 / K5, max. 400 A; lq = 10 kA         operating power [hp] for 3-phase motors       -         • at 200/208 V at 50 °C rated value       50 hp         • at 200/208 V at 50 °C rated value       50 hp         • at 460/480 V at 50 °C rated value       50 hp         • at 460/480 V at 50 °C rated value   | during operation according to IEC 60721     during storage according to IEC 60721     during storage according to IEC 60721     during transport according to IEC 60721     during transport according to IEC 60721     deviced     devic   | Affatter for the devices), 3M6<br>phal condensation), 1C2 (no salt mist), 1S2 (sand must not g<br>s), 1M4<br>M2 (max. fall height 0.3 m)<br>n<br>7-4-2: Class A<br>Affatter for the devices of the device of the d |  |  |
|--|---|--|--|--|
| (sand must not get into the devices), 3M6         • during storage according to IEC 60721       1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must inside the devices), 1M4         • during transport according to IEC 60721       2K2, 2C1, 2S1, 2M2 (max. fail height 0.3 m)         invironmental footprint       stemens Eco Profile (SEP)         Siemens Eco Profile (SEP)       sciences Eco Tech         EMC emitted interference       acc. to IEC 60947-4-2: Class A         communication Protocol       res         communication Protocol       Yes         etherNet/IP       Yes         • RPGOFINET standard       Yes         • Modbus RTU       Yes         • Modbus RTD       Yes         • PROFIBUS       Yes         /// CSA ratings       Yes         • of circuit breaker       -         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA522, max. 250 A; lq = 10 kA         • of the fuse       -         - usable for Standard Faults up to 575/600 V according to UL       Siemens type: 3VA522, max. 350 A; lq = 10 kA         • at 200/208 V at 50 °C rated value       50 hp         • at 200/208 V at 50 °C rated value       50 hp         • at 200/208 V at 50 °C rated value       50 hp         • at 200/208 V at 50 °C rated value <t< td=""><td>(sand must not ge• during storage according to IEC 607211K6 (only occasic<br/>inside the device:<br/>2K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 61508acc. to IEC 60943• during transport according to IEC 61508Yes• during transport according to IEC 61508Yes• during transport according to IEC 61508Fall• during transport according to IEC 61508Siemens type: 3V• during transport according to IEC 61508Yes• during transport according to IEC 61508Siemens type: 3V• of circuit breaker usable for Standard Faults at 460/480 V according to ULSiemens type: 3V• of the fuse usable for Standard Faults up to 575/600 VSiemens type: 3V• of the fuse usable for High Faults up to 575/600 VType: Class J, mail• of UL• usable for High Faults up to 575/600 VType: Class J, mail• at 200/208 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value&lt;</td><td>Affatter for the devices), 3M6<br/>phal condensation), 1C2 (no salt mist), 1S2 (sand must not g<br/>s), 1M4<br/>M2 (max. fall height 0.3 m)<br/>n<br/>7-4-2: Class A<br/>Affatter for the devices of the device of the d</td></t<> | (sand must not ge• during storage according to IEC 607211K6 (only occasic<br>inside the device:<br>2K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 607212K2, 2C1, 2S1, 2• during transport according to IEC 61508acc. to IEC 60943• during transport according to IEC 61508Yes• during transport according to IEC 61508Yes• during transport according to IEC 61508Fall• during transport according to IEC 61508Siemens type: 3V• during transport according to IEC 61508Yes• during transport according to IEC 61508Siemens type: 3V• of circuit breaker usable for Standard Faults at 460/480 V according to ULSiemens type: 3V• of the fuse usable for Standard Faults up to 575/600 VSiemens type: 3V• of the fuse usable for High Faults up to 575/600 VType: Class J, mail• of UL• usable for High Faults up to 575/600 VType: Class J, mail• at 200/208 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value<  | Affatter for the devices), 3M6<br>phal condensation), 1C2 (no salt mist), 1S2 (sand must not g<br>s), 1M4<br>M2 (max. fall height 0.3 m)<br>n<br>7-4-2: Class A<br>Affatter for the devices of the device of the d |  |  |
| inside the devices), 1M4<br>• during transport according to IEC 60721<br>2K2, 2C1, 2S1, 2M2 (max, fall height 0.3 m)<br>Avironmental footprint<br>Siemens Eco Profile (SEP)<br>Siemens Eco Tech<br>acc. to IEC 60947-4-2: Class A<br>ommunication/ Protocol<br>communication module is supported<br>• PROFINET standard<br>• PROFIBUS<br>Ves<br>• Modbus TCP<br>• of circuit breaker<br>- usable for Standard Faults at 460/480 V according to UL<br>• of the fuse<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>according to UL<br>- usable for Standard Faults up to 575/600 V<br>- according to UL<br>- usable for Standard Faults up to 575/600 V<br>- according to UL<br>- usable for Standard Faults up to 575/600 V<br>- according to IEC 60529<br>If POC; IP20 with cover<br>finger-safe, for vertical contact from the front with cover<br>finger-safe, for vertical contact from the front with cover<br>If EX<br>Safety Integrity Level (SIL) according to IEC 61508<br>PICH with high demand rate according to IEC 61508<br>PICH with high demand rate according to IEC 61508<br>- EIC h  | Inside the device:     Auring transport according to IEC 60721     2K2, 2C1, 2S1, 2     Siemens EcoTec     acc. to IEC 6094:     ommunication module is supported         PROFINET standard         Yes         Modbus RTU         Yes         Modbus RTU         Yes         Modbus TCP         Yes         PROFIBUS         Yes         VCSA ratings         UCSA ratings         UL         — usable for Standard Faults at 460/480 V according         to UL         — usable for Standard Faults at 460/480 V according to UL         — usable for Standard Faults up to 575/600 V         according to UL         — usable for High Faults up to 575/600 V according to         UL         — usable for High Faults up to 575/600 V according to         UL         — usable for High Faults up to 575/600 V according to         UL         — usable for High Faults up to 575/600 V according to         UL         — usable for High Faults up to 575/600 V according to         UL         — usable for High Faults up to 575/600 V according to         UL         → usable for High Faults up to 575/600 V         according to UL         → usable for High Faults up to 575/600 V         according to UL         → usable for High Faults up to 575/600 V         according to UL         → usable for High Faults up to 575/600 V         according to UL         → usable for High Faults up to 575/600 V         according to UL         → usable for High Faults up to 575/600 V         according to UL         → usable for High Faults up to 575/600 V   | s), 1M4<br>M2 (max. fall height 0.3 m)<br>n<br>7-4-2: Class A  |  |  |
| vironmental footprint         Siemens EcoTech           Siemens EcoTech         ac: to IEC 60947-4-2: Class A           ommunication module is supported         -                • ROCFINET standard         Yes                • RORDINGET standard         Yes                • Modubus RTU         Yes                • Standard Faults at 460/480 V according to UL          Siemens type: 3VA5225, max. 250 A; Iq = 10 kA                • of the fuse             usable for Standard Faults up to 575/600 V according to UL          Type: Class RK5 / K5, max. 400 A; Iq = 10 kA                • of the fuse               • usable for Standard Faults up to 575/600 V according to UC <t< td=""><td>Nvironmental footprint         Siemens Eco Profile (SEP)       Siemens EcoTec         EMC emitted interference       acc. to IEC 60943         ommunication Module is supported       PROFINET standard         • PROFINET standard       Yes         • Modbus RTU       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         <i>L/CSA ratings</i>       Yes         manufacturer's article number       of circuit breaker         — usable for Standard Faults at 460/480 V according to UL       Siemens type: 3V         • of the fuse       — usable for Standard Faults up to 575/600 V according to UL       Siemens type: 3V         • of the fuse       — usable for Standard Faults up to 575/600 V according to UL       Type: Class RK5         • of the fuse       — usable for Standard Faults up to 575/600 V according to UL       Type: Class J, ma         • ull       — usable for Standard Faults up to 575/600 V according to UL       Type: Class J, ma         • at 200/208 V at 50 °C rated value       50 hp       thp         • at 200/208 V at 50 °C rated value       50 hp       thp         • at 460/480 V at 50 °C rated value       50 hp       thp         • at 460/480 V at 50 °C rated value       50 hp       thp</td><td>n<br/>7-4-2: Class A<br/>/A5225, max. 250 A; lq = 10 kA</td></t<>   | Nvironmental footprint         Siemens Eco Profile (SEP)       Siemens EcoTec         EMC emitted interference       acc. to IEC 60943         ommunication Module is supported       PROFINET standard         • PROFINET standard       Yes         • Modbus RTU       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes <i>L/CSA ratings</i> Yes         manufacturer's article number       of circuit breaker         — usable for Standard Faults at 460/480 V according to UL       Siemens type: 3V         • of the fuse       — usable for Standard Faults up to 575/600 V according to UL       Siemens type: 3V         • of the fuse       — usable for Standard Faults up to 575/600 V according to UL       Type: Class RK5         • of the fuse       — usable for Standard Faults up to 575/600 V according to UL       Type: Class J, ma         • ull       — usable for Standard Faults up to 575/600 V according to UL       Type: Class J, ma         • at 200/208 V at 50 °C rated value       50 hp       thp         • at 200/208 V at 50 °C rated value       50 hp       thp         • at 460/480 V at 50 °C rated value       50 hp       thp         • at 460/480 V at 50 °C rated value       50 hp       thp   | n<br>7-4-2: Class A<br>/A5225, max. 250 A; lq = 10 kA  |  |  |
| Siemens Eco Profile (SEP)       Siemens EcoTech         EMC emitted interference       acc. to IEC 60947-4-2: Class A         semmunication (Protocol  | Siemens Eco Profile (SEP) Siemens Eco Tec<br>EMC emitted interference acc. to IEC 6094;<br>pmmunication Protocol<br>communication module is supported<br>• PROFINET standard Yes<br>• EtherNet/IP Yes<br>• Modbus RTU Yes<br>• Modbus RTU Yes<br>• Modbus TCP Yes<br>• PROFIBUS Yes<br>/CSA ratings<br>manufacturer's article number<br>• of circuit breaker<br>— usable for Standard Faults at 460/480 V according<br>to UL<br>— usable for Standard Faults at 460/480 V according to UL<br>= usable for Standard Faults at 460/480 V according to UL<br>= usable for High Faults at 460/480 V according to UL<br>• of the fuse<br>— usable for Standard Faults up to 575/600 V<br>according to UL<br>— usable for High Faults up to 575/600 V according to<br>UL<br>opperating power [hp] for 3-phase motors<br>• at 200/208 V at 50 °C rated value<br>• at 220/230 | /-4-2: Class A<br>/A5225, max. 250 A; lq = 10 kA   |  |  |
| EMC emitted interference       acc: to IEC 60947-4-2: Class A         pmmunication module is supported       -         oppRoFINET standard       Yes         of PROFINET standard       Yes         of Modbus RTU       Yes         of Modbus RTU       Yes         of Modbus RTU       Yes         of Gravity Standard       Yes         of Gravity Standard Faults at 460/480 V according to UL       Siemens type: 3VA5225, max. 250 A; Iq = 10 kA         of Gravity Bravity Level (Standard Faults at 460/480 V according to UL       Siemens type: 3VA522, max. 250 A; Iq = 10 kA         of of the fuse       -       -   | EMC emitted interference       acc. to IEC 6094;         pmmunication module is supported       PROFINET standard         • PROFINET standard       Yes         • EtherNet/IP       Yes         • Modbus RTU       Yes         • Modbus TCP       Yes         • PROFIBUS       Yes         //CSA ratings       Yes         manufacturer's article number       of circuit breaker         — usable for Standard Faults at 460/480 V according to UL       Siemens type: 3V         • of the fuse       -         — usable for Standard Faults up to 575/600 V       Siemens type: 3V         • of the fuse       -         — usable for Standard Faults up to 575/600 V according to UL       Siemens type: 3V         • of the fuse       -         — usable for High Faults up to 575/600 V according to UL       Siemens type: 3V         • of the fuse       -         — usable for High Faults up to 575/600 V according to UL       Type: Class J, ma         • of the fuse       -         — usable for High Faults up to 575/600 V according to UL       Type: Class J, ma         • out  | /-4-2: Class A<br>/A5225, max. 250 A; lq = 10 kA   |  |  |
| sommunication / Protocol         communication module is supported         e RPOFINET standard         e ReberNet/IP         Modbus RTU         Modbus RTU         Yes         Modbus TCP         PROFIBUS         Yes         VCSA ratings         manufacturer's article number         • of circuit breaker         - usable for Standard Faults at 460/480 V according to UL.         - usable for Standard Faults at 460/480 V according to UL.         - usable for Standard Faults at 460/480 V according to UL.         - usable for Standard Faults up to 575/600 V         according to UL         - usable for High Faults up to 575/600 V         ut         - usable for Standard Faults up to 575/600 V according to UL.         - usable for High Faults up to 575/600 V according to UL.         - usable for High Faults up to 575/600 V according to UL.         - usable for High Faults up to 575/600 V according to UL.         - at 220/208 V at 50 °C rated value         • at 220/208 V at 50 °C rated value         • at 220/208 V at 50 °C rated value         • at 220/208 V at 50 °C rated value         • at 220/208 V at 50 °C rated value         • at 220/208 V at 50 °C rated value         • at 220/208 V at 50 °C rated value   | ommunication/Protocol         communication module is supported         • PROFINET standard         • EtherNet/IP         • Modbus RTU         • Modbus TCP         • PROFIBUS         /CSA ratings         manufacturer's article number         • of circuit breaker         — usable for Standard Faults at 460/480 V according to UL         — usable for High Faults at 460/480 V according to UL         • of the fuse         — usable for Standard Faults up to 575/600 V         according to UL         — usable for Standard Faults up to 575/600 V according to UL         • of the fuse         — usable for Standard Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for Standard Faults up to 575/600 V according to UL         — usable for Standard Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         according to UL       Type: Class RK5         according to UL       Type: Class I, ma         uL       according to SC crated value       50 hp         • at 200/208 V at 50 °C rated value       50 hp         • at 460/480 V at 50 °C rated value       100 hp         Electrical Safety       IPO0; IP20 with co   | 'A5225, max. 250 A; lq = 10 kA   |  |  |
| communication module is supported     Yes       • PROFINET standard     Yes       • EtherNet/IP     Yes       • Modbus RTU     Yes       • Modbus RTU     Yes       • Modbus TCP     Yes       • PROFIBUS     Yes       JCSA ratings     Yes       - usable for Standard Faults at 460/480 V according to UL     Siemens type: 3VA5225, max. 250 A; Iq = 10 kA       - usable for Standard Faults at 460/480 V according to UL     Siemens type: 3VA522, max. 250 A; Iq = 10 kA       • of the fuse     - usable for Standard Faults up to 575/600 V according to UL       - usable for Standard Faults up to 575/600 V according to UL     Type: Class RK5 / K5, max. 400 A; Iq = 10 kA       • of the fuse     - usable for Standard Faults up to 575/600 V according to UL       - usable for Standard Faults up to 575/600 V according to UL     Type: Class RK5 / K5, max. 400 A; Iq = 10 kA       • at 200/208 V at 50 °C rated value     50 hp       • at 200/208 V at 50 °C rated value     50 hp       • at 460/480 V at 50 °C rated value     100 hp       Electrical Safety     IPO0; IP20 with cover       orotection class IP on the front according to IEC 60529     IPO0; IP20 with cover       orotection class IP on the front according to IEC 60529     IPO0; IP20 with cover       rext     Safety Integrity Level (SIL) according to IEC 61508 relating o ATEX  | communication module is supportedYes• PROFINET standardYes• EtherNet/IPYes• Modbus RTUYes• Modbus TCPYes• PROFIBUSYes• PROFIBUSYes/CSA ratingsYesmanufacturer's article number• of circuit breaker- usable for Standard Faults at 460/480 V according to ULSiemens type: 3V• of the fuse- usable for High Faults at 460/480 V according to UL- usable for Standard Faults up to 575/600 V according to ULSiemens type: 3V• of the fuse- usable for Standard Faults up to 575/600 V according to ULType: Class RK5- usable for High Faults up to 575/600 V according to ULType: Class RK5• at 200/208 V at 50 °C rated value50 hp50 hp• at 460/480 V at 50 °C rated value50 hp100 hp• at 460/480 V at 50 °C rated value100 hpElectrical Safetyprotection class IP on the front according to IEC 60529IP00; IP20 with cfinger-safe, for vertexSafety Integrity Level (SIL) according to IEC 61508 relating to ATEXSIL1• PFDavg with low demand rate according to IEC 615089E-6 1/h• PFDavg with low demand rate according to IEC 615080.09  |  |  |  |
| • PROFINET standardYes• EtherNet/IPYes• Modbus RTUYes• Modbus RTUYes• Modbus TCPYes• PROFIBUSYes <b>. CSA ratings. Siemens type: 3VA5225, max. 250 A; lq = 10 kA</b> • of circuit breaker- usable for Standard Faults at 460/480 V according to UL- usable for High Faults at 460/480 V according to ULSiemens type: 3VA5225, max. 250 A; lq = 10 kA• of the fuse- usable for Standard Faults up to 575/600 V- usable for Standard Faults up to 575/600 VType: Class RK5 / K5, max. 400 A; lq = 10 kA• of the fuse- usable for High Faults up to 575/600 V- usable for Jing Faults up to 575/600 VType: Class RK5 / K5, max. 400 A; lq = 10 kA• of the fuse- usable for Standard Faults up to 575/600 V- usable for Standard Faults up to 575/600 VType: Class RK5 / K5, max. 400 A; lq = 10 kA• of the fuse- usable for Jing Faults up to 575/600 V- usable for Jing Faults up to 575/600 VType: Class J, max. 350 A; lq = 100 kA• at 220/230 V at 50 °C rated value50 hp• at 220/230 V at 50 °C rated value50 hp• at 480/480 V at 50 °C rated value100 hpElectrical SafetyIPO0; IP20 with coverrotoction class IP on the front according to IEC 60529IPO0; IP20 with coverrotoction on the front according to IEC 61508 relatingSIL1• ATEXPHD with high demand rate according to IEC 61508 relating• PHD with high demand rate according to IEC 615089E-6 1/h  | <ul> <li>PROFINET standard Yes</li> <li>EtherNet/IP Yes</li> <li>Modbus RTU Yes</li> <li>Modbus TCP Yes</li> <li>PROFIBUS Yes</li> <li>PROFIBUS Yes</li> <li>CCSA ratings</li> <li>- usable for Standard Faults at 460/480 V according to UL - usable for High Faults at 460/480 V according to UL - usable for Standard Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for Standard Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to UL - usable for High Faults up to 575/600 V according to IEC 60529</li> <li>Poto; IP20 with c finger-safe, for vertex to the front according to IEC 61508 relating to ATEX</li> <li>PFHD with high demand rate according to IEC 61508</li> <li>PFHD with low demand rate according to IEC</li></ul>  |  |  |  |
| EtherNet/IPYesModbus RTUYesModbus TCPYesPROFIBUSYesJCSA ratingsJCSA ratings- usable for Standard Faults at 460/480 V according to ULSiemens type: 3VA5225, max. 250 A; Iq = 10 kA- usable for Standard Faults at 460/480 V according to ULSiemens type: 3VA522, max. 250 A; Iq = 10 kA- usable for Standard Faults at 460/480 V according to ULSiemens type: 3VA52, max. 250 A; Iq = 10 kA- usable for Standard Faults up to 575/600 VSiemens type: 3VA52, max. 250 A; Iq = 10 kA- usable for Standard Faults up to 575/600 VType: Class RK5 / K5, max. 400 A; Iq = 10 kA- usable for Standard Faults up to 575/600 VType: Class RK5 / K5, max. 400 A; Iq = 10 kA- usable for Standard Faults up to 575/600 VType: Class RK5 / K5, max. 400 A; Iq = 10 kA- usable for Standard Faults up to 575/600 VType: Class J, max. 350 A; Iq = 100 kA- usable for Standard Faults up to 575/600 VSi Pho- usable for Standard Faults up to 575/600 VSi Pho- usable for Standard Faults up to 575/600 VType: Class RK5 / K5, max. 400 A; Iq = 10 kA- usable for High Faults up to 575/600 VSi Pho- usable for Standard Faults up to 575/600 VSi Pho- usable for Standard Faults up to 575/600 VSi Pho- usable for High Faults up to 575/600 VSi Pho- usable for Standard Faults up to 575/600 VSi Pho- usable for High Faults up to 575/600 VSi Pho- usable for High Faults up to 575/600 VSi Pho- usable for High Faults up to 575/600 VSi Pho- u   | • EtherNet/IPYes• Modbus RTUYes• Modbus TCPYes• PROFIBUSYes• PROFIBUSYes/CSA ratings///////////////////////////////   |  |  |  |
| Modbus RTU     Yes Modbus TCP     Yes  | <ul> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> <li>Yes</li> <li>PROFIBUS</li> <li>Yes</li> <li>Yes</li> <li>CSA ratings</li> <li>CCSA ratings</li> <li>CCSA ratings</li> <li>CCSA ratiogs</li> <li>Siemens type: 3V</li> <li>of circuit breaker</li> <li>— usable for Standard Faults at 460/480 V according to UL</li> <li>— usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li> <li>— usable for Standard Faults up to 575/600 V</li> <li>according to UL</li> <li>— usable for High Faults up to 575/600 V according to UL</li> <li>— usable for High Faults up to 575/600 V according to UL</li> <li>— usable for Argen Paults up to 575/600 V according to UL</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for High Faults up to 575/600 V according to UL</li> <li>— usable for Argen Paults up to 575/600 V according to UL</li> <li>— usable for Standard Faults up to 575/600 V according to UL</li> <li>— usable for High Faults up to 575/600 V according to Type: Class J, matched UL</li> <li>— usable for Argen Paults up to 575/600 V according to Type: Class J, matched UL</li> <li>— usable for Argen Paults up to 575/600 V according to Type: Class J, matched UL</li> <li>— usable for Argen Paults up to 575/600 V according to Type: Class J, matched UL</li> <li>— usable for Argen Paults up to 575/600 V according to Type: Class J, matched UL</li> <li>— usable for Argen Paults up to 575/600 V according to Type: Class J, matched UL</li> <li>— usable for Crated value</li> <li>50 hp</li> <li>• at 260/208 V at 50 °C rated value</li> <li>00 hp</li> <li>Electrical Safety</li> <li>— order Argen Paults at 460/480 V at 50 °C rated value</li> <li>00 hp</li> <li>Electrical Safety Integrity Level (SIL) according to IEC 60529</li> <li>FPHD with high dem</li></ul>  |  |  |  |
| • Modbus TCPYes• PROFIBUSYesJCSA ratingsmanufacturer's article number• of circuit breaker usable for Standard Faults at 460/480 V according to ULSiemens type: 3VA5225, max. 250 A; lq = 10 kA- usable for High Faults at 460/480 V according to ULSiemens type: 3VA522, max. 250 A; lq = 10 kA• of the fuse usable for Standard Faults up to 575/600 VSiemens type: 3VA52, max. 250 A; lq max = 65 kA• of the fuse usable for High Faults up to 575/600 V according to ULType: Class RK5 / K5, max. 400 A; lq = 10 kA• at 200/208 V at 50 °C rated value50 hp• at 220/230 V at 50 °C rated value50 hp• at 220/230 V at 50 °C rated value100 hpElectrical SafetyInger-safe, for vertical contact from the front according to IEC 60529rotection class IP on the front according to IEC 60529Inger-safe, for vertical contact from the front with covercouch protection on the front according to IEC 60529SIL1PHD with high demand rate according to IEC 61508SIL1PHD with high demand rate according to IEC 61508SIL1   | Modbus TCP     PROFIBUS     Yes   |  |  |  |
| • PROFIBUSYesJCSA ratingsanalfacturer's article number• of circuit breaker   | • PROFIBUS       Yes         /CSA ratings         nanufacturer's article number         • of circuit breaker       Siemens type: 3V         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3V         - usable for High Faults at 460/480 V according to UL       Siemens type: 3V         • of the fuse       Type: Class RK5         - usable for Standard Faults up to 575/600 V according to UL       Type: Class RK5         - usable for High Faults up to 575/600 V according to UL       Type: Class J, ma         - usable for High Faults up to 575/600 V according to UL       Type: Class J, ma         - usable for High Faults up to 575/600 V according to UL       Type: Class J, ma         - usable for High Faults up to 575/600 V according to UL       Type: Class J, ma         - usable for High Faults up to 575/600 V according to UL       Type: Class J, ma         - usable for High Faults up to 575/600 V according to ID       Type: Class J, ma         • at 200/208 V at 50 °C rated value       50 hp         • at 460/480 V at 50 °C rated value       100 hp         Electrical Safety       IPO0; IP20 with c         ouch protection on the front according to IEC 60529       IPO0; IP20 with c         ouch protection on the front according to IEC 61508 relating       SIL1         o ATEX       9E-6 1/h <td></td>   |  |  |  |
| //CSA ratings         manufacturer's article number         • of circuit breaker         — usable for Standard Faults at 460/480 V according to UL         — usable for High Faults at 460/480 V according to UL         • of the fuse         — usable for Standard Faults up to 575/600 V         — usable for Standard Faults up to 575/600 V         — usable for High Faults up to 575/600 V         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for Attawate         • at 200/208 V at 50 °C rated value         • at 200/208 V at 50 °C rated value         • at 460/480 V at 50 °C rated value         • at 460/480 V at 50 °C rated value         • at 460/480 V at 50 °C rated value         • at 460/480 V at 50 °C rated value         • at 460/480 V at 50 °C rated value         • at 460/480 V at 50 °C rated value         • at 460/480 V at 50 °C rated value         • at 460/480 V at 50 °C rated value   | /CSA ratings         manufacturer's article number         • of circuit breaker         — usable for Standard Faults at 460/480 V according to UL         — usable for High Faults at 460/480 V according to UL         — usable for Standard Faults up to 575/600 V         according to UL         — usable for Standard Faults up to 575/600 V         according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to UL         — usable for High Faults up to 575/600 V according to Type: Class J, ma         UL       — usable for Attex         operating power [hp] for 3-phase motors         • at 200/208 V at 50 °C rated value       50 hp         • at 220/230 V at 50 °C rated value       100 hp         Electrical Safety       IP00; IP20 with c         orotection class IP on the front according to IEC 60529       IP00; IP20 with c         ouch protection on the front according to IEC 61508 relating to ATEX       Sil 1         PFHD wit   |  |  |  |
| manufacturer's article number       • of circuit breaker         - usable for Standard Faults at 460/480 V according to UL       Siemens type: 3VA5225, max. 250 A; lq = 10 kA         - usable for High Faults at 460/480 V according to UL       Siemens type: 3VA52, max. 250 A; lq max = 65 kA         • of the fuse       - usable for Standard Faults up to 575/600 V according to UL         - usable for High Faults up to 575/600 V according to UL       Type: Class RK5 / K5, max. 400 A; lq = 10 kA         - usable for High Faults up to 575/600 V according to UL       Type: Class J, max. 350 A; lq = 100 kA         - usable for High Faults up to 575/600 V according to UL       Type: Class J, max. 350 A; lq = 100 kA         - usable for High Faults up to 575/600 V according to UL       Type: Class J, max. 350 A; lq = 100 kA         • at 200/208 V at 50 °C rated value       50 hp         • at 420/230 V at 50 °C rated value       50 hp         • at 460/480 V at 50 °C rated value       100 hp         Electrical Safety       IPO0; IP20 with cover         ouch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front with cover         Example three type to the forst according to IEC 61508 relating of ATEX       SIL1  | nanufacturer's article number       • of circuit breaker         — usable for Standard Faults at 460/480 V according to UL       Siemens type: 3V         — usable for High Faults at 460/480 V according to UL       Siemens type: 3V         • of the fuse       — usable for Standard Faults up to 575/600 V       Type: Class RK5         — usable for High Faults up to 575/600 V according to UL       Type: Class J, ma         — usable for High Faults up to 575/600 V according to UL       Type: Class J, ma         — usable for High Faults up to 575/600 V according to UL       Type: Class J, ma         — usable for High Faults up to 575/600 V according to UL       Type: Class J, ma         — usable for High Faults up to 575/600 V according to UL       Type: Class J, ma         — usable for High Faults up to 575/600 V according to UL       Type: Class J, ma         — usable for High Faults up to 575/600 V according to Type: Class J, ma       Type: Class J, ma         Deperating power [hp] for 3-phase motors       •         • at 200/208 V at 50 °C rated value       50 hp         • at 460/480 V at 50 °C rated value       100 hp         Electrical Safety       IP00; IP20 with c         orotection class IP on the front according to IEC 60529       IP00; IP20 with c         ouch protection on the front according to IEC 61508 relating o ATEX       SiL1         PFHD with high demand rate according to IEC  |  |  |  |
| • of circuit breakerSiemens type: 3VA5225, max. 250 A; Iq = 10 kA usable for Standard Faults at 460/480 V according to ULSiemens type: 3VA522, max. 250 A; Iq = 10 kA usable for High Faults at 460/480 V according to ULSiemens type: 3VA52, max. 250 A; Iq max = 65 kA• of the fuseType: Class RK5 / K5, max. 400 A; Iq = 10 kA usable for Standard Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according to IEC 60529Type: Class J, max. 350 A; Iq = 100 kA etat 460/480 V at 50 °C rated value50 hp at 460/480 V at 50 °C rated value100 hp etat 460/480 V at 50 °C rated value1P00; IP20 with cover oucch protection on the front according to IEC 60529IP00; IP20 with cover oucch protection on the front according to IEC 61508 relating of ATEXSIL1 etat ACC   | of circuit breaker <ul> <li>usable for Standard Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>usable for High Faults at 460/480 V according to UL</li> <li>of the fuse</li></ul>  |  |  |  |
| • of circuit breakerSiemens type: 3VA5225, max. 250 A; Iq = 10 kA usable for Standard Faults at 460/480 V according to ULSiemens type: 3VA522, max. 250 A; Iq = 10 kA usable for High Faults at 460/480 V according to ULSiemens type: 3VA52, max. 250 A; Iq max = 65 kA• of the fuseType: Class RK5 / K5, max. 400 A; Iq = 10 kA usable for Standard Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according toType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according to 100 hp50 hp at 200/208 V at 50 °C rated value50 hp at 460/480 V at 50 °C rated value100 hp etterical SafetyIP00; IP20 with cover outch protection on the front according to IEC 60529IP00; IP20 with cover outch protection on the front according to IEC 61508 relating of ATEXSIL1 Etterical Safety  | • of circuit breaker         Siemens type: 3V           usable for Standard Faults at 460/480 V according to UL         Siemens type: 3V           usable for High Faults at 460/480 V according to UL         Siemens type: 3V           • of the fuse   |  |  |  |
| usable for Standard Faults at 460/480 V according<br>to UL.Siemens type: 3VA5225, max. 250 A; Iq = 10 kA usable for High Faults at 460/480 V according to ULSiemens type: 3VA52, max. 250 A; Iq max = 65 kA outsable for Standard Faults up to 575/600 V<br>according to UL.Type: Class RK5 / K5, max. 400 A; Iq = 10 kA usable for High Faults up to 575/600 V according to<br>ULType: Class J, max. 350 A; Iq = 10 kA usable for High Faults up to 575/600 V according to<br>ULType: Class J, max. 350 A; Iq = 10 kA usable for High Faults up to 575/600 V according to<br>ULType: Class J, max. 350 A; Iq = 10 kA usable for High Faults up to 575/600 V according to<br>ULType: Class J, max. 350 A; Iq = 10 kA usable for High Faults up to 575/600 V according to<br>ULType: Class J, max. 350 A; Iq = 10 kA usable for High Faults up to 575/600 V according to<br>ULType: Class J, max. 350 A; Iq = 10 kA usable for High Faults up to 575/600 V according to<br>ULType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 575/600 V according to 10 AType: Class J, max. 350 A; Iq = 100 kA usable for High Faults up to 50°C rated value50 hp• at 200/208 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value100 hp• at 460/480 V at 50 °C rated value100 hp• at 460/480 V at 50 °C rated value100 hp• at 460/480 V at 50 °C rated value100 hp• at 460/480 V at 50 °C rated value100 hp• at 460/480 V at 50 °C rated value100 hp• at 460/480 V at 50 °C rated value100 hp• at  | usable for Standard Faults at 460/480 V according<br>to ULSiemens type: 3V usable for High Faults at 460/480 V according to ULSiemens type: 3V• of the fuse usable for Standard Faults up to 575/600 V<br>according to ULType: Class RK5 usable for High Faults up to 575/600 V according to<br>ULType: Class J, ma usable for High Faults up to 575/600 V according to<br>ULType: Class J, ma usable for High Faults up to 575/600 V according to<br>ULType: Class J, ma usable for High Faults up to 575/600 V according to<br>ULType: Class J, ma usable for High Faults up to 575/600 V according to<br>ULType: Class J, ma usable for High Faults up to 575/600 V according to<br>ULType: Class J, ma usable for High Faults up to 575/600 V according to<br>UL50 hp usable for High Faults up to 575/600 V according to<br>UL50 hp usable for High Faults up to 575/600 V according to IEC 60529IP00; IP20 with c usable for High Faults up to 575/600 V according to IEC 60529IP00; IP20 with c usable for High Font according to IEC 61508 relating<br>to ATEXSIL 1 usable for High Font according to IEC 615089E-6 1/h usable for High for ATEX  |  |  |  |
| usable for High Faults at 460/480 V according to UL.Siemens type: 3VA52, max. 250 A; lq max = 65 kA• of the fuseType: Class RK5 / K5, max. 400 A; lq = 10 kA usable for High Faults up to 575/600 V according to<br>ULType: Class J, max. 350 A; lq = 100 kA usable for High Faults up to 575/600 V according to<br>ULType: Class J, max. 350 A; lq = 100 kAoperating power [hp] for 3-phase motors50 hp• at 200/208 V at 50 °C rated value50 hp• at 220/230 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value100 hpElectrical SafetyIP00; IP20 with coverorotection class IP on the front according to IEC 60529finger-safe, for vertical contact from the front with coverrexSafety Integrity Level (SIL) according to IEC 61508 relating<br>to ATEXSIL1PFHD with high demand rate according to IEC 615089E-6 1/h   | — usable for High Faults at 460/480 V according to ULSiemens type: 3V• of the fuse—— usable for Standard Faults up to 575/600 V<br>according to ULType: Class RK5— usable for High Faults up to 575/600 V according to<br>ULType: Class J, maoperating power [hp] for 3-phase motors<br>• at 200/208 V at 50 °C rated value50 hp• at 220/230 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value100 hp• electrical Safety—• protection class IP on the front according to IEC 60529IP00; IP20 with c• oATEXSIL1• PFHD with high demand rate according to IEC 61508<br>relating to ATEXSIL1• PFDavg with low demand rate according to IEC 61508<br>relating to ATEX0.09   | A52, max. 250 A; lg max = 65 kA  |  |  |
| • of the fuse         Type: Class RK5 / K5, max. 400 A; Iq = 10 kA   | • of the fuse         — usable for Standard Faults up to 575/600 V         Type: Class RK5           — usable for High Faults up to 575/600 V according to         Type: Class J, ma           — usable for High Faults up to 575/600 V according to         Type: Class J, ma           Operating power [hp] for 3-phase motors         • at 200/208 V at 50 °C rated value         50 hp           • at 220/230 V at 50 °C rated value         50 hp         50 hp           • at 460/480 V at 50 °C rated value         100 hp         Electrical Safety           porotection class IP on the front according to IEC 60529         IP00; IP20 with content of finger-safe, for vertice to an the front according to IEC 61508           Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX         SIL1           PFHD with high demand rate according to IEC 61508         9E-6 1/h           PFDavg with low demand rate according to IEC 61508         0.09  |  |  |  |
| according to UL       — usable for High Faults up to 575/600 V according to UL       Type: Class J, max. 350 A; lq = 100 kA         operating power [hp] for 3-phase motors       —         • at 200/208 V at 50 °C rated value       50 hp         • at 220/230 V at 50 °C rated value       50 hp         • at 460/480 V at 50 °C rated value       100 hp         Electrical Safety       —         protection class IP on the front according to IEC 60529       IP00; IP20 with cover         finger-safe, for vertical contact from the front with cover       Type: Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX         PFHD with high demand rate according to IEC 61508       SIL1   | according to ULType: Class J, ma— usable for High Faults up to 575/600 V according to<br>ULType: Class J, maoperating power [hp] for 3-phase motors50 hp• at 200/208 V at 50 °C rated value50 hp• at 220/230 V at 50 °C rated value50 hp• at 460/480 V at 50 °C rated value100 hpElectrical SafetyIP00; IP20 with cprotection class IP on the front according to IEC 60529IP00; IP20 with ctouch protection on the front according to IEC 61508SIL1Safety Integrity Level (SIL) according to IEC 61508 relating<br>to ATEXPFHD with high demand rate according to IEC 61508<br>PFDavg with low demand rate according to IEC 61508<br>relating to ATEX   |  |  |  |
| UL     Image: Section of the front according to IEC 60529     50 hp       etat     100 hp  | UL       UL         operating power [hp] for 3-phase motors       50 hp         • at 200/208 V at 50 °C rated value       50 hp         • at 220/230 V at 50 °C rated value       50 hp         • at 460/480 V at 50 °C rated value       100 hp         Electrical Safety       100 hp         protection class IP on the front according to IEC 60529       IP00; IP20 with c         touch protection on the front according to IEC 60529       finger-safe, for veret         TEX       Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX       SIL1         PFHD with high demand rate according to IEC 61508       9E-6 1/h         relating to ATEX       0.09  |  |  |  |
| <ul> <li>at 200/208 V at 50 °C rated value</li> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>100 hp</li> </ul> Electrical Safety protection class IP on the front according to IEC 60529 IP00; IP20 with cover touch protection on the front according to IEC 60529 finger-safe, for vertical contact from the front with cover TEX Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX PFHD with high demand rate according to IEC 61508 9E-6 1/h  | • at 200/208 V at 50 °C rated value         50 hp           • at 220/230 V at 50 °C rated value         50 hp           • at 460/480 V at 50 °C rated value         100 hp           • at 460/480 V at 50 °C rated value         100 hp           Electrical Safety         100 hp           protection class IP on the front according to IEC 60529         IP00; IP20 with c           touch protection on the front according to IEC 60529         finger-safe, for vertex           Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX         SIL1           PFHD with high demand rate according to IEC 61508         9E-6 1/h           PFDavg with low demand rate according to IEC 61508         0.09  | ıx. 350 A; lq = 100 kA   |  |  |
| • at 220/230 V at 50 °C rated value       50 hp         • at 460/480 V at 50 °C rated value       100 hp         Electrical Safety       100 hp         protection class IP on the front according to IEC 60529       IP00; IP20 with cover         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front with cover         TEX       Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX       SIL1   | • at 220/230 V at 50 °C rated value       50 hp         • at 460/480 V at 50 °C rated value       100 hp         Electrical Safety       100 hp         protection class IP on the front according to IEC 60529       IP00; IP20 with control finger-safe, for vertice touch protection on the front according to IEC 60529         Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX       SIL1         PFHD with high demand rate according to IEC 61508       9E-6 1/h         PFDavg with low demand rate according to IEC 61508       0.09  |  |  |  |
| • at 460/480 V at 50 °C rated value       100 hp         Electrical Safety       100 hp         protection class IP on the front according to IEC 60529       IP00; IP20 with cover         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front with cover         TEX       Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX       SIL1         PFHD with high demand rate according to IEC 61508       9E-6 1/h  | • at 460/480 V at 50 °C rated value         100 hp           Electrical Safety         IP00; IP20 with control class IP on the front according to IEC 60529         IP00; IP20 with control class IP on the front according to IEC 60529           touch protection on the front according to IEC 60529         finger-safe, for vertex of the front according to IEC 61508 relating to ATEX           Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX         SIL1           PFHD with high demand rate according to IEC 61508         9E-6 1/h           PFDavg with low demand rate according to IEC 61508         0.09   |  |  |  |
| Electrical Safety       IP00; IP20 with cover         protection class IP on the front according to IEC 60529       IP00; IP20 with cover         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front with cover         TEX       Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX       SIL1         PFHD with high demand rate according to IEC 61508       9E-6 1/h  | Electrical Safety       IP00; IP20 with cr         protection class IP on the front according to IEC 60529       IP00; IP20 with cr         touch protection on the front according to IEC 60529       finger-safe, for ver         TEX       Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX       SIL1         PFHD with high demand rate according to IEC 61508       9E-6 1/h         PFDavg with low demand rate according to IEC 61508       0.09  | 50 hp  |  |  |
| protection class IP on the front according to IEC 60529       IP00; IP20 with cover         touch protection on the front according to IEC 60529       finger-safe, for vertical contact from the front with cover         TEX       Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX       SIL1         PFHD with high demand rate according to IEC 61508       9E-6 1/h  | protection class IP on the front according to IEC 60529IP00; IP20 with control touch protection on the front according to IEC 60529touch protection on the front according to IEC 60529finger-safe, for vertical finger-safe, for   |  |  |  |
| Tex       Finger-safe, for vertical contact from the front with cover         Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX       SIL1         PFHD with high demand rate according to IEC 61508       9E-6 1/h   | Tex       Tinger-safe, for vertication on the front according to IEC 60529       finger-safe, for vertication on the front according to IEC 61508 relating         Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX       SIL1         PFHD with high demand rate according to IEC 61508       9E-6 1/h         PFDavg with low demand rate according to IEC 61508       0.09         relating to ATEX       0.09   |  |  |  |
| TEX         Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX         PFHD with high demand rate according to IEC 61508 relating to ATEX         9E-6 1/h   | TEX         Safety Integrity Level (SIL) according to IEC 61508 relating to ATEX       SIL1         PFHD with high demand rate according to IEC 61508       9E-6 1/h         PFDavg with low demand rate according to IEC 61508       0.09         relating to ATEX       0.09  | over   |  |  |
| Safety Integrity Level (SIL) according to IEC 61508 relating       SIL1         to ATEX       9E-6 1/h         relating to ATEX       9E-6 1/h   | Safety Integrity Level (SIL) according to IEC 61508 relating<br>to ATEXSIL1PFHD with high demand rate according to IEC 61508<br>relating to ATEX9E-6 1/hPFDavg with low demand rate according to IEC 61508<br>relating to ATEX0.09  | finger-safe, for vertical contact from the front with cover  |  |  |
| to ATEX PFHD with high demand rate according to IEC 61508 9E-6 1/h relating to ATEX  | to ATEX       9E-6 1/h         PFHD with high demand rate according to IEC 61508       9E-6 1/h         relating to ATEX       0.09         relating to ATEX       0.09   |  |  |  |
| relating to ATEX   | relating to ATEX       0.09         PFDavg with low demand rate according to IEC 61508       0.09         relating to ATEX       0.09   |  |  |  |
| PFDavg with low demand rate according to IEC 61508 0.09  | relating to ATEX  |  |  |  |
| relating to ATEX   | hardware fault tolerance according to IEC 61508 relating to 0   |  |  |  |
| hardware fault tolerance according to IEC 61508 relating to 0<br>ATEX  |   |  |  |  |
| T1 value for proof test interval or service life according to 3 a IEC 61508 relating to ATEX   | IEC 61508 relating to ATEX  |  |  |  |
| certificate of suitability   | -   |  |  |  |
|  | • ATEX Yes  |  |  |  |
|  | • IECEx Yes   |  |  |  |
| • IECEx Yes  | • UKEX Yes  |  |  |  |
| ECEx     Yes     UKEX     Yes  | pprovals Certificates   |  |  |  |
| • ATEY Ves   | • IECEx Yes   |  |  |  |
|  |   |  |  |  |
| • ATEX Yes   | • IECEx Yes   |  |  |  |
| • IECEx Yes  |   |  |  |  |
| ECEx     Yes     UKEX     Yes  | pprovals Certificates   |  |  |  |

| EHC  | <u>KC</u>   | IECEx                | ATEX ATEX                                 | <u>Miscellaneous</u> | <u>Type Test Certific-</u><br>ates/Test Report |
|--|---|----------------------|---|----------------------|--|
| Marine / Shipping  |   |                      | other                                     | Environment          |  |
| ABS  | Llovds<br>Register<br>us  | PRS                  | <u>Confirmation</u>                       | Siemens<br>EcoTech   | EPD  |
| Environment  |   |                      |   |                      |  |
|  |   |                      |   |                      |  |
| Further information<br>Information on the pac  | kaging  |                      |   |                      |  |
| https://support.industry.s<br>Information- and Down<br>https://www.siemens.cor<br>Industry Mall (Online o<br>https://mall.industry.siem                  | <u>iemens.com/cs/ww/en/vie</u><br>loadcenter (Catalogs, E<br><u>n/ic10</u><br>rdering system) | Brochures,)          | V5056-6AB14                               |                      |  |
| Cax online generator   |   |                      | g=en&mlfb=3RW5056-6A                      | B14                  |  |
| Service&Support.industry.s   | uals, Certificates, Chara   | acteristics, FAQs,)  |   |                      |  |
|  | ct images, 2D dimensio  | on drawings, 3D mode | els, device circuit diagra<br>6-6AB14⟨=en | ams, EPLAN macros,)  |  |
| Characteristic: Tripping   | g characteristics, I <sup>2</sup> t, Le   | t-through current    | •   |                      |  |
| Characteristic: Installation altitude<br>http://www.automation.sjemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5056-6AB14&objecttype=14&gridview=view1 |   |                      |   |                      |  |
| Simulation Tool for Soft Starters (STS)<br>https://support.industry.siemens.com/cs/ww/en/view/101494917  |   |                      |   |                      |  |







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