## SIEMENS

## Data sheet

## 3RW5213-1AC04



SIRIUS soft starter 200-480 V 13 A, 24 V AC/DC Screw terminals Analog output

product brand name	SIRIUS				
product category	Hybrid switching devices				
product designation	Soft starter				
product type designation	3RW52				
manufacturer's article number					
<ul> <li>of standard HMI module usable</li> </ul>	<u>3RW5980-0HS00</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>	<u>3RV2032-4TA10; Type of coordination 1, Iq = 65 kA, CLASS 10</u>				
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	<u>3RV2032-4TA10; Type of coordination 1, Iq = 18 kA, CLASS 10</u>				
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	<u>3RV2032-4DA10; Type of coordination 1, Iq = 65 kA, CLASS 10</u>				
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	<u>3RV2032-4DA10; Type of coordination 1, Iq = 18 kA, CLASS 10</u>				
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	<u>3NA3820-6; Type of coordination 1, Iq = 65 kA</u>				
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	<u>3NA3820-6: Type of coordination 1, Iq = 65 kA</u>				
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1815-0: Type of coordination 2, Iq = 65 kA</u>				
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE8017-1; Type of coordination 2, Iq = 65 kA</u>				
General technical data					
starting voltage [%]	30 100 %				
stopping voltage [%]	50 %; non-adjustable				
start-up ramp time of soft starter	0 20 s				
current limiting value [%] adjustable	130 700 %				
certificate of suitability					
CE marking	Yes				
UL approval	Yes				
<ul> <li>CSA approval</li> </ul>	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	3				
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2				
buffering time in the event of power failure					

In or main current circuit     In or main current circuit     In control circuit     Insulation voltage rated value     Gener of public     Subscript voltage rester value     Subscript voltage     Subscript voltage rester value     Subscript voltage		100				
Installow value rated value         BOV           degree of politobion         3. acc. Lo E 5097.4-2           impute voltage relation value         BV           envice factor         1500 V           envice factor         BV           envice factor         1500 V           envice factor         150 V           envice factor         Value factor	• for main current circuit	100 ms				
degree of polition         3. acc. to EC 80947-4-2           blocking voltage of the thyristor maximum         6. KV           surge voltage or relation cated value         6. KV           aurge voltage or relation cated value         6. KV           station cated value         6. KV           station cated value         6. KV           voltage or relation value value         7. S3. Station value           aurge voltage or relation value         7. S3. Station value           aurge voltage relation value         7. S3. Station value           aurge value value value         7. S3. Station value           aurge value value value         7. S3. Station value           aurge value value         7. S3. Station value           aurge value value value         7. S5. Value value <td< td=""><td></td><td></td></td<>						
Impute voltage rated value6 kVblocking voltage of the thyritor maximum100 Vservice factor10 Vmaximum permissible voltage for safe location6 Vmaximum permissible voltage for safe location15 gr / 11 ms, from 12 gr / 11 ms with potential contact litingwhore we main and auxillary drout!15 gr / 11 ms, from 12 gr / 11 ms with potential contact litingwhore we stance15 gr / 11 ms, from 12 gr / 11 ms with potential contact litingwhore we stance15 gr / 11 ms, from 12 gr / 11 ms with potential contact litingwhore we stance15 gr / 11 ms, from 12 gr / 11 ms with potential contact litingwhore we stance16 gr / 11 ms, from 12 gr / 11 ms with potential contact litingwhore we stance15 gr / 11 ms, from 12 gr / 11 ms with potential contact litingwhore we stance16 gr / 11 ms, from 12 gr / 11 ms with potential contact litingwhore may be we stance16 gr / 11 ms, from 12 gr / 11 ms with potential contact litingwhore may be we stance16 gr / 11 ms, from 12 gr / 11 ms with potential contact litingwhore may be we stance19 gr / 11 ms with potential contact litingwhore may be we stance19 gr / 11 ms with potential contact litingwhore may be we stance19 gr / 11 ms / 12 gr / 11 ms with potential contact litingwhore may be we stance19 gr / 11 ms / 12 gr / 11 ms / 11 gr / 11 ms / 12 gr / 1	-	600 V				
blocking voltage of the thyristor maximum         1 600 V           service factor         1           surge voltage resistance rated value         8 kV           maximum generalisable voltage for safe laoidion         600 V           - babween main and auxiliary circuit         500 V           - babween main and auxiliary circuit         500 V           - babween main and auxiliary circuit         600 V           - famp-up (aott safinity)         Ves           - famp-up (aott safinity)         Yes           - ramp-down (soft stop)         Yes           - adjustable current limitston         Yes           - indirad-deta circuit         Yes           - worklaution of thermistor motor protection         Yes           - adjustable value display         Yes           - annual RESET         Yes           - annual RESET         Yes           - annual RESET         Yes           - annual RESET         Yes	degree of pollution	3, acc. to IEC 60947-4-2				
service factor instance rade value is belower instance instance rade value is belower instance instance valuation realistance is belower instance valuation realistance is a factor of the factor is belower instance valuation realistance is factor in 12 a / 11 ms with potential contact lifting value is belower instance value is belower instance value is belower in 12 a / 11 ms with potential contact lifting value is belower is	impulse voltage rated value	6 kV				
supportance resistance rated value meaning and auxiliary circuit         6 kV           shock resistance         15 g / 11 ms, from 12 g / 11 ms with potential contact lifting           vibration resistance         15 g / 11 ms, from 12 g / 11 ms with potential contact lifting           vibration resistance         00 V           shock resistance         00 V           vibration resistance         00 V           status control         00 V           Substance Prohibitance (Date)         02/t5/2018           product function         Yes           * ram-pup (soft stating)         Yes           * ram-pup (soft stating)         Yes           * ram-pup (soft stating)         Yes           * adjustable current limitation         Yes           * andor overload protection         Yes           * andor overload protection <td< td=""><td>blocking voltage of the thyristor maximum</td><td colspan="4">1 600 V</td></td<>	blocking voltage of the thyristor maximum	1 600 V				
maxmain and auxiliary circuit600 Vshock resistance15 g/ 11 ms, fom 12 g/ 11 ms with potential contact liftingvibration resistance15 mm to 8 Hz; 2g to 500 Hzultization category according to IEC 61947-4-24C Saareference code according to IEC 61947-4-20Substance Prohibitance (Edeo)02/15/2018product functionVes- ramp-down (soft stop)Yes- samp-down (soft stop)Yes- unit protectionYes- unit or outerload protectionYes- unit or outerload protectionYes- unit or outerload protectionYes- unit or outerload protectionYes- rama-down (soft stop)Yes- unit or outerload protectionYes- unit or outerload protectionYes- unit or outerload protectionYes- unit outerload protectionYes- unit outerload protectionYes- unit outerload protectionYes- outerling measured value displayYes- operating measured value displayYes- unit outerload protectionYes- via software configurableYes- via software configurableYes- via software parameterizableNo- via software parameterizableNo- via software configurableYes- endo cot park15 A <tr< td=""><td>service factor</td><td>1</td></tr<>	service factor	1				
• between main and audilary circuit         600 V           • shock resistance         15 fm 10 6 Hz; 2g to 600 Hz           • ulization restance         15 mm to 6 Hz; 2g to 600 Hz           • ulization category according to IEC 6047-4.2         0           • Substance Prohibitance (Date)         02/15/2018           • product function         Ves           • ramp-up (soft starting)         Yes           • ramp down (soft stop)         Yes           • adjustation entropy (soft starting)         Yes           • adjustation of themister motor protection         Yes           • infinitios (drive protection         Yes           • infinitios of themister motor protection         Yes           • evaluation of themister motor protection         Yes           • infinitios of themister motor protection         Yes           • indicate parameterizable         Yes           • adio-RESET         Yes           • adio accessories         Yes           • adio accessories         Yes           • adio accessories         Yes	surge voltage resistance rated value					
• between main and audilary circuit         600 V           • shock resistance         15 fm 10 6 Hz; 2g to 600 Hz           • ulization restance         15 mm to 6 Hz; 2g to 600 Hz           • ulization category according to IEC 6047-4.2         0           • Substance Prohibitance (Date)         02/15/2018           • product function         Ves           • ramp-up (soft starting)         Yes           • ramp down (soft stop)         Yes           • adjustation entropy (soft starting)         Yes           • adjustation of themister motor protection         Yes           • infinitios (drive protection         Yes           • infinitios of themister motor protection         Yes           • evaluation of themister motor protection         Yes           • infinitios of themister motor protection         Yes           • indicate parameterizable         Yes           • adio-RESET         Yes           • adio accessories         Yes           • adio accessories         Yes           • adio accessories         Yes	maximum permissible voltage for safe isolation					
where in the set of t	<ul> <li>between main and auxiliary circuit</li> </ul>	600 V				
where the set of the	•					
utilization category according to IEC 6097-42.         AC 53a           reference code according to IEC 609136-2.         Q           Substance Prohibitance (bate)         02/15/2018           product function         Yes           • ramp-down (soft stop)         Yes           • adjustable current limitation         Yes           • adjustable current limitation         Yes           • adjustable current limitation         Yes           • initivities device protection         Yes           • initivities device protection         Yes           • auto-RESET         Yes           • auto-RESET         Yes           • auto-RESET         Yes           • remote reset         Yes; Dity lunning off the control supply voltage           • communication function         Yes; Dity lunning off the control supply voltage           • auto-RESET         Yes; Only in conjunction with special accessories           • aront roware parameterizable         No           • vis offware parametrizable         No           • vis offware parametrizable         No           • vis offware parametrizable         No           • aront og uotut         Yes; A 20 mA (default) / 0 10 V (parameterizable with High Feature Holds           • aront og uotut         Yes	vibration resistance					
reference code according to IEC 8134-2:     Q       Substance Prohibitance (Date)     Q215/2018       product function     Q215/2018       • ramp-up (soft starting)     Yes       • ramp-down (soft stop)     Yes       • adjustable current limitation     Yes       • motor overload protection     No       • insidia-deta circuit     Yes       • andor RESET     Yes       • manual RESET     Yes: Only in conjunction with special accessories       • communication function     Yes: Only in conjunction with special accessories       • via software onfigurable     Yes       • via software onfigurable     Yes       • removable terminal for control circuit     Yes       • trait of crated value     13 A       • at 40 ° C rated value     13 A       • at 50 ° C rated value     13 A       • at 50 ° C rated value     13 A       • at 60 ° C rated value     10 %       • at 60 ° C rated value     10						
Substance Prohibitance (Date)         D2/15/2018           product function         Yes           • ramp-up (sefi starting)         Yes           • soft Torque         Yes           • soft Torque         Yes           • adjustable current limitation         Yes           • und product forque         Yes           • inditions device protection         Yes           • audo FRSET         Yes           • audo FRSET         Yes           • removel reset         Yes           • operating measured value display         Yes           • operating measured value display         Yes           • via software parameterizable         No           • via software parameterizable         Yes           • removable terminal for control circuit         Yes           • removable terminal for control circuit         Yes           • removable terminal for control circuit         Yes						
product function     Ves       • ramp-up (soft starting)     Yes       • ramp-up (soft starting)     Yes       • soft Torque     Yes       • adjustable current limitation     Yes       • adjustable current limitation     Yes       • intrinsic device protection     Yes       • intrinsic device protection     Yes       • intrinsic device protection     Yes       • inside-deta circuit     Yes       • adjustable current limitation     Yes       • inside-deta circuit     Yes       • andural RESET     Yes       • andural RESET     Yes       • communication function     Yes       • operating measured value display     Yes       • analog output     Yes       • via software parametrizable     No       • via software parametrizable     Yes       • torque control     Yes       • firmware update     Yes       • removable terminal for control circuit     Yes       • torque control     Yes       • analog output     Yes       • analog output     13 A       • at 80 °C rated value     13 A       • at 80 °C rated value     12 A       • at 80 °C rated value     12 A       • at 80 °C rated value     12 A       • at 80 °C rated value	_					
ramp-up (soft starting)Yes• ramp-down (soft stop)Yes• soft TorqueYes• adjustable current limitationYes• pump ramp downYes• intrinsic device protectionYes• indicident a circuitYes• evaluation of themistor motor protectionNo• inside-data circuitYes• adio-RESETYes• motor verefoad protectionYes• adio-RESETYes• monunication functionYes• monunication functionYes• communication functionYes• communication functionYes• communication functionYes• communication functionYes• communication functionYes• communication functionYes• via software parameterizableNo• via software configurableYes• via software configurableYes• transvergatsYes• torque control circuitYes• torque control for control circuitYes• torque control supplyYes• torque control supply13.A• at 40 °C rated value13.A• at 60 °C rated value10.S A <t< td=""><td></td><td></td></t<>						
• ramp-down (soft stop)       Yes         • Soft Torque       Yes         • adjustable current limitation       Yes         • adjustable current limitation       Yes         • inititiasic device protection       Yes         • motor overload protection       Yes         • motor overload protection       Yes         • adjustable current limitation of thermistor motor protection       No         • inidia-defa circuit       Yes         • andu-RESET       Yes         • manual RESET       Yes         • commonication function       Yes         • operating measured value display       Yes; Only in conjunction with special accessories         • error logbook       Yes; Only in conjunction with special accessories         • via software parameterizable       No         • via software parameterizable       No         • via software parameterizable       Yes         • via software parameterizable       Yes         • torque control       Yes         • analog output       Yes         • torque control       No         • analog output       Yes         • at 00 °C rated value       115 A         • at 60 °C rated value       122 A         operational current       1	•	Vos				
<ul> <li>Soft Torque</li> <li>Soft Torque</li> <li>Ves</li> <li>adjustable current limitation</li> <li>Yes</li> <li>intrinsic device protection</li> <li>Yes</li> <li>intrinsice device protection</li> <li>Yes</li> <li>Yes&lt;</li></ul>						
• adjustable current limitationYes• pump ramp downYes• initinisic device protectionYes• motor overload protectionNo• evaluation of thermistor motor protectionNo• initia-is device protectionNo• iniside-deta circuitYes• anal RESETYes• nanual RESETYes• remote resetYes• operating measured value displayYes; Only in conjunction with special accessories• or or logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software parameterizableNo• via software parameterizableYes; nonnection with the PROFINET Standard communication module• firmware updateYes; nonnection with the PROFINET Standard communication module• firmware updateYes; 1• removable terminal for control circuitYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)• analog output13 A• at 60 °C rated value15 A• at 60 °C rated value15 A• at 60 °C rated value20 480 V• at 60 °C rated value20 480 V• at 60 °C rated value20 480 V• at 60 °C rated value10 %• relative negative tolerance of the operating voltage at inside-defa circuit rated value20 480 V• at 60 °C rated value10 %• a						
• pump ramp down         Yes           • intrinsic device protection         Yes           • intrinsic device protection         Yes           • valuation of thermistor motor protection         No           • inside-defta circuit         Yes           • auto-RESET         Yes           • emotor overload protection         No           • inside-defta circuit         Yes           • manual RESET         Yes           • emotor eset         Yes           • operating measured value display         Yes           • operating measured value display         Yes           • via software parameterizable         No           • via software configurable         Yes           • removable terminal for control circuit         Yes           • torque control         No           • analog output         Yes           • analog output         Yes           • at 40 °C rated value         13 A           • at 60 °C rated value         13 A           • at 60 °C rated value         10 S A           • at 60 °C rated value         10 S A           • at 60 °C rated value         10 S A           • at 60 °C rated value         10 S A           • at 60 °C rated value         10 S A						
<ul> <li>Initial device protection</li> <li>Initial device protection</li> <li>Yes</li> <li>motor overload protection</li> <li>No</li> <li>value results on thermistic motor protection</li> <li>No</li> <li>Inside-delta circuit</li> <li>Yes</li> <li>auto-RESET</li> <li>Yes</li> <li>manual RESET</li> <li>Yes</li> <li>manual RESET</li> <li>Yes</li> <li>operating measured value display</li> <li>Yes; Only in conjunction with special accessories</li> <li>operating measured value display</li> <li>Yes; Only in conjunction with special accessories</li> <li>operating measured value display</li> <li>Yes; Only in conjunction with special accessories</li> <li>via software parameterizable</li> <li>No</li> <li>Yes connection with the PROFINET Standard communication module</li> <li>firmware update</li> <li>Yes, in connection with the PROFINET Standard communication module</li> <li>firmware update</li> <li>Yes, in connection with the PROFINET Standard communication module</li> <li>firmware update</li> <li>Yes, in connection with the PROFINET Standard communication module</li> <li>firmware update</li> <li>Yes, in connection with the PROFINET Standard communication module</li> <li>firmware update</li> <li>Yes, in 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> <li>Power Electronic</li> <li>Yes / Crated value</li> <li>at 40 °C rated value</li> <li>at 50 °C</li></ul>	-					
• notor overlaad protectionYes: Electronic motor overlaad protection• evaluation of thermistor motor protectionNo• inside-detta circuitYes• auto-RESETYes• namual RESETYes• remote resetYes; By turning off the control supply voltage• communication functionYes; Only in conjunction with special accessories• operating measured value displayYes; Only in conjunction with special accessories• via software parameterizableNo• via software parameterizableYes• Via software parameterizableYes• removable terminal for control circuitYes• removable terminal for control circuitYes• analog outputYes• analog outputYes• aid 0 °C rated value13 A• aid 0 °C rated value10.5 A• operating voltage10.5 A• operating voltage10.5 A• aid 0 °C rated value12.5 A• aid 0 °C rated value12.5 A• aid 0 °C rated value10.5 A• operating voltage10 %• relative negative tolerance of the operating voltage10 %• relative voltage// relative value200 480 V• ait sole-detta circuit15 %• relative positive tolerance of the operating voltage10 %• relative positive tolerance of the						
• evaluation of thermistor motor protection       No         • inside-detta circuit       Yes         • uto-RESET       Yes         • manual RESET       Yes         • momunication function       Yes         • perating measured value display       Yes; Only in conjunction with special accessories         • or ondoto       Yes; Only in conjunction with special accessories         • via software parameterizable       No         • via software configurable       Yes; In connection with the PROFINET Standard communication module         • irrmware update       Yes         • removable terminal for control circuit       Yes         • indigo output       Yes; 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)         • analog output       Yes; 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)         • or crated value       11.5 A         • at 60 °C rated value       10.5 A         • at 60 °C rated value       10.5 A         • at 60 °C rated value       12.2 A         • at 60 °C rated value       12.0 A         • at 60 °C rated value       12.0 A         • at 60 °C rated value       20.0 480 V         • at 60 °C rated value       10.5 A         • at 60 °C rated value       10.5 %         <	•					
<ul> <li>inside-delta circuit</li> <li>ves</li> <li>uto-RESET</li> <li>ves</li> <li>veror Lessert</li> <li>ves</li> <li>veror logbook</li> <li>ves: Dry turning off the control supply voltage</li> <li>communication function</li> <li>ves: Only in conjunction with special accessories</li> <li>via software parameterizable</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>ves: in connection with the PROFINET Standard communication module</li> <li>removable terminal for control circuit</li> <li>ves: in connection with the PROFINET Standard communication module</li> <li>removable terminal for control circuit</li> <li>ves: ves: ves: ves: ves: ves: ves: ves:</li></ul>						
auto-RESET Yes     inanual RESET Yes     inanual RESET Yes     inanual RESET Yes     inconcent of supply voltage     icommunication function Yes     iconcent of supply voltage     i						
<ul> <li>manual RESET</li> <li>Yes</li> <li>remote reset</li> <li>Yes, By turning off the control supply voltage</li> <li>communication function</li> <li>Yes, Only in conjunction with special accessories</li> <li>error logbook</li> <li>Yes, Only in conjunction with special accessories</li> <li>via software parameterizable</li> <li>No</li> <li>via software configurable</li> <li>Yes, Inonjunction with special accessories</li> <li>via software configurable</li> <li>Yes, Inonjunction with special accessories</li> <li>via software configurable</li> <li>Yes, In conjunction with special accessories</li> <li>via software configurable</li> <li>Yes, In conjunction with the PROFINET Standard communication module</li> <li>removable terminal for control circuit</li> <li>Yes</li> <li>encovable terminal for control circuit</li> <li>enalog output</li> <li>Yes, 420 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> <li>Power Electronics</li> </ul> Power Electronics portational current <ul> <li>at 40 °C rated value</li> <li>at 60 °C rated value</li> <li< td=""><td><ul> <li>inside-delta circuit</li> </ul></td><td>Yes</td></li<></ul>	<ul> <li>inside-delta circuit</li> </ul>	Yes				
<ul> <li>remote reset</li> <li>communication function</li> <li>communication function</li> <li>communication function</li> <li>control supply voltage</li> <li>communication function</li> <li>control logbook</li> <li>remot logbook</li> <li>vis oftware parameterizable</li> <li>No</li> <li>vis oftware configurable</li> <li>Ves</li> <li>PROFlenergy</li> <li>removable terminal for control circuit</li> <li>res 4.10 °C rated value</li> <li>relative point control</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage at inside-delta circuit and value</li> <li>relative negative tolerance of the operating voltage at inside-delta circuit and value</li> <li>relative negative tolerance of the operating voltage at inside-delta circuit and value</li> <li>relative negative tolerance of the operating voltage at inside-delta circuit and value</li> <li>relatito positive tolerance of the operat</li></ul>	<ul> <li>auto-RESET</li> </ul>	Yes				
<ul> <li>communication function</li> <li>yes</li> <li>operating measured value display</li> <li>error togbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>yes</li> <li>PROFIenergy</li> <li>PROFIenergy</li> <li>rion concetion with the PROFINET Standard communication module</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>error vable terminal for control circuit</li> <li>error value</li> <li>error value</li> <li>13 A</li> <li>at 60 "C rated value</li> <li>to 0 "C rated value</li> <li>to 0 "C rated value</li> <li>errated value</li> <li>erated value</li></ul>	<ul> <li>manual RESET</li> </ul>	Yes				
<ul> <li>operating measured value display</li> <li>verror logbook</li> <li>verror logbook</li> <li>via software parameterizable</li> <li>via software configurable</li> <li>via software configurable</li> <li>verror vable derminal for control circuit</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>reat 40 °C rated value</li> <li>at 40 °C rated value</li> <li>at 60 °C rated value</li> <li>relative negative tolerance of the operating voltage at inside-delta circuit rated value</li> <li>relative negative tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit and voltage</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit at 40 °C rated value</li> <li>at 230 V at 40 °C rated value</li> <li>at 400 °C rated value</li> </ul>	remote reset	Yes; By turning off the control supply voltage				
<ul> <li>error logbook</li> <li>Yes; Only in conjunction with special accessories</li> <li>via software parameterizable</li> <li>No</li> <li>via software configurable</li> <li>Yes</li> <li>PROFlenergy</li> <li>Yes, in connection with the PROFINET Standard communication module</li> <li>frmware update</li> <li>Yes</li> <li>removable terminal for control circuit</li> <li>Yes</li> <li>torque control</li> <li>analog output</li> <li>Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> <li>Power Electronics</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>13 A</li> <li>at 50 °C rated value</li> <li>10.5 A</li> <li>at 60 °C rated value</li> <li>10.5 A</li> <li>at 60 °C rated value</li> <li>2.2 A</li> <li>operating voltage</li> <li>rated value</li> <li>at at 0°C rated value</li> <li>at 30 V</li> <li>at at 50 °C rated value</li> <li>2.3 A</li> <li>at 60 °C rated value</li> <li>2.480 V</li> <li>at at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>2.5 %</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage at inside-delta circuit rated value</li> <li>at 2.30 V at 40 °C rated value</li> <li>55 kW</li> <li>at 20 V at at 0°C rated value</li> <li>55 kW</li> <li>at 40 °C rated value</li> <li>55 kW</li> </ul>	<ul> <li>communication function</li> </ul>					
<ul> <li>error logbook</li> <li>Yes; Only in conjunction with special accessories</li> <li>via software parameterizable</li> <li>No</li> <li>via software configurable</li> <li>Yes</li> <li>PROFlenergy</li> <li>Yes, in connection with the PROFINET Standard communication module</li> <li>frmware update</li> <li>Yes</li> <li>removable terminal for control circuit</li> <li>Yes</li> <li>torque control</li> <li>analog output</li> <li>Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> <li>Power Electronics</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>13 A</li> <li>at 50 °C rated value</li> <li>10.5 A</li> <li>at 60 °C rated value</li> <li>10.5 A</li> <li>at 60 °C rated value</li> <li>2.2 A</li> <li>operating voltage</li> <li>rated value</li> <li>at at 0°C rated value</li> <li>at 30 V</li> <li>at at 50 °C rated value</li> <li>2.3 A</li> <li>at 60 °C rated value</li> <li>2.480 V</li> <li>at at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>2.5 %</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage at inside-delta circuit rated value</li> <li>at 2.30 V at 40 °C rated value</li> <li>55 kW</li> <li>at 20 V at at 0°C rated value</li> <li>55 kW</li> <li>at 40 °C rated value</li> <li>55 kW</li> </ul>	<ul> <li>operating measured value display</li> </ul>					
<ul> <li>via software parameterizable</li> <li>via software configurable</li> <li>Ves</li> <li>Ves</li> <li>PROFlenergy</li> <li>Ves; in connection with the PROFINET Standard communication module</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> <li>Ves; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> <li>Power Electronics</li> <li>operational current         <ul> <li>at 40 °C rated value</li> <li>13 A</li> <li>at 60 °C rated value</li> <li>10 % A</li> </ul> </li> <li>operating output</li> <li>12.5 A</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> <li>at 60 °C rated value</li> </ul> <li>at 60 °C rated value</li> <li>5 A</li> <li>at 60 °C rated value</li> <li>5 A</li> <li>at 60 °C rated value</li> <li>5 A</li> <li>at 60 °C rated value</li> <li>at 8.2 A</li> <li>operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage at inside-delta circuit</li> <li>at 230 V at 40 °C rated value</li> <li>at 230 V at 10 °C rated value</li> <li>at 230 V at 10 °C rated value</li> <li>at 230 V at 10 °C rated value</li> <li>by at 400 °C rated value</li> <li>by with the formation of the operating voltage at inside-del</li>						
• via software configurable     Yes       • PROFlenergy     Yes; in connection with the PROFINET Standard communication module       • firmware update     Yes       • removable terminal for control circuit     Yes       • torque control     No       • analog output     Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)       Power Electronics        operational current     13 A       • at 40 °C rated value     13 A       • at 60 °C rated value     10.5 A       operational current t inside-delta circuit     19.9 A       • at 60 °C rated value     19.9 A       • at 60 °C rated value     200 480 V       • at 60 °C rated value     200 480 V       • at 60 °C rated value     200 480 V       • at 60 °C rated value     10 %       • at 60 °C rated value     200 480 V       • at 30 °C rated value     10 %       • at 30 °C rated value     10 %       • at 230 V at 40 °C rated value     5 % W	-					
<ul> <li>PROFIENERGY</li> <li>PROFIENERGY</li> <li>Yes; in connection with the PROFINET Standard communication module</li> <li>firmware update</li> <li>firmware update</li> <li>removable terminal for control circuit</li> <li>torque control</li> <li>torque control</li> <li>torque control</li> <li>analog output</li> <li>Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> <li>Power Electronics</li> <li>operational current         <ul> <li>at 40 °C rated value</li> <li>13 A</li> <li>at 50 °C rated value</li> <li>13 A</li> <li>at 60 °C rated value</li> <li>14 60 °C rated value</li> <li>10 S A</li> </ul> </li> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> <li>22 S A</li> <li>at 60 °C rated value</li> <li>18 2 A</li> </ul> <li>operating voltage</li> <li>rated value</li> <li>20 480 V</li> <li>at inside-delta circuit rated value</li> <li>20 480 V</li> <li>at inside-delta circuit rated value</li> <li>20 480 V</li> <li>at inside-delta circuit rated value</li> <li>10 %</li> <li>relative negative tolerance of the operating voltage at inside-delta circuit</li> <li>at 230 V at 40 °C rated value</li> <li>3 KW</li> <li>at 230 V at 0°C rated value</li> <li>55 kW</li> <li>at 320 V at 0°C rated value</li> <li>55 kW</li> <li>at 400 V at ainside-delta circuit at 40 °C rated value</li> <li>55 kW</li>						
module       • firmware update     Yes       • removable terminal for control circuit     Yes       • torque control     No       • analog output     Yes, 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)       Power Electronics       operational current     13 A       • at 40 °C rated value     13 A       • at 60 °C rated value     11.5 A       • at 60 °C rated value     10.5 A       operational current at inside-delta circuit     22.5 A       • at 60 °C rated value     19.9 A       • at 60 °C rated value     19.9 A       • at 60 °C rated value     19.9 A       • at 60 °C rated value     10.5 A       • at 60 °C rated value     12.2 A       operating voltage     10.3 A       • at 60 °C rated value     10.5 A       • at 60 °C rated value     10.5 A       • at 60 °C rated value     10.5 A       • at 60 °C rated value     200 480 V       • at 60 °C rated value     200 480 V       • at ato inside-delta circuit rated value     10 %       • relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit     15 %       • relative positive tolerance of the operating voltage at inside-delta circuit     15 %       • at 230 V at 40 °C rated value     5.5 kW	-					
removable terminal for control circuit     torque control     analog output     Ves     at 40 °C rated value     at 40 °C rated value     at 60 °C rated value     at 70 °C rated value     at 40 °C rated value     at 400 °C rated value	( internetions)					
<ul> <li>torque control         <ul> <li>analog output</li> <li>Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)</li> </ul> </li> <li>Power Electronics         <ul> <li>operational current                 <ul> <li>at 40 °C rated value</li></ul></li></ul></li></ul>	<ul> <li>firmware update</li> </ul>	Yes				
• analog output       Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)         Power Electronics         operational current         • at 40 °C rated value         • at 50 °C rated value         • at 60 °C rated value         • at inside-delta circuit rated value         200 480 V         • relative negative tolerance of the operating voltage         relative negative tolerance of the operating voltage at inside-delta circuit         relative negative tolerance of the operating voltage at inside-delta circuit         relative negative tolerance of the operating voltage at inside-delta circuit         • at 230 V at 40 °C rated value         • at 230 V at 40	<ul> <li>removable terminal for control circuit</li> </ul>	Yes				
• analog output       Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)         Power Electronics         operational current         • at 40 °C rated value         • at 50 °C rated value         • at 60 °C rated value         • at 10 °C rated value         200 480 V         • relative negative tolerance of the operating voltage         relative negative tolerance of the operating voltage at inside-delta circuit         relative negative tolerance of the operating voltage at inside-delta circuit         • relative negative tolerance of the operating voltage at 10 %         • at 230 V at 40 °C rated value <t< td=""><td>toraue control</td><td>No</td></t<>	toraue control	No				
HMI)         Power Electronics         operational current       13 A         • at 40 °C rated value       13 A         • at 50 °C rated value       11.5 A         • at 60 °C rated value       10.5 A         operational current at inside-delta circuit       19.9 A         • at 60 °C rated value       18.2 A         operating voltage       200 480 V         • at inside-delta circuit rated value       200 480 V         • at inside-delta circuit rated value       200 480 V         • at inside-delta circuit rated value       10 %         • at inside-delta circuit rated value       10 %         • at inside-delta circuit       10 %         • at 230 V at 40 °C rated value       10 %         • at 230 V at 40 °C rated value       3 kW         • at 230 V at inside-delta circuit at 40 °C rated value       5.5 kW         • at 400 V at 0° C rated value       5.5 kW	•	Yes: 4 20 mA (default) / 0 10 V (parameterizable with High Feature				
operational current13 A• at 40 °C rated value11.5 A• at 50 °C rated value10.5 Aoperational current at inside-delta circuit22.5 A• at 60 °C rated value19.9 A• at 60 °C rated value18.2 Aoperating voltage200 480 V• rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value10 %relative negative tolerance of the operating voltage10 %relative negative tolerance of the operating voltage at inside-delta circuit10 %relative positive tolerance of the operating voltage at inside-delta circuit10 %sinside-delta circuit10 %relative positive tolerance of the operating voltage at inside-delta circuit10 %sinside-delta circuit3 kW• at 230 V at 40 °C rated value3 kW• at 230 V at 40 °C rated value5.5 kW• at 400 V at 40 °C rated value5.5 kW• at 400 V at inside-delta circuit at 40 °C rated value11 kW						
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• at 40 °C rated value13 A• at 50 °C rated value11.5 A• at 60 °C rated value10.5 Aoperational current at inside-delta circuit22.5 A• at 40 °C rated value19.9 A• at 60 °C rated value20 480 V• at 60 °C rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value10 %• relative negative tolerance of the operating voltage10 %relative positive tolerance of the operating voltage at inside-delta circuit10 %relative positive tolerance of the operating voltage at inside-delta circuit10 %relative positive tolerance of the operating voltage at inside-delta circuit10 %relative positive tolerance of the operating voltage at inside-delta circuit5.5 kW• at 230 V at 40 °C rated value5.5 kW• at 400 V at inside-delta circuit at 40 °C rated value5.5 kW						
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operational current at inside-delta circuit22.5 A• at 40 °C rated value19.9 A• at 50 °C rated value19.9 A• at 60 °C rated value18.2 Aoperating voltage200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage15 %relative negative tolerance of the operating voltage at inside-delta circuit10 %relative negative tolerance of the operating voltage at inside-delta circuit10 %relative negative tolerance of the operating voltage at inside-delta circuit10 %relative negative tolerance of the operating voltage at inside-delta circuit3 kWe at 230 V at 40 °C rated value5.5 kW• at 230 V at 40 °C rated value5.5 kW• at 400 V at 0 °C rated value11 kW						
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• at 50 °C rated value19.9 A• at 60 °C rated value18.2 Aoperating voltage200 480 V• at inside-delta circuit rated value200 480 V• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage10 %relative negative tolerance of the operating voltage at inside-delta circuit-15 %relative positive tolerance of the operating voltage at inside-delta circuit-15 %operating power for 3-phase motors10 %• at 230 V at 40 °C rated value3 kW• at 230 V at inside-delta circuit at 40 °C rated value5.5 kW• at 400 V at inside-delta circuit at 40 °C rated value11 kW	•	22.5 A				
• at 60 °C rated value18.2 Aoperating voltage200 480 V• rated value200 480 V• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at inside-delta circuit10 %relative positive tolerance of the operating voltage at inside-delta circuit10 %relative positive tolerance of the operating voltage at inside-delta circuit10 %relative positive tolerance of the operating voltage at inside-delta circuit3 kW• at 230 V at 40 °C rated value3 kW• at 230 V at 40 °C rated value5.5 kW• at 400 V at inside-delta circuit at 40 °C rated value5.5 kW• at 400 V at inside-delta circuit at 40 °C rated value11 kW						
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<ul> <li>rated value</li> <li>at inside-delta circuit rated value</li> <li>at inside-delta circuit rated value</li> <li>200 480 V</li> <li>200 480 V</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>operating power for 3-phase motors</li> <li>at 230 V at 40 °C rated value</li> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> <li>5.5 kW</li> <li>at 400 V at 40 °C rated value</li> <li>11 kW</li> </ul>		10.2 A				
• at inside-delta circuit rated value200 480 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at inside-delta circuit10 %relative positive tolerance of the operating voltage at inside-delta circuit-15 %relative positive tolerance of the operating voltage at inside-delta circuit10 %relative positive tolerance of the operating voltage at inside-delta circuit10 %operating power for 3-phase motors		000 (00)/				
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relative positive tolerance of the operating voltage at inside-delta circuit10 %operating power for 3-phase motors3 kW• at 230 V at 40 °C rated value3 kW• at 230 V at inside-delta circuit at 40 °C rated value5.5 kW• at 400 V at 40 °C rated value5.5 kW• at 400 V at inside-delta circuit at 40 °C rated value11 kW		-15 %				
inside-delta circuitoperating power for 3-phase motors• at 230 V at 40 °C rated value3 kW• at 230 V at inside-delta circuit at 40 °C rated value5.5 kW• at 400 V at 40 °C rated value5.5 kW• at 400 V at inside-delta circuit at 40 °C rated value11 kW						
operating power for 3-phase motors3 kW• at 230 V at 40 °C rated value3 kW• at 230 V at inside-delta circuit at 40 °C rated value5.5 kW• at 400 V at 40 °C rated value5.5 kW• at 400 V at inside-delta circuit at 40 °C rated value11 kW		10 %				
<ul> <li>at 230 V at 40 °C rated value</li> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> <li>11 kW</li> </ul>						
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> <li>11 kW</li> </ul>		0.111/				
<ul> <li>at 400 V at 40 °C rated value</li> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> <li>11 kW</li> </ul>						
• at 400 V at inside-delta circuit at 40 °C rated value 11 kW	• at 230 V at inside_delta circuit at 40 °C rated value	5.5 kW				
Operating frequency 1 rated value 50 Hz	• at 400 V at 40 °C rated value					
	<ul> <li>at 400 V at 40 °C rated value</li> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	11 kW				

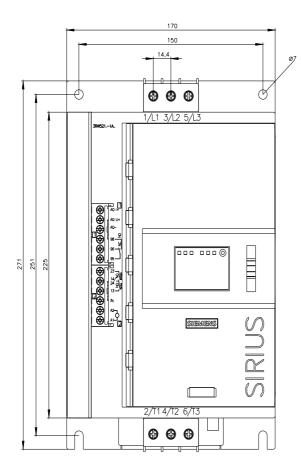
Operating frequency 2 rated value	60 Hz			
relative negative tolerance of the operating frequency	-10 %			
relative positive tolerance of the operating frequency	10 %			
adjustable motor current				
at rotary coding switch on switch position 1	5.5 A			
at rotary coding switch on switch position 2	6 A			
<ul> <li>at rotary coding switch on switch position 3</li> </ul>	6.5 A			
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	7 A 7 5 A			
at rotary coding switch on switch position 5	7.5 A			
<ul> <li>at rotary coding switch on switch position 6</li> <li>at rotary coding switch on switch position 7</li> </ul>	8 A 8.5 A			
<ul> <li>at rotary coding switch on switch position 7</li> <li>at rotary coding switch on switch position 8</li> </ul>	9.5 A			
<ul> <li>at rotary coding switch on switch position o</li> <li>at rotary coding switch on switch position 9</li> </ul>	9 A 9.5 A			
<ul> <li>at rotary coding switch on switch position 9</li> <li>at rotary coding switch on switch position 10</li> </ul>	9.5 A 10 A			
<ul> <li>at rotary coding switch on switch position 10</li> <li>at rotary coding switch on switch position 11</li> </ul>	10.5 A			
<ul> <li>at rotary coding switch on switch position 11</li> <li>at rotary coding switch on switch position 12</li> </ul>	11 A			
<ul> <li>at rotary coding switch on switch position 12</li> <li>at rotary coding switch on switch position 13</li> </ul>	11.5 A			
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	12 A			
at rotary coding switch on switch position 15	12.5 A			
at rotary coding switch on switch position 16	13 A			
• minimum	5.5 A			
adjustable motor current				
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> </ul>	9.5 A			
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> </ul>	10.4 A			
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 3</li> </ul>	11.3 A			
• for inside-delta circuit at rotary coding switch on switch position 4	12.1 A			
• for inside-delta circuit at rotary coding switch on switch position 5	13 A			
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	13.9 A			
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	14.7 A 15.6 A			
<ul> <li>for inside-delta circuit at rotary coding switch on</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	16.5 A			
<ul> <li>for inside-delta circuit at rotary coding switch on</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	17.3 A			
<ul> <li>switch position 10</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	18.2 A			
<ul><li>switch position 11</li><li>for inside-delta circuit at rotary coding switch on</li></ul>	19.1 A			
<ul><li>switch position 12</li><li>for inside-delta circuit at rotary coding switch on</li></ul>	19.9 A			
<ul> <li>switch position 13</li> <li>for inside-delta circuit at rotary coding switch on</li> </ul>	20.8 A			
<ul> <li>switch position 14</li> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> </ul>	21.7 A			
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	22.5 A			
at inside-delta circuit minimum	9.5 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	16 W			
● at 50 °C after startup	15 W			
• at 60 °C after startup	15 W			
power loss [W] at AC at current limitation 350 %				
<ul> <li>at 40 °C during startup</li> </ul>	210 W			
● at 50 °C during startup	178 W			
● at 60 °C during startup	161 W			
Control circuit/ Control				
type of voltage of the control supply voltage	AC/DC			
control supply voltage at AC				

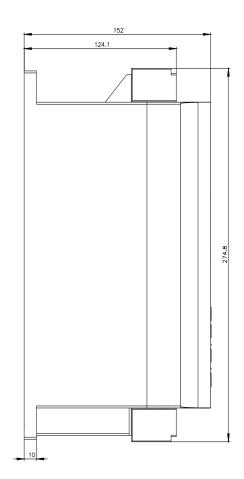
<ul> <li>at 50 Hz rated value</li> </ul>	24 V
<ul> <li>at 60 Hz rated value</li> </ul>	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage 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	160 mA
holding current in bypass operation rated value	360 mA
locked-rotor current at close of bypass contact maximum	0.75 A
inrush current peak at application of control supply voltage maximum	3.3 A
duration of inrush current peak at application of control supply voltage	12.1 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	
	4
number of digital inputs	1
number of digital outputs	3 2
not parameterizable	
digital output version number of analog outputs	2 normally-open contacts (NO) / 1 changeover contact (CO) 1
switching capacity current of the relay outputs	
• at AC-15 at 250 V rated value	3 A
• at DC-13 at 250 V rated value	1A
	TA
Installation/ mounting/ dimensions	
mounting position	+/- 10° rotation possible and can be tilted forward or backward on vertical mounting surface
fastening method	screw fixing
height	275 mm
width	170 mm
depth	152 mm
required spacing with side-by-side mounting	10 mm
• forwards	10 mm
<ul> <li>backwards</li> </ul>	
	0 mm
• upwards	0 mm 100 mm
downwards	0 mm 100 mm 75 mm
<ul><li>downwards</li><li>at the side</li></ul>	0 mm 100 mm 75 mm 5 mm
<ul> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul>	0 mm 100 mm 75 mm
downwards     at the side     weight without packaging Connections/ Terminals	0 mm 100 mm 75 mm 5 mm
downwards     at the side     weight without packaging Connections/ Terminals type of electrical connection	0 mm 100 mm 75 mm 5 mm 2.1 kg
downwards     at the side     weight without packaging Connections/ Terminals     type of electrical connection     o for main current circuit	0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals
downwards     at the side     weight without packaging Connections/ Terminals     type of electrical connection         for main current circuit         for control circuit	0 mm 100 mm 75 mm 5 mm 2.1 kg
• downwards     • at the side     weight without packaging Connections/ Terminals     type of electrical connection     • for main current circuit     • for control circuit     type of connectable conductor cross-sections	0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals
<ul> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> </ul> type of connectable conductor cross-sections <ul> <li>for main contacts</li> </ul>	0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals
<ul> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> </ul> type of connectable conductor cross-sections <ul> <li>for main contacts</li> <li>solid</li> </ul>	0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )
<ul> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> <li>Connections/ Terminals</li> <li>type of electrical connection         <ul> <li>for main current circuit</li> <li>for control circuit</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts</li></ul></li></ul>	0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> ) 2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 6.0 mm <sup>2</sup> )
<ul> <li>downwards</li> <li>at the side</li> <li>weight without packaging</li> </ul> Connections/ Terminals type of electrical connection <ul> <li>for main current circuit</li> <li>for control circuit</li> <li>type of connectable conductor cross-sections</li> <li>for main contacts <ul> <li>solid</li> </ul> </li> </ul>	0 mm 100 mm 75 mm 5 mm 2.1 kg screw-type terminals screw-type terminals 2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 10 mm <sup>2</sup> )

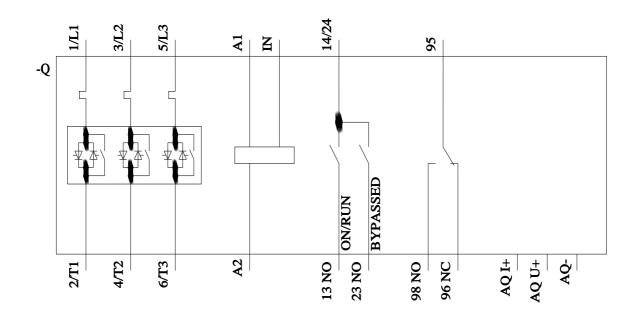
<ul> <li>for control circuit solid</li> </ul>	1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)			
<ul> <li>for control circuit finely stranded with core end</li> </ul>	1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²)			
processing				
<ul> <li>at AWG cables for control circuit solid</li> </ul>	1x (20 12), 2x (20 14)			
wire length				
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m			
<ul> <li>at the digital inputs at AC maximum</li> </ul>	100 m			
<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m			
tightening torque				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 N·m			
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m			
terminals				
tightening torque [lbf·in]				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	18 22 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 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				
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt			
	mist), 3S2 (sand must not get into the devices), 3M6			
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must			
	not get inside the devices), 1M4			
<ul> <li>during transport according to IEC 60721</li> </ul>	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				
PROFINET standard	Yes			
EtherNet/IP	Yes			
Modbus RTU	Yes			
Modbus RTU				
	Yes			
<ul> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul>	Yes Yes			
Modbus RTU     Modbus TCP     PROFIBUS UL/CSA ratings	Yes Yes			
Modbus RTU     Modbus TCP     PROFIBUS UL/CSA ratings manufacturer's article number	Yes Yes			
Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     of circuit breaker	Yes Yes Yes			
Modbus RTU     Modbus TCP     PROFIBUS  UL/CSA ratings  manufacturer's article number     of circuit breaker     — usable for Standard Faults at 460/480 V	Yes Yes			
Modbus RTU     Modbus TCP     PROFIBUS  UL/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	Yes Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65			
Modbus RTU     Modbus TCP     PROFIBUS  UL/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	Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA			
Modbus RTU     Modbus TCP     PROFIBUS  UL/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 at 460/480 V at         inside-delta circuit according to UL	Yes Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA			
Modbus RTU     Modbus TCP     PROFIBUS  UL/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 at 460/480 V at	Yes Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA			
<ul> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul> UL/CSA ratings manufacturer's article number <ul> <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>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Yes Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65			
<ul> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul> UL/CSA ratings manufacturer's article number <ul> <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>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>— usable for Standard Faults at 575/600 V according to UL</li> <li>— usable for Standard Faults at 575/600 V at</li> </ul>	Yes Yes Yes Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA Siemens type: 3RV2742, max. 40 A or 3VA51, max. 40 A; lq = 5 kA Siemens type: 3RV2742, max. 30 A or 3VA51, max. 35 A; lq max = 65 kA			
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<ul> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul> <b>UL/CSA ratings manufacturer's article number</b> <ul> <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>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V according to UL</li> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V at inside-delta circuit 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 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> </ul>	Yes Yes Siemens type: $3RV2742$ , max. 40 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 30 A or $3VA51$ , max. 35 A; lq max = 65 kA Siemens type: $3RV2742$ , max. 30 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 30 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 40 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 40 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 40 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 40 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 50 A; lq = 5 kA			
<ul> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul> <b>UL/CSA ratings manufacturer's article number</b> <ul> <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>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V according to UL</li> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 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 Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Yes Yes Siemens type: $3RV2742$ , max. 40 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 30 A or $3VA51$ , max. 35 A; lq max = 65 kA Siemens type: $3RV2742$ , max. 30 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 30 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 40 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 40 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 40 A or $3VA51$ , max. 40 A; lq = 5 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class RK5 / K5, max. 50 A; lq = 100 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA			
<ul> <li>Modbus RTU</li> <li>Modbus TCP</li> <li>PROFIBUS</li> </ul> UL/CSA ratings manufacturer's article number <ul> <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>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for High Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V according to UL</li> <li>usable for Standard Faults at 575/600 V at inside-delta circuit according to UL</li> <li>usable for Standard Faults at 575/600 V at inside-delta circuit 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 Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Yes Yes Siemens type: $3RV2742$ , max. 40 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 30 A or $3VA51$ , max. 35 A; lq max = 65 kA Siemens type: $3RV2742$ , max. 30 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 30 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 40 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 40 A or $3VA51$ , max. 40 A; lq = 5 kA Siemens type: $3RV2742$ , max. 40 A or $3VA51$ , max. 40 A; lq = 5 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA Type: Class RK5 / K5, max. 50 A; lq = 100 kA Type: Class RK5 / K5, max. 50 A; lq = 5 kA			
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	• at 220/230 V at inside-delta circuit at 50 °C rated		5 hp			
value <ul> <li>at 460/480 V at inside-delta circuit at 50 °C rated</li> <li>value</li> </ul>		10 hp				
contact rating of auxil	iary contacts accord	ding to UL	R300	D-B300		
Safety related data		5				
protection class IP on 60529	the front according	to IEC	IP20			
touch protection on the electromagnetic comp	-	DIEC 60529	-	er-safe, for vertical cont cordance with IEC 609		
Certificates/ approvals						
General Product Appr	roval					EMC
() E	<u>Confirmation</u>		)	UL UL	EHC	RCM
Declaration of Confor	mity	Test Certifica	ates	Marine / Shipping		
UK CA	CE EG-Konf.	<u>Type Test Ce</u> <u>ates/Test Re</u>		ABS	BUREAU VERITAS	Lloyd's Register urs
Marine / Shipping		other				
PRS	DNV-GL DNV-GL	<u>Confirmatic</u>	<u>on</u>			
Further information						
Information- and Down	nloadcenter (Catalo	gs, Brochures,.	)			
https://www.siemens.co						
Industry Mall (Online on https://mall.industry.sier		/Catalog/product	t?mlfb=	3RW5213-1AC04		
Cax online generator		<u> </u>		<u></u>		
http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5213-1AC04						
Service&Support (Manuals, Certificates, Characteristics, FAQs,) https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-1AC04						
Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)						
http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5213-1AC04⟨=en Characteristic: Tripping characteristics, I <sup>2</sup> t, Let-through current https://support.industry.siemens.com/cs/ww/en/ps/3RW5213-1AC04/char						
	Characteristic: Installation altitude					
http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5213-1AC04&objecttype=14&gridview=view1						
Simulation Tool for So	oft Starters (STS)					

Simulation Tool for Soft Starters (STS) https://support.industry.siemens.com/cs/ww/en/view/101494917







10/24/2022

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