SIEMENS

Data sheet

3RW5215-3AC05



SIRIUS soft starter 200-600 V 25 A, 24 V AC/DC spring-type terminals Analog output

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
 of standard HMI module usable 	<u>3RW5980-0HS00</u>
 of high feature HMI module usable 	<u>3RW5980-0HF00</u>
 of communication module PROFINET standard usable 	<u>3RW5980-0CS00</u>
 of communication module PROFIBUS usable 	<u>3RW5980-0CP00</u>
 of communication module Modbus TCP usable 	<u>3RW5980-0CT00</u>
 of communication module Modbus RTU usable 	<u>3RW5980-0CR00</u>
 of communication module Ethernet/IP 	<u>3RW5980-0CE00</u>
 of circuit breaker usable at 400 V 	3RV2032-4EA10: Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V 	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of circuit breaker usable at 400 V at inside-delta circuit 	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10
 of circuit breaker usable at 500 V at inside-delta circuit 	3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3822-6; Type of coordination 1. Iq = 65 kA
 of the gG fuse usable at inside-delta circuit up to 500 V 	3NA3822-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1817-0; Type of coordination 2, Iq = 65 kA</u>
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE8021-1; Type of coordination 2, Iq = 65 kA
eneral technical data	
starting voltage [%]	30 100 %
stopping voltage [%]	50 50 %
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
CSA approval	Yes
product component is supported	
HMI-Standard	Yes
HMI-High Feature	Yes
product feature integrated bypass contact system	Yes

rip class CLASS 10A (default) / 10E / 20E; acc. to IEC 60847.4-2 buffering time in the event of power failure 100 ms i for control circuit 000 v i for control circuit 600 V i for control circuit 700 V i for control circuit <t< th=""><th>number of controlled phases</th><th>3</th></t<>	number of controlled phases	3
buffering time in the event of power failure 100 ms • for nain current circuit 100 ms insulation voltage rated value 600 V degree of pollution 3, acc. to IEC 60947-4-2 imputes voltage resistance rated value 6 kV blocking voltage of the thyristor maximum 100 v service factor 1 surge voltage resistance rated value 6 kV naximum permissible voltage for safe isolation 6 V * between main and axvillary circuit 600 V shock resistance 15 g / 11 ms, ifrom 12 g / 11 ms with potential contact lifting vibration resistance 15 mm to 6 Hz, 20 s 500 Hz uitization category acc, to IEC 60047-42 AC 55a reference code acc, to IEC 60047-42 AC 55a vibration resistance 15 g / 11 ms, ifrom 12 g / 11 ms with potential contact lifting • andy-down (soft stop) 150 22 2018 00 00:00 product function Yes • andy-down (soft stop) Yes • andy-down (soft stop) Yes • andy-dovin (soft stop) Yes • andy-dovin particulation Yes • andiad-d		_
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• of control dircuit 100 ms insulation voltage rated value 600 V degree of policition 3, acc. to IEC 60947-4-2 imputes voltage rated value 6 kV blocking voltage of the thyristor maximum 1 service factor 1 service factor 6 kV maximum permissible voltage for safe isolation 6 kV • between main and auxiliary circuit 600 V shock resistance 15 g/ 11 ms, from 12 g / 11 ms with potential contact lifting • bitween main and auxiliary circuit 600 V shock resistance 15 g/ 11 ms, from 12 g / 11 ms with potential contact lifting • diarpatibut picel statistic 76 mm to 6 Hz; 2g to 500 Hz vibration resistance 0 substance (Poth) Yes substance forthibitance (Date) Yes • amp-up (soft starting) Yes • adjustable current limitation Yes • adjustable current limitation Yes • and the scale current limitation Yes • and to ker te protection Yes • and to fill ca circuit Yes <td< th=""><th></th><th>100 ms</th></td<>		100 ms
Insulation values rated value 600 V degree of pollution 3, acc. to IEC 60947-4-2 Impulse voltage rated value 6 kV blocking voltage of the thyristor maximum 1 600 V surge voltage resistance rated value 6 kV • between main and auxiliary circuit 6 kV • between main and auxiliary circuit 15g / 11 ms, from 12g / 11 ms with potential contact lifting • between main and auxiliary circuit 15g / 11 ms, from 12g / 11 ms with potential contact lifting • obtavies car, to IEC 81346-2 0 • amp-down (soft stop) Yes • amp-down (soft stop) Yes • amp-down (soft stop) Yes • adjustable current limitation Yes • pump range down Yes • adjustable current limitation Yes • stadt-feat accutu Yes • auto-RESET Yes • auto-RESET Yes • auto-RESET Yes • auto-RESET Yes • anould RESET Yes • anould RESET Yes • anould RESET Yes • a		
degree of pollution 3. acc. to IEC 6047.4-2 impute voltage rated value 6 kV blocking voltage of the thyristor maximum 1 600 V service factor 1 surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation 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 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 15 g/ 20 18 00:00:00 preduct function 15 g/ 20 18 00:00:00 reference code acc. to IEC 81346-2 0 Substance Prohibitiance (Date) 16 02:20 18 00:00:00 pump ramp down Yes • adjustable current limitation Yes • adjustable current limitation Yes • and RESET Yes • anour RESET Yes • anour RESET Yes • anour protection Yes • via software configurable Yes • anoto operating measured value display Yes; In connection with the PROFINET Standard communication module • anotog optot Yes		
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surge voltage resistance rated value 6 kV maximum permissible voltage for safe isolation 6 between main and audity circuit 600 V shock resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting 11 ms vith potential contact lifting vibration resistance 15 mo to Hz; 2g to 500 Hz 400 Hz; 2g to 500 Hz utilization category acc, to IEC 60947-4-2 AC 53a reference code acc, to IEC 61346-2 Q Substance Prohibitance (Date) 15 02 2018 00:00:00 product function Yes • amp-up (soft sarting) Yes • adjustable current limitation Yes • adjustable current limitation Yes • auto-RESET Yes • auto-RESET Yes • auto-RESET Yes • auto-RESET Yes • communication function Yes • auto-RESET Yes </th <th></th> <th></th>		
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• between main and auxiliary circuit 600 V shock resistance 15 g / 11 ms, from 12 g / 11 ms with potential contact lifting vibration resistance 15 mm to 6 Hz; 2g to 500 Hz utilization category acc. to IEC 60947-4-2 AC 53a reference code acc. to IEC 81346-2 0 Substance Prohibitance (Date) 15.02.2018 00:00:00 product function Yes • ramp-loy (soft starting) Yes • adjustable current limitation Yes • auto-RESET Yes <t< th=""><th></th><th></th></t<>		
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vibration resistance 15 mm to 6 Hz; 2g to 500 Hz utilization category acc. to IEC 6047-4-2 AC 53a reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 15.02 2018 00:00:00 product function Yes • ramp-up (soft straing) Yes • adjustable current limitation Yes • anaual RESET Yes • communication function Yes • communication function Yes • adjustable control incurti Yes • anaual RESET Yes • arony dyname parameterizable No • arony dy		
utilization category acc. to IEC 60947.4-2 AC 53a reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 15.02.2018 00:00:00 product function Yes • ramp-up (soft starting) Yes • any-up (soft starting) Yes • any-up (soft starting) Yes • any-up (soft starting) Yes • adjustable current limitation Yes • inside-delta circuit Yes • evaluation of thermistor motor protection No • inside-delta circuit Yes • anoual RESET Yes • anoual RESET Yes • erronte reset Yes; Dity in conjunction with special accessories • error togook Yes; Ion yin conjunction with special accessories • via software confligurable Yes • via software confligurable Yes; io connection with the PROFINET Standard communication module • firmware update Yes • removable terminal for control circuit Yes • a		
reference code acc. to IEC 81346-2 Q Substance Prohibitance (Date) 15 02.2018 00:00:00 product function Yes • ramp-down (soft stop) Yes • soft Torque Yes • adjustable current limitation Yes • upmp ramp down Yes • initrinsid device protection Yes • evaluation of thermistor motor protection No • initrinsid device protection Yes • auto-RESET Yes • manual RESET Yes • ramp down Yes; By turning off the control supply voltage • communication function Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • via software parameterizable No • via software configurable Yes • removable terminal for control circuit Yes • torque control No • analog output Yes; 4, 20 mA (default) / 0 10 V (parameterizable with High Featur HMI) Power Electronics 20 A operating voltage 32 A • at 60 °C rated value 32 A • at 60 °C rated value 32 A • at 60 °C rated value 39 A • at 60 °C rated value 32 A </th <th></th> <th></th>		
Substance Prohibitance (Date) 15 02.2018 00:00:00 product function Yes • ramp-down (soft stop) Yes • adjustable current limitation Yes • initide-delta circuit Yes • auto-RESFT Yes • remote reset Yes; Only in conjunction with special accessories • operating measured value display Yes; Only in conjunction with special accessories • via software configurable Yes • via software configurable Yes • removable terminal for control circuit Yes • analog output Yes • at do °C rated value 25 A • at do °C rated value 25 A • at do °C rated value 33.9 A • operating voltage 20 A • operating voltage 39 A • removable terminal for control circuit Yes • at do °C rated value 25 A • at do °C rated value 39 A <td< th=""><th></th><th>=</th></td<>		=
product function Yes • ramp-up (soft starting) Yes • ramp-up (soft stop) Yes • Soft Torque Yes • adjustable current limitation Yes • pump ramp down Yes • intrinsic device protection Yes • motor overload protection Yes • inside-delta circuit Yes • auto-RESET Yes • manual RESET Yes • remole reset Yes; Durning off the control supply voltage • communication function Yes • error logbook Yes; Only in conjunction with special accessories • 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 • torque control No • atalo 0°C rated value 25 A • at 0°C rated value 26 A • at 0°C rated value 33.0 A • at 0°C rated value 39.A • at 0°C		
• ramp-up (soft starting) Yes • ramp-down (soft stop) Yes • Soft Torque Yes • adjustable current limitation Yes • pump ramp down Yes • initrinsic device protection Yes • untor overload protection Yes • evaluation of thermistor motor protection No • initid-delta circuit Yes • auto-RESET Yes • manual RESET Yes • communication function Yes • communication function Yes • operating measured value display Yes • via software parameterizable No • via software parameterizable No • via software configurable Yes • removable terminal for control circuit Yes • indig output Yes • torque control No • analog output Yes • torque control Yes • at 40 °C rated value 25 A • at 60 °C rated value 25 A • at 60 °C rated value 20 A • operating voltage 33.9 A <t< th=""><th></th><th>10.02.2010 00.00.00</th></t<>		10.02.2010 00.00.00
• ramp-down (soft stop) Yes • Soft Torque Yes • adjustable current limitation Yes • pump ramp down Yes • intrinsic device protection Yes • motor overload protection Yes • evaluation of thermistor motor protection No • inside-delta circuit Yes • auto-RESET Yes • auto-RESET Yes • communication function Yes • communication function Yes • operating measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • removable terminal for control circuit Yes • torque control No • analog output Yes • at 40 °C rated value 25 A • at 60 °C rated value 20 A • operating value 33 A • at 60 °C rated value	•	Ves
 Soft Torque Yes adjustable current limitation Yes pump ramp down Yes initinsic device protection revaluation of thermistor motor protection inside-deta circuit auto-RESET remote reset communication function Yes comologibook Yes configurable Yes removable reset Yes removable terminal for control circuit Yes torque control analog output Yes analog output Analog 'C rated value<		
• adjustable current limitation Yes • pump ramp down Yes • intrinsic device protection Yes • evaluation of thermistor motor protection No • indiverse function Yes • auto-RESET Yes • manual RESET Yes • remote reset Yes; By turning off the control supply voltage • communication 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 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 Featur • at 40 °C rated value 22 A • at 60 °C rated value 22 A • at 60 °C rated value 33.9 A • operating voltage 9A • at 60 °C rated value 33.9 A		
• pump ramp downYes• intrinsic device protectionYes• motor overload protectionYes; Electronic motor overload protection• evaluation of thermistor motor protectionNo• inside-delta circuitYes• auto-RESETYes• manual RESETYes; Dy turning off the control supply voltage• communication functionYes; Only in conjunction with special accessories• operating measured value displayYes; Only in conjunction with special accessories• operating measured value displayYes; Only in conjunction with special accessories• via software parameterizableNo• via software parameterizableNo• via software configurableYes• removable terminal for control circuitYes• firmware updateYes; in connection with the PROFINET Standard communication module• firmware updateYes• analog outputYes; 1 20 mA (default) / 0 10 V (parameterizable with High Featur Hilly)• at 40 °C rated value22 A• at 60 °C rated value22 A• at 60 °C rated value33.0 A• at 60 °C rated value39 A• at 60 °C rated value39 A• at 60 °C rated value20 600 V• at 60 °C rated value33.9 A• operating voltage-15 %• relative negative tolerance of the operating voltage-15 %		
initinisic device protection Yes motor overload protection Yes; Electronic motor overload protection evaluation of thermistor motor protection No inside-delta circuit Yes; auto-RESET Yes; manual RESET Yes; remotor erset Yes; operating measured value display Yes; Only in conjunction with special accessories 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 configurable Yes; PROFlenergy Yes; in connection with the PROFINET Standard communication module effirmware update Yes; torque control No e analog output Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Featur HMI) Power Electronics 25 A operational current 25 A e at 60 °C rated value 20 A operating output 33.9 A operating voltage 39 A e at 60 °C rated value 39 A e at 60 °C rated value 20 A 600 V </th <th></th> <th></th>		
• motor overload protection Yes; Electronic motor overload protection • evaluation of thermistor motor protection No • inside-delta circuit Yes • auto-RESET Yes • manual RESET Yes; By turning off the control supply voltage • communication function Yes; Only in conjunction with special accessories • operating measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • pRoFlenergy Yes; in connection with the PROFINET Standard communication module • firmware update Yes • torque control No • analog output Yes • at do "C rated value 25 A • at 60 "C rated value 26 A • at 60 "C rated value 20 A • at 60 "C rated value 33 A • at 60 "C rated value 33 A • at 60 "C rated value 20 A • at 60 "C rated value 20 A • at 60 "C rated value 33 A • at 60 "C rated value 39 A • at 60 "C rated value 20 600 V • at 60		
• evaluation of thermistor motor protection No • inside-detta circuit Yes • auto-RESET Yes • manual RESET Yes; By turning off the control supply voltage • communication function Yes; Only in conjunction with special accessories • operating measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes • via software configurable Yes • pROFlenergy Yes • torque control Yes • torque control Yes • torque control No • analog output Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Featur HMI) Power Electronics 25 A operational current 25 A • at 40 °C rated value 25 A • at 60 °C rated value 39 A • at 60 °C rated value 200 600 V		
• inside-delta circuit Yes • auto-RESET Yes • manual RESET Yes • emote reset Yes; By turning off the control supply voltage • communication function Yes; Only in conjunction with special accessories • operating measured value display Yes; Only in conjunction with special accessories • via software parameterizable No • via software configurable Yes; • PROFlenergy Yes; in connection with the PROFINET Standard communication module • firmware update Yes; • torque control Yes; • analog output Yes; A 20 mA (default) / 0 10 V (parameterizable with High Featur HMI) Power Electronics 20 A operational current 25 A • at 40 °C rated value 25 A • at 50 °C rated value 20 A • at 40 °C rated value 33 A • at 40 °C rated value 33 A • at 60 °C rated value 33 A • at 60 °C rated value 20 A • at 60 °C rated value 33 A • at 60 °C rated value 33 A • at 60 °C rated value 200 600 V • at 60		·
• atto-RESET Yes • manual RESET Yes • communication function Yes • operating measured value display Yes • error logbook Yes • via software parameterizable No • via software configurable Yes • PROFlenergy Yes • removable terminal for control circuit Yes • removable terminal for control circuit Yes • removable terminal for control circuit Yes • analog output Yes • analog output Yes • at 40 °C rated value 25 A • at 60 °C rated value 25 A • at 60 °C rated value 33 A • at 60 °C rated value 33 A • at 60 °C rated value 33 A • at 60 °C rated value 20 600 V • at 60 °C rated value 200 600		
• manual 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• error logbookNo• via software parameterizableNo• via software configurableYes;• removable terminal for control circuitYes• firmware updateYes;• removable terminal for control circuitYes;• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)Power Electronics20 Aoperational current20 A• at 60 °C rated value20 A• at 60 °C rated value39 A• at 60 °C rated value39 A• at 60 °C rated value39 A• at 60 °C rated value20 600 V• at 60 °C rated value20 600 V• at 60 °C rated value15 %• relative negative tolerance of the operating voltage-15 %		
• remote resetYes; By turning off the control supply voltage• communication functionYes• operating measured value displayYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• analog outputYes: 120 mA (default) / 0 10 V (parameterizable with High Feature HMI)Power Electronics20 Aoperational current22 A• at 60 °C rated value20 A• at 60 °C rated value39 A• at 60 °C rated value39 A• at 60 °C rated value39 A• at 60 °C rated value20 600 V• at 60 °C rated value15 %• relative negative tolerance of the operating voltage-15 %• relative negative tolerance of the operating voltage-15 %		
• communication functionYes• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes;• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes;• torque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Featur HMI)Power Electronics25 A• at 40 °C rated value25 A• at 60 °C rated value20 A• at 60 °C rated value33 9 A• at 60 °C rated value33.9 A• at 60 °C rated value200 600 V• at 60 °C rate value200 600 V• at 60 °C rated value210 600 V• at 60 °C rated value200 600 V• at 60 °C rated value210 600 V• at 60 °C rated value210 600 V• at 60 °C rated value210 600 V• at 60 °C rated value215 %• relative neg		
• operating measured value displayYes; Only in conjunction with special accessories• error logbookYes; Only in conjunction with special accessories• via software parameterizableNo• via software configurableYes• PROFlenergyYes; in connection with the PROFINET Standard communication module• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Featur HMI)Power Electronics• at 40 °C rated value25 A• at 50 °C rated value20 A• at 60 °C rated value39 A• at 60 °C rated value39 A• at 60 °C rated value39 A• at 60 °C rated value200 600 V• at 60 °C rated value215 %		
error logbookYes; Only in conjunction with special accessoriesvia software parameterizableNovia software configurableYeserror logbookYes; in connection with the PROFINET Standard communication moduleefrimware updateYeseremovable terminal for control circuitYestorque controlNoe analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Featur HMI)Power Electronics25 Aoperational current22 Ae at 40 °C rated value22 Ae at 60 °C rated value39 Ae at 60 °C rated value39 Ae at 60 °C rated value30 Ae at 60 °C rated value30 Ae at 60 °C rated value15 %rated value200 600 Ve at 60 °C rated value31.9 Aoperating voltage-15 %		
 via software parameterizable via software configurable via software configurable PROFlenergy PROFlenergy Ves; in connection with the PROFINET Standard communication module firmware update removable terminal for control circuit torque control analog output Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) Power Electronics operational current at 40 °C rated value 22 A at 60 °C rated value 20 A operational current at inside-delta circuit at 60 °C rated value 39 A at 60 °C rated value 39 A at 60 °C rated value 200 600 V at at inside-delta circuit rated value 200 600 V at at inside-delta circuit rated value 200 600 V at at inside-delta circuit rated value 200 600 V at at inside-delta circuit rated value 200 600 V at at inside-delta circuit rated value 200 600 V at at inside-delta circuit rated value 200 600 V at at inside-delta circuit rated value 200 600 V at at inside-delta circuit rated value 31.9 Å 		
 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 analog output Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) Power Electronics at 40 °C rated value at 60 °C rated value bit for the operating voltage at for the operating voltage <	-	
• 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 Featur HMI) Power Electronics Power Electronics operational current 25 A • at 40 °C rated value 22 A • at 60 °C rated value 20 A operational current at inside-delta circuit 43.3 A • at 60 °C rated value 39 A • at 60 °C rated value 200 600 V • at 60 °C rated value 200 600 V • at 60 °C rated value 200 600 V • at 60 °C rated value 200 600 V • at 60 °C rated value 200 600 V • at 60 °C rated value 200 600 V • at 60 °C rated value 200 600 V • at 60 °C rated value 200 600 V • at inside-delta circuit rated value 200 600 V • at inside-delta circuit rated value 200 600 V • at inside-delta circuit rated value 200 600 V • at inside-delta circuit		
module • firmware update Yes • removable terminal for control circuit Yes • torque control No • analog output No • analog output Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Featur Hill) Power Electronics Power Electronics operational current 25 A • at 40 °C rated value 25 A • at 60 °C rated value 20 A operational current at inside-delta circuit 43.3 A • at 60 °C rated value 39 A • at 60 °C rated value 200 600 V • at 60 °C rated value 200 600 V • at 60 °C rated value 200 600 V • at 60 °C rated value 200 600 V • at 60 °C rated value 31.9 A • at 60 °C rated value 15 %	-	
• firmware updateYes• removable terminal for control circuitYes• torque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Featur HMI)Power ElectronicsYes; 4 20 mA (default) / 0 10 V (parameterizable with High Featur HMI)operational current25 A• at 40 °C rated value22 A• at 60 °C rated value20 A• at 60 °C rated value20 A• at 60 °C rated value39 A• at 60 °C rated value39 A• at 60 °C rated value20 600 V• at 60 °C rated value20 600 V• at inside-delta circuit rated value20 600 V	PROFienergy	,
• removable terminal for control circuitYes• torque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Featur HMI)Power Electronicsoperational current25 A• at 40 °C rated value22 A• at 50 °C rated value20 A• at 60 °C rated value20 A• at 60 °C rated value39 A• at 60 °C rated value39 A• at 60 °C rated value39 A• at 60 °C rated value30 A• at 60 °C rated value20 A• at 60 °C rated value20 A• at 40 °C rated value20 A• at 40 °C rated value39 A• at 60 °C rated value30 A• at 60 °C rated value10 %• at inside-delta circuit rated value200 600 V• at inside-delta circuit rated value200 600 V• at inside-delta circuit rated value15 %	e firmware undate	
• torque controlNo• analog outputYes; 4 20 mA (default) / 0 10 V (parameterizable with High Featur HMI)Power Electronicsoperational current25 A• at 40 °C rated value22 A• at 50 °C rated value20 Aoperational current at inside-delta circuit33 A• at 40 °C rated value33.9 A• at 60 °C rated value200 600 V• at 60 °C rated value200 600 V• at inside-delta circuit rated value15 %• relative negative tolerance of the operating voltage10 %	•	
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• at 40 °C rated value43.3 A• at 50 °C rated value39 A• at 60 °C rated value33.9 Aoperating voltage200 600 V• rated value200 600 V• at inside-delta circuit rated value200 600 Vrelative negative tolerance of the operating voltage-15 %relative negative tolerance of the operating voltage at-15 %		
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• at 60 °C rated value 33.9 A operating voltage 200 600 V • rated value 200 600 V • at inside-delta circuit rated value 200 600 V relative negative tolerance of the operating voltage -15 % relative negative tolerance of the operating voltage at -15 %		
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relative positive tolerance of the operating voltage 10 % relative negative tolerance of the operating voltage at -15 %		_
relative negative tolerance of the operating voltage at -15 %		
	inside-delta circuit	

 operating power for 3-phase motors at 230 V at 40 °C rated value 	
 at 230 V at 40 °C rated value 	
	5.5 kW
 at 230 V at inside-delta circuit at 40 °C rated value 	11 kW
 at 400 V at 40 °C rated value 	11 kW
 at 400 V at inside-delta circuit at 40 °C rated value 	18.5 kW
 at 500 V at 40 °C rated value 	15 kW
 at 500 V at inside-delta circuit at 40 °C rated value 	22 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 	11.5 A
 at rotary coding switch on switch position 2 	12.4 A
 at rotary coding switch on switch position 3 	13.3 A
 at rotary coding switch on switch position 4 	14.2 A
 at rotary coding switch on switch position 5 	15.1 A
 at rotary coding switch on switch position 6 	16 A
 at rotary coding switch on switch position 7 	16.9 A
 at rotary coding switch on switch position 8 	17.8 A
 at rotary coding switch on switch position 9 	18.7 A
 at rotary coding switch on switch position 10 	19.6 A
 at rotary coding switch on switch position 11 	20.5 A
 at rotary coding switch on switch position 12 	21.4 A
 at rotary coding switch on switch position 13 	22.3 A
 at rotary coding switch on switch position 14 	23.2 A
 at rotary coding switch on switch position 15 	24.1 A
 at rotary coding switch on switch position 16 	25 A
• minimum	11.5 A
adjustable motor current	
 for inside-delta circuit at rotary coding switch on switch position 1 	19.9 A
 for inside-delta circuit at rotary coding switch on switch position 2 	21.5 A
 for inside-delta circuit at rotary coding switch on switch position 3 	23 A
• for inside-delta circuit at rotary coding switch on switch position 4	24.6 A
for inside-delta circuit at rotary coding switch on switch position 5	26.2 A
 for inside-delta circuit at rotary coding switch on switch position 6 for inside delta circuit at rotary coding switch on 	27.7 A
 for inside-delta circuit at rotary coding switch on switch position 7 for inside-delta circuit at rotary coding switch on 	29.3 A 30.8 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	32.4 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	33.9 A
 for inside-delta circuit at rotary coding switch on for inside-delta circuit at rotary coding switch on 	35.5 A
 switch position 11 for inside-delta circuit at rotary coding switch on 	37.1 A
switch position 12 • for inside-delta circuit at rotary coding switch on	38.6 A
switch position 13 • for inside-delta circuit at rotary coding switch on	40.2 A
switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15	41.7 A

e for incide delte sizevit et retery ending ewitch on	12.2.4
 for inside-delta circuit at rotary coding switch on switch position 16 	43.3 A
at inside-delta circuit minimum	19.9 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	20 W
• at 50 °C after startup	19 W
• at 60 °C after startup	18 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	376 W
• at 50 °C during startup	318 W
• at 60 °C during startup	278 W
Control circuit/ Control	270 W
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	24.17
at 50 Hz rated value	24 V
at 60 Hz rated value	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
at DC rated value	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	160 mA
holding current in bypass operation rated value	360 mA
locked-rotor current at close of bypass contact	0.75 A
maximum	224
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	
number of digital inputs	1
number of inputs for thermistor connection	0
number of digital outputs	3
not parameterizable	2
digital output version	2 2 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	1
switching capacity current of the relay outputs	1
at AC-15 at 250 V rated value	3 A
at DC-13 at 24 V rated value	1A
Installation/ mounting/ dimensions	1/ 10° retation page ible and can be titled forward as be described
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	
• forwards	10 mm
backwards	0 mm
• upwards	100 mm
downwards	75 mm
• at the side	5 mm
weight without packaging	2.1 kg
Connections/ Terminals	
type of electrical connection	
for main current circuit	screw-type terminals
for control circuit	spring-loaded terminals
type of connectable conductor cross-sections	
for main contacts	
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)
 — finely stranded with core end processing 	2x (1.0 2.5 mm ²), 2x (2.5 6.0 mm ²)
at AWG cables for main current circuit solid	
type of connectable conductor cross-sections	2x (16 12), 2x (14 8)
for control circuit solid	$2x (0.25 \pm 1.5 \text{ mm}^2)$
	2x (0.25 1.5 mm ²)
for control circuit finely stranded with core end processing	2x (0.25 1.5 mm ²)
 at AWG cables for control circuit solid 	2x (24 16)
 at AWG cables for control circuit finely stranded with core end processing 	2x (24 16)
wire length	
 between soft starter and motor maximum 	800 m
 at the digital inputs at AC maximum 	100 m
 at the digital inputs at DC maximum 	1 000 m
tightening torque	
 for main contacts with screw-type terminals 	2 2.5 N·m
 for auxiliary and control contacts with screw-type terminals 	0.8 1.2 N·m
tightening torque [lbf·in]	
 for main contacts with screw-type terminals 	18 22 lbf·in
 for auxiliary and control contacts with screw-type terminals 	7 10.3 lbf·in
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
 during storage and transport 	-40 +80 °C
environmental category	
• during operation acc. to IEC 60721	3K6 (no ice formation, only occasional condensation), 3C3 (no salt mist), 3S2 (sand must not get into the devices), 3M6
• during storage acc. to IEC 60721	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
 during transport acc. to IEC 60721 	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
PROFINET standard	Yes
EtherNet/IP	Yes
Modbus RTU	Yes
Modulus RTU Modulus TCP	Yes
PROFIBUS	Yes
UL/CSA ratings	

	_
manufacturer's article number	
of circuit breaker	
 — usable for Standard Faults at 460/480 V according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA
 — usable for High Faults at 460/480 V according to UL 	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA
 — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA
 usable for High Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3VA51, max. 60 A; lq max = 65 kA
 usable for Standard Faults at 575/600 V according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA
 usable for Standard Faults at 575/600 V at inside-delta circuit according to UL 	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA
 of the fuse 	
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 100 A; Iq = 5 kA
 — usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 100 A; lq = 100 kA
 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 100 A; lq = 5 kA
 — usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 100 A; lq = 100 kA
operating power [hp] for 3-phase motors	
 at 200/208 V at 50 °C rated value 	5 hp
 at 220/230 V at 50 °C rated value 	7.5 hp
 at 460/480 V at 50 °C rated value 	15 hp
 at 575/600 V at 50 °C rated value 	20 hp
 at 200/208 V at inside-delta circuit at 50 °C rated value 	10 hp
 at 220/230 V at inside-delta circuit at 50 °C rated value 	10 hp
 at 460/480 V at inside-delta circuit at 50 °C rated value 	25 hp
 at 575/600 V at inside-delta circuit at 50 °C rated value 	30 hp
contact rating of auxiliary contacts according to UL	R300-B300
afety related data	
protection class IP on the front acc. to IEC 60529	IP20
touch protection on the front acc. to IEC 60529	finger-safe, for vertical contact from the front
electromagnetic compatibility	in accordance with IEC 60947-4-2
ertificates/ approvals	
General Product Approval	EMC Declaration of Conformity
(B) (C) (L)	
CSA CCC UL	RCM EG-Konf.
Test Certificates Marine / Shipping	
Type Test Certific- ates/Test Report	Hoyds Register
ABS BUREA	U LRS PRS BingLooks
othor	
other	

Further information

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

https://www.siemens.com/ic10

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=3RW5215-3AC05

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5215-3AC05

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-3AC05

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros, ...)

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5215-3AC05&lang=en

Characteristic: Tripping characteristics, I²t, Let-through current

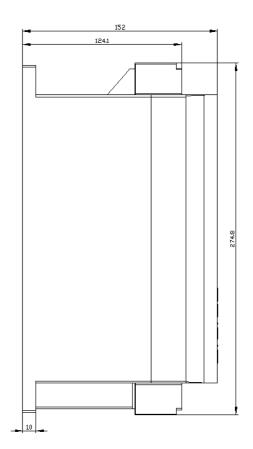
https://support.industry.siemens.com/cs/ww/en/ps/3RW5215-3AC05/char

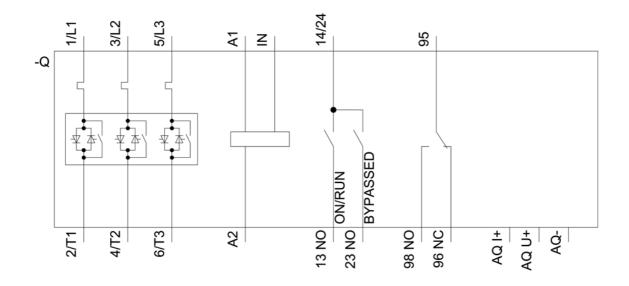
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5215-3AC05&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

https://support.industry.siemens.com/cs/ww/en/view/101494917

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