SIEMENS

Data sheet

3RW5235-2AC15



SIRIUS soft starter 200-600 V 143 A, 110-250 V AC spring-type terminals Analog output

470 471 - 4					
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 	<u>3VA2220-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10				
 of circuit breaker usable at 400 V at inside-delta circuit 	<u>3VA2325-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10				
 of the gG fuse usable up to 690 V 	<u>3NA3244-6;</u> Type of coordination 1, Iq = 65 kA				
\bullet of the gG fuse usable at inside-delta circuit up to 500 V	<u>3NA3244-6;</u> Type of coordination 1, Iq = 65 kA				
 of full range R fuse link for semiconductor protection usable up to 690 V 	<u>3NE1227-0;</u> Type of coordination 2, Iq = 65 kA				
 of back-up R fuse link for semiconductor protection usable up to 690 V 	<u>3NE3334-0B;</u> Type of coordination 2, Iq = 65 kA				
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				
 CSA approval 	Yes				
product component					
HMI-High Feature	No				
 is supported HMI-Standard 	Yes				
 is supported HMI-High Feature 	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					
 for main current circuit 	100 ms				
 for control circuit 	100 ms				
insulation voltage 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	1 800 V				
service factor	1				
surge voltage resistance rated value	6 kV				
maximum permissible voltage for safe isolation					
 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 according to IEC 60947-4-2	AC 53a				
reference code according to IEC 81346-2	Q				
Substance Prohibitance (Date)	02/15/2018				
product function					
• ramp-up (soft starting)	Yes				
• ramp-down (soft stop)	Yes				
Soft Torque	Yes				
adjustable current limitation	Yes				
pump ramp down	Yes				
intrinsic device protection	Yes				
motor overload protection	Yes; Electronic motor overload protection No				
 evaluation of thermistor motor protection inside-delta circuit 	No 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 configurable 	Yes				
PROFlenergy	Yes; in connection with the PROFINET Standard communication				
	module				
 firmware update 	Yes				
removable terminal for control circuit	Yes				
 removable terminal for control circuit torque control 	Yes No				
removable terminal for control circuit	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature				
 removable terminal for control circuit torque control analog output 	Yes No				
removable terminal for control circuit torque control analog output Power Electronics	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature				
removable terminal for control circuit torque control analog output Power Electronics operational current	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)				
removable terminal for control circuit torque control analog output Power Electronics	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)				
removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)				
removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A				
removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A				
removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value at 40 °C rated value 	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A 248 A				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value 	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A 248 A 222 A				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value at 40 °C rated value at 40 °C rated value at 50 °C rated value at 60 °C rated value 	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A 248 A 222 A				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value at 40 °C rated value at 60 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value 	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A 248 A 222 A 204 A				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value 	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 128 A 118 A 248 A 222 A 204 A 200 600 V				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value operating voltage at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage 	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 60 °C rated value at 60 °C rated value at 60 °C rated value at si side-delta circuit rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 %				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 60 °C rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 % 10 % -15 %				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 60 °C rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit 	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V 200 600 V -15 % 10 %				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V 200 600 V 15 % 10 % -15 %				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value perating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value 	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 %				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 60 °C rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors at 230 V at 40 °C rated value	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 %				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 50 °C rated value at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit at 230 V at 40 °C rated value at 230 V at 40 °C rated value at 230 V at 40 °C rated value 	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 %				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value operational current at inside-delta circuit at 60 °C rated value operating voltage rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit at 230 V at 40 °C rated value at 230 V at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value 	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % 10 %				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value at 40 °C rated value at 60 °C rated value at 20 °C rated value at 230 V at 40 °C rated value at 400 V at 40 °C rated value at 400 V at 40 °C rated value at 400 °C rated value at 400 °C rated value at 400 °C rated value 	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % 10 %				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 50 °C rated value at 60 °C rated value at 20 °C rated value at 230 V at 40 °C rated value at 400 V at 40 °C rated value at 500 V at 40 °C rated value at 500 V at 40 °C rated value at 500 V at 40 °C rated value 	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % 10 %				
 removable terminal for control circuit torque control analog output Power Electronics operational current at 40 °C rated value at 50 °C rated value at 60 °C rated value at 40 °C rated value at 40 °C rated value at 60 °C rated value at 20 °C rated value at 230 V at 40 °C rated value at 400 V at 40 °C rated value at 400 V at 40 °C rated value at 400 °C rated value at 400 °C rated value at 400 °C rated value 	Yes No Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI) 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % 10 %				

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 	68 A
at rotary coding switch on switch position 2	73 A
 at rotary coding switch on switch position 3 at rotary coding switch on switch position 4 	78 A 83 A
 at rotary coding switch on switch position 4 at rotary coding switch on switch position 5 	88 A
 at rotary coding switch on switch position 5 at rotary coding switch on switch position 6 	93 A
 at rotary coding switch on switch position 0 at rotary coding switch on switch position 7 	98 A
 at rotary coding switch on switch position 8 	103 A
 at rotary coding switch on switch position 9 	108 A
 at rotary coding switch on switch position 10 	113 A
 at rotary coding switch on switch position 11 	118 A
 at rotary coding switch on switch position 12 	123 A
 at rotary coding switch on switch position 13 	128 A
 at rotary coding switch on switch position 14 	133 A
 at rotary coding switch on switch position 15 	138 A
 at rotary coding switch on switch position 16 	143 A
• minimum	68 A
djustable motor current	
• for inside-delta circuit at rotary coding switch on switch position 1	118 A
 for inside-delta circuit at rotary coding switch on switch position 2 for inside delta circuit at rotary coding switch on 	126 A
 for inside-delta circuit at rotary coding switch on switch position 3 for inside-delta circuit at rotary coding switch on 	135 A 144 A
 for inside-delta circuit at rotary coding switch on switch position 4 for inside-delta circuit at rotary coding switch on 	144 A 152 A
 switch position 5 for inside-delta circuit at rotary coding switch on 	161 A
switch position 6 • for inside-delta circuit at rotary coding switch on	170 A
switch position 7 • for inside-delta circuit at rotary coding switch on	178 A
switch position 8for inside-delta circuit at rotary coding switch on	187 A
switch position 9 • for inside-delta circuit at rotary coding switch on	196 A
switch position 10for inside-delta circuit at rotary coding switch on	204 A
switch position 11for inside-delta circuit at rotary coding switch on	213 A
 switch position 12 for inside-delta circuit at rotary coding switch on 	222 A
 switch position 13 for inside-delta circuit at rotary coding switch on switch position 14 	230 A
 for inside-delta circuit at rotary coding switch on switch position 15 	239 A
 for inside-delta circuit at rotary coding switch on switch position 16 	248 A
• at inside-delta circuit minimum	118 A
inimum load [%]	15 %; Relative to smallest settable le
ower loss [W] for rated value of the current at AC	
• at 40 °C after startup	55 W
• at 50 °C after startup	50 W
• at 60 °C after startup	47 W
 ower loss [W] at AC at current limitation 350 % at 40 °C during startup 	2 127 W
 at 40 °C during startup at 50 °C during startup 	2 127 W 1 807 W
 at 50 °C during startup at 60 °C during startup 	1 605 W
ntrol circuit/ Control	
ype of voltage of the control supply voltage	AC
control supply voltage at AC	
• at 50 Hz	110 250 V

• at 60 Hz	110 250 V				
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %				
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %				
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %				
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %				
control supply voltage frequency	50 60 Hz				
relative negative tolerance of the control supply	-10 %				
voltage frequency					
relative positive tolerance of the control supply voltage frequency	10 %				
control supply current in standby mode rated value	30 mA				
holding current in bypass operation rated value	75 mA				
inrush current peak at application of control supply voltage	12.2 A				
maximum					
duration of inrush current peak at application of control supply voltage	2.2 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 digital outputs	3				
 not parameterizable 	2				
digital output version	2 normally-open contacts (NO) / 1 changeover contact (CO)				
number of analog outputs	1				
switching capacity current of the relay outputs					
 at AC-15 at 250 V rated value 	3 A				
 at DC-13 at 24 V rated value 	1 A				
Installation/ mounting/ dimensions					
Installation/ mounting/ dimensions mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting				
	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back				
mounting position	surface +/- 22.5° tiltable to the front and back				
mounting position fastening method height width	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm				
mounting position fastening method height width depth	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm				
mounting position fastening method height width	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging <u>Connections/ Terminals</u> type of electrical connection • for main current circuit	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging <u>Connections/ Terminals</u> type of electrical connection • for main current circuit • for control circuit	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm				
mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards backwards downwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²)				
mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connection bar maximum type of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²) 2x (25 120 mm ²)				
mounting position fastening method height width depth required spacing with side-by-side mounting	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²) 2x (0.25 1.5 mm ²)				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • backwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²) 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²)				
mounting position fastening method height width depth required spacing with side-by-side mounting	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²) 2x (0.25 1.5 mm ²)				
 mounting position fastening method height width depth required spacing with side-by-side mounting forwards backwards upwards downwards at the side weight without packaging Connections/ Terminals type of electrical connection for main current circuit for control circuit width of connectable conductor cross-sections for DIN cable lug for main contacts stranded for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections for control circuit solid for control circuit solid for control circuit finely stranded with core end processing at AWG cables for control circuit solid at AWG cables for control circuit finely stranded with 	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²) 2x (0.25 1.5 mm ²) 2x (0.25 1.5 mm ²)				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²) 2x (25 1.5 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16)				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing wire length	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²) 2x (25 120 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 2x (24 16)				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit solid • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing wire length • between soft starter and motor maximum	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²) 2x (25 120 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 2x (24 16)				
mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards • at the side weight without packaging Connections/ Terminals type of electrical connection • for main current circuit • for control circuit width of connection bar maximum type of connectable conductor cross-sections • for DIN cable lug for main contacts stranded • for DIN cable lug for main contacts finely stranded type of connectable conductor cross-sections • for control circuit solid • for control circuit solid • for control circuit finely stranded with core end processing • at AWG cables for control circuit solid • at AWG cables for control circuit solid • at AWG cables for control circuit finely stranded with core end processing wire length	surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection spring-loaded terminals 25 mm 2x (16 95 mm ²) 2x (25 120 mm ²) 2x (0.25 1.5 mm ²) 2x (24 16) 2x (24 16)				

 for main contacts with screw-type terminals 	10 14 N·m				
 for auxiliary and control contacts with screw-type 	0.8 1.2 N·m				
terminals					
tightening torque [lbf·in]	80 121 lbf.in				
 for main contacts with screw-type terminals for auxiliant and control contracts with acrow type 	89 124 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 according to IEC 60721 	3K6 (no ice formation, only occasional condensation), 3C3 (no salt				
 during storage according to IEC 60721 	mist), 3S2 (sand must not get into the devices), 3M6 1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must				
	not get inside the devices), 1M4				
 during transport according 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				
Modbus 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: 3VA52, max. 250 A; Iq = 10 kA				
 — usable for High Faults at 460/480 V according to UL 	Siemens type: 3VA52, max. 250 A; lq max = 65 kA				
 — usable for Standard Faults at 460/480 V at inside-delta circuit according to UL 	Siemens type: 3VA52, max. 250 A; Iq = 10 kA				
 — usable for High Faults at 460/480 V at inside- delta circuit according to UL 	Siemens type: 3VA52, max. 250 A; Iq max = 65 kA				
 — usable for Standard Faults at 575/600 V according to UL 	Siemens type: 3VA52, max. 250 A; Iq = 10 kA				
 — usable for Standard Faults at 575/600 V at inside-delta circuit according to UL 	Siemens type: 3VA52, max. 250 A; Iq = 10 kA				
of the fuse					
 — usable for Standard Faults up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 350 A; lq = 10 kA				
 — usable for High Faults up to 575/600 V according to UL 	Type: Class J / L, max. 350 A; Iq = 100 kA				
 — usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class RK5 / K5, max. 350 A; lq = 10 kA				
 usable for High Faults at inside-delta circuit up to 575/600 V according to UL 	Type: Class J / L, max. 350 A; lq = 100 kA				
operating power [hp] for 3-phase motors					
• at 200/208 V at 50 °C rated value	40 hp				
• at 220/230 V at 50 °C rated value	40 hp				
 at 460/480 V at 50 °C rated value at 575/600 V at 50 °C rated value 	100 hp				
 at 575/600 V at 50 °C rated value at 200/208 V at inside-delta circuit at 50 °C rated 	125 hp 75 hp				
value					
at 220/230 V at inside-delta circuit at 50 °C rated value a at 460/480 V at inside delta circuit at 50 °C rated	75 hp				
at 460/480 V at inside-delta circuit at 50 °C rated value a at 575/600 V at inside delta circuit at 50 °C rated	150 hp				
at 575/600 V at inside-delta circuit at 50 °C rated value	200 hp				
contact rating of auxiliary contacts according to UL	R300-B300				
Safety related data					

protection class IP on the front according to IEC 60529		IP00; IF	IP00; IP20 with cover			
touch protection on the front according to IEC 60529 electromagnetic compatibility			-	afe, for vertical conta rdance with IEC 6094	ict from the front with c	cover
Certificates/ approvals						
General Product Appro	oval					EMC
		<u>Confirmatio</u>	<u>on</u>		EAC	RCM
Declaration of Conform	nity	Test Certifica	ates	Marine / Shipping		
UK CA	CE EG-Konf.	<u>Type Test Cer</u> ates/Test Rep		ABS	B UREAU VERITAS	Lloyd's Register uis
Marine / Shipping o	ther					
PRS	<u>Confirmation</u>					
Further information	oadcenter (Catal	ogs Brochures	<u> </u>			
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=3RW5235-2AC15						
Cax online generator http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5235-2AC15 Samias Support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5235-2AC15						

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5235-2AC15

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5235-2AC15&lang=en

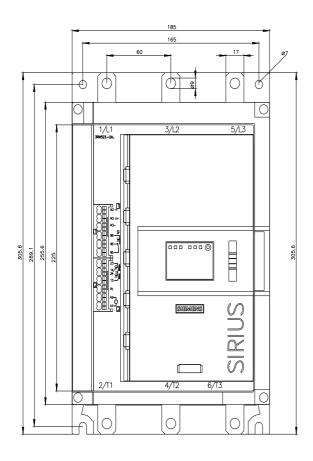
Characteristic: Tripping characteristics, I²t, Let-through current

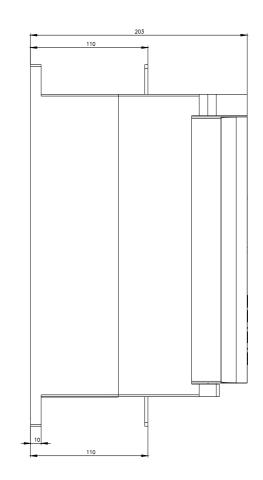
https://support.industry.siemens.com/cs/ww/en/ps/3RW5235-2AC15/char

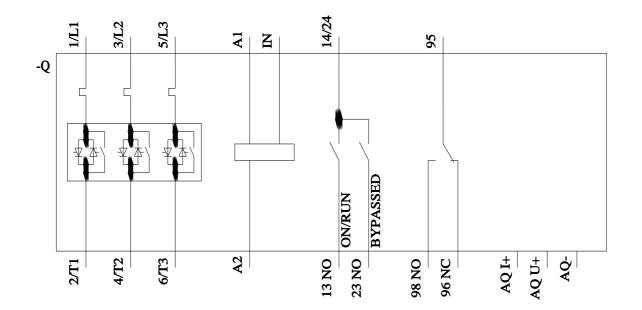
Characteristic: Installation altitude

http://www.automation.siemens.com/bilddb/index.aspx?view=Search&mlfb=3RW5235-2AC15&objecttype=14&gridview=view1 Simulation Tool for Soft Starters (STS)

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







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