SIEMENS

Data sheet 3RW5235-6AC05



SIRIUS soft starter 200-600 V 143 A, 24 V AC/DC Screw terminals Analog output

product brand name product category product designation product type designation manufacturer's article number

- of standard HMI module usable
- of high feature HMI module usable
- of communication module PROFINET standard usable
- of communication module PROFIBUS usable
- of communication module Modbus TCP usable
- of communication module Modbus RTU usable
- of communication module Ethernet/IP
- of circuit breaker usable at 400 V
- of circuit breaker usable at 400 V at inside-delta circuit
- of the gG fuse usable up to 690 V
- of the gG fuse usable at inside-delta circuit up to 500 V
- of full range R fuse link for semiconductor protection usable up to 690 V
- \bullet of back-up R fuse link for semiconductor protection usable up to 690 V

SIRIUS

Hybrid switching devices

Soft starter

3RW52

3RW5980-0HS00

3RW5980-0HF00

3RW5980-0CS00

3RW5980-0CP00

3RW5980-0CT00

3RW5980-0CR00

3RW5980-0CE00

<u>3VA2220-7MN32-0AA0</u>; Type of coordination 1, Iq = 65 kA, CLASS 10 <u>3VA2325-7MN32-0AA0</u>; Type of coordination 1, Iq = 65 kA, CLASS 10

3NA3244-6; Type of coordination 1, Iq = 65 kA

3NA3244-6; Type of coordination 1, Iq = 65 kA

3NE1227-0; Type of coordination 2, Iq = 65 kA

3NE3334-0B; Type of coordination 2, Iq = 65 kA

General technical data

starting voltage [%]

stopping voltage [%]

start-up ramp time of soft starter current limiting value [%] adjustable

certificate of suitability

- CE marking
- UL approval
- CSA approval

product component

- HMI-High Feature
- is supported HMI-Standard
- is supported HMI-High Feature

product feature integrated bypass contact system number of controlled phases

trip class

buffering time in the event of power failure

- for main current circuit
- for control circuit

insulation voltage rated value

30 ... 100 %

50 %; non-adjustable

0 ... 20 s

130 ... 700 %

Yes

Yes

Yes

No

Yes

Yes

Yes

CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2

100 ms

100 ms

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
evaluation of thermistor motor protection	No
• inside-delta circuit	Yes
auto-RESET	Yes
• manual RESET	Yes
• remote reset	Yes; By turning off the control supply voltage
communication function constitute management value display.	Yes
operating measured value display	Yes; Only in conjunction with special accessories
error logbookvia software parameterizable	Yes; Only in conjunction with special accessories No
via software parameterizable via software configurable	Yes
PROFlenergy	Yes: in connection with the PROFINET Standard communication
• Fixor lenergy	module
firmware update	Yes
firmware updateremovable terminal for control circuit	Yes Yes
 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 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)
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 50 °C rated value at 60 °C rated value operational current 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
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	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 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 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 operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value 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
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 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 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 at inside-delta circuit 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
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 at inside-delta circuit rated value rated value at inside-delta circuit rated value 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 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 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 at 60 °C rated value	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 %
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 operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value	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 %
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 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 at 60 °C rated value at 60 °C rated value at inside-delta circuit rated value rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative positive 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	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 % 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 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 at 60 °C rated value at 60 °C 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	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 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 at 60 °C rated value at 60 °C rated value at inside-delta circuit rated value rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage 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 at 230 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 -15 % 10 % -15 % 10 % 37 kW 75 kW
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 operational current at inside-delta circuit at 40 °C rated value at 50 °C rated value at 60 °C rated value at 60 °C rated value at 60 °C rated value at inside-delta circuit rated value rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage 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 at 230 V at 40 °C rated value at 400 V at 40 °C rated value	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 % 10 % 37 kW 75 kW
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 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 at 60 °C rated value at inside-delta circuit rated value rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage 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 at 230 V at inside-delta circuit 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 -15 % 10 % -15 % 10 % 37 kW 75 kW 75 kW 75 kW 132 kW
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 at inside-delta circuit rated value rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage 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 at 400 V at inside-delta circuit at 40 °C rated value at 400 V at inside-delta circuit 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 -15 % 10 % -15 % 10 % 37 kW 75 kW 75 kW 75 kW 132 kW 90 kW
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 50 °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 at 60 °C rated value at inside-delta circuit rated value rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage relative positive tolerance of the operating voltage 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 at 230 V at inside-delta circuit at 40 °C rated value at 400 V at inside-delta circuit at 40 °C rated value at 500 V at 40 °C rated value at 500 V at inside-delta circuit at 40 °C rated value at 500 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 -15 % 10 % -15 % 10 % 37 kW 75 kW 75 kW 75 kW 132 kW 90 kW 160 kW
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 at inside-delta circuit rated value rated value at inside-delta circuit rated value relative negative tolerance of the operating voltage 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 at 400 V at inside-delta circuit at 40 °C rated value at 400 V at inside-delta circuit 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 -15 % 10 % -15 % 10 % 37 kW 75 kW 75 kW 75 kW 132 kW 90 kW

relative negative tolerance of the operating frequency	-10 %
relative negative tolerance of the operating frequency	10 %
adjustable motor current	10 76
•	68 A
 at rotary coding switch on switch position 1 at rotary coding switch on switch position 2 	73 A
 at rotary coding switch on switch position 3 	78 A
at rotary coding switch on switch position 4 at rotary coding switch on switch position 4	83 A
at rotary coding switch on switch position 5	88 A
at rotary coding switch on switch position 6 at rotary coding switch on switch position 6	93 A
 at rotary coding switch on switch position 7 	98 A
 at rotary coding switch on switch position 7 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
adjustable motor current	
for inside-delta circuit at rotary coding switch on	118 A
switch position 1	
for inside-delta circuit at rotary coding switch on	126 A
switch position 2	405.4
 for inside-delta circuit at rotary coding switch on switch position 3 	135 A
for inside-delta circuit at rotary coding switch on	144 A
switch position 4	177 A
for inside-delta circuit at rotary coding switch on	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 switch position 7 	170 A
for inside-delta circuit at rotary coding switch on	178 A
switch position 8	
for 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 10	204.4
 for inside-delta circuit at rotary coding switch on switch position 11 	204 A
for 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	230 A
switch position 14	220 A
 for inside-delta circuit at rotary coding switch on switch position 15 	239 A
for inside-delta circuit at rotary coding switch on	248 A
switch position 16	
at inside-delta circuit minimum	118 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 	55 W
 at 50 °C after startup 	50 W
 at 60 °C after startup 	47 W
power loss [W] at AC at current limitation 350 %	
 at 40 °C during startup 	2 127 W
 at 50 °C during startup 	1 807 W
at 60 °C during startup	1 605 W
Control circuit/ Control	
type of voltage of the control supply voltage	AC/DC
control supply voltage at AC	
at 50 Hz rated value	24 V

 at 60 Hz rated value 	24 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply	-20 %
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	-10 %
voltage frequency	-10 /0
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	-20 %
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	380 mA
inrush current peak at application of control supply voltage	3.3 A
maximum	0.071
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 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	
mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting
	surface +/- 22.5° tiltable to the front and back
fastening method	screw fixing
height	
-	306 mm
width	306 mm 185 mm
_	
width	185 mm
width depth	185 mm
width depth required spacing with side-by-side mounting	185 mm 203 mm
width depth required spacing with side-by-side mounting • forwards	185 mm 203 mm 10 mm
width depth required spacing with side-by-side mounting • forwards • backwards	185 mm 203 mm 10 mm 0 mm
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm 75 mm
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection screw-type terminals
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection screw-type terminals 25 mm
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection screw-type terminals 25 mm 2x (16 95 mm²)
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection screw-type terminals 25 mm
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection screw-type terminals 25 mm 2x (16 95 mm²) 2x (25 120 mm²)
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection screw-type terminals 25 mm 2x (16 95 mm²) 2x (25 120 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection screw-type terminals 25 mm 2x (16 95 mm²) 2x (25 120 mm²)
width depth required spacing with side-by-side mounting	185 mm 203 mm 10 mm 0 mm 100 mm 75 mm 5 mm 6.6 kg busbar connection screw-type terminals 25 mm 2x (16 95 mm²) 2x (25 120 mm²) 1x (0.5 4.0 mm²), 2x (0.5 2.5 mm²)

wire length	000
between soft starter and motor maximum	800 m 100 m
at the digital inputs at AC maximumat the digital inputs at DC maximum	1 000 m
tightening torque	1 000 111
for main contacts with screw-type terminals	10 14 N·m
for namicontacts with screw-type terminals for auxiliary and control contacts with screw-type	0.8 1.2 N·m
terminals	0.0 1.2 14 111
tightening torque [lbf·in]	
 for main contacts with screw-type terminals 	89 124 lbf·in
 for auxiliary and control contacts with screw-type 	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
during a stage and the same	above
during storage and transport	-40 +80 °C
environmental category	3K6 (no ice formation, only accessional condensation), 2C2 (no self-
 during operation according 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 according to IEC 60721 	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must
adding to 120 out 21	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
	. 65
UL/CSA ratings	
UL/CSA ratings manufacturer's article number	
UL/CSA ratings manufacturer's article number • of circuit breaker	
uL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
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
uL/CSA ratings manufacturer's article number • of circuit breaker — usable for Standard Faults at 460/480 V	
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	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
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	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA
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 — usable for High Faults at 460/480 V at inside-	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
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 — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
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 — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA
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 — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at insidedelta circuit according to UL — usable for Standard Faults at 575/600 V according to UL	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
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 — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for High Faults at 460/480 V at inside-delta circuit according to UL — usable for Standard Faults at 575/600 V	Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA Siemens type: 3VA52, max. 250 A; Iq = 10 kA Siemens type: 3VA52, max. 250 A; Iq max = 65 kA
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• 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

IP00; IP20 with cover

finger-safe, for vertical contact from the front with cover

touch protection on the front according to IEC 60529 electromagnetic compatibility

in accordance with IEC 60947-4-2

Certificates/ approvals

General Product Approval

EMC





Confirmation







Declaration of Conformity

Test Certificates

Marine / Shipping





Type Test Certificates/Test Report







Marine / Shipping

other



Confirmation

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=3RW5235-6AC05

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5235-6AC05

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

https://support.industry.siemens.com/cs/ww/en/ps/3RW5235-6AC05

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

http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5235-6AC05&lang=en

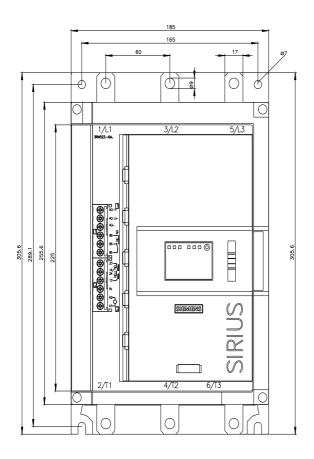
Characteristic: Tripping characteristics, I2t, Let-through current

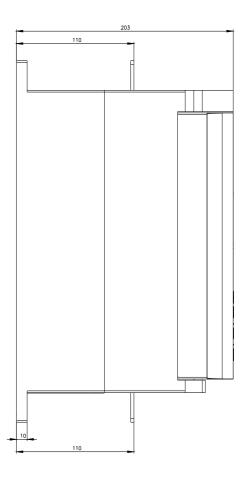
https://support.industry.siemens.com/cs/ww/en/ps/3RW5235-6AC05/char

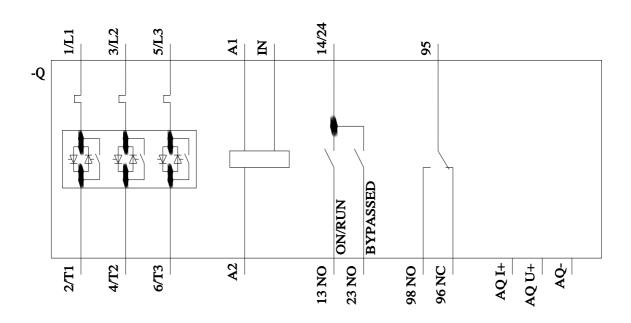
Characteristic: Installation altitude

Simulation Tool for Soft Starters (STS)

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







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