SIEMENS

product brand name

Data sheet 3RW5235-6AC14

SIRIUS



SIRIUS soft starter 200-480 V 143 A, 110-250 V AC Screw terminals Analog output

product brand name	SINIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW52
manufacturer's article number	
 of standard HMI module usable 	3RW5980-0HS00
 of high feature HMI module usable 	3RW5980-0HF00
 of communication module PROFINET standard usable 	3RW5980-0CS00
 of communication module PROFIBUS usable 	3RW5980-0CP00
 of communication module Modbus TCP usable 	3RW5980-0CT00
 of communication module Modbus RTU usable 	3RW5980-0CR00
 of communication module Ethernet/IP 	3RW5980-0CE00
 of circuit breaker usable at 400 V 	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
• of circuit breaker usable at 400 V at inside-delta circuit	3VA2325-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
 of the gG fuse usable up to 690 V 	3NA3244-6; Type of coordination 1, Iq = 65 kA
• of the gG fuse usable at inside-delta circuit up to 500 V	3NA3244-6; Type of coordination 1, Iq = 65 kA
 of full range R fuse link for semiconductor protection usable up to 690 V 	3NE1227-0; Type of coordination 2, Iq = 65 kA
 of back-up R fuse link for semiconductor protection usable up to 690 V 	3NE3334-0B; 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	1 400 V
service factor	1
	6 kV
surge voltage resistance rated value	0 KV
maximum permissible voltage for protective separation	600 V
between main and auxiliary circuit shock resistance	
vibration resistance	15 g / 11 ms, from 12 g / 11 ms with potential contact lifting
	15 mm to 6 Hz; 2g to 500 Hz AC 53a
utilization category according to IEC 60947-4-2 reference code according to IEC 81346-2	Q
Substance Prohibitance (Date)	02/15/2018
	02/15/2016
product function	Yes
• ramp-down (soft start)	Yes
• ramp-down (soft stop)	Yes
Soft Torque adjustable current limitation	Yes
adjustable current limitation	
pump ramp down intrinsic device protection	Yes Yes
intrinsic device protection motor overload protection	
motor overload protection evaluation of thermister meter protection	Yes; Electronic motor overload protection No
 evaluation of thermistor motor protection inside-delta circuit 	Yes
	Yes
• auto-RESET	Yes
manual RESET remote reset	
	Yes; By turning off the control supply voltage Yes
communication function constraint measured value display	
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 configurable	Yes
PROFlenergy	Yes; in connection with the PROFINET Standard communication module
firmware update	Yes
removable terminal for control circuit	Yes
torque control	No
analog output	Yes; 4 20 mA (default) / 0 10 V (parameterizable with High Feature HMI)
Power Electronics	roo, riii 20 iii (doldali) ro iii 10 1 (paraiiotoi 2220 iii 11 iigi rodalio riiii)
operational current	
at 40 °C rated value	143 A
at 50 °C rated value	128 A
• at 60 °C rated value	118 A
operational current at inside-delta circuit	
at 40 °C rated value	248 A
• at 50 °C rated value	222 A
at 60 °C rated value	204 A
operating voltage	
• rated value	200 480 V
at inside-delta circuit rated value	200 480 V
relative negative tolerance of the operating voltage	-15 %
relative positive tolerance of the operating voltage	-13 /0
	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	
	10 %
inside-delta circuit relative positive tolerance of the operating voltage at	10 % -15 %
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	10 % -15 %
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit operating power for 3-phase motors	10 % -15 % 10 %
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	10 % -15 % 10 %
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	10 % -15 % 10 % 37 kW 75 kW
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 40 °C rated value	10 % -15 % 10 % 37 kW 75 kW
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 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value	10 % -15 % 10 % 37 kW 75 kW 75 kW
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 40 °C rated value • at 400 V at inside-delta circuit at 40 °C rated value Operating frequency 1 rated value	10 % -15 % 10 % 37 kW 75 kW 75 kW 132 kW

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• for inside-delta circuit at rotary coding switch on switch position 5 • for inside-delta circuit at rotary coding switch on switch position 6 • for inside-delta circuit at rotary coding switch on switch position 6 • for inside-delta circuit at rotary coding switch on switch position 6 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at a for inside-delta circuit at rotary coding switch on switch position 16 • at a for inside-delta circuit at rotary coding switch on switch position 16 • at a for inside-delta circuit at rotary coding switch on switch position 16 • at a for inside-delta circuit at rotary coding switch on switch position 16 • at a for inside-delta circuit at rotary coding switch on switch position 16 • at 10 °C after startup • at 40 °C after startup • at 60 °C atter startup • at 60 °C atter startup • at 60 °C during startup		
e for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at a do "C after startup • at 50 "C after startup • at 60 "C after startup • at 60 "C after startup • at 60 "C during startup		135 A
• for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 8 • for inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at a 44 of C after startup • at 40 of C after startup • at 40 of C after startup • at 60 of C after startup • at 60 of C after startup • at 60 of C during startup		144 A
position 6 • for inside-delta circuit at rotary coding switch on switch position 7 • for inside-delta circuit at rotary coding switch on switch position 8 • for inside-delta circuit at rotary coding switch on switch position 8 • for inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at a for Cafter startup • at 40 °C after startup • at 40 °C after startup • at 60 °C after startup • at 60 °C after startup • at 60 °C during startup		152 A
position 7 • for inside-delta circuit at rotary coding switch on switch position 8 • for inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 16 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit minimum 118 A minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup • at 60 °C after startup • at 60 °C during startup		161 A
position 8 • for inside-delta circuit at rotary coding switch on switch position 9 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at at inside-delta circuit minimum 118 A minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup • at 60 °C after startup • at 60 °C during startup	position 7	
oposition 9 • for inside-delta circuit at rotary coding switch on switch position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit minimum 118 A minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup • at 60 °C during startup	position 8	
position 10 • for inside-delta circuit at rotary coding switch on switch position 11 • for inside-delta circuit at rotary coding switch on switch position 12 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 13 • for inside-delta circuit at rotary coding switch on switch position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit minimum 118 A minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup • at 40 °C during startup • at 40 °C during startup • at 50 °C during startup • at 50 °C during startup • at 60 °C during startup	position 9	
position 11	position 10	
opsition 12 of or inside-delta circuit at rotary coding switch on switch position 13 of or inside-delta circuit at rotary coding switch on switch position 14 of or inside-delta circuit at rotary coding switch on switch position 15 of or inside-delta circuit at rotary coding switch on switch position 15 of or inside-delta circuit at rotary coding switch on switch position 16 of at inside-delta circuit minimum 118 A minimum load [%] power loss [W] for rated value of the current at AC of at 40 °C after startup of at 60 °C after startup of C during startup of C	position 11	
or inside-delta circuit at rotary coding switch on switch position 14 or for inside-delta circuit at rotary coding switch on switch position 15 or inside-delta circuit at rotary coding switch on switch position 16 or inside-delta circuit at rotary coding switch on switch position 16 or inside-delta circuit minimum	position 12	
position 14 • for inside-delta circuit at rotary coding switch on switch position 15 • for inside-delta circuit at rotary coding switch on switch position 16 • at inside-delta circuit minimum 118 A minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup • at 60 °C during startup	position 13	
position 15 • for inside-delta circuit at rotary coding switch on 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 • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup • at 50 °C during startup • at 60 °C during startup	position 14	
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 • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup • at 50 °C during startup • at 60 °C during startup	position 15	
minimum load [%] power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup • at 50 °C during startup • at 60 °C during startup	position 16	
power loss [W] for rated value of the current at AC • at 40 °C after startup • at 50 °C after startup • at 60 °C after startup power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup • at 50 °C during startup • at 60 °C during startup		
at 40 °C after startup at 50 °C after startup at 60 °C after startup 47 W power loss [W] at AC at current limitation 350 % at 40 °C during startup 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 control supply voltage at AC		10 /u, Neiduve to sitialiest settable le
at 50 °C after startup at 60 °C after startup power loss [W] at AC at current limitation 350 % at 40 °C during startup at 50 °C during startup at 60 °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 control supply voltage at AC		55 W
at 60 °C after startup power loss [W] at AC at current limitation 350 % at 40 °C during startup at 50 °C during startup at 60 °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 control supply voltage at AC AC	·	
power loss [W] at AC at current limitation 350 % • at 40 °C during startup • at 50 °C during startup • at 60 °C during startup 1 807 W Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC	·	
at 40 °C during startup at 50 °C during startup to at 60 °C during startup at 60 °C during startup type of voltage of the control supply voltage control supply voltage at AC control supply voltage at AC		
at 50 °C during startup at 60 °C during startup Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC Control supply voltage at AC		2 127 W
at 60 °C during startup Control circuit/ Control type of voltage of the control supply voltage control supply voltage at AC AC		
type of voltage of the control supply voltage AC Control supply voltage at AC	- '	1 605 W
control supply voltage at AC	Control circuit/ Control	
	type of voltage of the control supply voltage	AC
• at 50 Hz 110 250 V	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 voltage	-10 %
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 by closing the bypass contacts maximum	2.5 A
inrush current peak at application of control supply voltage maximum	12.2 A
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
● at DO-13 at 24 v Tateu Value	
at DC-13 at 24 V rated value Installation/ mounting/ dimensions	
	with vertical mounting surface +/-90° rotatable, with vertical mounting surface
Installation/ mounting/ dimensions mounting position	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back
Installation/ mounting/ dimensions mounting position fastening method	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing
Installation/ mounting/ dimensions mounting position fastening method height	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm
Installation/ mounting/ dimensions mounting position fastening method height width	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting • forwards • backwards • upwards • downwards	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 100 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical 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
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 10 mm 0 mm 100 mm 100 mm
Installation/ mounting/ dimensions 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	with vertical mounting surface +/-90° rotatable, with vertical 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
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 100 mm 100 mm 150 mm 1
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 100 mm 100 mm 150 mm 1
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 100 mm 100 mm 150 mm 1
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 100 mm 100 mm 150 mm 150 mm 5 mm 5 m
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical 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
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 100 mm 100 mm 15 mm 5 mm 5 mm 5 mm 5
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical 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
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 100 mm 100 mm 155 mm 5 mm 5 mm 5 mm
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical 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 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)
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical mounting surface +/- 22.5° tiltable to the front and back screw fixing 306 mm 185 mm 203 mm 100 mm 1
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical 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 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)
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical 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 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) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14)
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical 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 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) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14)
Installation/ mounting/ dimensions mounting position fastening method height width depth required spacing with side-by-side mounting	with vertical mounting surface +/-90° rotatable, with vertical 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 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) 1x (0.5 2.5 mm²), 2x (0.5 1.5 mm²) 1x (20 12), 2x (20 14)

 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]	
 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 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 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 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 	Siemens type: 3VA52, max. 250 A; Iq = 10 kA
to UL	7
 usable for High Faults at 460/480 V according to UL 	Siemens type: 3VA52, max. 250 A; Iq 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; Iq = 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; Iq = 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; Iq = 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	100 hp
• at 200/208 V at inside-delta circuit at 50 °C rated value	75 hp
• at 220/230 V at inside-delta circuit at 50 °C rated value	75 hp
• at 460/480 V at inside-delta circuit at 50 °C rated value	150 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; IP20 with cover
touch protection on the front according to IEC 60529	finger-safe, for vertical contact from the front with cover
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

othe



Confirmation

Further information

Siemens has decided to exit the Russian market (see here).

https://press.siemens.com/global/en/pressrelease/siemens-wind-down-russian-business

Siemens is working on the renewal of the current EAC certificates.

Please contact your local Siemens office on the status of validity of the EAC certification if you intend to import or offer to supply these products to an EAC relevant market (other than the sanctioned EAEU member states Russia or Belarus).

Information on the packaging

https://support.industry.siemens.com/cs/ww/en/view/109813875

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=3RW5235-6AC14

Cax online generator

http://support.automation.siemens.com/WW/CAXorder/default.aspx?lang=en&mlfb=3RW5235-6AC14

 ${\bf Service \& Support\ (Manuals,\ Certificates,\ Characteristics,\ FAQs,...)}$

https://support.industry.siemens.com/cs/ww/en/ps/3RW5235-6AC14

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

 $\underline{\text{http://www.automation.siemens.com/bilddb/cax_de.aspx?mlfb=3RW5235-6AC14\&lang=en}$

Characteristic: Tripping characteristics, I²t, Let-through current

https://support.industry.siemens.com/cs/ww/en/ps/3RW5235-6AC14/char

Characteristic: Installation altitude

 $\underline{\text{http://www.automation.siemens.com/bilddb/index.aspx?view=Search\&mlfb=3RW5235-6AC14\&objecttype=14\&gridview=view1}$

Simulation Tool for Soft Starters (STS)

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







