## SIEMENS

## Data sheet

## 3RW5235-2TC15



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

40 AT				
product brand name	SIRIUS			
product category	Hybrid switching devices			
product designation	Soft starter			
product type designation	3RW52			
manufacturer's article number				
<ul> <li>of standard HMI module usable</li> </ul>	3RW5980-0HS00			
<ul> <li>of high feature HMI module usable</li> </ul>	3RW5980-0HF00			
<ul> <li>of communication module PROFINET standard usable</li> </ul>	3RW5980-0CS00			
<ul> <li>of communication module PROFIBUS usable</li> </ul>	<u>3RW5980-0CP00</u>			
<ul> <li>of communication module Modbus TCP usable</li> </ul>	<u>3RW5980-0CT00</u>			
<ul> <li>of communication module Modbus RTU usable</li> </ul>	<u>3RW5980-0CR00</u>			
<ul> <li>of communication module Ethernet/IP</li> </ul>	<u>3RW5980-0CE00</u>			
<ul> <li>of circuit breaker usable at 400 V</li> </ul>	3VA2220-7MN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10			
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	<u>3VA2325-7MN32-0AA0;</u> Type of coordination 1, Iq = 65 kA, CLASS 10			
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	<u>3NA3244-6;</u> Type of coordination 1, Iq = 65 kA			
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	<u>3NA3244-6;</u> Type of coordination 1, Iq = 65 kA			
<ul> <li>of full range R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NE1227-0;</u> Type of coordination 2, Iq = 65 kA			
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<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> <li>UL approval</li> </ul>	Yes			
<ul> <li>CSA approval</li> </ul>	Yes			
product component				
HMI-High Feature	No			
<ul> <li>is supported HMI-Standard</li> </ul>	Yes			
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes			
product feature integrated bypass contact system	Yes			
number of controlled phases	3			
trip class	CLASS 10A (default) / 10E / 20E; acc. to IEC 60947-4-2			
buffering time in the event of power failure				
<ul> <li>for main current circuit</li> </ul>	100 ms			
<ul> <li>for control circuit</li> </ul>	100 ms			
insulation voltage rated value	600 V			

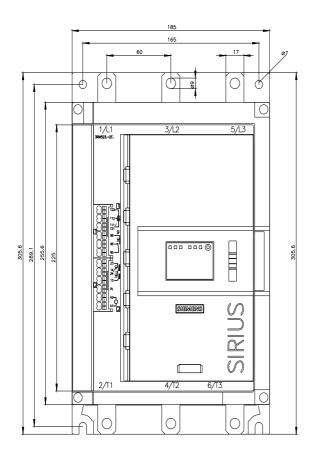
degree of pollution	3, acc. to IEC 60947-4-2		
impulse voltage rated value	6 kV		
blocking voltage of the thyristor maximum	1 800 V		
service factor	1		
	6 kV		
surge voltage resistance rated value			
maximum permissible voltage for safe isolation	C00.1/		
<ul> <li>between main and auxiliary circuit</li> </ul>	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			
•	Yes		
• ramp-up (soft starting)			
<ul> <li>ramp-down (soft stop)</li> </ul>	Yes		
Soft Torque	Yes		
<ul> <li>adjustable current limitation</li> </ul>	Yes		
<ul> <li>pump ramp down</li> </ul>	Yes		
<ul> <li>intrinsic device protection</li> </ul>	Yes		
<ul> <li>motor overload protection</li> </ul>	Yes; Full motor protection (thermistor motor protection and electronic		
	motor overload protection)		
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick		
inside-delta circuit	Yes		
• auto-RESET	Yes		
<ul> <li>manual RESET</li> </ul>	Yes		
remote reset	Yes; By turning off the control supply voltage		
<ul> <li>communication function</li> </ul>	Yes		
<ul> <li>operating measured value display</li> </ul>	Yes; Only in conjunction with special accessories		
error logbook	Yes; Only in conjunction with special accessories		
via software parameterizable	No		
<ul> <li>via software configurable</li> </ul>	Yes		
PROFlenergy	Yes; in connection with the PROFINET Standard communication		
• FROFIEllergy	· ·		
	module		
a firmwara undata	module		
• firmware update	Yes		
<ul> <li>removable terminal for control circuit</li> </ul>	Yes Yes		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> </ul>	Yes Yes No		
<ul> <li>removable terminal for control circuit</li> </ul>	Yes Yes		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> </ul>	Yes Yes No		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul>	Yes Yes No		
removable terminal for control circuit     torque control     analog output Power Electronics	Yes Yes No		
removable terminal for control circuit     torque control     analog output  Power Electronics  operational current     at 40 °C rated value	Yes Yes No No 143 A		
removable terminal for control circuit     torque control     analog output Power Electronics operational current     at 40 °C rated value     at 50 °C rated value	Yes Yes No No 143 A 128 A		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul>	Yes Yes No No 143 A		
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<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> </ul>	Yes Yes No No 143 A 128 A 118 A 248 A		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> </ul>	Yes Yes No No 143 A 128 A 118 A 248 A 222 A		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> </ul>	Yes Yes No No 143 A 128 A 118 A 248 A		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> </ul>	Yes Yes No No 143 A 128 A 118 A 248 A 222 A		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> <li>operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul> </li>	Yes Yes No No 143 A 128 A 118 A 248 A 222 A		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> <li>at 40 °C rated value</li> <li>at 60 °C rated value</li> <li>at 50 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul>	Yes Yes No No 143 A 128 A 118 A 248 A 222 A 204 A		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul> <li>operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> </li>	Yes Yes No No 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> <li>operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul> </li> <li>operational current at inside-delta circuit <ul> <li>at 60 °C rated value</li> </ul> </li>	Yes Yes No No No 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 %		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> <li>operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul> </li> <li>operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>rated value</li> <li>at inside-delta circuit rated value</li> <li>relative negative tolerance of the operating voltage</li> </ul></li>	Yes Yes No No No 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V 200 600 V -15 % 10 %		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> <li>operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul> </li> <li>operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> </ul></li>	Yes Yes No No No 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 %		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>operational current at inside-delta circuit</li> <li>at 60 °C rated value</li> <li>relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit</li>	Yes Yes No No No 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V -15 % 10 % -15 %		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> <li>operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul> </li> <li>operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>relative negative tolerance of the operating voltage</li> <li>relative negative tolerance of the operating voltage</li> </ul></li>	Yes Yes No No No 143 A 128 A 118 A 248 A 222 A 204 A 200 600 V 200 600 V 200 600 V -15 % 10 %		
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<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> <li>operational current at inside-delta circuit</li> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 20 °C rated value</li> <li>at 230 V at 40 °C rated value</li> <li>at 230 V at 40 °C rated value</li>	Yes Yes No No No 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 %		
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<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> </ul> operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> </ul> operational current at inside-delta circuit <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at inside-delta circuit rated value</li> <li>relative negative tolerance of the operating voltage relative negative tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>relative positive tolerance of the operating voltage at inside-delta circuit</li> <li>at 230 V at 40 °C rated value</li> <li>at 230 V at 40 °C rated value</li> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	Yes Yes No No 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 % 37 kW 75 kW 75 kW 75 kW		
<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 20 °C rated value</li> <li>at 20 °C rated value</li> <li>at 20 °C rated value</li> <li>at 230 V at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> <li>at 500 V at 40 °C rated value</li> <li>at 500 V at 40 °C rated value</li> <li>at 500 V at 40 °C rated value</li> </ul>	Yes Yes No No No 200 248 A 222 A 204 A 200 600 V 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % 10 % -15 % 10 %		
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<ul> <li>removable terminal for control circuit</li> <li>torque control</li> <li>analog output</li> </ul> Power Electronics operational current <ul> <li>at 40 °C rated value</li> <li>at 50 °C rated value</li> <li>at 60 °C rated value</li> <li>at 20 °C rated value</li> <li>at 20 °C rated value</li> <li>at 20 °C rated value</li> <li>at 230 V at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> <li>at 400 V at 40 °C rated value</li> <li>at 500 V at 40 °C rated value</li> <li>at 500 V at 40 °C rated value</li> <li>at 500 V at 40 °C rated value</li> </ul>	Yes Yes No No No 200 248 A 222 A 204 A 200 600 V 200 600 V 200 600 V 200 600 V -15 % 10 % -15 % 10 % -15 % 10 %		

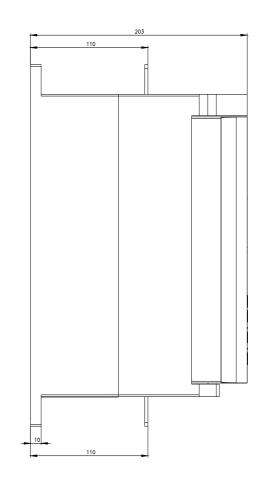
relative percetive televence of the energing frequency	-10 %
relative negative tolerance of the operating frequency relative positive tolerance of the operating frequency	-10 %
adjustable motor current	
at rotary coding switch on switch position 1	68 A
<ul> <li>at rotary coding switch on switch position 2</li> </ul>	73 A
at rotary coding switch on switch position 3	78 A
<ul> <li>at rotary coding switch on switch position 4</li> </ul>	83 A
<ul> <li>at rotary coding switch on switch position 5</li> </ul>	88 A
<ul> <li>at rotary coding switch on switch position 6</li> </ul>	93 A
<ul> <li>at rotary coding switch on switch position 7</li> </ul>	98 A
<ul> <li>at rotary coding switch on switch position 8</li> </ul>	103 A
<ul> <li>at rotary coding switch on switch position 9</li> </ul>	108 A
<ul> <li>at rotary coding switch on switch position 10</li> </ul>	113 A
<ul> <li>at rotary coding switch on switch position 11</li> </ul>	118 A
<ul> <li>at rotary coding switch on switch position 12</li> </ul>	123 A
<ul> <li>at rotary coding switch on switch position 13</li> </ul>	128 A
<ul> <li>at rotary coding switch on switch position 14</li> </ul>	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	110 Δ
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 1</li> <li>for inside delta circuit at rotary coding switch on</li> </ul>	118 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 2</li> <li>for inside delta circuit at rotary coding switch on</li> </ul>	126 A
• for inside-delta circuit at rotary coding switch on switch position 3	135 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 4</li> </ul>	144 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 5</li> </ul>	152 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 6</li> </ul>	161 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 7</li> </ul>	170 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 8</li> </ul>	178 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 9</li> </ul>	187 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 10</li> </ul>	196 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 11</li> </ul>	204 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 12</li> </ul>	213 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 13</li> </ul>	222 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 14</li> </ul>	230 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 15</li> </ul>	239 A
<ul> <li>for inside-delta circuit at rotary coding switch on switch position 16</li> </ul>	248 A
<ul> <li>at inside-delta circuit minimum</li> </ul>	118 A
ninimum 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
oower loss [W] at AC at current limitation 350 %	0.407.11/
• at 40 °C during startup	2 127 W
• at 50 °C during startup	1 807 W
at 60 °C during startup	1 605 W
ontrol circuit/ Control	
type of voltage of the control supply voltage	AC
control supply voltage at AC	110 250.1/
• at 50 Hz	110 250 V

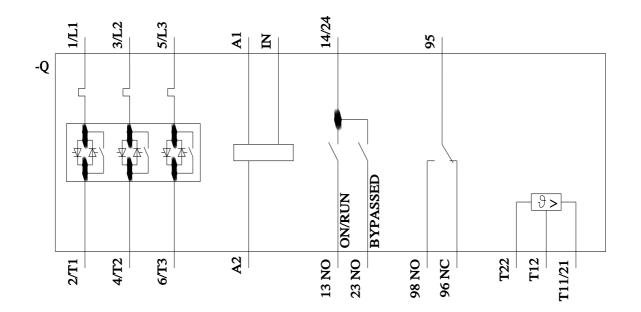
• at 60 Hz	110 250 V
relative negative tolerance of the control supply voltage at AC at 50 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	10 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-15 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	10 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply	-10 %
voltage frequency	-10 /0
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	2.2 ms
supply voltage	Verieler
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	0
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	1A
	IA
Installation/ mounting/ dimensions	
mounting position	with vertical mounting surface $\pm$ /-90° rotatable, with vertical mounting surface $\pm$ /- 22.5° tiltable to the front and back
mounting position	surface +/- 22.5° tiltable to the front and back
mounting position fastening method	surface +/- 22.5° tiltable to the front and back screw fixing
mounting position fastening method height	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	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	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	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	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 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 Connections/ Terminals	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 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 Connections/ Terminals 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 • 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	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 • 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 wire length for thermistor 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 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         • at the side         weight without packaging         Connections/ Terminals         type of electrical connection         • for control circuit         • for control circuit         width of connection bar maximum         wire length for thermistor connection         • with conductor cross-section = 0.5 mm <sup>2</sup> 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 50 m
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         wire length for thermistor connection         • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         • with conductor cross-section = 1.5 mm <sup>2</sup> 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 50 m 150 m
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         wire length for thermistor connection         • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         • with conductor cross-section = 1.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> 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 50 m
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         wire length for thermistor connection         • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         • with conductor cross-section = 1.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> 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 50 m 150 m 250 m
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         wire length for thermistor connection         • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         • with conductor cross-section = 1.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         • 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 50 m 150 m 250 m 2x (16 95 mm <sup>2</sup> )
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         wire length for thermistor connection         • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         • with conductor cross-section = 1.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> 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 50 m 150 m 250 m
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         wire length for thermistor connection         • with conductor cross-section = 0.5 mm <sup>2</sup> maximum         • with conductor cross-section = 1.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         • with conductor cross-section = 2.5 mm <sup>2</sup> maximum         • 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 50 m 150 m 250 m 2x (16 95 mm <sup>2</sup> )
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         wire length for thermistor connection         • with conductor cross-section = 0.5 mm² maximum         • with conductor cross-section = 1.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • mith conductor cross-section = 2.5 mm² maximum         • 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 50 m 150 m 250 m 2x (16 95 mm <sup>2</sup> )
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         wire length for thermistor connection         • with conductor cross-section = 0.5 mm² maximum         • with conductor cross-section = 1.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • for DIN cable lug for main contacts stranded         • 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	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 50 m 150 m 250 m 250 m 2x (16 95 mm <sup>2</sup> ) 2x (25 1.5 mm <sup>2</sup> )
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         wire length for thermistor connection         • with conductor cross-section = 0.5 mm² maximum         • with conductor cross-section = 1.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • for DIN cable lug for main contacts stranded         • for DIN cable lug for main contacts finely 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 50 m 150 m 250 m 2x (16 95 mm <sup>2</sup> ) 2x (25 120 mm <sup>2</sup> )
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         wire length for thermistor connection         • with conductor cross-section = 0.5 mm² maximum         • with conductor cross-section = 1.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • for DIN cable lug for main contacts stranded         • 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	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 50 m 150 m 250 m 250 m 2x (16 95 mm <sup>2</sup> ) 2x (25 1.5 mm <sup>2</sup> )
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         wire length for thermistor connection         • with conductor cross-section = 0.5 mm² maximum         • with conductor cross-section = 1.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • with conductor cross-section = 2.5 mm² maximum         • for DIN cable lug for main contacts stranded         • for DIN cable lug for main contacts stranded         • 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 50 m 150 m 250 m 250 m 250 m 2x (16 95 mm <sup>2</sup> ) 2x (25 1.5 mm <sup>2</sup> ) 2x (0.25 1.5 mm <sup>2</sup> )

wire length			
between soft starter and motor maximum	800 m		
<ul> <li>at the digital inputs at AC maximum</li> </ul>	100 m		
tightening torque			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	10 14 N·m		
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	0.8 1.2 N·m		
terminals			
tightening torque [lbf·in]			
<ul> <li>for main contacts with screw-type terminals</li> </ul>	89 124 lbf·in		
<ul> <li>for auxiliary and control contacts with screw-type terminals</li> </ul>	7 10.3 lbf·in		
Ambient conditions			
	5 000 m: Derating as of 1000 m asso estalog		
installation altitude at height above sea level maximum ambient temperature	5 000 m; Derating as of 1000 m, see catalog		
during operation	-25 +60 °C; Please observe derating at temperatures of 40 °C or		
	above		
<ul> <li>during storage and transport</li> </ul>	-40 +80 °C		
environmental category			
<ul> <li>during operation according to IEC 60721</li> </ul>	3K6 (no ice formation, only occasional condensation), 3C3 (no salt		
	mist), 3S2 (sand must not get into the devices), 3M6		
<ul> <li>during storage according to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4		
<ul> <li>during transport according to IEC 60721</li> </ul>	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)		
EMC emitted interference	acc. to IEC 60947-4-2: Class A		
Communication/ Protocol			
communication module is supported			
PROFINET standard	Yes		
EtherNet/IP	Yes		
Modbus RTU	Yes		
Modbus TCP	Yes		
PROFIBUS	Yes		
UL/CSA ratings			
manufacturer's article number			
<ul> <li>of circuit breaker</li> </ul>			
— usable for Standard Faults at 460/480 V	Siemens type: 3VA52, max. 250 A; lq = 10 kA		
according to UL — usable for High Faults at 460/480 V according	$C_{intrody} = C_{int} = C_{int} + $		
to UL	Siemens type: 3VA52, max. 250 A; lq max = 65 kA		
<ul> <li>usable for Standard Faults at 460/480 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA52, max. 250 A; lq = 10 kA		
— usable for High Faults at 460/480 V at inside- delta circuit according to UL	Siemens type: 3VA52, max. 250 A; lq max = 65 kA		
— usable for Standard Faults at 575/600 V according to UL	Siemens type: 3VA52, max. 250 A; lq = 10 kA		
	Siemens type: 3VA52, max. 250 A; lq = 10 kA		
of the fuse			
<ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </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; lq = 100 kA		
<ul> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class RK5 / K5, max. 350 A; lq = 10 kA		
<ul> <li>— usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> </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	100 hp		
• at 575/600 V at 50 °C rated value	125 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		
<ul> <li>at 575/600 V at inside-delta circuit at 50 °C rated</li> </ul>	200 hp		

value contact rating of auxiliary contacts ac Safety related data	cording to UL R	300-B300		
protection class IP on the front accord 60529	ling to IEC IP	IP00; IP20 with cover		
touch protection on the front accordin electromagnetic compatibility	-	finger-safe, for vertical contact from the front with cover in accordance with IEC 60947-4-2		
Certificates/ approvals				
General Product Approval				EMC
	<u>Confirmation</u>		EHC	RCM
Declaration of Conformity	Test Certificates	Marine / Shipping		
UK CE CA CE	<u>Type Test Certific- ates/Test Report</u>	ABS	BUREAU VERITAS	Lloyd's Register uis
Marine / Shipping other				
Confirmation PRS				
urther information Information- and Downloadcenter (Cat	alogs, Brochures,…)			
https://www.siemens.com/ic10 Industry Mall (Online ordering system https://mall.industry.siemens.com/mall/er Cax online generator http://support.automation.siemens.com/V Service&Support (Manuals, Certificate https://support.industry.siemens.com/cs/	//en/Catalog/product?mlf /W/CAXorder/default.as/ s, Characteristics, FAC /w/en/ps/3RW5235-2TC	<u>px?lang=en&amp;mlfb=3RW5</u> <b>2s,)</b> 1 <u>15</u>		
Image database (product images, 2D c http://www.automation.siemens.com/bild Characteristic: Tripping characteristic	db/cax_de.aspx?mlfb=3F	RW5235-2TC15⟨=er		cros,)
https://support.industry.siemens.com/cs/v Characteristic: Installation altitude http://www.automation.siemens.com/bilde Simulation Tool for Soft Starters (STS	ww/en/ps/3RW5235-2TC db/index.aspx?view=Sea	:15/char	C15&objecttype=14&grid	<u>dview=view1</u>







1/15/2023

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