## SIEMENS

## Data sheet

## 3RW5554-2HA04



SIRIUS soft starter 200-480 V 840 A, 24 V AC/DC Spring-type terminals

Figure similar

product brand name	SIRIUS
product category	Hybrid switching devices
product designation	Soft starter
product type designation	3RW55
manufacturer's article number	
<ul> <li>of high feature HMI module usable</li> </ul>	<u>3RW5980-0HF00</u>
<ul> <li>of communication module PROFINET standard usable</li> </ul>	<u>3RW5980-0CS00</u>
<ul> <li>of communication module PROFINET high-feature usable</li> </ul>	<u>3RW5950-0CH00</u>
<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>	3VA2510-6HN32-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3VA2510-6HN32-0AA0; 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>3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10</u>
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3VA2716-7AB05-0AA0; Type of coordination 1, Iq = 65 kA, CLASS 10
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	2x3NA3365-6; 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>3NB3351-1KK26: Type of coordination 2. Iq = 65 kA</u>
<ul> <li>of back-up R fuse link for semiconductor protection usable up to 690 V</li> </ul>	<u>3NC3343-1U; Type of coordination 2, Iq = 65 kA</u>
General technical data	
starting voltage [%]	20 100 %
stopping voltage [%]	50 50 %
start-up ramp time of soft starter	0 360 s
ramp-down time of soft starter	0 360 s
start torque [%]	10 100 %
stopping torque [%]	10 100 %
torque limitation [%]	20 200 %
current limiting value [%] adjustable	125 800 %
breakaway voltage [%] adjustable	40 100 %
breakaway time adjustable	0 2 s
number of parameter sets	3
accuracy class acc. to IEC 61557-12	5 %

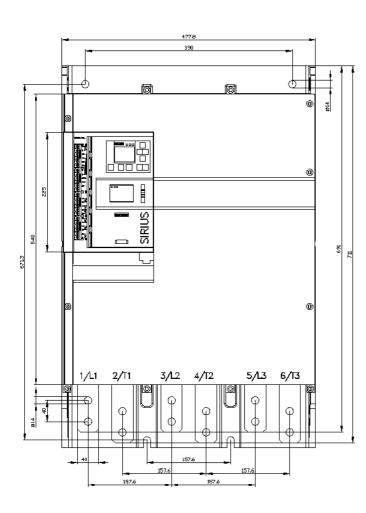
certificate of suitability • CE marking	Yes
5	
UL approval	Yes
CSA approval	Yes
product component	Vee
HMI-High Feature	Yes
is supported HMI-High Feature	Yes
product feature integrated bypass contact system	Yes
number of controlled phases	3 CLASS 404 / 405 (defeult) / 205 / 205; eeg to JSC 60047 4 2
trip class	CLASS 10A / 10E (default) / 20E / 30E; acc. to IEC 60947-4-2 10 60 %
current unbalance limiting value [%]	
ground-fault monitoring limiting value [%]	10 95 %
<ul> <li>buffering time in the event of power failure</li> <li>for main current circuit</li> </ul>	100 ms
for control circuit	100 ms
	0 255 s
idle time adjustable	480 V
insulation voltage rated value	
degree of pollution	3, acc. to IEC 60947-4-2
impulse voltage rated value	6 kV 1 400 V
blocking voltage of the thyristor maximum service factor	
surge voltage resistance rated value	1.15 6 kV
maximum permissible voltage for safe isolation	0 KV
between main and auxiliary circuit	490 V/: doop not apply for thermister connection
shock resistance	480 V; does not apply for thermistor connection $15 \times 10^{-11}$ ms with potential contact lifting
vibration resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting 15 mm up to 6 Hz; 2 g up to 500 Hz
recovery time after overload trip adjustable	60 1 800 s
utilization category acc. to IEC 60947-4-2	AC 53a
reference code acc. to IEC 81346-2	Q
Substance Prohibitance (Date)	11.02.2019 00:00:00
Substance (Date)	11.02.2019 00.00.00
product function	
product function • ramp-up (soft starting)	Yes
• ramp-up (soft starting)	Yes
<ul><li>ramp-up (soft starting)</li><li>ramp-down (soft stop)</li></ul>	Yes
<ul> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> </ul>	Yes Yes
<ul> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> <li>adjustable current limitation</li> </ul>	Yes Yes Yes
<ul> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> <li>adjustable current limitation</li> <li>creep speed in both directions of rotation</li> </ul>	Yes Yes Yes
<ul> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> <li>adjustable current limitation</li> <li>creep speed in both directions of rotation</li> <li>pump ramp down</li> </ul>	Yes Yes Yes Yes
<ul> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> <li>adjustable current limitation</li> <li>creep speed in both directions of rotation</li> <li>pump ramp down</li> <li>DC braking</li> </ul>	Yes Yes Yes Yes Yes
<ul> <li>ramp-up (soft starting)</li> <li>ramp-down (soft stop)</li> <li>breakaway pulse</li> <li>adjustable current limitation</li> <li>creep speed in both directions of rotation</li> <li>pump ramp down</li> <li>DC braking</li> <li>motor heating</li> </ul>	Yes Yes Yes Yes Yes Yes
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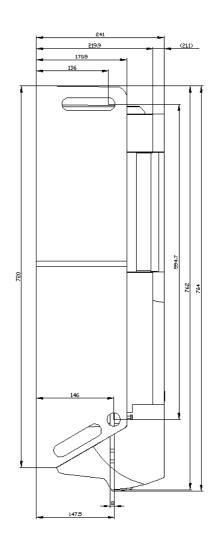
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-
	Feature communication modules
<ul> <li>firmware update</li> </ul>	Yes
<ul> <li>removable terminal for control circuit</li> </ul>	Yes
<ul> <li>voltage ramp</li> </ul>	Yes
torque control	Yes
<ul> <li>combined braking</li> </ul>	Yes
<ul> <li>analog output</li> </ul>	Yes; 4 20 mA (default) / 0 10 V
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes
<ul> <li>condition monitoring</li> </ul>	Yes
<ul> <li>automatic parameterisation</li> </ul>	Yes
<ul> <li>application wizards</li> </ul>	Yes
<ul> <li>alternative run-down</li> </ul>	Yes
<ul> <li>emergency operation mode</li> </ul>	Yes
<ul> <li>reversing operation</li> </ul>	Yes
<ul> <li>soft starting at heavy starting conditions</li> </ul>	Yes
Power Electronics	
operational current	
• at 40 °C rated value	840 A
<ul> <li>at 40 °C rated value minimum</li> </ul>	168 A
• at 50 °C rated value	748 A
• at 60 °C rated value	670 A
operational current at inside-delta circuit	
• at 40 °C rated value	1 454 A
• at 50 °C rated value	1 295 A
<ul> <li>at 60 °C rated value</li> </ul>	1 160 A
operating voltage	
<ul> <li>rated value</li> </ul>	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	10 %
relative negative tolerance of the operating voltage at inside-delta circuit	-15 %
relative positive tolerance of the operating voltage at inside-delta circuit	10 %
operating power for 3-phase motors	
<ul> <li>at 230 V at 40 °C rated value</li> </ul>	250 kW
<ul> <li>at 230 V at inside-delta circuit at 40 °C rated value</li> </ul>	450 kW
<ul> <li>at 400 V at 40 °C rated value</li> </ul>	450 kW
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	800 kW
Operating frequency 1 rated value	50 Hz
Operating frequency 2 rated value	60 Hz
relative negative tolerance of the operating frequency	-10 %
relative positive tolerance of the operating frequency	10 %
minimum load [%]	10 %; Relative to set le
power loss [W] for rated value of the current at AC	
<ul> <li>at 40 °C after startup</li> </ul>	252 W
• at 50 °C after startup	205 W
• at 60 °C after startup	164 W
power loss [W] at AC at current limitation 350 %	
• at 40 °C during startup	14 441 W
• at 50 °C during startup	12 187 W
at 60 °C during startup	10 405 W
type of the motor protection	Electronic, tripping in the event of thermal overload of the motor
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

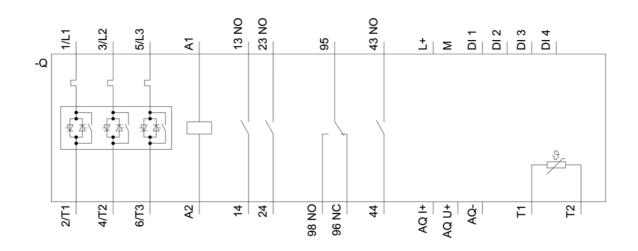
relative negative tolerance of the control supply voltage at AC at 50 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 50 Hz	20 %
relative negative tolerance of the control supply voltage at AC at 60 Hz	-20 %
relative positive tolerance of the control supply voltage at AC at 60 Hz	20 %
control supply voltage frequency	50 60 Hz
relative negative tolerance of the control supply voltage frequency	-10 %
relative positive tolerance of the control supply voltage frequency	10 %
control supply voltage	
<ul> <li>at DC rated value</li> </ul>	24 V
relative negative tolerance of the control supply voltage at DC	-20 %
relative positive tolerance of the control supply voltage at DC	20 %
control supply current in standby mode rated value	440 mA
holding current in bypass operation rated value	1 100 mA
locked-rotor current at close of bypass contact maximum	6.7 A
inrush current peak at application of control supply voltage maximum	7.5 A
duration of inrush current peak at application of control supply voltage	20 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	4
• parameterizable	4
number of inputs for thermistor connection	1; Type A PTC or Klixon / Thermoclick
number of digital outputs	4
<ul> <li>number of digital outputs parameterizable</li> </ul>	3
number of digital outputs not parameterizable	1
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)
number of analog outputs	
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
Installation/ mounting/ dimensions	
mounting position	Vertical (can be rotated $\pm/-90^{\circ}$ and tilted forward or backward $\pm/-22.5^{\circ}$ )
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°) screw fixing
fastening method	screw fixing
fastening method height	screw fixing 764 mm
fastening method height width	screw fixing 764 mm 478 mm
fastening method height width depth	screw fixing 764 mm
fastening method height width	screw fixing 764 mm 478 mm
fastening method         height         width         depth         required spacing with side-by-side mounting	screw fixing 764 mm 478 mm 241 mm 10 mm
fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards	screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm
fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards	screw fixing 764 mm 478 mm 241 mm 10 mm
fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards	screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm 100 mm 75 mm
fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side	screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm 100 mm 75 mm 5 mm
fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging	screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm 100 mm 75 mm
fastening method         height         width         depth         required spacing with side-by-side mounting         • forwards         • backwards         • upwards         • downwards         • at the side         weight without packaging         Connections/ Terminals	screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm 100 mm 75 mm 5 mm
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	screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm 100 mm 75 mm 5 mm 45 kg
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	screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm 100 mm 75 mm 5 mm 45 kg
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	screw fixing 764 mm 478 mm 241 mm 10 mm 0 mm 100 mm 75 mm 5 mm 45 kg

wire length for thermistor connection	
<ul> <li>with conductor cross-section = 0.5 mm<sup>2</sup> maximum</li> </ul>	50 m
<ul> <li>with conductor cross-section = 1.5 mm<sup>2</sup> maximum</li> </ul>	150 m
• with conductor cross-section = 2.5 mm <sup>2</sup> maximum	250 m
type of connectable conductor cross-sections	
<ul> <li>for DIN cable lug for main contacts stranded</li> </ul>	2x (50 240 mm²)
<ul> <li>for DIN cable lug for main contacts finely stranded</li> </ul>	2x (70 240 mm²)
type of connectable conductor cross-sections	
<ul> <li>for control circuit solid</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm²)
<ul> <li>at AWG cables for control circuit solid</li> </ul>	2x (24 16)
<ul> <li>at AWG cables for control circuit finely stranded with core end processing</li> </ul>	2x (24 16)
wire length	
<ul> <li>between soft starter and motor maximum</li> </ul>	800 m
<ul> <li>at the digital inputs at DC maximum</li> </ul>	1 000 m
tightening torque	
for main contacts with screw-type terminals	20 35 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>	177 310 lbf·in
<ul> <li>for auxiliary and control contacts with screw-type</li> </ul>	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	
<ul> <li>during operation acc. 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 acc. to IEC 60721</li> </ul>	1K6 (only occasional condensation), 1C2 (no salt mist), 1S2 (sand must not get inside the devices), 1M4
during transport acc. to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)
EMC emitted interference	acc. to IEC 60947-4-2: Class A
Communication/ Protocol	
communication module is supported	
<ul> <li>PROFINET standard</li> </ul>	Yes
<ul> <li>PROFINET high-feature</li> </ul>	Yes
• EtherNet/IP	Yes
Modbus RTU	Yes
Modbus TCP	Yes
• PROFIBUS	Yes
UL/CSA ratings	
manufacturer's article number	
• of the fuse	
<ul> <li>usable for Standard Faults up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 2500 A; Iq = 42 kA
— usable for High Faults up to 575/600 V according to UL	Type: Class J / L, max. 2500 A; Iq = 100 kA
<ul> <li>— usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> </ul>	Type: Class J / L, max. 2500 A; Iq = 42 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. 2500 A; Iq = 100 kA
operating power [hp] for 3-phase motors	
• at 200/208 V at 50 °C rated value	250 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> </ul>	300 hp
<ul> <li>at 220/230 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> </ul>	300 hp 600 hp

• at 200/208 V at value	t inside-delta circuit at 5	50 °C rated	450 hp				
• at 220/230 V at	• at 220/230 V at inside-delta circuit at 50 °C rated value			550 hp			
at 460/480 V at inside-delta circuit at 50 °C rated value			1 150 hp				
contact rating of auxiliary contacts according to UL			R300-B300				
Safety related data							
	on the front acc. to IE	C 60529	IP00				
electromagnetic compatibility			acc. to IEC 60947-4-2				
ATEX	1						
certificate of suitabi	lity						
• ATEX			Yes				
• IECEx			Yes				
<ul> <li>according to AT</li> </ul>	TEX directive 2014/34/E	EU	BVS 18 ATEX F 003 X				
type of protection a 2014/34/EU	ccording to ATEX dire	ective	II (2)G [Ex eb Gb] [Ex db I (M2) [Ex db Mb]	Gb] [Ex pxb Gb], II (2)D [	Ex tb Db] [Ex pxb Db],		
hardware fault tolera	ance acc. to IEC 6150	8 relating to	0				
PFDavg with low de relating to ATEX	mand rate acc. to IEC	61508	0.008				
	nand rate acc. to EN 6	2061 relating	0.0000005 1/h				
Safety Integrity Leve to ATEX	el (SIL) acc. to IEC 61	508 relating	SIL1				
T1 value for proof te IEC 61508 relating to	est interval or service o ATEX	life acc. to	3 у				
Certificates/ approval	S						
Ormanal Developed Ar				540	For use in hazard-		
General Product Ap	provai			EMC	ous locations		
				•	_		
(SP)		(Ju	EHC		K ATEX		
		(h) u	EHC	RCM	KEX ATEX		
(SP) CSA	CCC	UL ut	EHC	RCM	KEX ATEX		
For use in hazard-	Ccc	UL UL	tes Marine / Shippin	g	other		
For use in hazard- ous locations	Ccc	UL UL	tes Marine / Shippin	g	other		
		Test Certifica		g	other Confirmation		
			tific-	g RCM			
ous locations		Type Test Cer	tific-	g RCM			
	Conformity	Type Test Cer	tific-	Lloyds Register			
ous locations	Conformity	Type Test Cer	tific-	Lloyds Register			
ous locations	Conformity	Type Test Cer	tific-	Lloyds Register			
ous locations	Conformity C E EG-Konf.	<u>Type Test Cer</u> ates/Test Re	tific- port	Lloyds Register			
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ous locations	Conformity CEG-Konf. EG-Konf.	<u>Type Test Cer</u> ates/Test Re	tific- port	Lloyds Register			
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