## SIEMENS

## Data sheet

## 3RW5515-3HA14



SIRIUS soft starter 200-480 V 25 A, 110-250 V AC spring-type terminals

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>	3RV2032-4EA10; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 500 V</li> </ul>	3RV2032-4EA10; Type of coordination 1, Iq = 15 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 400 V at inside-delta circuit</li> </ul>	3RV2032-4VA10; Type of coordination 1, Iq = 65 kA, CLASS 10		
<ul> <li>of circuit breaker usable at 500 V at inside-delta circuit</li> </ul>	3RV2032-4VA10; Type of coordination 1, Iq = 15 kA, CLASS 10		
<ul> <li>of the gG fuse usable up to 690 V</li> </ul>	3NA3822-6; Type of coordination 1, Iq = 65 kA		
<ul> <li>of the gG fuse usable at inside-delta circuit up to 500 V</li> </ul>	3NA3822-6; 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>3NE1817-0; 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>3NE8021-1; Type of coordination 2, Iq = 65 kA</u>		
General technical data			
starting voltage [%]	20 100 %		
stopping voltage [%]	50 %; non-adjustable		
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 %		

accuracy class

torque limitation [%]

current limiting value [%] adjustable

breakaway voltage [%] adjustable

breakaway time adjustable

number of parameter sets

certificate of suitability

CE markingUL approval

20 ... 200 %

125 ... 800 %

40 ... 100 %

5 (based on IEC 61557-12)

0 ... 2 s 3

Yes

Yes

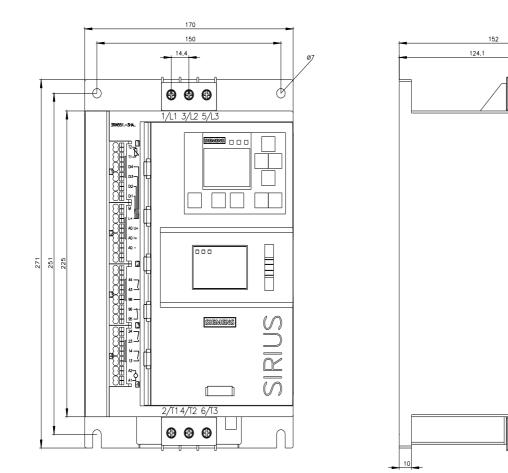
CSA approval	Yes			
product component				
HMI-High Feature	Yes			
<ul> <li>is supported HMI-High Feature</li> </ul>	Yes			
product feature integrated bypass contact system	Yes			
number of controlled phases	3			
current unbalance limiting value [%]	10 60 %			
ground-fault monitoring limiting value [%]	10 95 %			
buffering time in the event of power failure				
<ul> <li>for main current circuit</li> </ul>	100 ms			
for control circuit	100 ms			
idle time adjustable	0 255 s			
insulation voltage rated value	480 V			
degree of pollution	3, acc. to IEC 60947-4-2			
impulse voltage rated value	6 kV			
blocking voltage of the thyristor maximum	1 600 V			
service factor	1.15			
surge voltage resistance rated value	6 kV			
maximum permissible voltage for protective separation				
between main and auxiliary circuit	480 V; does not apply for thermistor connection			
shock resistance	15 g / 11 ms, from 6 g / 11 ms with potential contact lifting			
recovery time after overload trip adjustable	60 1 800 s			
utilization category according to IEC 60947-4-2	AC 53a			
reference code according to IEC 81346-2	Q			
Substance Prohibitance (Date)	02/15/2018			
SVHC substance name	Lead - 7439-92-1			
	Lead monoxide (lead oxide) - 1317-36-8 2-methyl-1-(4-methylthiophenyl)-2-morpholinopropan-1-one - 71868-10-5 Dibutylbis(pentane-2,4-dionato-O,O')tin - 22673-19-4 Dicyclohexyl phthalate (DCHP) - 84-61-7 Dodecamethylcyclohexasiloxane (D6) - 540-97-6 Lead titanium trioxide - 12060-00-3 Diboron trioxide - 1303-86-2			
product function				
<ul> <li>ramp-up (soft starting)</li> </ul>	Yes			
• ramp-down (soft stop)	Yes			
breakaway pulse	Yes			
adjustable current limitation	Yes			
<ul> <li>creep speed in both directions of rotation</li> </ul>	Yes			
• pump ramp down	Yes			
• DC braking	Yes			
motor heating	Yes			
slave pointer function	Yes			
trace function	Yes			
intrinsic device protection	Yes			
motor overload protection	Yes; Full motor protection (thermistor motor protection and electronic motor overload protection) / When using the motor overload protection according to ATEX, an upstream contactor is required in inside-delta circuit.			
<ul> <li>evaluation of thermistor motor protection</li> </ul>	Yes; Type A PTC or Klixon / Thermoclick			
• inside-delta circuit	Yes			
auto-RESET	Yes			
manual RESET	Yes			
remote reset	Yes			
communication function	Yes			
<ul> <li>operating measured value display</li> </ul>	Yes			
• event list	Yes			
• error logbook	Yes			
via software parameterizable	Yes			
via software configurable	Yes			
screw terminal	No			
spring-loaded terminal	Yes			
PROFlenergy	Yes; in connection with the PROFINET Standard and PROFINET High-Feature communication modules			
firmware update	Yes			

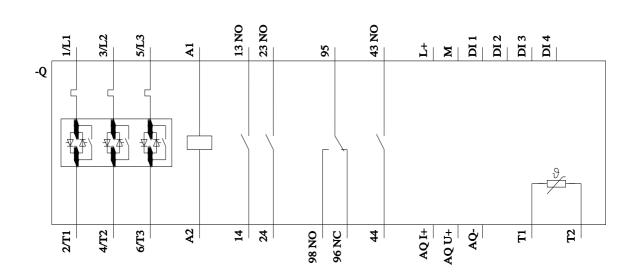
	No.				
removable terminal for control circuit	Yes				
voltage ramp	Yes				
torque control	Yes				
combined braking	Yes				
analog output	Yes; 4 20 mA (default) / 0 10 V				
<ul> <li>programmable control inputs/outputs</li> </ul>	Yes				
<ul> <li>condition monitoring</li> </ul>	Yes				
<ul> <li>automatic 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	25 A				
<ul> <li>at 40 °C rated value minimum</li> </ul>	5 A				
• at 50 °C rated value	22.3 A				
• at 60 °C rated value	19.6 A				
operational current at inside-delta circuit					
• at 40 °C rated value	43.3 A				
• at 50 °C rated value	39 A				
• at 60 °C rated value	33.9 A				
operating voltage					
rated value	200 480 V				
<ul> <li>at inside-delta circuit rated value</li> </ul>	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	-15 %				
inside-delta circuit relative positive tolerance of the operating voltage at inside-delta circuit	10 %				
operating power for 3-phase motors					
• at 230 V at 40 °C rated value	5.5 kW				
at 230 V at inside-delta circuit at 40 °C rated value	11 kW				
at 400 V at 40 °C rated value	11 kW				
<ul> <li>at 400 V at inside-delta circuit at 40 °C rated value</li> </ul>	18.5 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					
• at 40 °C after startup	8 W				
• at 50 °C after startup	7 W				
• at 60 °C after startup	6 W				
power loss [W] at AC at current limitation 350 %					
• at 40 °C during startup	364 W				
at 50 °C during startup	309 W				
• at 60 °C during startup	262 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				
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	-15 %				
AC at 50 Hz					
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 frequency	-10 %				
relative positive tolerance of the control supply voltage frequency	10 %				
control supply current in standby mode rated value	100 mA				
holding current in bypass operation rated value	165 mA				
inrush current by closing the bypass contacts maximum	0.2 A				
inrush current peak at application of control supply voltage maximum	43 A				
duration of inrush current peak at application of control supply voltage	1.6 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				
<ul> <li>number of digital outputs</li> </ul>	4				
<ul> <li>number of digital outputs parameterizable</li> </ul>	3				
<ul> <li>number of digital outputs not parameterizable</li> </ul>	1				
digital output version	3 normally-open contacts (NO) / 1 changeover contact (CO)				
number of analog outputs	1				
switching capacity current of the relay outputs					
• at AC-15 at 250 V rated value	3 A				
• at DC-13 at 24 V rated value	1 A				
Installation/ mounting/ dimensions					
mounting position	Vertical (can be rotated +/- 90° and tilted forward or backward +/- 22.5°)				
fastening method	screw fixing				
height	275 mm				
width	170 mm				
depth	152 mm				
required spacing with side-by-side mounting					
<ul> <li>forwards</li> </ul>	10 mm				
backwards	0 mm				
• upwards	100 mm				
downwards	75 mm				
• at the side	5 mm				
weight without packaging	2.3 kg				
Connections/ Terminals					
type of electrical connection					
for main current circuit	screw-type terminals				
for control circuit	spring-loaded terminals				
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				
<ul> <li>with conductor cross-section = 2.5 mm<sup>2</sup> maximum</li> </ul>	250 m				
type of connectable conductor cross-sections					
for main contacts					
— solid	2x (1.0 2.5 mm²), 2x (2.5 10 mm²)				
- finely stranded with core end processing	2x (1.0 2.5 mm <sup>2</sup> ), 2x (2.5 6.0 mm <sup>2</sup> )				
<ul> <li>for AWG cables for main current circuit solid</li> </ul>	2x (16 12), 2x (14 8)				
type of connectable conductor cross-sections					
for control circuit solid	2x (0.25 1.5 mm²)				
<ul> <li>for control circuit finely stranded with core end processing</li> </ul>	2x (0.25 1.5 mm <sup>2</sup> )				
for AWG cables for control circuit solid	2x (24 16)				
<ul> <li>for AWG cables for control circuit solid</li> <li>for AWG cables for control circuit finely stranded with</li> </ul>	2x (24 16) 2x (24 16)				
core end processing					
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				
<ul> <li>for main contacts with screw-type terminals</li> </ul>	2 2.5 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>	18 22 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 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			
during transport according to IEC 60721	2K2, 2C1, 2S1, 2M2 (max. fall height 0.3 m)			
Environmental footprint				
Siemens Eco Profile (SEP)	Siemens EcoTech			
EMC emitted interference	acc. to IEC 60947-4-2: Class A, Class B on request			
Communication/ Protocol				
communication module is supported				
PROFINET standard	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				
<ul> <li>of circuit breaker usable for Standard Faults</li> </ul>				
— at 460/480 V according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA			
— 60/480 V according to UL	Siemens type: 3RV2742, max.40 A or 3VA51, max. 60 A; lq max = 65 kA			
— at 460/480 V at inside-delta circuit according to UL				
	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; Iq = 5 kA			
— 60/480 V at inside-delta circuit according to UL	Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA			
-				
— 60/480 V at inside-delta circuit according to UL	Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA			
<ul> <li>— 60/480 V at inside-delta circuit according to UL</li> <li>— at 575/600 V according to UL</li> </ul>	Siemens type: 3VA51, max. 60 A; lq max = 65 kA			
<ul> <li>— 60/480 V at inside-delta circuit according to UL</li> <li>— at 575/600 V according to UL</li> <li>— 75/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA			
<ul> <li>— 60/480 V at inside-delta circuit according to UL</li> <li>— at 575/600 V according to UL</li> <li>— 75/600 V at inside-delta circuit according to UL</li> <li>— at 575/600 V at inside-delta circuit according to UL</li> </ul>	Siemens type: 3VA51, max. 60 A; lq max = 65 kA Siemens type: 3RV2742, max. 70 A or 3VA51, max. 80 A; lq = 5 kA Siemens type: 3VA51, max. 60 A; lq max = 65 kA			
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<ul> <li>60/480 V at inside-delta circuit according to UL</li> <li>at 575/600 V according to UL</li> <li>75/600 V at inside-delta circuit according to UL</li> <li>at 575/600 V at inside-delta circuit according to UL</li> <li>of the fuse</li> <li>usable for Standard Faults up to 575/600 V according to UL</li> <li>usable for High Faults up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for Standard Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>usable for High Faults at inside-delta circuit up to 575/600 V according to UL</li> <li>according to UL</li> <li>usable for 3-phase motors</li> <li>at 200/208 V at 50 °C rated value</li> <li>at 460/480 V at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 220/230 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> <li>at 460/480 V at inside-delta circuit at 50 °C rated value</li> </ul>	Siemens type: $3VA51$ , max. $60$ A; lq max = $65$ kA Siemens type: $3RV2742$ , max. $70$ A or $3VA51$ , max. $80$ A; lq = $5$ kA Siemens type: $3VA51$ , max. $60$ A; lq max = $65$ kA Siemens type: $3RV2742$ , max. $70$ A or $3VA51$ , max. $80$ A; lq = $5$ kA Type: Class RK5 / K5, max. $100$ A; lq = $5$ kA Type: Class J / L, max. $100$ A; lq = $100$ kA Type: Class RK5 / K5, max. $100$ A; lq = $5$ kA Type: Class J / L, max. $100$ A; lq = $100$ kA Type: Class J / L, max. $100$ A; lq = $100$ kA Type: Class J / L, max. $100$ A; lq = $100$ kA 5 hp 7.5 hp 15 hp 10 hp 10 hp 25 hp			

Safety Integrity Level to ATEX	(SIL) according to IEC 61	508 relating	SIL1				
PFHD with high dema relating to ATEX	nd rate according to IEC	61508	5E-7 1/h				
PFDavg with low dem relating to ATEX	and rate according to IEC	61508	0.008				
hardware fault toleran ATEX	nce according to IEC 6150	8 relating to	0				
T1 value for proof test IEC 61508 relating to	t interval or service life ac ATEX	cording to	3 a				
certificate of suitabilit	y						
• ATEX			Yes				
• IECEx			Yes				
<ul> <li>according to ATE</li> </ul>	EX directive 2014/34/EU		BVS 18 ATEX F 003 X				
type of protection acc	ording to ATEX directive	2014/34/EU	II (2)G [Ex eb Gb] [Ex db Gb] [Ex pxb Gb], II (2)D [Ex tb Db] [Ex pxb Db], I (M2) [Ex db Mb]				
Approvals Certificates							
General Product App	roval						
	UK CA	<u>Confirmatio</u>	D		CE EG-Konf.		
General Product Approval	EMV			For use in hazardous	locations	Test Certificates	
EHC	RCM	KC		K ATEX	IECEx	Type Test Certific- ates/Test Report	
Marine / Shipping					other	Environment	
ABS	BUREAU VERITAS	Llovd's Register uis		PRS	<u>Confirmation</u>	Siemens EcoTech	
Environment							
EPD	Environmental Con- firmations						
Further information							
Further information	ckaging						
Information on the pa https://support.industry.	ckaging .siemens.com/cs/ww/en/vie	<u>w/109813875</u>					
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https://www.siemens.co							
Industry Mall (Online https://mall.industry.sie	ordering system) mens.com/mall/en/en/Catal	og/product?mlfb=	= <u>3</u> RW5	515-3HA14			
Cax online generator							
	on.siemens.com/WW/CAXo			en&mlfb=3RW5515-3HA1	<u>4</u>		
	nuals, Certificates, Charae siemens.com/cs/ww/en/ps/						
https://support.industry.siemens.com/cs/ww/en/ps/3RW5515-3HA14 Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, EPLAN macros,)							
http://www.automation.	siemens.com/bilddb/cax_de	e.aspx?mlfb=3RV	<u>V5515-3</u>	BHA14⟨=en	· · · · · · · · · · · · · · · · · · ·		
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	siemens.com/bilddb/index.a	aspx?view=Searc	h&mlfb	=3RW5515-3HA14&objec	cttype=14&gridview=viev	<u>v1</u>	
Simulation Tool for Se							
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